37390

[redacted]

Fred C. Hart Associates Inc.

ASB 002 1163 F

APPENDIX B

SUPPLEMENTAL ANALYTICAL DATA

ASB 002 1166

SECOND SAMPLING ROUND
SURFACE WATER DATA
ORGANIC ANALYSES

ASB 002 1167

QA/QC Review for Organics
on Radian Corp. Jobs 87-06-140
and 87-06-141

Sample Holding Times: All sample holding times were adhered to as per the CLP.

GC/MS Tuning and Performance: All tuning and performance criteria were met.

Blanks: All method blanks were within CLP limits. The VOA reagent blank analyzed on 6/30/87 contained acetone (3 ug/l) and benzene (1 ug/l). The VOA reagent blank analyzed on 7/1/87 contained benzene at 3 ug/l. The BNA reagent blank analyzed on 7/15/87 contained di-n-butyl phthalate at 12 ug/l. For associated samples, results below five times (ten times for common lab contaminants) should be marked as not detected.

Initial and Continuing Calibration: All calibration criteria were met.

Surrogate Recoveries: All volatile surrogate recoveries were within CLP limits. Samples 903-1, SW12-1, SW9-1 and 902-1 all had one surrogate outside CLP limits but above 10% recovery in the base/neutral fraction. The CLP allows for one surrogate outside QC limits but above 10% recovery without any flagging of data.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD): All recoveries for MS/MSD samples were within CLP limits.

Compound Identification: All identification criteria were met.

System Performance: There were not any indications of poor instrument performance.

Overall Assessment: This data is within CLP requirements.

QA/QC Review for Organics
on Enviropact Inc. Data

Sample Holding Times: CLP holding times were exceeded for volatiles and the extraction of the base/neutrals for many of the samples (see attached lists).

GC/MS Tuning and Performance: All tuning and performance criteria were met.

Calibration: Initial and Continuing calibration criteria were exceeded for calibration check compounds in both volatile and base/neutral fractions and for system performance check compounds in the volatile fraction.

Blanks: All base/neutral blanks were within CLP limits. The following volatile blanks had one or more compounds outside CLP limits: A2604, A2616, A2803, A0702, A0604, and A0624.

Surrogate Recoveries: Both volatiles and base/neutrals had many samples with surrogates outside CLP limits (see attached lists).

Matrix Spike (MS)/Matrix Spike Duplicate (MSD): All MS/MSD data was within CLP limits.

Compound Identification: No identification data was supplied.

System Performance: Not enough information provided.

Overall Assessment: There are so many problems with this data that using the results would be very risky.

List of Samples with Volatile Fraction Outside CLP Requirements

Sample Holding Times (VOAs) -

J10161	WBR2-1	J10176	GS2-1
J10161	WBR1-1	J10176	GS1-1
J10161	NVR1-1	J10176	WBR3-1
J10161	NVR2-1	J10161	TB
J10161	NVR3-1	J10189	FB-1
J10190	GS3-1	J10189	GS4-1
J10190	GS10-1	J10189	GS11-1
J10190	GS5-1	J10189	TB
J10202	GS8-1	J10209	TB
J10202	TB	J10209	SW00-1
J10202	GS9-1	J10209	908-1
J10202	GS7-1	J10209	905-1
J10202	WBR1-1	J10210	906-1
J10202	GS6-1	J10211	907-1
J10211	907-1	J10210	901-1
J10211	MS	J10190	GS10-1
J10211	MSD	J10201	GS7-1
J10209	TB#5	J10202	GS9-1
J10209	SW00-1	J10210	GS6-1
J10209	905-1	J10210	906-1
J10209	908-1	J10210	901-1
J10202	TB#4	J10211	907-1
J10190	GS5-1	J10209	908-1
J10190	GS3-1	J10211	MS
		J10211	MSD

Surrogate Recoveries (VOAs) -

J10161	WBR2-1	J10190	GS3-1
J10161	WBR1-1	J10190	GS10-1
J10161	NVR1-1	J10190	GS5-1
J10161	NVR2-1	J10202	GS8-1
J10161	NVR3-1	J10202	TB
J10176	GS2-1	J10202	GS9-1
J10176	GS1-1	J10202	GS7-1
J10176	WBR3-1	J10202	WBR1-1
J10161	TB	J10202	GS6-1
J10209	TB#5	J10211	907-1
J10209	SW00-1	J10210	901-1
J10209	908-1	J10211	MS
J10209	905-1	J10211	MSD
J10209	906-1		

List of Samples with Base/Neutral Fraction Outside CLP Requirements

Sample Holding Times: Extraction time exceeded

J10161	NVR1-1	J10176	GS2-1
J10161	NVR2-1	J10176	GS1-1
J10161	WBR2-1	J10176	WBR3-1
J10161	NVR3-1	J10189	FB-1
J10190	GS10-1	J10189	GS11-1
J10190	GS3-1	J10189	GS4-1
J10190	GS5-1	J10189	GS6-1

Surrogate Recovery:

J10161	NVR1-1	J10176	GS2-1
J10161	NVR2-1	J10176	GS1-1
J10161	WBR2-1	J10176	WBR3-1
J10161	NVR3-1	J10189	FB-1
J10202	WBR1-1	J10189	GS11-1
J10202	GS9-1	J10209	SW00-1
J10202	GS7-1	J10209	908-1
J10202	GS8-1	J10210	906-1
J10209	905-1	J10210	901-1
		J10210	907-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW1-1

Lab Name: Rubin Sac Contract: Equicount

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706047-06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 4UC6047.06

Level: (low/med) LOW Date Received: 6-27-97

Moisture: not dec. 100 Date Analyzed: 7-1-97

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	3	J
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.

SW-1

Lab Name: Radian-Sac Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706047-06

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: 4CU01047V06

Level: (low/med) LOW Date Received: 6-27-97

% Moisture: not dec. 100 Date Analyzed: 7-1-97

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
1.	Not Required			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW2-1

Lab Name: Rubin - Sac Contract: Encompass

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5206044-01

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: 4[illegible]

Level: (low/med) LOW Date Received: 6-27-97

% Moisture: not dec. 100 Date Analyzed: 7-1-97

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	3	JB
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
		5	u

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW2-1

Lab Name: Radian - Sac Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S2060448-01

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: 4MUCK045V01

Level: (low/med) LOW Date Received: 6-27-97

% Moisture: not dec. 100 Date Analyzed: 7-1-97

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
1.	Not Required			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-1

Lab Name: Rubin - Sac Contract: Equipment

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706047-10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 4CU06047VIC

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-30-87

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	1	JB
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	Tetrachloroethane	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
		5	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW3-1

Lab Name: Radian-Soc Contract: Environment

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 520604-10

Sample wt/vol: 50 (g/mL) ML Lab File ID: [illegible]

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-30-87

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
1.	Not Required			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-32-1

Lab Name: Rubin-Sac Contract: Equicon

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 570C043-03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 4UCK043V03

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-30-87

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	[illegible]	50
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
		5	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-22-1

Lab Name: Radian-Sac Contract: Equipment

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706047-03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 40U06047V03

Level: (low/med) LOW Date Received: 6-27-97

% Moisture: not dec. 100 Date Analyzed: 6-30-97

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
1.	Not Required			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Field Blank 3-1

Lab Name: R[illegible] Sac Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706047-04

Sample wt/vol: [illegible] (g/mL) mL Lab File ID: [illegible]

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-29-87

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	3	J
67-64-1	Acetone	9	JB
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	1	JB
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
		5	u

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FORM I VOA 1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Field Blank 3-1

Lab Name: Radian - Sac Contract: Equipment

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 4CU06C47V04

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-29-87

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
1.	Not Required			
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK #6

Lab Name: Robinson Sac Contract: Equicopact

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9706047-11

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 4CUCK0497V11

Level: (low/med) LOW Date Received: 6-27-97

% Moisture: not dec. 100 Date Analyzed: 6-29-97

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	7	J
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	1	J
10061-02-6	trans-1,3-Dichloropropane	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
		5	U

ASB 002 1182

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK #10

Lab Name: [illegible] Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3706047-11

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 4CU06047V1

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-29-87

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
1.	Not Required			
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ASB 002 1183

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Name: ENVIROPACT INC. Contract: _____

Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

rix: (soil/water) WATER Lab Sample ID: J10209 SW00-1

le wt/vol: _____ (g/mL) ____ Lab File ID: 2M0234

vel: (low/med) Low Date Received: 06/23/87

isture: not dec. _____ dec. _____ Date Extracted: 06/28/87

raction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) µg/l

CAS NO.	COMPOUND		Q
108-95-2	Phenol		NAF
111-44-4	bis(2-Chloroethyl)ether		10u
95-57-8	2-Chlorophenol		NAF
541-73-1	1,3-Dichlorobenzene		10u
106-46-7	1,4-Dichlorobenzene		10u
100-51-6	Benzyl alcohol		10u
95-50-1	1,2-Dichlorobenzene		10u
95-48-7	2-Methylphenol		NAF
108-60-1	bis(2-Chloroisopropyl)ether		10u
106-44-5	4-Methylphenol		NAF
621-64-7	N-Nitroso-di-n-propylamine		10u
67-72-1	Hexachloroethane		10u
98-95-3	Nitrobenzene		10u
78-59-1	Isophorone		10u
88-75-5	2-Nitrophenol		NAF
105-67-9	2,4-Dimethylphenol		NAF
65-85-0	Benzoic acid		50u
111-91-1	bis(2-Chloroethoxy)methane		10u
120-83-2	2,4-Dichlorophenol		NAF
120-82-1	1,2,4-Trichlorobenzene		10u
91-20-3	Naphthalene		10u
106-47-8	4-Chloroaniline		10u
87-68-3	Hexachlorobutadiene		10u
59-50-7	4-Chloro-3-methylphenol		NAF
91-57-6	2-Methylnaphthalene		10u
77-47-4	Hexachlorocyclopentadiene		10u
88-06-2	2,4,6-Trichlorophenol		NAF
95-95-4	2,4,5-Trichlorophenol		NAF
91-58-7	2-Chloronaphthalene		10u
88-74-4	2-Nitroaniline		50u
131-11-3	Dimethylphthalate		10u
208-96-8	Acenaphthylene		10u
606-20-2	2,6-Dinitrotoluene		10u

ASB 002 1184

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ab Name: ENVIROPACT INC. Contract: _____

b Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

atrix: (soil/water) WATER Lab Sample ID: J10209 SW00-1

ample wt/vol: _____ (g/mL) ____ Lab File ID: 2M0234

Level: (low/med) LOW Date Received: 06/23/87

Moisture: not dec. _____ dec. _____ Date Extracted: 06/28/87

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

PC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline		50u
83-32-9	Acenaphthene		10u
51-28-5	2,4-Dinitrophenol		NAF
100-02-7	4-Nitrophenol		NAF
132-64-9	Dibenzofuran		10u
121-14-2	2,4-Dinitrotoluene		10u
84-66-2	Diethylphthalate		10u
7005-72-3	4-Chlorophenyl-phenylether		10u
86-73-7	Fluorene		10u
100-01-6	4-Nitroaniline		50u
534-52-1	4,6-Dinitro-2-methylphenol		NAF
86-30-6	N-Nitrosodiphenylamine (1)		10u
101-55-3	4-Bromophenyl-phenylether		10u
118-74-1	Hexachlorobenzene		10u
87-86-5	Pentachlorophenol		NAF
85-01-8	Phenanthrene		10u
120-12-7	Anthracene		10u
84-74-2	Di-n-butylphthalate		10u
206-44-0	Fluoranthene		10u
129-00-0	Pyrene		10u
85-68-7	Butylbenzylphthalate		10u
91-94-1	3,3'-Dichlorobenzidine		20u
56-55-3	Benzo(a)anthracene		10u
218-01-9	Chrysene		10u
117-81-7	bis(2-Ethylhexyl)phthalate	36	B
117-84-0	Di-n-octylphthalate		10u
205-99-2	Benzo(b)fluoranthene		10u
207-08-9	Benzo(k)fluoranthene		10u
50-32-8	Benzo(a)pyrene		10u
193-39-5	Indeno(1,2,3-cd)pyrene		10u
53-70-3	Dibenz(a,h)anthracene		10u
191-24-2	Benzo(g,h,i)perylene		10u

(1) - Cannot be separated from diphenylamine

ASB 002 1185

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW1-1

Lab Name: Radian - Sac Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-04

Sample wt/vol: 940 (g/mL) ML Lab File ID: 20UD6049004

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	NA	NA
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	NA	NA
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	NA	NA
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	NA	NA
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	NA	NA
105-67-9	2,4-Dimethylphenol	NA	NA
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	NA	NA
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	NA	NA
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	NA	NA
95-95-4	2,4,5-Trichlorophenol	NA	NA
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
			U

ASB 002 1186

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW1-1

Lab Name: Radian - Sac Contract: Exempt

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706040-04

Sample wt/vol: 940 (g/mL) ML Lab File ID: 21uck0440.04

Level: (low/med) LOW Date Received: 6-27-97

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-97

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-97

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	NA	NA
100-02-7	4-Nitrophenol	NA	NA
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	NA	NA
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	11	B
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	50	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
			U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW1-1

Lab Name: Radian-Sac Contract: Envirocare

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706040-04

Sample wt/vol: 940 (g/mL) ML Lab File ID: 2CU06049C04

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	5.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	6.0	U
60-57-1	Dieldrin	7.5	U
72-55-9	4,4'-DDE	5.6	U
72-20-8	Endrin	8.0	U
33213-65-9	Endosulfan II	10	U
72-54-8	4,4'-DDD	2.8	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	4.7	U
72-43-5	Methoxychlor	N/A	U
53494-70-5	Endrin ketone	N/A	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	N/A	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	30	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	120	U
12672-29-6	Aroclor-1248	360	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	500	U

407

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW1-1

Lab Name: [illegible] Contract: Envirogard

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-04

Sample wt/vol: 940 (g/mL) ML Lab File ID: 20U06049C04

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ASB 002 1189

FORM I SV-TIC 1/87 Rev.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW2-1

Lab Name: Radian - Sac Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 87OU049-25

Sample wt/vol: 940 (g/mL) mL Lab File ID: 2CU0E049C28

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-15-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	NA	NA
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	NA	NA
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	NA	NA
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	NA	NA
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	NA	NA
105-67-9	2,4-Dimethylphenol	NA	NA
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	NA	NA
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	NA	NA
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	NA	NA
95-95-4	2,4,5-Trichlorophenol	NA	NA
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
			U

ASB 002 1190

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW2-1

Lab Name: Radian - Sac. Contract: Fermont

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5206049-28

Sample wt/vol: 940 (g/mL) ML Lab File ID: 3C406049C38

Level: (low/med) LOW Date Received: 6-27-86

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-15-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	NA	NA
100-02-7	4-Nitrophenol	NA	NA
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	NA	NA
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	8	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	50	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

ASB 002 1191

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW2-1

Lab Name: Radian-Sac Contract: Envirocract

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706040-28

Sample wt/vol: 940 (g/mL) mL Lab File ID: 20U06040C28

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-15-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	3.0	u
319-85-7	beta-BHC	5.0	u
319-86-8	delta-BHC	4.0	u
58-89-9	gamma-BHC (Lindane)	4.0	u
76-44-8	Heptachlor	1.9	u
309-00-2	Aldrin	1.9	u
1024-57-3	Heptachlor epoxide	2.2	u
959-98-8	Endosulfan I	6.0	u
60-57-1	Dieldrin	2.5	u
72-55-9	4,4'-DDE	5.6	u
72-20-8	Endrin	9.0	u
33213-65-9	Endosulfan II	10	u
72-54-8	4,4'-DDD	2.8	u
1031-07-8	Endosulfan sulfate	5.6	u
50-29-3	4,4'-DDT	4.7	u
72-43-5	Methoxychlor	N/A	u
53494-70-5	Endrin ketone	N/A	u
5103-71-9	alpha-Chlordane	10	u
5103-74-2	gamma-Chlordane	10	u
8001-35-2	Toxaphene	N/A	u
12674-11-2	Aroclor-1016	150	u
11104-28-2	Aroclor-1221	30	u
11141-16-5	Aroclor-1232	120	u
53469-21-9	Aroclor-1242	120	u
12672-29-6	Aroclor-1248	360	u
11097-69-1	Aroclor-1254	34	u
11096-82-5	Aroclor-1260	500	u

ASB 002 1192

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW2-1

Lab Name: Radian-Sac Contract: Encirepact

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 57CL049-28

Sample wt/vol: 940 (g/mL) mL Lab File ID: 2CU06049C28

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-15-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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ASB 002 1193

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-1

Lab Name: Radian - Sac Contract: Subcont

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 570-000-07

Sample wt/vol: 950 (g/mL) mL Lab File ID: 20006-49007

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	NA	NA
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	NA	NA
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	NA	NA
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	NA	NA
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	NA	NA
105-67-9	2,4-Dimethylphenol	NA	NA
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	NA	NA
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	NA	NA
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	NA	NA
95-95-4	2,4,5-Trichlorophenol	NA	NA
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

ASB 002 1194

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-1

Lab Name: Radian - Sac Contract: Exempt

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S706049-07

Sample wt/vol: 950 (g/mL) ML Lab File ID: 7CU06049C07

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	NA	NA
100-02-7	4-Nitrophenol	NA	NA
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	NA	NA
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	8	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

ASB 002 1195

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW 3-1

Lab Name: Radian-Sac Contract: Envirocare

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: 950 (g/mL) ML Lab File ID: 2[illegible]

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	3.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	6.0	U
60-57-1	Dieldrin	7.5	U
72-55-9	4,4'-DDE	5.6	U
72-20-8	Endrin	9.0	U
33213-65-9	Endosulfan II	10	U
72-54-8	4,4'-DDD	2.8	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	4.7	U
72-43-5	Methoxychlor	N/A	U
53494-70-5	Endrin ketone	N/A	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	N/A	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	30	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	120	U
12672-29-6	Aroclor-1248	360	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	500	U

ASB 002 1196

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW3-1

Lab Name: Redmond - Sac Contract: Enviroped

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-07

Sample wt/vol: 950 (g/mL) mL Lab File ID: 20406049007

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.05

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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ASB 002 1197

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW22-1

Lab Name: [illegible] Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-25

Sample wt/vol: 945 (g/mL) ML Lab File ID: 20406049025

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-30-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-15-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	NA	NA
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	NA	NA
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	NA	NA
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	NA	NA
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	NA	NA
105-67-9	2,4-Dimethylphenol	NA	NA
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	NA	NA
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	NA	NA
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	NA	NA
95-95-4	2,4,5-Trichlorophenol	NA	NA
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
			U

ASB 002 1198

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW72-1

Lab Name: Radian - [illegible] Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: 945 (g/mL) ML Lab File ID: [illegible]

Level: (low/med) LOW Date Received: 6-23-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-30-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-15-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	NA	NA
100-02-7	4-Nitrophenol	NA	NA
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	NA	NA
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	7	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	50	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
			U

(1) - Cannot be separated from Diphenylamine

ASB 002 1199

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW 22-1

Lab Name: Radian-Soc Contract: Environact

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706000-25

Sample wt/vol: 0.45 (g/mL) ML Lab File ID: 20000049025

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-30-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-15-87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	5.0	U
319-86-8	delta-BHC	5.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	6.0	U
60-57-1	Dieldrin	2.5	U
72-55-9	4,4'-DDE	5.6	U
72-20-8	Endrin	9.0	U
33213-65-9	Endosulfan II	10	U
72-54-8	4,4'-DDD	2.5	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	4.7	U
72-43-5	Methoxychlor	N/A	U
53494-70-5	Endrin ketone	N/A	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	N/A	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	30	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	120	U
12672-29-6	Aroclor-1248	360	U
11097-69-1	Aroclor-1254	24	U
11096-82-5	Aroclor-1260	500	U

ASB 002 1200

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW22-1

Lab Name: Radian-Sac Contract: Envirogen

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706044-25

Sample wt/vol: _____ (g/mL) ML Lab File ID: 2CU06049C25

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-30-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-15-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.06

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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ASB 002 1201

SECOND SAMPLING ROUND

SURFACE WATER DATA

INORGANIC ANALYSES

ASB 002 1202

QA/QC Review for Inorganics
on Radian Corp. Jobs 87-06-140
and 87-06-141

Sample Holding Times: All sample holding times were adhered to as per the CLP.

Initial and Continuing Calibration Vertification: All calibration criteria were met.

Blanks: All method blanks were within CLP limits.

ICP Interference Check: ICP interference check results were within CLP limits.

Spike Sample Recoveries: Arsenic, Lead, Selenium, Zinc and Silver had spike recoveries outside QC limits and were marked appropriately.

Duplicates: All duplicates were within QC limits.

Instrument Detection Limits (IDL): All IDL's were at or below CRDL's as required.

Standard Additions: MSA's were run for several samples and all criteria were met.

ICP Serial Dilution: ICP serial dilution for zinc fell outside CLP requirements. Samples were marked appropriately.

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SW 00-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian CASE NO. 140-141

SOW NO. 794

LAB SAMPLE ID. NO. 870614O-31 QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60U	P	14.	Manganese		
3.	Arsenic	15	R F	15.	Mercury	0.2U	CVAA
4.	Barium			16.	Nickel	[24]	P
5.	Beryllium	1.0U	P	17.	Potassium		
6.	Cadmium	3.0U	P	18.	Selenium	3.2U	R F
7.	Calcium			19.	Silver	9.0U	R P
8.	Chromium	9.0U	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2U	F
10.	Copper	[14]	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	8.6	S R F	24.	Zinc	40	E R P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager: Kenneth Burris

ASB 002 1204

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SW 1-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 87 06 140-32

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60U	P	14.	Manganese		
3.	Arsenic	4.2U	R F	15.	Mercury	0.2U	CVAA
4.	Barium			16.	Nickel	20U	P
5.	Beryllium	1.0U	P	17.	Potassium		
6.	Cadmium	3.0U	P	18.	Selenium	3.2U	R F
7.	Calcium			19.	Silver	9.0U	R P
8.	Chromium	9.0U	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2U	F
10.	Copper	10U	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	[2.8]	R D F	24.	Zinc	[12]	E R P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager: Rebecca Burns
QC

ASB 002 1205

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SW 2-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706140-33

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60U	P	14.	Manganese		
3.	Arsenic	4.2U	R F	15.	Mercury	0.2U	CVAA
4.	Barium			16.	Nickel	20U	P
5.	Beryllium	1.0U	P	17.	Potassium		
6.	Cadmium	3.0U	P	18.	Selenium	3.2U	R F
7.	Calcium			19.	Silver	9.0U	R P
8.	Chromium	26	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2U	F
10.	Copper	10U	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	[2.8]	R Q F	24.	Zinc	[12]	E R P

Cyanide ____

Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Rebecca Burris
DC

ASB 002 1206

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW 5-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian
CASE NO. 140-141
SOW NO. 784
LAB SAMPLE ID. NO. 870614C-34
QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60U	P	14.	Manganese		
3.	Arsenic	4.2U	R F	15.	Mercury	0.2U	CVAA
4.	Barium			16.	Nickel	20U	P
5.	Beryllium	1.0U	P	17.	Potassium		
6.	Cadmium	3.0U	P	18.	Selenium	3.2U	RF
7.	Calcium			19.	Silver	9.0U	R P
8.	Chromium	11	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2U	F
10.	Copper	10U	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	[2.5]	RQF	24.	Zinc	6.0U	E R P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager: Rebecca Burns
DC

ASB 002 1207

PO 58

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SW 22-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 870141-11

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	16u	P	14.	Manganese		
3.	Arsenic	4.2u	RF	15.	Mercury	0.2u	CVAA
4.	Barium			16.	Nickel	20u	P
5.	Beryllium	1.0u	P	17.	Potassium		
6.	Cadmium	3.0u	P	18.	Selenium	3.2u	RF
7.	Calcium			19.	Silver	13	R P
8.	Chromium	9.6u	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2u	F
10.	Copper	16u	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	2.1u	QRF	24.	Zinc	[16]	E R P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager: Rebecca Burris
DC

ASB 002 1208

Princeton Service Center
U.S. Route 1
Princeton, NJ 08540

princeton testing laboratory inc.

OCT 1 bo/

P.O. Box 3108
Princeton, NJ 08543-3108
(609) 452-9050

July 16, 1987

Project #01005-00 85001-2

TO: FRED C. HART ASSOCIATES, INC.
P.O. BOX 310
LIBERTY CORNER, NJ 07938-0310

ATTENTION: Mr. Steve Hambos

JOB NUMBER: #87H1421

ANALYSIS: ASBESTOS IN WATER

PROCEDURE:

An aliquot of sample water was filtered through a 47 mm. Metricel GN-6 Membrane (0.45 micron pore size). Due to high interference from suspended solids, the recommended sample volume may be adjusted. An aliquot of deionized water was used as a blank. The filters were dried in a dessicator and analyzed by NIOSH Method P and CAM 239.

INTERPRETATION:

The following are the Detection Limits for various aliquots filtered:

Volume Filtered	Detection Limit	Volume Filtered	Detection Limit
200 ml.	50,000 f/l	25 ml.	400,000 f/l
150 ml.	75,000 f/l	20 ml.	500,000 f/l
100 ml.	100,000 f/l	10 ml.	1,000,000 f/l
50 ml.	200,000 f/l		

RESULTS:

SAMPLE	Mls. Filtered	Fibers/liter
Field Blank 2-1	100	<100,000
Field blank 3-1	100	<100,000
SW 1-1	100	<100,000
SW 2-1	100	<100,000
SW 3-1	100	<100,000
SW 4-1	100	<100,000
SW 5-1	200	<50,000
SW 6-1	100	<100,000
SW 7-1	100	<100,000
SW 8-1	100	<100,000

cont'd.

ASB 002 1209

Princeton Service Center
U.S. Route 1
Princeton, NJ 08540

princeton testing laboratory inc.

P.O. Box 3108
Princeton, NJ 08543-3108
(609) 452-9050

TO: FRED C. HART
P.O. BOX 310
LIBERTY CORNER, NJ 07938-0310

ATTENTION: Mr. Steve Hambos

JOB NUMBER: #87H1421

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INTERPRETATION:

The following are the Detection Limits for various aliquots filtered:

Volume Filtered	Detection Limit	Volume Filtered	Detection Limit
200 ml.	50,000 f/l	25 ml.	400,000 f/l
150 ml.	75,000 f/l	20 ml.	500,000 f/l
100 ml.	100,000 f/l	10 ml.	1,000,000 f/l
50 ml.	200,000 f/l		

RESULTS:

SAMPLE	Mls. Filtered	Fibers/liter
SW 21-1	100	<100,000
SW 22-1	200	<50,000
SW 23-1	150	<75,000
SW 00-1	100	<100,000
901-1	200	<50,000
902-1	200	79,809
903-1	200	88,210
904-1	100	Unreadable
905-1	10	Unreadable

cont'd.

ASB 002 1210

SECOND SAMPLING ROUND
GROUND WATER DATA

ORGANIC ANALYSES

ASB 002 1211

QA/QC Review for Organics
on Radian Corp. Jobs 87-06-140
and 87-06-141

Sample Holding Times: All sample holding times were adhered to as per the CLP.

GC/MS Tuning and Performance: All tuning and performance criteria were met.

Blanks: All method blanks were within CLP limits. The VOA reagent blank analyzed on 6/30/87 contained acetone (3 ug/l) and benzene (1 ug/l). The VOA reagent blank analyzed on 7/1/87 contained benzene at 3 ug/l. The BNA reagent blank analyzed on 7/15/87 contained di-n-butyl phthalate at 12 ug/l. For associated samples, results below five times (ten times for common lab contaminants) should be marked as not detected.

Initial and Continuing Calibration: All calibration criteria were met.

Surrogate Recoveries: All volatile surrogate recoveries were within CLP limits. Samples 903-1, SW12-1, SW9-1 and 902-1 all had one surrogate outside CLP limits but above 10% recovery in the base/neutral fraction. The CLP allows for one surrogate outside QC limits but above 10% recovery without any flagging of data.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD): All recoveries for MS/MSD samples were within CLP limits.

Compound Identification: All identification criteria were met.

System Performance: There were not any indications of poor instrument performance.

Overall Assessment: This data is within CLP requirements.

ASB 002 1212

QA/QC Review for Organics
on Enviropact Inc. Data

Sample Holding Times: CLP holding times were exceeded for volatiles and the extraction of the base/neutrals for many of the samples (see attached lists).

GC/MS Tuning and Performance: All tuning and performance criteria were met.

Calibration: Initial and Continuing calibration criteria were exceeded for calibration check compounds in both volatile and base/neutral fractions and for system performance check compounds in the volatile fraction.

Blanks: All base/neutral blanks were within CLP limits. The following volatile blanks had one or more compounds outside CLP limits: A2604, A2616, A2803, A0702, A0604, and A0624.

Surrogate Recoveries: Both volatiles and base/neutrals had many samples with surrogates outside CLP limits (see attached lists).

Matrix Spike (MS)/Matrix Spike Duplicate (MSD): All MS/MSD data was within CLP limits.

Compound Identification: No identification data was supplied.

System Performance: Not enough information provided.

Overall Assessment: There are so many problems with this data that using the results would be very risky.

List of Samples with Volatile Fraction Outside CLP Requirements

Sample Holding Times (VOAs) -

J10161	WBR2-1	J10176	GS2-1
J10161	WBR1-1	J10176	GS1-1
J10161	NVR1-1	J10176	WBR3-1
J10161	NVR2-1	J10161	TB
J10161	NVR3-1	J10189	FB-1
J10190	GS3-1	J10189	GS4-1
J10190	GS10-1	J10189	GS11-1
J10190	GS5-1	J10189	TB
J10202	GS8-1	J10209	TB
J10202	TB	J10209	SW00-1
J10202	GS9-1	J10209	908-1
J10202	GS7-1	J10209	905-1
J10202	WBR1-1	J10210	906-1
J10202	GS6-1	J10211	907-1
J10211	907-1	J10210	901-1
J10211	MS	J10190	GS10-1
J10211	MSD	J10201	GS7-1
J10209	TB#5	J10202	GS9-1
J10209	SW00-1	J10210	GS6-1
J10209	905-1	J10210	906-1
J10209	908-1	J10210	901-1
J10202	TB#4	J10211	907-1
J10190	GS5-1	J10209	908-1
J10190	GS3-1	J10211	MS
		J10211	MSD

Surrogate Recoveries (VOAs) -

J10161	WBR2-1	J10190	GS3-1
J10161	WBR1-1	J10190	GS10-1
J10161	NVR1-1	J10190	GS5-1
J10161	NVR2-1	J10202	GS8-1
J10161	NVR3-1	J10202	TB
J10176	GS2-1	J10202	GS9-1
J10176	GS1-1	J10202	GS7-1
J10176	WBR3-1	J10202	WBR1-1
J10161	TB	J10202	GS6-1
J10209	TB#5	J10211	907-1
J10209	SW00-1	J10210	901-1
J10209	908-1	J10211	MS
J10209	905-1	J10211	MSD
J10209	906-1		

List of Samples with Base/Neutral Fraction Outside CLP Requirements

Sample Holding Times: Extraction time exceeded

J10161	NVR1-1	J10176	GS2-1
J10161	NVR2-1	J10176	GS1-1
J10161	WBR2-1	J10176	WBR3-1
J10161	NVR3-1	J10189	FB-1
J10190	GS10-1	J10189	GS11-1
J10190	GS3-1	J10189	GS4-1
J10190	GS5-1	J10189	GS6-1

Surrogate Recovery:

J10161	NVR1-1	J10176	GS2-1
J10161	NVR2-1	J10176	GS1-1
J10161	WBR2-1	J10176	WBR3-1
J10161	NVR3-1	J10189	FB-1
J10202	WBR1-1	J10189	GS11-1
J10202	GS9-1	J10209	SW00-1
J10202	GS7-1	J10209	908-1
J10202	GS8-1	J10210	906-1
J10209	905-1	J10210	901-1
		J10210	907-1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Envirotest Inc. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

(soil/water) Water Lab Sample ID: J10210 901-1

t/vol: _____ (g/ml) _____ Lab File ID: >AB 705

Level: (low/med) Low Date Received: 06/23/87

Moisture: not dec. _____ Date Analyzed: 07/27/87

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane		10u
74-83-9	Bromomethane		10u
75-01-4	Vinyl Chloride		10u
75-00-3	Chloroethane		10u
75-09-2	Methylene Chloride		5u
67-64-1	Acetone		10u
75-15-0	Carbon Disulfide		5u
75-35-4	1,1-Dichloroethene		5u
75-34-3	1,1-Dichloroethane		5u
540-59-0	1,2-Dichloroethene (total)		5u
67-66-3	Chloroform		5u
107-06-2	1,2-Dichloroethane		5u
78-93-3	2-Butanone		5u
71-55-6	1,1,1-Trichloroethane		5u
56-23-5	Carbon Tetrachloride		5u
108-05-4	Vinyl Acetate		10u
75-27-4	Bromodichloromethane		5u
78-87-5	1,2-Dichloropropane		5u
10061-01-5	cis-1,3-Dichloropropene		5u
79-01-6	Trichloroethene		5u
124-48-1	Dibromochloromethane		5u
79-00-5	1,1,2-Trichloroethane		5u
71-43-2	Benzene		5u
10061-02-6	trans-1,3-Dichloropropene		5u
75-25-2	Bromoform		5u
108-10-1	4-Methyl-2-Pentanone		10u
591-78-6	2-Hexanone		10u
127-18-4	Tetrachloroethene		5u
79-34-5	1,1,2,2-Tetrachloroethane		5u
108-88-3	Toluene		5u
108-90-7	Chlorobenzene		5u
100-41-4	Ethylbenzene		5u
100-42-5	Styrene		5u
133-02-7	Xylene (total)		5u

FORM I VOA

ASB 002 1216

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

902-1

Lab Name: [illegible] Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: [illegible]

Level: (low/med) LOW Date Received: 6-27-97

% Moisture: not dec. 100 Date Analyzed: 7-1-97

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	16	
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	2	JB
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.

105

902-1

: [illegible] Contract: [illegible]

Case No.: SAS No.: SDG No.:

(soil/water) WATER Lab Sample ID: 57[illegible]-02

wt/vol: 5.0 (g/mL) ML Lab File ID: 4[illegible]

(low/med) LOW Date Received: 6-29-87

ure: not dec. 100 Date Analyzed: 7-1-87

: (pack/cap) PACK Dilution Factor: 1.0

TICs found: 0

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

NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Not Required			

ASB 002 1218

FORM I VOA-TIC 1/87 Rev.

176

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

903-1

Name: R[illegible] Sac Contract: [illegible]

Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

[illegible] (soil/water) WATER Lab Sample ID: 5706047-20

[illegible]e wt/vol: 5.0 (g/mL) ML Lab File ID: 4CU06047V20

[illegible]l: (low/med) LOW Date Received: 6-27-87

[illegible]sture: not dec. 100 Date Analyzed: 7-1-87

[illegible]mn: (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	2	J
67-64-1	Acetone	13	
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)	4	J
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	3	J
124-48-1	Dibromochloromethane	5	u
79-00-5	1,1,2-Trichloroethane	5	u
71-43-2	Benzene	4	JB
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
		5	u

ASB 002 1219

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Radian-Sac Contract: Envirogact 903-1

Case No.: SAS No.: SDG No.:

(soil/water) WATER Lab Sample ID: 5706047-20

vol: 5.0 (g/mL) ML Lab File ID: 41U06047V20

(low/med) LOW Date Received: 6-23-87

: not dec. 100 Date Analyzed: 7-1-87

(pack/cap) PACK Dilution Factor: 1.0

TICs found: 0

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

MBER	COMPOUND NAME	RT	EST. CONC.	Q
	Not Required			

FORM I VOA-TIC 1/87 Rev.

ASB 002 1220

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

904-1

Lab Name: Rubin - Sac Contract: Envirocopact

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706047-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 4CUC6047V05

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-30-87

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	12	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)	1	J
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	2	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	JB
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
		5	U

ASB 002 1221

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

904-1

Lab Name: Ridge-Sac Contract: Equipment

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 57OU047-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 4CU06047V05

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-30-87

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
1.	Not Required			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
30.				

ASB 002 1222

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Field Blank #2-1

Name: Rubin - Sac Contract: Equicopact

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-07

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 4CU06049V07

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-29-87

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	2	J
67-64-1	Acetone	12	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	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	1	JB
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-[illegible]	2-Hexanone	10	[illegible]
127-[illegible]	Tetrachloroethene	5	[illegible]
79-[illegible]	1,1,2,2-Tetrachloroethane	5	[illegible]
108-[illegible]	Toluene	5	[illegible]
108-[illegible]	Chlorobenzene	5	[illegible]
100-[illegible]	Ethylbenzene	5	[illegible]
100-42-5	Styrene	5	[illegible]
1330-20-7	Xylene (total)	5	[illegible]
		5	[illegible]

ASB 002 1223

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Field Blank #2-1

Lab Name: Radian-Sac Contract: Equipment

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S706045-07

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: 4CU0L045V07

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 Date Analyzed: 6-29-87

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
1.	Not Required			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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23.				
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25.				
26.				
27.				
28.				
29.				
30.				

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ENVIROTECH INC Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: _____ (g/ml) _____ Lab File ID: [illegible]

Level: (low/med) LOW Date Received: [illegible]

% Moisture: not dec. _____ Date Analyzed: [illegible]

Dilution Factor: 1

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

ASB 002 1225

ASB 002 1226

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Envirotech Inc. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: [illegible] 906-1

Sample wt/vol: _____ (g/ml) ____ Lab File ID: >A3649

Level: (low/med) LOW Date Received: [illegible]

% Moisture: not dec. _____ Date Analyzed: [illegible]

Dilution Factor: 1

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

CAS NO.	COMPOUND		C
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	43	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		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

ASB 002 1227

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: [illegible] Inc. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: J10211 907-

Sample wt/vol: _____ (g/ml) ____ Lab File ID: [illegible]

: (low/med) Low Date Received: [illegible]

% Moisture: not dec. _____ Date Analyzed: [illegible]

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) [illegible]	Q
74-87-3	Chloromethane		[illegible]
74-83-9	Bromomethane		[illegible]
75-01-4	Vinyl Chloride		[illegible]
75-00-3	Chloroethane		[illegible]
75-09-2	Methylene Chloride		[illegible]
67-64-1	Acetone		[illegible]
75-15-0	Carbon Disulfide		[illegible]
75-35-4	1,1-Dichloroethene		[illegible]
75-34-3	1,1-Dichloroethane		[illegible]
540-59-0	1,2-Dichloroethene (total)		[illegible]
67-66-3	Chloroform		[illegible]
107-06-2	1,2-Dichloroethane		[illegible]
78-93-3	2-Butanone		[illegible]
71-55-6	1,1,1-Trichloroethane		[illegible]
56-23-5	Carbon Tetrachloride		[illegible]
108-05-4	Vinyl Acetate		[illegible]
75-27-4	Bromodichloromethane		[illegible]
78-87-5	1,2-Dichloropropane		[illegible]
10061-01-5	cis-1,3-Dichloropropene		[illegible]
79-01-6	Trichloroethene		[illegible]
124-48-1	Dibromochloromethane		[illegible]
79-00-5	1,1,2-Trichloroethane		[illegible]
71-43-2	Benzene		[illegible]
10061-02-6	trans-1,3-Dichloropropene		[illegible]
75-25-2	Bromoform		[illegible]
108-10-1	4-Methyl-2-Pentanone		[illegible]
591-78-6	2-Hexanone		[illegible]
127-18-4	Tetrachloroethene		[illegible]
79-34-5	1,1,2,2-Tetrachloroethane		[illegible]
108-88-3	Toluene		[illegible]
108-90-7	Chlorobenzene		[illegible]
100-41-4	Ethylbenzene		[illegible]
100-42-5	Styrene		[illegible]
133-02-7	Xylene (total)		[illegible]

ASB 002 1228

FORM I VOA 10/86

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Envirotech Inc. Contract: _____

Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: [illegible]

Sample wt/vol: _____ (g/ml) _____ Lab File ID: [illegible]

Level: (low/med) Low Date Received: [illegible]

Moisture: not dec. _____ Date Analyzed: [illegible]

Dilution Factor: 1

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

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

ASB 002 1229

FORM 1 VOA

117

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: [illegible] Inc. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water) Water Lab Sample ID: [illegible]

Sample wt/vol: _____ (g/mL) ____ Lab File ID: [illegible]

Level: (low/med) Low Date Received: [illegible]

% Moisture: not dec. _____ Date Analyzed: [illegible]

Dilution Factor: [illegible]

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

FORM I VOA

ASB 002 1230

107

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ENVIRAPART INC Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: _____ (g/ml) ____ Lab File ID: [illegible]

Level: (low/med) LOW Date Received: [illegible]

% Lipids: not det. _____ Date Analyzed: [illegible]

Dilution Factor: 1

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

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

ASB 002 1231

FORM I VOA

10/86

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

b Name: ENVIROPACT INC. Contract: _____

b Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

: (soil/water) WATER Lab Sample ID: J10210 901-1

ample wt/vol: _____ (g/mL) ____ Lab File ID: >M0239

vel: (low/med) Low Date Received: 06/23/87

Moisture: not dec. _____ dec. _____ Date Extracted: 06/28/87

xtraction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

C Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µg/l	Q
108-95-2	Phenol		NAF
111-44-4	bis(2-Chloroethyl)ether		10u
95-57-8	2-Chlorophenol		NAF
541-73-1	1,3-Dichlorobenzene		10u
106-46-7	1,4-Dichlorobenzene		10u
100-51-6	Benzyl alcohol		10u
95-50-1	1,2-Dichlorobenzene		10u
95-48-7	2-Methylphenol		NAF
108-60-1	bis(2-Chloroisopropyl)ether		10u
106-44-5	4-Methylphenol		NAF
621-64-7	N-Nitroso-di-n-propylamine		10u
67-72-1	Hexachloroethane		10u
98-95-3	Nitrobenzene		10u
78-59-1	Isophorone		10u
88-75-5	2-Nitrophenol		NAF
105-67-9	2,4-Dimethylphenol		NAF
65-85-0	Benzoic acid		50u
111-91-1	bis(2-Chloroethoxy)methane		10u
120-83-2	2,4-Dichlorophenol		NAF
120-82-1	1,2,4-Trichlorobenzene		10u
91-20-3	Naphthalene		10u
106-47-8	4-Chloroaniline		10u
87-68-3	Hexachlorobutadiene		10u
59-50-7	4-Chloro-3-methylphenol		NAF
91-57-6	2-Methylnaphthalene		10u
77-47-4	Hexachlorocyclopentadiene		10u
88-06-2	2,4,6-Trichlorophenol		NAF
95-95-4	2,4,5-Trichlorophenol		NAF
91-58-7	2-Chloronaphthalene		10u
88-74-4	2-Nitroaniline		50u
131-11-3	Dimethylphthalate		10u
208-96-8	Acenaphthylene		10u
606-20-2	2,6-Dinitrotoluene		10u

ASB 002 1232

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Name: ENVIRO PACT INC. Contract: _____

Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: J1021D 901-1

ple wt/vol: _____ (g/mL) ____ Lab File ID: >M0239

vel: (low/med) Low Date Received: 06/23/87

oisture: not dec. _____ dec. _____ Date Extracted: 06/28/87

raction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

C Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µg/l	Q
99-09-2	3-Nitroaniline		50u
83-32-9	Acenaphthene		10u
51-23-5	2,4-Dinitrophenol		NAF
100-02-7	4-Nitrophenol		NAF
132-64-9	Dibenzofuran		10u
121-14-2	2,4-Dinitrotoluene		10u
84-66-2	Diethylphthalate		10u
7005-72-3	4-Chlorophenyl-phenylether		10u
86-73-7	Fluorene		10u
100-01-6	4-Nitroaniline		50u
534-52-1	4,6-Dinitro-2-methylphenol		NAF
86-30-6	N-Nitrosodiphenylamine (1)		10u
101-55-3	4-Bromophenyl-phenylether		10u
118-74-1	Hexachlorobenzene		10u
87-86-5	Pentachlorophenol		NAF
85-01-8	Phenanthrene		10u
120-12-7	Anthracene		10u
84-74-2	Di-n-butylphthalate		10u
206-44-0	Fluoranthene		10u
129-00-0	Pyrene		10u
85-68-7	Butylbenzylphthalate		10u
91-94-1	3,3'-Dichlorobenzidine		20u
56-55-3	Benzo(a)anthracene		10u
218-01-9	Chrysene		10u
117-81-7	bis(2-Ethylhexyl)phthalate	21	B
117-84-0	Di-n-octylphthalate		10u
205-99-2	Benzo(b)fluoranthene		10u
207-08-9	Benzo(k)fluoranthene		10u
50-32-8	Benzo(a)pyrene		10u
193-39-5	Indeno(1,2,3-cd)pyrene		10u
53-70-3	Dibenz(a,h)anthracene		10u
191-24-2	Benzo(g,h,i)perylene		10u

(1) - Cannot be separated from diphenylamine

ASB 002 1233

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

902-1

Lab Name: Radina - Sac Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5704049-06

Sample wt/vol: 295 (g/mL) ML Lab File ID: 20U06049006

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

action: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.12

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	NA	NA
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	NA	NA
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	NA	NA
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	NA	NA
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	NA	NA
105-67-9	2,4-Dimethylphenol	NA	NA
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	NA	NA
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-[illegible]	Hexachlorobutadiene	10	[illegible]
59-[illegible]	4-Chloro-3-methylphenol	NA	[illegible]
91-[illegible]	2-Methylnaphthalene	10	[illegible]
77-[illegible]	Hexachlorocyclopentadiene	10	[illegible]
88-[illegible]	2,4,6-Trichlorophenol	NA	[illegible]
95-[illegible]	2,4,5-Trichlorophenol	NA	[illegible]
91-58-[illegible]	2-Chloronaphthalene	10	[illegible]
88-74-4	2-Nitroaniline	50	[illegible]
131-11-3	Dimethylphthalate	10	[illegible]
208-96-[illegible]	Acenaphthylene	10	[illegible]
[illegible]	2,6-Dinitrotoluene	10	[illegible]

ASB 002 1234

701

EPA SAMPLE NO.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

902-1

Lab Name: Radian - Sac Contract: Exempt

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: 5706[illegible]

Sample wt/vol: 995 (g/mL) ML Lab File ID: 2[illegible]

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.12

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	NA	NA
100-02-7	4-Nitrophenol	NA	NA
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	NA	NA
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	9	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
11[illegible]	bis(2-Ethylhexyl)phthalate	2	[illegible]
11[illegible]	Di-n-octylphthalate	10	U
20[illegible]	Benzo(b)fluoranthene	10	U
20[illegible]	Benzo(k)fluoranthene	10	U
50[illegible]	Benzo(a)pyrene	50	U
193-[illegible]	Indeno(1,2,3-cd)pyrene	10	U
[illegible]-70-3	Dibenz(a,h)anthracene	[illegible]	U
191-24-2	Benzo(g,h,i)perylene	[illegible]	U

(1) Cannot be separated from Diphenylamine

ASB 002 1235

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 702

902-1

Lab Name: Radian-Sac Contract: Envirodact

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-06

Sample wt/vol: 895 (g/mL) ML Lab File ID: 2CU06049C06

Level: (low/med) LOW Date Received: 6-27-87

Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.12

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	3.0	u
319-85-7	beta-BHC	5.0	u
319-86-8	delta-BHC	4.0	u
58-89-9	gamma-BHC (Lindane)	4.0	u
76-44-8	Heptachlor	1.9	u
309-00-2	Aldrin	1.9	u
1024-57-3	Heptachlor epoxide	2.2	u
959-98-8	Endosulfan I	6.0	u
60-57-1	Dieldrin	7.5	u
72-55-9	4,4'-DDE	5.6	u
72-20-8	Endrin	8.0	u
33213-65-9	Endosulfan II	10	u
72-54-8	4,4'-DDD	2.8	u
1031-07-8	Endosulfan sulfate	5.6	u
50-29-3	4,4'-DDT	4.7	u
72-43-5	Methoxychlor	N/A	u
53494-70-5	Endrin ketone	N/A	u
5103-71-9	alpha-Chlordane	10	u
5103-74-2	gamma-Chlordane	10	u
8001-35-2	Toxaphene	N/A	u
12674-11-2	Aroclor-1016	150	u
11104-28-2	Aroclor-1221	30	u
11141-16-5	Aroclor-1232	120	u
53469-21-9	Aroclor-1242	120	u
12672-29-6	Aroclor-1248	360	u
11097-69-[illegible]	Aroclor-1254	34	u
11096-82-[illegible]	Aroclor-1260	500	u

ASB 002 1236

FORM I PEST

703

EPA SAMPLE NO.

902-1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Radian-Sac Contract: Envirospect

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-06

Sample wt/vol: 895 (g/mL) ML Lab File ID: 2CU06049C06

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.12

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. —	Unknown	2.10	7	
2. —	Unknown	4.12	7	
3. 540-42-1	Propanoic acid, 2-methyl propyl ester	10.50	14	
4. —	Unknown	10.88	22	
5. 933-88-0	Benzyl chloride, 2-methyl	16.65	1	
6. 54932-78-4	Phenol, 4-(2,2,3,3-Tetramethylbutyl)	16.95	68	
7. 126-73-8	Phosphoric acid tributyl ester	17.40	1	
8. 140-66-9	Phenol, 4-(1,1,3,3-Tetramethylbutyl)	17.68	3	
9.				
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FORM I SV-TIC 1/87 Rev.

ASB 002 1237

720

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

903-1

Lab Name: [illegible] Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5306049-08

Sample wt/vol: 940 (g/mL) mL Lab File ID: 2CU010-49008

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.19

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	NA	NA
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	NA	NA
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	NA	NA
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	NA	NA
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	NA	NA
105-67-9	2,4-Dimethylphenol	NA	NA
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	NA	NA
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	NA	[illegible]
91-5[illegible]	2-Methylnaphthalene	10	[illegible]
77-47-[illegible]	Hexachlorocyclopentadiene	10	[illegible]
88-06-[illegible]	2,4,6-Trichlorophenol	NA	[illegible]
95-95-[illegible]	2,4,5-Trichlorophenol	NA	[illegible]
91-58-[illegible]	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

FORM I SV-1 1/87 Rev.

ASB 002 1238

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Radian - Sac Contract: Exempt 903-1

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5700044-08

Sample wt/vol: 940 (g/mL) ML Lab File ID: 2CU06049008

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.19

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	NA	NA
100-02-7	4-Nitrophenol	NA	NA
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	NA	NA
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	15	B
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-[illegible]	bis(2-Ethylhexyl)phthalate	6	J
117-[illegible]	Di-n-octylphthalate	10	U
205-[illegible]	Benzo(b)fluoranthene	10	U
207-[illegible]	Benzo(k)fluoranthene	10	U
50-3[illegible]	Benzo(a)pyrene	50	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

903-1

Lab Name: Radian-Soc Contract: Enviropact

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 870600-08

Sample wt/vol: 840 (g/mL) ml Lab File ID: 2CU06049C08

Level: (low/med) LOW Date Received: 6-27-87

Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.19

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	5.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	6.0	U
60-57-1	Dieldrin	2.5	U
72-55-9	4,4'-DDE	5.6	U
72-20-8	Endrin	9.0	U
33213-65-9	Endosulfan II	10	U
72-54-8	4,4'-DDD	2.8	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	4.7	U
72-43-5	Methoxychlor	N/A	U
53494-70-5	Endrin ketone	N/A	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	N/A	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	30	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	120	U
12672-[illegible]	Aroclor-1248	360	U
11097-[illegible]	Aroclor-1254	34	U
11096-[illegible]	Aroclor-1260	500	U

ASB 002 1240

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

903-1

Lab Name: Radian-Sac Contract: Equivpact

Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 3706049E08

Sample wt/vol: 940 (g/mL) mL Lab File ID: 2CU06049C05

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.19

Number TICs found: 4

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1113-00-9	Propane, 1-methoxy-2,2-dimethyl	10.53	2	J
2.	933-98-0	Benzoyl chloride, 2-methyl	16.62	1	J
3.	148-16-9	Phenol, 4-(1,1,3,3-tetramethylbutyl)	16.93	8	J
4.	—	Unknown	19.30	9	J
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ASB 002 1241

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

404-1

Lab Name: Radian - Sac Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-01

Sample wt/vol: 900 (g/mL) mL Lab File ID: [illegible]

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.11

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	NA	NA
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	NA	NA
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	NA	NA
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	NA	NA
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	NA	NA
105-67-9	2,4-Dimethylphenol	NA	NA
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	NA	NA
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	NA	NA
91-57-[illegible]	2-Methylnaphthalene	10	U
77-47-[illegible]	Hexachlorocyclopentadiene	10	U
88-06-[illegible]	2,4,6-Trichlorophenol	NA	NA
95-95-[illegible]	2,4,5-Trichlorophenol	NA	NA
91-58-[illegible]	2-Chloronaphthalene	10	U
88-74-[illegible]	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
			U

ASB 002 1242

737

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

[illegible]

Lab Name: Radian - Sac Contract: Exempt

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5206049-01

Sample wt/vol: 900 (g/mL) mL Lab File ID: [illegible]

[illegible]: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.11

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	NA	NA
100-02-7	4-Nitrophenol	NA	NA
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	NA	NA
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	17	B
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	50	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
			U

(1) - Cannot be separated from Diphenylamine

ASB 002 1243

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

904-1

Lab Name: Radian-Sac Contract: Enviropact

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706040-01

Sample wt/vol: 900 (g/mL) ML Lab File ID: 2CW06049C01

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.11

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	3.0	u
319-85-7	beta-BHC	5.0	u
319-86-8	delta-BHC	4.0	u
58-89-9	gamma-BHC (Lindane)	4.0	u
76-44-8	Heptachlor	1.9	u
309-00-2	Aldrin	1.9	u
1024-57-3	Heptachlor epoxide	2.2	u
959-98-8	Endosulfan I	6.0	u
60-57-1	Dieldrin	2.5	u
72-55-9	4,4'-DDE	5.6	u
72-20-8	Endrin	8.0	u
33213-65-9	Endosulfan II	10	u
72-54-8	4,4'-DDD	2.8	u
1031-07-8	Endosulfan sulfate	5.6	u
50-29-3	4,4'-DDT	4.7	u
72-43-5	Methoxychlor	N/A	u
53494-70-5	Endrin ketone	N/A	u
5103-71-9	alpha-Chlordane	10	u
5103-74-2	gamma-Chlordane	10	u
8001-35-2	Toxaphene	N/A	u
12674-11-2	Aroclor-1016	150	u
11104-28-2	Aroclor-1221	30	u
11141-16-5	Aroclor-1232	120	u
53469-21-9	Aroclor-1242	120	u
12672-29-6	Aroclor-1248	360	u
1109[illegible]	Aroclor-1254	34	u
1109[illegible]	Aroclor-1260	500	u

ASB 002 1244

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

904-1

Lab Name: Radium-Sac Contract: Envirocract

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-01

Sample wt/vol: 900 (g/mL) ML Lab File ID: 2CU06049C01

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-29-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-13-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.11

Number TICs found: _____

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 933-980	Benzylchloride, 2-methyl	2.02	1	J
2. 17851-53-5	1,2-benzenedicarbenylicacid, bis(2-met	16.57	3	J
3. -	Unknown	26.55	2	J
4.				
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ASB 002 1245

C75

EPA SAMPLE NO.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pedinc - Sac Contract: Contract

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5701049-09

Sample wt/vol: 940 (g/mL) ML Lab File ID: 2CBC0049C09

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-30-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-10-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	NA	NA
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	NA	NA
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	NA	NA
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	NA	NA
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	NA	NA
105-67-9	2,4-Dimethylphenol	NA	NA
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	NA	NA
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	NA	NA
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	NA	NA
95-95-4	2,4,5-Trichlorophenol	NA	NA
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

ASB 002 1246

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Radius - Sac Contract: Exempt Fill 8' ok 24

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5204040-09

Sample wt/vol: 240 (g/mL) M. Lab File ID: [illegible]

Level: (low/med) LOW Date Received: 6-27-97

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-30-97

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-10-97

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 119

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	NA	NA
100-02-7	4-Nitrophenol	NA	NA
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	NA	NA
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	6	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-[illegible]	bis(2-Ethylhexyl)phthalate	2	[illegible]
117-[illegible]	Di-n-octylphthalate	10	[illegible]
205-[illegible]	Benzo(b)fluoranthene	10	[illegible]
207-[illegible]	Benzo(k)fluoranthene	10	[illegible]
50-[illegible]	Benzo(a)pyrene	50	[illegible]
193-[illegible]	Indeno(1,2,3-cd)pyrene	10	U
53-70-[illegible]	Dibenz(a,h)anthracene	10	U
[illegible]	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

ASB 002 1247

CSU

EPA SAMPLE NO.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Field Blank 34

Lab Name: Radian-Sac Contract: Enviropact

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 5706049-09

Sample wt/vol: 840 (g/mL) ML Lab File ID: 2CB06049C09

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-30-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-10-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.19

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	3.0	U
319-85-7	beta-BHC	5.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	6.0	U
60-57-1	Dieldrin	7.5	U
72-55-9	4,4'-DDE	5.6	U
72-20-8	Endrin	8.0	U
33213-65-9	Endosulfan II	10	U
72-54-8	4,4'-DDD	2.8	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	4.7	U
72-43-5	Methoxychlor	N/A	U
53494-70-5	Endrin ketone	N/A	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	N/A	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	30	U
11141-16-5	Aroclor-1232	170	U
53469-21-9	Aroclor-1242	120	U
12672-29-6	Aroclor-1248	350	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	500	U

ASB 002 1248

PEST 1/87 Rev.

051

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Field Blank 2-1

Lab Name: Rodian-Sac Contract: Equipment

-de: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

-ix: (soil/water) WATER Lab Sample ID: 5206049-09

Sample wt/vol: 940 (g/mL) mL Lab File ID: 2LC06049009

Level: (low/med) LOW Date Received: 6-27-87

% Moisture: not dec. 100 dec. _____ Date Extracted: 6-30-87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 7-10-87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.19

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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ASB 002 1249

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ENVIROPACT INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: J10209 905-1

Sample wt/vol: _____ (g/mL) ____ Lab File ID: DM0241

Level: (low/med) Low Date Received: 06/22/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 06/27/87

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol		NAF
111-44-4	bis(2-Chloroethyl)ether		10u
95-57-8	2-Chlorophenol		NAF
541-73-1	1,3-Dichlorobenzene		10u
106-46-7	1,4-Dichlorobenzene		10u
100-51-6	Benzyl alcohol		10u
95-50-1	1,2-Dichlorobenzene		10u
95-48-7	2-Methylphenol		NAF
108-60-1	bis(2-Chloroisopropyl)ether		10u
106-44-5	4-Methylphenol		NAF
621-64-7	N-Nitroso-di-n-propylamine		10u
67-72-1	Hexachloroethane		10u
98-95-3	Nitrobenzene		10u
78-59-1	Isophorone		10u
88-75-5	2-Nitrophenol		NAF
105-67-9	2,4-Dimethylphenol		NAF
65-85-0	Benzoic acid		50u
111-91-1	bis(2-Chloroethoxy)methane		10u
120-83-2	2,4-Dichlorophenol		NAF
120-82-1	1,2,4-Trichlorobenzene		10u
91-20-3	Naphthalene		10u
106-47-8	4-Chloroaniline		10u
87-68-3	Hexachlorobutadiene		10u
59-50-7	4-Chloro-3-methylphenol		NAF
91-57-6	2-Methylnaphthalene		10u
77-47-4	Hexachlorocyclopentadiene		10u
88-06-2	2,4,6-Trichlorophenol		NAF
95-95-4	2,4,5-Trichlorophenol		NAF
91-58-7	2-Chloronaphthalene		10u
88-74-4	2-Nitroaniline		50u
131-11-3	Dimethylphthalate		10u
208-96-8	Acenaphthylene		10u
606-20-2	2,6-Dinitrotoluene		10u

ASB 002 1250

Lab Name: ENVIROPACT INC Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: J10209 905-1

Sample wt/vol: _____ (g/ml) ____ Lab File ID: >M0241

Level: (low/med) Low Date Received: 06/23/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 06/27/87

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/03/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
99-09-2	3-Nitroaniline		50u
83-32-9	Acenaphthene		10u
51-28-5	2,4-Dinitrophenol		NAF
100-02-7	4-Nitrophenol		NAF
132-64-9	Dibenzofuran		10u
121-14-2	2,4-Dinitrotoluene		10u
84-66-2	Diethylphthalate		10u
7005-72-3	4-Chlorophenyl-phenylether		10u
86-73-7	Fluorene		10u
100-01-6	4-Nitroaniline		50u
534-52-1	4,6-Dinitro-2-methylphenol		NAF
86-30-6	N-Nitrosodiphenylamine (1)		10u
101-55-3	4-Bromophenyl-phenylether		10u
118-74-1	Hexachlorobenzene		10u
87-86-5	Pentachlorophenol		NAF
85-01-8	Phenanthrene		10u
120-12-7	Anthracene		10u
84-74-2	Di-n-butylphthalate		10u
206-44-0	Fluoranthene		10u
129-00-0	Pyrene		10u
85-68-7	Butylbenzylphthalate		10u
91-94-1	3,3'-Dichlorobenzidine		20u
56-55-3	Benzo(a)anthracene		10u
218-01-9	Chrysene		10u
117-81-7	Bis(2-Ethylhexyl)phthalate	3u	B
117-84-0	Di-n-octylphthalate		10u
205-99-2	Benzo(b)fluoranthene		10u
207-08-9	Benzo(k)fluoranthene		10u
50-32-8	Benzo(a)pyrene		10u
193-39-5	Indeno(1,2,3-cd)pyrene		10u
53-70-3	Dibenz(a,h)anthracene		10u
191-24-2	Benzo(g,h,i)perylene		10u

(1) - Cannot be separated from diphenylamine

ASB 002 1251

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

b Name: ENVIROPACT INC. Contract: _____

de: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

(soil/water) WATER Lab Sample ID: JT10210 906-1

wt/vol: _____ (g/mL) ____ Lab File ID: >M0238

vel: (low/med) Low Date Received: 06/23/87

Moisture: not dec. _____ dec. _____ Date Extracted: 06/28/87

raction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

PC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) µg/l

CAS NO.	COMPOUND		Q
108-95-2	Phenol		NAF
111-44-4	bis(2-Chloroethyl)ether		10u
95-57-8	2-Chlorophenol		NAF
541-73-1	1,3-Dichlorobenzene		10u
106-46-7	1,4-Dichlorobenzene		10u
100-51-6	Benzyl alcohol		10u
95-50-1	1,2-Dichlorobenzene		10u
95-48-7	2-Methylphenol		NAF
108-60-1	bis(2-Chloroisopropyl)ether		10u
106-44-5	4-Methylphenol		NAF
621-64-7	N-Nitroso-di-n-propylamine		10u
67-72-1	Hexachloroethane		10u
98-95-3	Nitrobenzene		10u
78-59-1	Isophorone		10u
88-75-5	2-Nitrophenol		NAF
105-67-9	2,4-Dimethylphenol		NAF
65-85-0	Benzoic acid		50u
111-91-1	bis(2-Chloroethoxy)methane		10u
120-83-2	2,4-Dichlorophenol		NAF
120-82-1	1,2,4-Trichlorobenzene		10u
91-20-3	Naphthalene		10u
106-47-8	4-Chloroaniline		10u
87-68-3	Hexachlorobutadiene		10u
59-50-7	4-Chloro-3-methylphenol		NAF
91-57-6	2-Methylnaphthalene		10u
77-47-4	Hexachlorocyclopentadiene		10u
88-06-2	2,4,6-Trichlorophenol		NAF
95-95-4	2,4,5-Trichlorophenol		NAF
91-58-7	2-Chloronaphthalene		10u
88-74-4	2-Nitroaniline		50u
131-11-3	Dimethylphthalate		10u
208-96-8	Acenaphthylene		10u
606-20-2	2,6-Dinitrotoluene		10u

ASB 002 1252

Lab Name: ENVIROPACT INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: J10210 906-1

Sample wt/vol: _____ (g/mL) ____ Lab File ID: >M0238

Level: (low/med) Low Date Received: 06/23/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 06/28/87

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
99-09-2	3-Nitroaniline		50u
83-32-9	Acenaphthene		10u
51-28-5	2,4-Dinitrophenol		NAF
100-02-7	4-Nitrophenol		NAF
132-64-9	Dibenzofuran		10u
121-14-2	2,4-Dinitrotoluene		10u
84-66-2	Diethylphthalate		10u
7005-72-3	4-Chlorophenyl-phenylether		10u
86-73-7	Fluorene		10u
100-01-6	4-Nitroaniline		50u
534-52-1	4,6-Dinitro-2-methylphenol		NAF
86-30-6	N-Nitrosodiphenylamine (1)		10u
101-55-3	4-Bromophenyl-phenylether		10u
118-74-1	Hexachlorobenzene		10u
87-86-5	Pentachlorophenol		NAF
85-01-8	Phenanthrene		10u
120-12-7	Anthracene		10u
84-74-2	Di-n-butylphthalate		10u
206-44-0	Fluoranthene		10u
129-00-0	Pyrene		10u
85-68-7	Butylbenzylphthalate		10u
91-94-1	3,3'-Dichlorobenzidine		20u
56-55-3	Benzo(a)anthracene		10u
218-01-9	Chrysene		10u
117-81-7	bis(2-Ethylhexyl)phthalate	31	B
117-84-0	Di-n-octylphthalate		10u
205-99-2	Benzo(b)fluoranthene		10u
207-08-9	Benzo(k)fluoranthene		10u
50-32-8	Benzo(a)pyrene		10u
193-39-5	Indeno(1,2,3-cd)pyrene		10u
53-70-3	Dibenz(a,h)anthracene		10u
191-24-2	Benzo(g,h,i)perylene		10u

(1) - Cannot be separated from diphenylamine

ASB 002 1253

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

b Name: ENVIROPACT INC. Contract: _____

r Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

(soil/water) WATER Lab Sample ID: J10210 907-1

/vol: _____(g/mL)____ Lab File ID: >M0240

vel: (low/med) Low Date Received: 06/23/87

Moisture: not dec._____ dec._____ Date Extracted: 06/28/87

traction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

Cleanup: (Y/N) N pH:____ Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) µg/l

CAS NO.	COMPOUND		Q
108-95-2	Phenol		NAF.
111-44-4	bis(2-Chloroethyl)ether		10u
95-57-8	2-Chlorophenol		NAF
541-73-1	1,3-Dichlorobenzene		10u
106-46-7	1,4-Dichlorobenzene		10u
100-51-6	Benzyl alcohol		10u
95-50-1	1,2-Dichlorobenzene		10u
95-48-7	2-Methylphenol		NAF
108-60-1	bis(2-Chloroisopropyl)ether		10u
106-44-5	4-Methylphenol		NAF
621-64-7	N-Nitroso-di-n-propylamine		10u
67-72-1	Hexachloroethane		10u
98-95-3	Nitrobenzene		10u
78-59-1	Isophorone		10u
88-75-5	2-Nitrophenol		NAF
105-67-9	2,4-Dimethylphenol		NAF
65-85-0	Benzoic acid		50u
111-91-1	bis(2-Chloroethoxy)methane		10u
120-83-2	2,4-Dichlorophenol		NAF
120-82-1	1,2,4-Trichlorobenzene		10u
91-20-3	Naphthalene		10u
106-47-8	4-Chloroaniline		10u
87-68-3	Hexachlorobutadiene		10u
59-50-7	4-Chloro-3-methylphenol		NAF
91-57-6	2-Methylnaphthalene		10u
77-47-4	Hexachlorocyclopentadiene		10u
88-06-2	2,4,6-Trichlorophenol		NAF
95-95-4	2,4,5-Trichlorophenol		NAF
91-58-7	2-Chloronaphthalene		10u
88-74-4	2-Nitroaniline		50u
131-11-3	Dimethylphthalate		10u
208-96-8	Acenaphthylene		10u
606-20-2	2,6-Dinitrotoluene		10u

ASB 002 1254

Lab Name: ENVIROPACT INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: J10210 907-1

Sample wt/vol: _____ (g/mL) ____ Lab File ID: >M0240

Level: (low/med) LOW Date Received: 06/23/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 06/28/87

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/15/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
99-09-2	3-Nitroaniline		50u
83-32-9	Acenaphthene		10u
51-28-5	2,4-Dinitrophenol		NAF
100-02-7	4-Nitrophenol		NAF
132-64-9	Dibenzofuran		10u
121-14-2	2,4-Dinitrotoluene		10u
84-66-2	Diethylphthalate		10u
7005-72-3	4-Chlorophenyl-phenylether		10u
86-73-7	Fluorene		10u
100-01-6	4-Nitroaniline		50u
534-52-1	4,6-Dinitro-2-methylphenol		NAF
86-30-6	N-Nitrosodiphenylamine (1)		10u
101-55-3	4-Bromophenyl-phenylether		10u
118-74-1	Hexachlorobenzene		10u
87-86-5	Pentachlorophenol		NAF
85-01-8	Phenanthrene		10u
120-12-7	Anthracene		10u
84-74-2	Di-n-butylphthalate		10u
206-44-0	Fluoranthene		10u
129-00-0	Pyrene		10u
85-68-7	Butylbenzylphthalate		10u
91-94-1	3,3'-Dichlorobenzidine		20u
56-55-3	Benzo(a)anthracene		10u
218-01-9	Chrysene		10u
117-81-7	bis(2-Ethylhexyl)phthalate	2.	8
117-84-0	Di-n-octylphthalate		10u
205-99-2	Benzo(b)fluoranthene		10u
207-08-9	Benzo(k)fluoranthene		10u
50-32-8	Benzo(a)pyrene		10u
193-39-5	Indeno(1,2,3-cd)pyrene		10u
53-70-3	Dibenz(a,h)anthracene		10u
191-24-2	Benzo(g,h,i)perylene		10u

(1) - Cannot be separated from diphenylamine

ASB 002 1255

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ENVIROPACT INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: J10209 908-1

Sample wt/vol: _____ (g/mL) ____ Lab File ID: >m0237

Level: (low/med) Low Date Received: 06/23/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 06/25/87

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) µg/l	Q
108-95-2	Phenol		NAF
111-44-4	bis(2-Chloroethyl)ether		10u
95-57-8	2-Chlorophenol		NAF
541-73-1	1,3-Dichlorobenzene		10u
106-46-7	1,4-Dichlorobenzene		10u
100-51-6	Benzyl alcohol		10u
95-50-1	1,2-Dichlorobenzene		10u
95-48-7	2-Methylphenol		NAF
108-60-1	bis(2-Chloroisopropyl)ether		10u
106-44-5	4-Methylphenol		NAF
621-64-7	N-Nitroso-di-n-propylamine		10u
67-72-1	Hexachloroethane		10u
98-95-3	Nitrobenzene		10u
78-59-1	Isophorone		10u
88-75-5	2-Nitrophenol		NAF
105-67-9	2,4-Dimethylphenol		NAF
65-85-0	Benzoic acid		50u
111-91-1	bis(2-Chloroethoxy)methane		10u
120-83-2	2,4-Dichlorophenol		NAF
120-82-1	1,2,4-Trichlorobenzene		10u
91-20-3	Naphthalene		10u
106-47-8	4-Chloroaniline		10u
87-68-3	Hexachlorobutadiene		10u
59-50-7	4-Chloro-3-methylphenol		NAF
91-57-6	2-Methylnaphthalene		10u
77-47-4	Hexachlorocyclopentadiene		10u
88-06-2	2,4,6-Trichlorophenol		NAF
95-95-4	2,4,5-Trichlorophenol		NAF
91-58-7	2-Chloronaphthalene		10u
88-74-4	2-Nitroaniline		50u
131-11-3	Dimethylphthalate		10u
208-96-8	Acenaphthylene		10u
606-20-2	2,6-Dinitrotoluene		10u

ASB 002 1256

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ame: ENVIRO PACT INC Contract: _____

ode: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

x: (soil/water) WATER Lab Sample ID: J10209 908-1

wt/vol: _____ (g/mL) ____ Lab File ID: >M0237

: (low/med) Low Date Received: 06/23/87

sture: not dec. _____ dec. _____ Date Extracted: 06/28/87

ction: (SepF/Cont/Sonc) SepF Date Analyzed: 07/05/87

leanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
99-09-2	3-Nitroaniline			50u
83-32-9	Acenaphthene			10u
51-28-5	2,4-Dinitrophenol			NAF
100-02-7	4-Nitrophenol			NAF
132-64-9	Dibenzofuran			10u
121-14-2	2,4-Dinitrotoluene			10u
84-66-2	Diethylphthalate			10u
7005-72-3	4-Chlorophenyl-phenylether			10u
86-73-7	Fluorene			10u
100-01-6	4-Nitroaniline			50u
534-52-1	4,6-Dinitro-2-methylphenol			NAF
86-30-6	N-Nitrosodiphenylamine (1)			10u
101-55-3	4-Bromophenyl-phenylether			10u
118-74-1	Hexachlorobenzene			10u
87-86-5	Pentachlorophenol			NAF
85-01-8	Phenanthrene			10u
120-12-7	Anthracene			10u
84-74-2	Di-n-butylphthalate			10u
206-44-0	Fluoranthene			10u
129-00-0	Pyrene			10u
85-68-7	Butylbenzylphthalate			10u
91-94-1	3,3'-Dichlorobenzidine			20u
56-55-3	Benzo(a)anthracene			10u
218-01-9	Chrysene			10u
117-81-7	bis(2-Ethylhexyl)phthalate		JP	B
117-84-0	Di-n-octylphthalate			10u
205-99-2	Benzo(b)fluoranthene			10u
207-08-9	Benzo(k)fluoranthene			10u
50-32-8	Benzo(a)pyrene			10u
193-39-5	Indeno(1,2,3-cd)pyrene			10u
53-70-3	Dibenz(a,h)anthracene			10u
191-24-2	Benzo(g,h,i)perylene			10u

1) - Cannot be separated from diphenylamine

SECOND SAMPLING ROUND
GROUND WATER DATA

INORGANIC ANALYSES

ASB 002 1258

QA/QC Review for Inorganics
on Radian Corp. Jobs 87-06-140
and 87-06-141

Sample Holding Times: All sample holding times were adhered to as per the CLP.

Initial and Continuing Calibration Vertification: All calibration criteria were met.

Blanks: All method blanks were within CLP limits.

ICP Interference Check: ICP interference check results were within CLP limits.

Spike Sample Recoveries: Arsenic, Lead, Selenium, Zinc and Silver had spike recoveries outside QC limits and were marked appropriately.

Duplicates: All duplicates were within QC limits.

Instrument Detection Limits (IDL): All IDL's were at or below CRDL's as required.

Standard Additions: MSA's were run for several samples and all criteria were met.

ICP Serial Dilution: ICP serial dilution for zinc fell outside CLP requirements. Samples were marked appropriately.

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 901-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 754

LAB SAMPLE ID. NO. 8706-141-13

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60U	P	14.	Manganese		
3.	Arsenic	4.2U	RF	15.	Mercury	0.2U	CVAA
4.	Barium			16.	Nickel	[29]	P
5.	Beryllium	1.0U	P	17.	Potassium		
6.	Cadmium	3.0U	P	18.	Selenium	3.2UQ	RF
7.	Calcium			19.	Silver	9.0U	RP
8.	Chromium	15	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2U	F
10.	Copper	10U	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	[2.8]	GRF	24.	Zinc	[37]	ERP

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager: Rebecca J. Burris
DC

ASB 002 1260

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 902-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-14

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60U	P	14.	Manganese		
3.	Arsenic	[6.2]	RF	15.	Mercury	3.4	CVAA
4.	Barium			16.	Nickel	20U	P
5.	Beryllium	1.6U	P	17.	Potassium		
6.	Cadmium	3.0U	P	18.	Selenium	3.2UG	RF
7.	Calcium			19.	Silver	15	RP
8.	Chromium	11	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2U	F
10.	Copper	10U	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	2.1U	GRF	24.	Zinc	[9.0]	ERP

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager: Rebecca Burris
DC

ASB 002 1261

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 902-1F

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-15

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum				13.	Magnesium			
2.	Antimony	60U		P	14.	Manganese			
3.	Arsenic	[4.4]	R	F	15.	Mercury	4.8		CVAA
4.	Barium				16.	Nickel	20U		P
5.	Beryllium	1.0U		P	17.	Potassium			
6.	Cadmium	3.0U		P	18.	Selenium	3.2U	R	F
7.	Calcium				19.	Silver	10	R	P
8.	Chromium	[9.0]		P	20.	Sodium			
9.	Cobalt				21.	Thallium	21U		F
10.	Copper	10U		P	22.	Tin			
11.	Iron				23.	Vanadium			
12.	Lead	2.1U	R	F	24.	Zinc	[13]	R	E P

Cyanide ____

Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Rebecca Burris
DC

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 903-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-16

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60u	P	14.	Manganese		
3.	Arsenic	4.2u	RF	15.	Mercury	0.2u	CVAA
4.	Barium			16.	Nickel	20u	P
5.	Beryllium	1.0u	P	17.	Potassium		
6.	Cadmium	3.0u	P	18.	Selenium	3.2ug	RF
7.	Calcium			19.	Silver	[9.0]	R P
8.	Chromium	20	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2u	F
10.	Copper	[11]	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	37	SRF	24.	Zinc	[12]	E R P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Rebecca Burris
DC

ASB 002 1263

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Form I

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Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 903-1F

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-17

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum				13.	Magnesium			
2.	Antimony	60U		P	14.	Manganese			
3.	Arsenic	2.1U	R	F	15.	Mercury	0.2		CVAA
4.	Barium				16.	Nickel	20U		P
5.	Beryllium	1.0U		P	17.	Potassium			
6.	Cadmium	2.0U		P	18.	Selenium	3.2UG	R	F
7.	Calcium				19.	Silver	12	R	P
8.	Chromium	19		P	20.	Sodium			
9.	Cobalt				21.	Thallium	2.1U		F
10.	Copper	117		P	22.	Tin			
11.	Iron				23.	Vanadium			
12.	Lead	2.1UG	R	F	24.	Zinc	117	R E	P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager: Rebecca Burns
DC

ASB 002 1264

08.65

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 904-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-18 QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60 u	P	14.	Manganese		
3.	Arsenic	4.2 u	QRF	15.	Mercury	0.2 u	CVAA
4.	Barium			16.	Nickel	20 u	P
5.	Beryllium	1.0 u	P	17.	Potassium		
6.	Cadmium	3.0 u	P	18.	Selenium	32 u	RF
7.	Calcium			19.	Silver	11	RP
8.	Chromium	30	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2 u	P
10.	Copper	[16]	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	[3.6]	QRF	24.	Zinc	[14]	ERF

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Rebecca Burris
DC

ASB 002 1265

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Form I

U.S. EPA Contract Laboratory Program
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703/557-2490 FTS: 8-557-2490

EPA Sample No. 904-1F

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-19

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60u	P	14.	Manganese		
3.	Arsenic	2.1u	R F	15.	Mercury	0.2u	CNAA
4.	Barium			16.	Nickel	[21]	P
5.	Beryllium	1.0u	P	17.	Potassium		
6.	Cadmium	3.0u	P	18.	Selenium	3.2uq	R F
7.	Calcium			19.	Silver	15	R P
8.	Chromium	23	P	20.	Sodium		
9.	Cobalt			21.	Thallium	2.1u	F
10.	Copper	[10]	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	20	R F	24.	Zinc	6.0u	R E P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Rebecca Burris
DC

ASB 002 1266

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 905-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-20

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60u	P	14.	Manganese		
3.	Arsenic	4.2u	RF	15.	Mercury	1.3	CVAA
4.	Barium			16.	Nickel	328	P
5.	Beryllium	1.0u	P	17.	Potassium		
6.	Cadmium	14	P	18.	Selenium	32ug	RF
7.	Calcium			19.	Silver	15	RP
8.	Chromium	405	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2u	F
10.	Copper	144	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	100	SRF	24.	Zinc	429	ERP

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Rebecca Burrie
DC

ASB 002 1267

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 905-1F

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-21 QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum				13.	Magnesium			
2.	Antimony	1.6U		P	14.	Manganese			
3.	Arsenic	2.1U	R	F	15.	Mercury	0.2U		CVAA
4.	Barium				16.	Nickel	142		P
5.	Beryllium	1.0U		P	17.	Potassium			
6.	Cadmium	3.0U		P	18.	Selenium	3.2 ug	R	F
7.	Calcium				19.	Silver	13	R	P
8.	Chromium	19		P	20.	Sodium			
9.	Cobalt				21.	Thallium	2.1U		F
10.	Copper	10U		P	22.	Tin			
11.	Iron				23.	Vanadium			
12.	Lead	2.1 ug	R	F	24.	Zinc	33	R	E P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Rebecca Burris
DC

ASB 002 1268

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 906-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-22

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	6.6u	P	14.	Manganese		
3.	Arsenic	4.2u	RF	15.	Mercury	0.3	CVAA
4.	Barium			16.	Nickel	269	P
5.	Beryllium	1.6u	P	17.	Potassium		
6.	Cadmium	15	P	18.	Selenium	32ug	RF
7.	Calcium			19.	Silver	22	RP
8.	Chromium	541	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2u	F
10.	Copper	28,800	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	756	RF	24.	Zinc	2340	ERP
	Cyanide				Percent Solids (%)	N/A	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: note: Cr, Cu, Zn values are from 1:4 dilution of sample

Lab Manager Rebecca Burkis
DC

ASB 002 1269

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 906-1F

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-23

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60U	P	14.	Manganese		
3.	Arsenic	21U R	F	15.	Mercury	0.2U	CVAA
4.	Barium			16.	Nickel	20U	P
5.	Beryllium	1.0U	P	17.	Potassium		
6.	Cadmium	3.0U	P	18.	Selenium	32 ug R	F
7.	Calcium			19.	Silver	12 R	P
8.	Chromium	11	P	20.	Sodium		
9.	Cobalt			21.	Thallium	2.1U	F
10.	Copper	89	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	2.1 ug R	F	24.	Zinc	[12] R	E F

Cyanide ____

Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager: Rebecca Burns
DC

ASB 002 1270

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 907-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-24

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60u	P	14.	Manganese		
3.	Arsenic	4.2u	RF	15.	Mercury	0.2u	CVAA
4.	Barium			16.	Nickel	29	P
5.	Beryllium	1.0u	P	17.	Potassium		
6.	Cadmium	[4.0]	P	18.	Selenium	32ug	R F
7.	Calcium			19.	Silver	12	R P
8.	Chromium	71	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2u	F
10.	Copper	26	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	[3.5]	G RF	24.	Zinc	91	E R P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Rebecca Burris
DC

ASB 002 1271

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 907-1F

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-25

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60u	P	14.	Manganese		
3.	Arsenic	2.1u R	F	15.	Mercury	0.2u	CVAA
4.	Barium			16.	Nickel	20u	P
5.	Beryllium	1.0u	P	17.	Potassium		
6.	Cadmium	3.0u	P	18.	Selenium	5.2uq R	F
7.	Calcium			19.	Silver	2u R	P
8.	Chromium	20	P	20.	Sodium		
9.	Cobalt			21.	Thallium	2.1u	F
10.	Copper	10u	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	2.1u R	F	24.	Zinc	[illegible] R	P

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager: Rebecca Burkie
DC

ASB 002 1272

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. 908-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140, 141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-36

QC REPORT NO. 140, 141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60 u	P	14.	Manganese		
3.	Arsenic	4.2 u	RF	15.	Mercury	1.3	CVAA
4.	Barium			16.	Nickel	352	P
5.	Beryllium	1.0 u	P	17.	Potassium		
6.	Cadmium	16	P	18.	Selenium	32 uQ	RF
7.	Calcium			19.	Silver	[9.0]	RP
8.	Chromium	415	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.2 u	F
10.	Copper	152	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	101	SRF	24.	Zinc	450	ERP

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Rebecca Burris
DC

ASB 002 1273

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. field blank 2-1

Date 7-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706-141-28

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	6U	P	14.	Manganese		
3.	Arsenic	4.2U	RF	15.	Mercury	0.2U	CVAA
4.	Barium			16.	Nickel	20U	P
5.	Beryllium	1.0U	P	17.	Potassium		
6.	Cadmium	3.0U	P	18.	Selenium	3.2U	RF
7.	Calcium			19.	Silver	9.0U	RP
8.	Chromium	16	P	20.	Sodium		
9.	Cobalt			21.	Thallium	3.3U	F
10.	Copper	10U	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	7.1U	GRF	24.	Zinc	73.7	ERP

Cyanide ____ Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Rebecca Burns
DC

ASB 002 1274

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. field blank 2-1F

Date 9-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Radian

CASE NO. 140-141

SOW NO. 784

LAB SAMPLE ID. NO. 8706141-39

QC REPORT NO. 140-141

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum			13.	Magnesium		
2.	Antimony	60U	P	14.	Manganese		
3.	Arsenic	2.1U R	F	15.	Mercury	0.2U	CVAA
4.	Barium			16.	Nickel	20U	P
5.	Beryllium	1.0U	P	17.	Potassium		
6.	Cadmium	3.0U	P	18.	Selenium	3.0UG R	F
7.	Calcium			19.	Silver	10 R	P
8.	Chromium	9.0U	P	20.	Sodium		
9.	Cobalt			21.	Thallium	2.1U	F
10.	Copper	[15]	P	22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	2	SRF	24.	Zinc	35 R	E P

Cyanide ____

Percent Solids (%) N/A

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Rebecca Burris
DC

ASB 002 1275

Princeton Service Center
U.S. Route 1
Princeton, NJ 08540

princeton testing laboratory inc.

P.O. Box 3108
Princeton, NJ 08543-3108
(609) 452-9050

TO: FRED C. HART
P.O. BOX 310
LIBERTY CORNER, NJ 07938-0310

ATTENTION: Mr. Steve Hambos

JOB NUMBER: #87H1421

ANALYSIS: ASBESTOS IN WATER

PROCEDURE:

An aliquot of sample water was filtered through a 47 mm. Metricel GN-6 Membrane (0.45 micron pore size). Due to high interference from suspended solids, the recommended sample volume may be adjusted. An aliquot of deionized water was used as a blank. The filters were dried in a dessicator and analyzed by NIOSH Method P and CAM 239.

INTERPRETATION:

The following are the Detection Limits for various aliquots filtered:

Volume Filtered	Detection Limit	Volume Filtered	Detection Limit
200 ml.	50,000 f/l	25 ml.	400,000 f/l
150 ml.	75,000 f/l	20 ml.	500,000 f/l
100 ml.	100,000 f/l	10 ml.	1,000,000 f/l
50 ml.	200,000 f/l		

RESULTS:

SAMPLE	Mls. Filtered	Fibers/liter
SW 21-1	100	<100,000
SW 22-1	200	<50,000
SW 23-1	150	<75,000
SW 00-1	100	<100,000
901-1	200	<50,000
902-1	200	79,809
903-1	200	88,210
904-1	100	Unreadable
905-1	10	Unreadable

cont'd.

ASB 002 1276

Princeton Service Center
U.S. Route 1
Princeton, NJ 08540

princeton testing laboratory inc.

P.O. Box 3108
Princeton, NJ 08543-3108
(609) 452-9050

July 16, 1987

TO: FRED C. HART ASSOCIATES, INC.
P.O. BOX 310
LIBERTY CORNER, NJ 07938-0310

ATTENTION: Mr. Steve Hambos

JOB NUMBER: #87H1421

ANALYSIS: ASBESTOS IN WATER

PROCEDURE:

An aliquot of sample water was filtered through a 47 mm. Metricel GN-6 Membrane (0.45 micron pore size). Due to high interference from suspended solids, the recommended sample volume may be adjusted. An aliquot of deionized water was used as a blank. The filters were dried in a dessicator and analyzed by NIOSH Method P and CAM 239.

INTERPRETATION:

The following are the Detection Limits for various aliquots filtered:

Volume Filtered	Detection Limit	Volume Filtered	Detection Limit
200 ml.	50,000 f/l	25 ml.	400,000 f/l
150 ml.	75,000 f/l	20 ml.	500,000 f/l
100 ml.	100,000 f/l	10 ml.	1,000,000 f/l
50 ml.	200,000 f/l		

RESULTS:

SAMPLE	Mls. Filtered	Fibers/liter
906-1	10	Unreadable
907-1	50	Unreadable
908-1	10	Unreadable

Unreadable filters indicate heavy particulate loading with the filtering of a 10 ml. aliquot.

Patricia D'Apolito
Assistant Manager
Industrial Hygiene

/rk

Member: American Council of Independent Laboratories, Inc.

THIRD SAMPLING ROUND
SURFACE WATER DATA
ORGANIC ANALYSES

ASB 002 1278

SW-1, SW-2, SW-3

QA/QC Review of Radian Organics Data for
Report #'s S7-10-112 and S7-10-113

Sample Holding Times: CLP holding times were adhered to for volatile and base/neutral-acid extractable analyses.

GC/MS Tuning and Performance: BFB and DFTPP tuning criteria were met.

Initial and Continuing Calibration: All tuning criteria were met.

Surrogates: TRP BLK 6 had volatile surrogage recovery outside QC limits but above 10%. The surrogate was only 1% outside QC limits, no action required.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD): No volatile data for this report set. BNA MS/MSD data had 0 of 11 RPD's and 0 of 22 were outside QC limits.

Blanks: All method blanks were within CLP limits. Volatile blank had an acceptable level of acetone 18 ug/L, present. The BNA blank had traces of Di-n-Butyl Phthalate, 5 ug/L and Bis(2-Ethylhexyl)phthalate, 1 ug/L.

Compound Identification: Compound identification criteria were met.

System Performance: Only one base/neutral internal standard area was outside QC range. Overall system performance did not indicate any problems.

SW-22

QA/QC Review on Radian Organics Data
for Report #'s S7-10-133 and S7-10-134

Sample Holding Times: Volatile sample holding times were adhered to. Base/neutral-acid extractable holding times exceed CLP requirements but were within requirements set in 40CFR136.

GC/MS Tuning and Performance: All DFTPP tuning criteria were met. BFB tuning criteria on instrument F5 on 10-30-87 @ 0650 were not met, samples SW13-2, SW15-2, and FB3-2 data is unseable because of this.

Initial and Continuing Calibration: Calibration criteria were within QC limits.

Blanks: All method blanks were within CLP limits. Volatile method blank S71013309B had traces of Acetone 12 ug/L, Benezene 2ug/L, 4-Methyl-2-Pentanone 3 ug/L, 2-Hexanone 7 ug/L, and 1,1,2,2,-Tetrachloroethane Volatile method blank S71012404A had traces of Methylene Chloride 2 ug/L. BNA method blank had traces of Di-n-ButylPhthalate 9 ug/l and Bis(2-Ethylhexyl)Phthalate.

Surrogates: BNA surrogates recoveries were within QC limits. FB3-2 had one volatile surrogate outside QC limits but above 10% recovery. Data for this sample should be considered an estimate.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD): BNA had 2 of 11 RPD's and 0 of 22 percent recoveries were outside QC limits. There was no MS/MSD data for volatiles.

Compound Identification: Compound identification criteria were met.

System Performance: Two internal standard areas were outside QC limits. There were no other indications of poor system performance.

SW-00

QA/QC Review of Organics
on Sample SW00-2

Sample Holding Times: All holding times were adhered to.

GC/MS Tuning and Performance: All tuning criteria were met.

Calibration: All calibration criteria were met.

Blanks: Volatiles - Within CLP limits, however trace amounts of acetone (3.0 ug/l) and benzene (1.9 ug/l) were found.

BNA's - No data reported.

Surrogate Recovery: All samples are within QC limits.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD): All samples are within QC limits.

Compound Identification: All identification criteria were met.

RADIAN
CORPORATION

CASE NARRATIVE

Laboratory: RADIAN Report Number(s): S7-10-184

Case Number: HART-7

This data package compiles sample and standard analyses for the following water sample which was received by Radian on 10-29-87:

Laboratory I.D.	Sample I.D.
S710184-01	SW00-2

Clarifications regarding these analyses are as follows:

1. (Volatile Analyses): The matrix spike and matrix spike duplicate analyses in this case is also the QC for Case Number Hart-6 which was sent on 12-18-87.

2. There were no reextractions or reanalyses performed in this case.

Laird H. Gale
Technical Director
Radian Laboratory Services, Sacramento

12/22/87
Date of Signature

ASB 002 1282

RADIAN CORPORATION

CASE NARRATIVE

Laboratory: Radian
Case Number: HART-4

Report Number(s): S7-10-112
S7-10-113

This data package compiles sample and standard analyses for the following water samples received by Radian on 10/21/87:

Laboratory I.D.	Sample I.D.
S710112-01	MW 904-2
S710112-02	MSD-1-2
S710112-03	SW-1-2
S710112-04	SW-2-2
S710112-05	SW-3-2
S710112-06	SW-4-2
S710112-07	SW-5-2
S710112-08	SW-6-2
S710112-09	TRIP BLANK #6
S710112-10	TRIP BLANK #11

Clarifications regarding these analyses are as follows:

1. Sample MW904-2 (Volatile Analysis): Trichlorofluoromethane is reported as a Tentatively Identified Compound on Form IE of the data package. However, this compound is in the standard mixture and thus is not quantitated as a TIC. Because it is not an EPA-CLP target compound, it is not included on Form IA. Also, the program that generates the forms automatically qualifies the TIC compounds with a "J" flag which indicates that it is an estimated value only. In this case, the "J" reporting qualifier does not apply to this compound.

2. Trip Blank #6 (Volatile Analysis): The percent recovery of surrogate D4-1,2-dichloroethane is below the QC limit for this compound. Normally, this sample would have been reanalyzed. However, because it was only 1% below the QC limit and there were no analytes found in this sample, the analyst did not feel that it was necessary to perform a reanalysis.

3. The VOA matrix spike and matrix spike duplicate analyses for this set of samples are batched with the next set of samples in Case Number HART-5. A set of MS/MSD samples were performed every twenty samples.

Laird H. Gale
Technical Director

12/14/87
Date of Signature

ASB 002 1283

RADIAN
CORPORATION

CASE NARRATIVE

Laboratory: RADIAN
Case Number: HART-6

Report Number(s): S7-10-133
S7-10-134

This data package compiles sample and standard analyses for the following water samples received by Radian on 10-23-87:

Laboratory I.D.	Sample I.D.
S710133-01	SW16-2
S710133-02	SW19-2
S710133-03	SW20-2
S710133-04	SW21-2
S710133-05	SW22-2
S710133-06	SW23-2
S710133-07	SW12-2
S710133-08	SW13-2
S710134-01	SW15-2
S710134-02	FB3-2
S710134-04	TRIP BLANK A
S710134-05	TRIP BLANK B
S710134-06	TRIP BLANK C

Clarifications regarding these analyses are as follows:

1. (Volatile Analyses): The samples which were sent for the matrix spike and matrix spike duplicate analyses (2-2MS and 2-2MSD) were inadvertently analyzed as regular samples. The matrix spike mixture was not added to these samples before they were analyzed. Thus, the MS and MSD analyses for the next set of samples which were received on 10-29-87 will also apply to this case. The required frequency of MS and MSD analyses is still met.

2. There were no reextractions or reanalyses performed in this case.

Laird H. Gale
Technical Director
Radian Laboratory Services, Sacramento

12/15/87
Date of Signature

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW00-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-7 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71018401C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1018401C

Level: (low/med) LOW Date Received: 10/29/87

% Moisture: not dec. ____ Date Analyzed: 10/31/87

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

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	3	J
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	~~2~~	~~BJ~~ ND
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	10	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	Total Xylenes	5	U

ASB 002 1285

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW00-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-7 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71018401C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1018401C

Level: (low/med) LOW Date Received: 10/29/87

% Moisture: not dec. ____ Date Analyzed: 10/31/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1286

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW00-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-7 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71018401A

Sample wt/vol: 890 (g/mL) ML Lab File ID: 1018401A

Level: (low/med) LOW Date Received: 10/29/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/04/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/25/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.997

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U
100-02-7	4-Nitrophenol	56	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-Methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~2~~	~~53~~
117-84-0	Di-n-Octyl Phthalate	11	U
205-99-2	Benzo(b)Fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)Anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

(1) - Cannot be separated from Diphenylamine

ASB 002 1287

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW00-2

Lab Name: RADIAN - SAC Contract: _____

ab Code: RADIAN Case No.: HART-7 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71018401A

ample wt/vol: 890 (g/mL) ML Lab File ID: 1018401A

evel: (low/med) LOW Date Received: 10/29/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/04/87

xtraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/25/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.997

umber TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75-65-0	2-PROPANOL,2-METHYL-	3.10	7.4	~~BJ~~ ND
2. 36687-98-6	2-BUTANONE,3-METHOXY-3-METHY	3.62	29	~~BJ~~ ND
3. 55499-02-0	3-DECENE,2,2-DIMETHYL-,(E)-	4.58	13	J
4.	UNKNOWN	5.32	6.3	J
5. 617-78-7	PENTANE,3-ETHYL-	5.53	31	J
6. 4923-78-8	CYCLOHEXANE,1-ETHYL-2-METHYL	5.75	4.7	~~BJ~~ ND
7. 4923-78-8	CYCLOHEXANE,1-ETHYL-2-METHYL	5.93	27	~~BJ~~ ND
8. 24519-04-8	CYCLOPROPANE,TETRAMETHYLPROP	7.18	2.7	~~BJ~~ ND
9. 54764-57-7	CYCLOPROPANE,1,1,2-TRIMETHYL	7.32	9.4	~~BJ~~ ND
10. 112-05-0	NONANOICACID	11.24	2.1	J
11. 563-16-6	HEXANE,3,3-DIMETHYL-	15.65	1.5	J
12. 1472-09-9	CYCLOPROPANE,OCTYL-	19.19	6.2	J
13. 143-28-2	9-OCTADECEN-1-OL,(Z)-	20.82	230	~~BJ~~ ND

ASB 002 1288

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-7 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013003A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1013003A

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

% Moisture: not dec. ____ Date Analyzed: 10/31/87

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

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	3	J
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	2	J
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	10	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	Total Xylenes	5	U

ASB 002 1289

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-7 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013003A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1013003A

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

% Moisture: not dec. ____ Date Analyzed: 10/31/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1290

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW00-2MS

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-7 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71018404A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1018404A

Level: (low/med) LOW Date Received: 10/29/87

% Moisture: not dec. ____ Date Analyzed: 10/31/87

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

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	4	J
67-64-1	Acetone	2	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	10	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	Total Xylenes	5	U

ASB 002 1291

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW00-2MSD

ame: RADIAN - SAC Contract: _____

de: RADIAN Case No.: HART-7 SAS No.: _____ SDG No.: _____

x: (soil/water) WATER Lab Sample ID: S71018404B

wt/vol: 5.0 (g/mL) ML Lab File ID: 1018404B

(low/med) LOW Date Received: 10/29/87

sture: not dec. _____ Date Analyzed: 10/31/87

(pack/cap) PACK Dilution Factor: 1.00

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	7	
67-64-1	Acetone	3	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	10	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	Total Xylenes	5	U

ASB 002 1292

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW00-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-7 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71018401A

Sample wt/vol: 890 (g/mL) ML Lab File ID: 1018401A

Level: (low/med) LOW Date Received: 10/29/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 11/04/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/25/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.997

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)Ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	56	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-Methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	56	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

ASB 002 1293

RADIAN CORPORATION

CASE NARRATIVE

Laboratory: Radian
Case Number: HART-3

Report Number(s): S7-10-093, S7-10-102, S7-10-103

This data package compiles sample and standard analyses for the following water samples received by Radian on 10/19/87 and 10/20/87:

Laboratory I.D.	Sample I.D.
S710093-01	GS6-2
S710093-02	GS7-2
S710093-03	GS8-2
S710093-04	GS9-2
S710093-05	FB1-2
S710093-06	TB#3
S710102-01	901-2
S710102-02	902-2
S710102-03	903-2
S710102-04	905-2
S710102-09	FB2-2
S710102-10	906-2
S710102-11	908-2
S710103-01	907-2
S710103-02	TB#4
S710103-03	TB#5

Clarifications regarding these analyses are as follows:

1. Samples 901-2, 905-2, 907-2, and 908-2 had low acid surrogates recoveries. These samples are being reextracted with the exception of Sample 908-2 of which there was not enough sample left to perform a reextraction.

2. Sample 903-2 (VOA) was reanalyzed due to a low surrogate recovery. The reanalysis showed the same results, indicating a matrix effect. Sample 907-2, GS6-2, and GS9-2 also had recoveries which were outside of QC limits. However, these samples were inadvertently not rerun. Had these samples had anything found in them, they would have been flagged as semiquantitative.

Laird H. Gale

Laird H. Gale
Technical Director
Radian Corporation, Sacramento

ASB 002 1294

RADIAN CORPORATION

CASE NARRATIVE

Laboratory: Radian
Case Number: HART-4

Report Number(s): S7-10-112
S7-10-113

This data package compiles sample and standard analyses for the following water samples received by Radian on 10/21/87:

Laboratory I.D.	Sample I.D.
S710112-01	MW 904-2
S710112-02	MSD-1-2
S710112-03	SW-1-2
S710112-04	SW-2-2
S710112-05	SW-3-2
S710112-06	SW-4-2
S710112-07	SW-5-2
S710112-08	SW-6-2
S710112-09	TRIP BLANK #6
S710112-10	TRIP BLANK #11

Clarifications regarding these analyses are as follows:

1. Sample MW904-2 (Volatile Analysis): Trichlorofluoromethane is reported as a Tentatively Identified Compound on Form IE of the data package. However, this compound is in the standard mixture and thus is not quantitated as a TIC. Because it is not an EPA-CLP target compound, it is not included on Form IA. Also, the program that generates the forms automatically qualifies the TIC compounds with a "J" flag which indicates that it is an estimated value only. In this case, the "J" reporting qualifier does not apply to this compound.

2. Trip Blank #6 (Volatile Analysis): The percent recovery of surrogate D4-1,2-dichloroethane is below the QC limit for this compound. Normally, this sample would have been reanalyzed. However, because it was only 1% below the QC limit and there were no analytes found in this sample, the analyst did not feel that it was necessary to perform a reanalysis.

3. The VOA matrix spike and matrix spike duplicate analyses for this set of samples are batched with the next set of samples in Case Number HART-5. A set of MS/MSD samples were performed every twenty samples.

Laird H. Gale
Technical Director

12/14/87
Date of Signature

ASB 002 1295

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-1-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011203C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011203C

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

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

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	10	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	Total Xylenes	5	U

ASB 002 1296

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-1-2

ab Name: RADIAN - SAC Contract: _____

b Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

atrix: (soil/water) WATER Lab Sample ID: S71011203C

mple wt/vol: 5.0 (g/mL) ML Lab File ID: 1011203C

vel: (low/med) LOW Date Received: 10/21/87

Moisture: not dec. ____ Date Analyzed: 10/27/87

lumn (pack/cap) PACK Dilution Factor: 1.00

nber TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1297

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW1-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011203A

Sample wt/vol: 970 (g/mL) ML Lab File ID: 1011203A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	52	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	52	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	52	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

ASB 002 1298

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.
SW1-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011203A

Sample wt/vol: 970 (g/mL) ML Lab File ID: 1011203A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	52	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	52	U
100-02-7	4-Nitrophenol	52	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-Methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	52	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	8	~~B~~ ND
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	~~B~~ ND
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

ASB 002 1299

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW1-2

Name: RADIAN - SAC Contract: _____

ode: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

x: (soil/water) WATER Lab Sample ID: S71011203A

e wt/vol: 970 (g/mL) ML Lab File ID: 1011203A

(low/med) LOW Date Received: 10/21/87

isture: not dec. ____ dec. ____ Date Extracted: 10/23/87

tion: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	5.87	11	J
822-67-3	2-CYCLOHEXEN-1-OL	6.47	3.2	J
930-68-7	2-CYCLOHEXEN-1-ONE	7.40	6.2	~~BJ~~ NJ
5090-41-5	9-OCTADECENAL	22.47	2.8	~~BJ~~ NJ
143-28-2	9-OCTADECEN-1-OL,(Z)-	23.12	120	~~BJ~~ NJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-2-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011204C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011204C

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

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

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	10	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	Total Xylenes	5	U

ASB 002 1301

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-2-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011204C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011204C

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1302

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW2-2

ab Name: RADIAN - SAC Contract: _____

b Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: S71011204A

ample wt/vol: 950 (g/mL) ML Lab File ID: 1011204A

vel: (low/med) LOW Date Received: 10/21/87

Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

traction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

PC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)Ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	53	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-Methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	53	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW2-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011204A

Sample wt/vol: 950 (g/mL) ML Lab File ID: 1011204A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	53	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	53	U
100-02-7	4-Nitrophenol	53	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	53	U
534-52-1	4,6-Dinitro-2-Methylphenol	53	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	53	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	7	~~B~~ ND
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	~~B~~ ND
117-84-0	Di-n-Octyl Phthalate	11	U
205-99-2	Benzo(b)Fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)Anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

(1) - Cannot be separated from Diphenylamine

ASB 002 1304

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW2-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011204A

Sample wt/vol: 950 (g/mL) ML Lab File ID: 1011204A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.998

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 286-20-4	7-OXABICYCLO[4.1.0]HEPTANE	5.88	7.5	J
2.	UNKNOWN	5.97	3.6	J
3. 10111-08-7	1H-IMIDAZOLE-2-CARBOXALDEHYD	7.42	6.0	J
4. 143-28-2	9-OCTADECEN-1-OL,(Z)-	23.15	130	BJ AD

ASB 002 1305

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-3-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011205C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011205C

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

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

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	10	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	Total Xylenes	5	U

ASB 002 1306

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-3-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011205C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011205C

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1307

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-2

Name: RADIAN - SAC Contract: _____

Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011205A

Sample wt/vol: 970 (g/mL) ML Lab File ID: 1011205A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	52	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	52	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	52	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW3-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011205A

Sample wt/vol: 970 (g/mL) ML Lab File ID: 1011205A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	52	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	52	U
100-02-7	4-Nitrophenol	52	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-Methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	52	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	6	BJ ND
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	BJ ND
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW3-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011205A

Sample wt/vol: 970 (g/mL) ML Lab File ID: 1011205A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.83	13	J
2. 143-28-2	9-OCTADECEN-1-OL,(Z)-	23.14	140	~~BJ~~ NJ
3. 930-68-71	2-CYCLOHEXEN-1-ONE	7.38	11	J

ASB 002 1310

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSD-1-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011202C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011202C

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

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

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	2	J
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	10	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	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: MSD-1-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011202C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011202C

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

Column (pack/cap) PACK Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSD-1-2

ab Name: RADIAN - SAC Contract: _____

b Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

atrix: (soil/water) WATER Lab Sample ID: S71011202A

ample wt/vol: 1000 (g/mL) ML Lab File ID: 1011202A

vel: (low/med) LOW Date Received: 10/21/87

Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

traction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

PC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	1	J
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSD-1-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011202A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1011202A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	15	~~B~~ ND
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	~~BJ~~ ND
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MSD-1-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011202A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1011202A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.78	12	J
2. 930-68-7	2-CYCLOHEXEN-1-ONE	7.33	3.0	~~BJ~~ ND
3. 143-28-2	9-OCTADECEN-1-OL, (Z)-	23.12	88	~~BJ~~ ND

RADIAN CORPORATION

CASE NARRATIVE

Laboratory: RADIAN
Case Number: HART-6

Report Number(s): S7-10-133
S7-10-134

This data package compiles sample and standard analyses for the following water samples received by Radian on 10-23-87:

Laboratory I.D.	Sample I.D.
S710133-01	SW16-2
S710133-02	SW19-2
S710133-03	SW20-2
S710133-04	SW21-2
S710133-05	SW22-2
S710133-06	SW23-2
S710133-07	SW12-2
S710133-08	SW13-2
S710134-01	SW15-2
S710134-02	FB3-2
S710134-04	TRIP BLANK A
S710134-05	TRIP BLANK B
S710134-06	TRIP BLANK C

Clarifications regarding these analyses are as follows:

1. (Volatile Analyses): The samples which were sent for the matrix spike and matrix spike duplicate analyses (2-2MS and 2-2MSD) were inadvertently analyzed as regular samples. The matrix spike mixture was not added to these samples before they were analyzed. Thus, the MS and MSD analyses for the next set of samples which were received on 10-29-87 will also apply to this case. The required frequency of MS and MSD analyses is still met.

2. There were no reextractions or reanalyses performed in this case.

Laird H. Gale
Technical Director
Radian Laboratory Services, Sacramento

12/5/87
Date of Signature

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW22-2

Name: RADIAN - SAC Contract: _____

Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013305C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1013305C

Level: (low/med) LOW Date Received: 10/23/87

% Moisture: not dec. ____ Date Analyzed: 10/30/87

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

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	10	
67-64-1	Acetone	3	BJND
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	2	BJND
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	10	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	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW22-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013305C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1013305C

Level: (low/med) LOW Date Received: 10/23/87

% Moisture: not dec. ____ Date Analyzed: 10/30/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW22-2

ab Name: RADIAN - SAC Contract: _____

.b Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Trix: (soil/water) WATER Lab Sample ID: S71013305A

ample wt/vol: 1000 (g/mL) ML Lab File ID: 1013305A

vel: (low/med) LOW Date Received: 10/23/87

Moisture: not dec. ____ dec. ____ Date Extracted: 10/30/87

xraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/23/87

PC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW22-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013305A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1013305A

Level: (low/med) LOW Date Received: 10/23/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/30/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/23/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	4	B
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1	BJ
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

ASB 002 1320

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW22-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013305A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1013305A

Level: (low/med) LOW Date Received: 10/23/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/30/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/23/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 36687-98-6	2-BUTANONE,3-METHOXY-3-METHY	4.93	14	~~BJ~~ NJ
2.	UNKNOWN HYDROCARBON	6.03	7.0	J
3.	UNKNOWN	6.83	6.0	J
4.	UNKNOWN	7.07	12	J
5.	UNKNOWN	7.48	11	J
6. 54764-57-7	CYCLOPROPANE,1,1,2-TRIMETHYL	8.94	13	~~BJ~~ NJ
7. 143-28-2	9-OCTADECEN-1-OL,(Z)-	23.04	89	~~BJ~~ NJ

ASB 002 1321

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 100

TRP_BLK_B

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013405A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1013405A

Level: (low/med) LOW Date Received: 10/23/87

% Moisture: not dec. ____ Date Analyzed: 10/30/87

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

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	1	J
67-64-1	Acetone	7	~~BJ~~ ND
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	1	~~BJ~~ ND
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	10	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	Total Xylenes	5	U

ASB 002 1322

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRP_BLK_B

Name: RADIAN - SAC Contract: _____

Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

x: (soil/water) WATER Lab Sample ID: S71013405A

le wt/vol: 5.0 (g/mL) ML Lab File ID: 1013405A

: (low/med) LOW Date Received: 10/23/87

isture: not dec. ____ Date Analyzed: 10/30/87

n (pack/cap) PACK Dilution Factor: 1.00

er TICs found: 1

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

AS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1779-19-7	1,3,6-TRIOXOCANE	12.60	8.5	BJ

ASB 002 1323

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRP_BLK_6

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011209A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011209A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

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

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	10	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	Total Xylenes	5	U

ASB 002 1324

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRP_BLK_6

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011209A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011209A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1325

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 6

FB3-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013402C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1013402R

Level: (low/med) LOW Date Received: 10/23/87

% Moisture: not dec. ____ Date Analyzed: 10/30/87

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

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	1	~~B~~ NC.
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	10	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	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB3-2

ab Name: RADIAN - SAC Contract: _____

b Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: S71013402C

ample wt/vol: 5.0 (g/mL) ML Lab File ID: 1013402R

vel: (low/med) LOW Date Received: 10/23/87

Moisture: not dec. ____ Date Analyzed: 10/30/87

lumn (pack/cap) PACK Dilution Factor: 1.00

umber TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB3-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013402A

Sample wt/vol: 780 (g/mL) ML Lab File ID: 1013402A

Level: (low/med) LOW Date Received: 10/23/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/30/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/20/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	13	U
111-44-4	bis(2-Chloroethyl)Ether	13	U
95-57-8	2-Chlorophenol	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
100-51-6	Benzyl Alcohol	13	U
95-50-1	1,2-Dichlorobenzene	13	U
95-48-7	2-Methylphenol	13	U
108-60-1	bis(2-Chloroisopropyl)Ether	13	U
106-44-5	4-Methylphenol	13	U
621-64-7	N-Nitroso-Di-n-Propylamine	13	U
67-72-1	Hexachloroethane	13	U
98-95-3	Nitrobenzene	13	U
78-59-1	Isophorone	13	U
88-75-5	2-Nitrophenol	13	U
105-67-9	2,4-Dimethylphenol	13	U
65-85-0	Benzoic Acid	64	U
111-91-1	bis(2-Chloroethoxy)Methane	13	U
120-83-2	2,4-Dichlorophenol	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
91-20-3	Naphthalene	13	U
106-47-8	4-Chloroaniline	13	U
87-68-3	Hexachlorobutadiene	13	U
59-50-7	4-Chloro-3-Methylphenol	13	U
91-57-6	2-Methylnaphthalene	13	U
77-47-4	Hexachlorocyclopentadiene	13	U
88-06-2	2,4,6-Trichlorophenol	13	U
95-95-4	2,4,5-Trichlorophenol	64	U
91-58-7	2-Chloronaphthalene	13	U
88-74-4	2-Nitroaniline	64	U
131-11-3	Dimethyl Phthalate	13	U
208-96-8	Acenaphthylene	13	U
606-20-2	2,6-Dinitrotoluene	13	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB3-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013402A

Sample wt/vol: 780 (g/mL) ML Lab File ID: 1013402A

Level: (low/med) LOW Date Received: 10/23/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/30/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/20/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	64	U
83-32-9	Acenaphthene	13	U
51-28-5	2,4-Dinitrophenol	64	U
100-02-7	4-Nitrophenol	64	U
132-64-9	Dibenzofuran	13	U
121-14-2	2,4-Dinitrotoluene	13	U
84-66-2	Diethylphthalate	13	U
7005-72-3	4-Chlorophenyl-phenylether	13	U
86-73-7	Fluorene	13	U
100-01-6	4-Nitroaniline	64	U
534-52-1	4,6-Dinitro-2-Methylphenol	64	U
86-30-6	N-Nitrosodiphenylamine (1)	13	U
101-55-3	4-Bromophenyl-phenylether	13	U
118-74-1	Hexachlorobenzene	13	U
87-86-5	Pentachlorophenol	64	U
85-01-8	Phenanthrene	13	U
120-12-7	Anthracene	13	U
84-74-2	Di-n-Butylphthalate	7	BJ ND
206-44-0	Fluoranthene	13	U
129-00-0	Pyrene	13	U
85-68-7	Butylbenzylphthalate	13	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)Anthracene	13	U
218-01-9	Chrysene	13	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	BJ ND
117-84-0	Di-n-Octyl Phthalate	13	U
205-99-2	Benzo(b)Fluoranthene	13	U
207-08-9	Benzo(k)Fluoranthene	13	U
50-32-8	Benzo(a)Pyrene	13	U
193-39-5	Indeno(1,2,3-cd)Pyrene	13	U
53-70-3	Dibenz(a,h)Anthracene	13	U
191-24-2	Benzo(g,h,i)Perylene	13	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB3-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-6 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71013402A

Sample wt/vol: 780 (g/mL) ML Lab File ID: 1013402A

Level: (low/med) LOW Date Received: 10/23/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/30/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/20/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.998

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-35-5	ACETAMIDE	4.38	7.3	J
2. 36687-98-6	2-BUTANONE,3-METHOXY-3-METHY	5.02	23	~~BJ~~ ND
3.	UNKNOWN	5.13	5.5	J
4. 584-94-1	HEXANE,2,3-DIMETHYL-	7.18	13	J
5. 6294-40-2	CYCLOHEXANE,1-BROMO-4-METHYL	7.60	12	J
6. 54764-57-7	CYCLOPROPANE,1,1,2-TRIMETHYL	9.04	15	~~BJ~~ ND
7. 143-28-2	9-OCTADECEN-1-OL,(Z)-	23.17	180	~~BJ~~ ND

THIRD SAMPLING ROUND
SURFACE WATER DATA
INORGANIC ANALYSES

ASB 002 1331

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the National Gypsum project. The sample was received on October 29, 1987 and was analyzed for priority pollutant metals as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	

2. The raw ICP data is presented in this report for Sample #F2530-05, F2530-05 dup, and F2530-05 spike. This QC is associated with the last six samples of this report. The blanks and CCV's associated with the QC samples are not presented in this report, but are available.

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703/557-2490 FTS: 8-557-2490

Date 1-26-88

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Century Laboratories Case No. F2514

SOW No. 7/5 Q.C. Report No. FCH-14

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
SW-002	F2514-01		

Comments:

ICP interelement and background corrections applied? Yes ✓ No ___.

If yes, corrections applied before ✓ or after ___ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form 1:

Value - If the result is a value greater than or equal to the instrument detecion limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

s - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

000002

IFB Amend. One

ASB 002 1333

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the National Gypsum project. The samples were received on October 21 1987 and were analyzed for priority pollutant metals as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	

2. The following samples were reported as less than the CRDL as per SOW #785 furnace flow chart (Section E).

SAMPLE #	ELEMENT	CRDL (ppb)
904-2	Pb	5.0
904-2F	Pb	5.0
907-2	Pb	5.0
908-2F	Pb	5.0
MS/MSD 1-2	Pb	5.0
SW 2-2	Pb	5.0
SW 6-2	Pb	5.0
902-2F	As	10

3. The raw ICP data is presented in this report for Sample #F2530-05, F2530-05 dup, and F2530-05 spike. This QC is associated with the last six samples of this report. The blanks and CCV's associated with the QC samples are not presented in this report, but are available.

QA/QC Review for Inorganics

on Century Laboratories Report #F2514

Holding Times:

All holding times were adhered to as per the CLP.

Initial and Continuing Calibration Verification:

All recoveries were within CLP limits.

Blanks:

Initial and Continuing Calibration and Preparation Blanks were within CLP limits.

ICP Interference Check Sample:

All initial and final recoveries were within CLP limits.

Spike Sample Recoveries:

Silver (50%) had a recovery outside QC limits (75-125%). Positive silver results should be considered estimates.

Duplicates:

All duplicate results were within CLP limits.

Laboratory Control Samples:

All recoveries were within CLP limits:

Standard Addition Results:

None were run.

ICP Serial Dilution:

Serial dilution results were within CLP limits.

Instrument Detection Limits:

All IDLs were at or below the contract-required detection limits as specified in the CLP.

QA/QC Review for Inorganics

on Century Laboratories Report #F2447

Holding Times:

All holding times were adhered to as per the CLP.

Initial and Continuing Calibration Verification:

All recoveries were within CLP limits.

Blanks:

Initial and Continuing Calibration and Preparation Blanks were within CLP limits.

ICP Interference Check Sample:

All initial and final recoveries were within CLP limits.

Spike Sample Recoveries:

Lead (160%), Silver (50%), and Thallium (68%) had recoveries outside QC limits (75-125%) for spike sample #F2447-20. Silver (50%) had a recovery outside QC limits for spike sample #F2530-5. All positive results affected by these samples should be considered estimates.

Duplicates:

All duplicate results were within CLP limits.

Laboratory Control Samples:

All recoveries were within CLP limits:

Standard Addition Results:

All analyses quantitated by the method of standard additions had correlation coefficients greater than 0.995 as required by CLP.

ICP Serial Dilution:

Serial dilution results were within CLP limits.

Instrument Detection Limits:

All IDLs were at or below the contract-required detection limits as specified in the CLP.

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Date 1-25-88

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name CENTRAL LABORATORIES Case No. F2447

SOW No. 787 Q.C. Report No. FCW-13

Sample Numbers

~~EPA~~ CLIENT No.	Lab ID No.	~~EPA~~ CLIENT No.	Lab ID No.
901-2	F2447-01	905-2	F2447-09
901-2F	F2447-02	905-2F	F2447-10
902-2	F2447-03	906-2	F2447-11
902-2F	F2447-04	906-2F	F2447-12
903-2	F2447-05	907-2	F2447-13
903-2F	F2447-06	907-2F	F2447-14
904-2	F2447-07	908-2	F2447-15
904-2F	F2447-08	908-2F	F2447-16

Comments:

ICP interelement and background corrections applied? Yes ✓ No ____.

If yes, corrections applied before ✓ or after ____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detecion limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

ASB 002 1337

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Date 1-25-44

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name CENTURY LABORATORIES Case No. F2447

SOW No. 785 Q.C. Report No. ECH-13

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MS/MSD 1-2	F2447-17	FB 2-2F	F2447-25
SW1-2	F2447-18	MS/MSD 1-2F	F2447-26
SW2-2	F2447-19		
SW3-2	F2447-20		
SW4-2	F2447-21		
SW5-2	F2447-22		
SW6-2	F2447-23		
FB 2-2	F2447-24		

Comments:

ICP interelement and background corrections applied? Yes ✓ No ___.

If yes, corrections applied before ✓ or after ___ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form 1:

Value - If the result is a value greater than or equal to the instrument detecion limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

s - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

\+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

IFB Amend. One

ASB 002 1338

000003

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the National Gypsum project. The samples were received on October 23, 1987 and were analyzed for priority pollutant metals only as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
WP 975C1-Sb	WP 975C1-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP 179C8-CN	Mid-Range Std.

2. The ICP raw data contains some time gaps. This is due to the fact that samples that did not pertain to this report but were run on the same analysis were omitted.

3. The mercury holding time was exceeded was by 9 days.

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Date 2-1-88

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Century Laboratories Case No. F2471
SOW No. 785 Q.C. Report No. FCM-19

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
SW 7-2	F2471-01	SW 15-2	F2471-09
SW 8-2	F2471-02	SW 16-2	F2471-10
SW 9-2	F2471-03	SW 17-2	F2471-11
SW 10-2	F2471-04	SW 18-2	F2471-12
SW 11-2	F2471-05	SW 19-2	F2471-13
SW 12-2	F2471-06	SW 20-2	F2471-14
SW 13-2	F2471-07	SW 21-2	F2471-15
SW 14-2	F2471-08	SW 22-2	F2471-16

Comments:

ICP interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detecion limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

W - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

000002

ASB 002 1340

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Date 2-1-87

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Century Laboratories Case No. F2471

SOW No. 785 Q.C. Report No. FCW-19

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
SW 23-2	F2471-17		
FB 3-2	F2471-18		
MS/MSD 2-2	F2471-19		

Comments:

ICP interelement and background corrections applied? Yes ✓ No ___.

If yes, corrections applied before ✓ or after ___ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detecion limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

000003

ASB 002 1341

Form I

U.S. EPA Contract Laboratory Program
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703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW-002

Date 1-26-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2514
SOW NO. 785
Lab Receipt Date 10-29-87
LAB SAMPLE ID. NO. F2514-01
QC REPORT NO. FCM-14

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P		13.	Magnesium P	
2.	Antimony P	58U	14.	Manganese P	
3.	Arsenic F (KB)	~~5.0U~~ 4.0U	15.	Mercury	0.2U
4.	Barium P		16.	Nickel P	11U
5.	Beryllium P	5.0U	17.	Potassium P	
6.	Cadmium P	3.7U	18.	Selenium F	2.0U
7.	Calcium P		19.	Silver P	5.7UN
8.	Chromium P	4.0U	20.	Sodium P	
9.	Cobalt P		21.	Thallium F	2.0U
10.	Copper P	[5.0]	22.	Vanadium P	
11.	Iron P		23.	Zinc P	36
12.	Lead F	5.0U		Percent Solids (%)	NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Kenneth Bond

FORM I

Client Sample No.
SW 1-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

NAME: Century Laboratories, Inc.

CASE NO.: F2447

NO.: 785

LAB RECEIPT DATE: 10-21-87

SAMPLE ID. NO.: F2447-18

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

ntration: L

trix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	[5.0]	12	Thallium F	2.0 UN
6	Copper P	[8.0]	13	Zinc P	[14]
7	Lead F	2.0 UN		Percent Solids (%)	NR

eporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes laining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

nts: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

000021

ASB 002 1343

FORM I

Client Sample No.
SW 2-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDW NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-19

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	6	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	4.0 U	12	Thallium F	2.0 UN
6	Copper P	[8.0]	13	Zinc P	49
7	Lead F	5.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1344

000022

FORM 1

Client Sample No.
SW 3-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

JOB NO.: 785

LAB RECEIPT DATE: 10-21-87

RB SAMPLE ID. NO.: F2447-20

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

atrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	[5.0]	12	Thallium F	2.0 UN
6	Copper P	[10]	13	Zinc P	[11]
7	Lead F	2.0 UN		Percent Solids (%)	NR

r reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes xplaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

ments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1345

000023

FORM I

Client Sample No.
SW 23-E

Date: 03-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2471

SW NO.: 785

LAB RECEIPT DATE: 10-23-87

RB SAMPLE ID. NO.: F2471-16

QC REPORT NO.: FCH-13

Elements Identified and Measured

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	9	Mercury	0.2 U
2	Arsenic P	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium P	20 W
4	Cadmium P	5.7 U	11	Silver P	5.7 UN
5	Chromium P	4.0 U	12	Thallium P	2.0 UN
6	Copper P	5.7 U	13	Zinc P	68
7	Lead P	20 U		Percent Solids (%)	NA

In reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager

ASB 002 1346

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART
- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
- 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S. HAMBOS

PROJECT NO.: D1005-00 SS001-25 LAB NAME: Century

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
906-2F	10-19-87	1	PRIORITY Pollutant Metals
907-2	↓	1	↓
907-2F	↓	1	↓
908-2	↓	1	↓
908-2F	↓	1	↓
MS/MSD 1-2 (Matrix Spike)	10-20-87	1	The Matrix Spike is a duplicate of 904-2
* SW 1-2	↓	1	Surface water sample for Priority Pollutant metals
+ SW 2-2	↓	1	↓
SW 3-2	↓	1	↓
SW 4-2	↓	1	↓
SW 5-2	↓	1	↓

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hambos	10-20-87	Joyce Hung	10-21-87 10AM

FINAL DISPOSITION OF SAMPLE(S):

SHIPMENT METHOD:

COMMENTS:

ASB 002 1347

001

CHAIN OF CUSTODY RECORD

HART ASSOCIATES, INC.

☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
☐ 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
☐ 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: Steve Hand

PROJECT NO.: 01005-00 85001-25 LAB NAME: Century

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 18-2	10-21-87	1	Priority Pollutant Metals
SW 19-2	10-22-87		
SW 20-2			
SW 21-2			
SW 22-2			
SW 23-2			
FB 3-2			
MS/MSD 2-2			This is a duplicate of SW 20-2

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hand	10-22-87	Joyce Gray	10-23-87 10:30 AM

FINAL DISPOSITION OF SAMPLE(S):

SHIPMENT METHOD:

COMMENTS: All Are Surface wt SAMPLES

ASB 002 1348

00017

CHAIN OF CUSTODY RECORD

RED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
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- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S. HAMBOS

PROJECT NO.: 01005-00 85001-25 LAB NAME: Century

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 6-2	10-20-87	1	PP ~~vol org~~ Metals Priority Pollutant
FB 2-2	10-19-87	1	↓
FB 2-2F	"	1	↓
MS/MSD 1-2F	10-20-87	1	↓ duplicate of 904 F

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hambos	10-20-87		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1349

0003

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- ☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- ☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- ☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
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- ☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- ☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: [illegible] SAMPLED BY: [illegible]

PROJECT NO.: [illegible] LAB NAME: [illegible]

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
Trip Blank	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[illegible]	[illegible]		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1350

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
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- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: [illegible] SAMPLED BY: [illegible]

PROJECT NO.: [illegible] LAB NAME: [illegible]

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[illegible]	[illegible]		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1351

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- ☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- ☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- ☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
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- ☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- ☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S. HAMBOS

PROJECT NO.: [illegible] SS001-25 LAB NAME: RADIAN

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
901-2	10-19-87	5	[illegible] + 15 [illegible] [illegible] + 15 [illegible]
902-2	"	"	↓
903-2	"	"	↓
905-2	"	"	↓

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hambos	[illegible]-87		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1352

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- ☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3[illegible]
- ☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- ☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- ☐ 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
- ☐ 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
- ☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- ☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S Hamkes / A Levy

PROJECT NO.: 01005-00 85001-25 LAB NAME: Radian Corporation

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW16 - 2	10/22	5	3 VOA - 15 2 BN + 15
SW19 - 2	[illegible]	5	↓
SW20 - 2	[illegible]	5	↓
SW21 - 2	[illegible]	5	↓
SW20 - 3	[illegible]	5	↓
SW23 - 2	[illegible]	5	↓
Trip Blank A	10/22	1	VOA + 15
Trip Blank B	[illegible]/22	1	↓
Trip Blank C	[illegible]/22	1	↓

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[illegible]	[illegible]		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:
	[illegible]

COMMENTS:

ASB 002 1353

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- ☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- ☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- ☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
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- ☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- ☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: [illegible] SAMPLED BY: [illegible]

PROJECT NO.: [illegible] LAB NAME: [illegible]

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW [illegible]	[illegible]	5	[illegible]

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[illegible]	[illegible]		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1354

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
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- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: [illegible]

PROJECT NO.: [illegible] LAB NAME: [illegible]

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 7-2	10-21-87	5	[illegible]
SW 8-2	↓	↓	↓
SW 9-2	↓	↓	↓
SW 10-2	↓	↓	↓
[illegible]			
[illegible]			

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Rambos	10-21-87		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS: All samples are surface water

ASB 002 1355

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
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- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: [illegible] SAMPLED BY: [illegible]

PROJECT NO.: [illegible] LAB NAME: [illegible]

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 11-2	[illegible]	5	[illegible]
SW 14-2	↓	1	
SW 17-2	↓	1	↓
SW 18-2	↓	↓	↓
TB #2 TRIP BLANK			[illegible]
TB #3 TRIP BLANK			↓

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[illegible]	[illegible]		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1356

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- ☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- ☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- ☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
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- ☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- ☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: _____ SAMPLED BY: _____

PROJECT NO.: _____ LAB NAME: _____

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1357

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
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- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S. HAMBOS

PROJECT NO.: [illegible] LAB NAME: RADIAN CORP

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 3-2	10-20-87	5	[illegible]
SW 4-2	↓	1	
SW 5-2	↓	1	
SW 6-2	↓	↓	
TRIP BLANK #5	↓	1	
TRIP BLANK #11	↓	1	

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[illegible]	[illegible]		

FINAL DISPOSITION OF SAMPLE(S): SHIPMENT METHOD:

COMMENTS:

ASB 002 1358

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
- 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: Steve Hamboos

PROJECT NO.: 01005-00 85001-25 LAB NAME: Century

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 00-2	10-28-87	1	Priority Pollutant Metals Analysis

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hamboos	10-28-87	Joyce Gray	10/29/87 1034

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS: Surface Water Sample

ASB 002 1359

00013

Princeton Service Center
U.S. Route 1
Princeton, NJ 08540

princeton testing laboratory inc.

P.O. Box 3108
Princeton, NJ 08543-3108
(609) 452-9050

November 10, 1987

TO: FRED C. HART ASSOCIATES, INC.
PO BOX 310
LIBERTY CORNER, NJ 07938-0310

ATTENTION: STEVE HAMBOS

JOB NUMBER: #87H2656 - #01005-00-85001-25

ANALYSIS: ASBESTOS IN WATER

PROCEDURE:

An aliquot of sample water was filtered through a 47 mm. Metricel GN-6 Membrane (0.45 micron pore size). Due to high interference from suspended solids, the recommended sample volume may be adjusted. An aliquot of deionized water was used as a blank. The filters were dried in a dessicator and analyzed by NIOSH Method P and CAM 239.

INTERPRETATION:

The following are the Detection Limits for various aliquots filtered:

Volume Filtered	Detection Limit	Volume Filtered	Detection Limit
200 ml.	50,000 f/1	25 ml.	400,000 f/1
150 ml.	75,000 f/1	20 ml.	500,000 f/1
100 ml.	100,000 f/1	10 ml.	1,000,000 f/1
50 ml.	200,000 f/1		

RESULTS:

SAMPLE	Mls. Filtered	Fibers/liter
SW 00-2	200 ml.	<50,000

Patricia D'Apolito
Assistant Manager
Industrial Hygiene

PD/rk

ASB 002 1360

Princeton Service Center
U.S. Route 1
Princeton, NJ 08540

princeton testing laboratory inc.

P.O. Box 3108
Princeton, NJ 08543-3108
(609) 452-9050

November 10, 1987

TO: FRED C. HART ASSOCIATES
PO BOX 310
LIBERTY CORNER, NJ 07938-0310

ATTENTION: STEVE HAMBOS

JOB NUMBER: #87H2605 - #01005-00-85001-25

ANALYSIS: ASBESTOS IN WATER

PROCEDURE:

An aliquot of sample water was filtered through a 47 mm. Metricel GN-6 Membrane (0.45 micron pore size). Due to high interference from suspended solids, the recommended sample volume may be adjusted. An aliquot of deionized water was used as a blank. The filters were dried in a dessicator and analyzed by NIOSH Method P and CAM 239.

INTERPRETATION:

The following are the Detection Limits for various aliquots filtered:

Volume Filtered	Detection Limit	Volume Filtered	Detection Limit
200 ml.	50,000 f/l	25 ml.	400,000 f/l
150 ml.	75,000 f/l	20 ml.	500,000 f/l
100 ml.	100,000 f/l	10 ml.	1,000,000 f/l
50 ml.	200,000 f/l		

RESULTS:

SAMPLE	Mls. Filtered	Fibers/liter
SW1-2	200 ml	67,200
SW2-2	200 ml	71,400
SW3-2	200 ml	<50,000
SW4-2	200 ml	52,500
SW5-2	200 ml	<50,000
SW6-2	200 ml	<50,000
SW7-2	200 ml	<50,000
SW8-2	200 ml	<50,000

cont'd

ASB 002 1361

Princeton Service Center
U.S. Route 1
Princeton, NJ 08540

princeton testing laboratory inc.

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November 10, 1987

TO: FRED C. HART ASSOCIATES, INC.
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Volume Filtered	Detection Limit	Volume Filtered	Detection Limit
200 ml.	50,000 f/l	25 ml.	400,000 f/l
150 ml.	75,000 f/l	20 ml.	500,000 f/l
100 ml.	100,000 f/l	10 ml.	1,000,000 f/l
50 ml.	200,000 f/l		

RESULTS:

SAMPLE	Mls. Filtered	Fibers/liter
SW16-2	200 ml	<50,000
SW17-2	200 ml	<50,000
SW18-2	150 ml	95,200
SW19-2	100 ml	<100,000
SW20-2	100 ml	<100,000
SW21-2	200 ml	<50,000
SW22-2	200 ml	<50,000
SW23-2	200 ml	96,600

ASB 002 1362

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- ☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- ☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- ☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- ☐ 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
- ☐ 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
- ☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- ☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S. Hambes / A Levy

PROJECT NO.: LAB NAME: Princeton Testing Labs

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW1-2	10/20/87	1	asbestos fiber counts
SW2-2	10/20/87	1	
SW3-2	10/20/87	1	
SW4-2	10/20/87	1	
SW5-2	10/20/87	1	
SW6-2	10/20/87	1	
SW7-2	10/21/87	1	
SW8-2	10/21/87	1	
SW9-2	10/21/87	1	
SW10-2	10/21/87	1	
SW11-2	10/21/87	1	

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hambes	10/22/87	[illegible]	10 23 87

FINAL DISPOSITION OF SAMPLE(S):

SHIPMENT METHOD:

COMMENTS: All SAMPLES ~~ARE~~ SURFACE WATER

ASB 002 1363

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
- 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S Hamoos / A. Levy

PROJECT NO.: LAB NAME: Princeton Testing Labs

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW-12-2	10/21/87	1	asbestos fiber counts
SW13-2	10/21/87	1	
SW14-2	10/21/87	1	
SW 15-2	10/22/87	1	
SW 16-2	10/22/87	1	
SW 17-2	10/21/87	1	
SW 18-2	10/21/87	1	
SW 19-2	10/22/87	1	
SW 20-2	10/22/87	1	
SW 21-2	10/22/87		
SW 22-2	10/22/87	1	

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hamoos	10/22/87	[illegible]	10 23 87

FINAL DISPOSITION OF SAMPLE(S):

SHIPMENT METHOD:

COMMENTS: All samples are surface water

ASB 002 1364

THIRD SAMPLING ROUND
GROUND WATER DATA
ORGANIC ANALYSES

ASB 002 1365

QA/QC Review of Radian Organics
Data for Report #'s S7-10-093, S7-10-102, and S7-10-103

Sample Holding Times: CLP holding times were adhered to for volatile and base/neutral-acid extractable analyses.

GC/MS Tuning and Performance: BFB and DFTPP tuning criteria were met.

Initial and Continuing Calibration: All calibration criteria were met except for two continuing calibration runs. BNA continuing calibration on 10-28-87 had 4 CCC's outside QC limits. This only effected a method blank on that data, the data was unusable. VOA continuous calibration on 10-22-87 had two SPCC compound outside QC limits, Bromoform and 1,1,2,2,-Tetrachloroethane. For samples GS7-2, GS8-2, and G-S9-2 results for those compounds should be considered estimates.

Surrogates: Volatiles - Samples 903-2, 903-2R, 907-2, GS6-2 and GS9-2 had one surrogate recovery outside QC limits but greater than 10%. Volatile data for these samples should be considered estimates.

BNA - Samples 901-2, 905-2, 907-2, and 908-2 had 3 surrogates outside QC limits in the acid fraction. Acid fraction data for these samples should be considered unuseable.

Matrix Spike (MS)/Matrix Spike Duplicate(MSD): Volatile FB-1MS & MSD had 1 of 5 RPD's outside QC limits and 0 of 10 percent recoveries. BNA 905-2 MS & MSD had 3 of 11 RPD's and 0 of 22 percent recoveries outside QC limits, all were acid fraction compounds. BNA GS6-2MS & MSD had 0 of 22 percent recoveries outside QC limits.

Blanks: Volatiles - All method blanks were within CLP limits. The following had an acceptable level compounds in them:
10-28-87, methylene chloride 5 ug/L
10-26-87, methylene chloride 2 ug/L
10-27-87, acetone 18 ug/L

BNA - Method blank was within CLP limits. It did contain Di-n-Octyl Phthalate 9 ug/L and Bis(2-Ethylhexyl)phthalate 2 ug/L.

Compound Identification: Compound identification criteria were met.

System Performance: Overall the internal standards areas were within +100% and -50% of the 12 hr. std. There were no other indications of poor system performance.

QA/QC Review for BNA Re-extraction
on Samples 901-2, 908-2, 907-2

Sample Holding Times: Sample holding times were exceeded. However, these analyses were re-extractions of samples previously analyzed.

GC/MS Tuning and Performance: All tuning and performance criteria were met.

Calibration: All calibration criteria were met.

Blanks: Blank was within CLP limits, although trace, amounts of bis(2-Ethylhexyl)phthalate was found. Seven tentatively identified compounds were found in the blank.

Surrogate Recovery: Samples 901-2 and 908-2 met QC limits. Samples 907-2 had two surrogates outside limits.

Matrix Spike (MS)/Matrix Spike Duplicate(MSD): Not reported.

Compound Identification: All identification criteria were met.

MW-904

QA/QC Review of Radian Organics Data for
Report #'s S7-10-112 and S7-10-113

Sample Holding Times: CLP holding times were adhered to for volatile and base/neutral-acid extractable analyses.

GC/MS Tuning and Performance: BFB and DFTPP tuning criteria were met.

Initial and Continuing Calibration: All tuning criteria were met.

Surrogates: TRP BLK 6 had volatile surrogage recovery outside QC limits but above 10%. The surrogate was only 1% outside QC limits, no action required.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD): No volatile data for this report set. BNA MS/MSD data had 0 of 11 RPD's and 0 of 22 were outside QC limits.

Blanks: All method blanks were within CLP limits. Volatile blank had an acceptable level of acetone 18 ug/L, present. The BNA blank had traces of Di-n-Butyl Phthalate, 5 ug/L and Bis(2-Ethylhexyl)phthalate, 1 ug/L.

Compound Identification: Compound identification criteria were met.

System Performance: Only one base/neutral internal standard area was outside QC range. Overall system performance did not indicate any problems.

RADIAN
CORPORATION

CASE NARRATIVE

Laboratory: Radian
Case Number: HART-4

Report Number(s): S7-10-112
S7-10-113

This data package compiles sample and standard analyses for the following water samples received by Radian on 10/21/87:

Laboratory I.D.	Sample I.D.
S710112-01	MW 904-2
S710112-02	MSD-1-2
S710112-03	SW-1-2
S710112-04	SW-2-2
S710112-05	SW-3-2
S710112-06	SW-4-2
S710112-07	SW-5-2
S710112-08	SW-6-2
S710112-09	TRIP BLANK #6
S710112-10	TRIP BLANK #11

Clarifications regarding these analyses are as follows:

1. Sample MW904-2 (Volatile Analysis): Trichlorofluoromethane is reported as a Tentatively Identified Compound on Form IE of the data package. However, this compound is in the standard mixture and thus is not quantitated as a TIC. Because it is not an EPA-CLP target compound, it is not included on Form IA. Also, the program that generates the forms automatically qualifies the TIC compounds with a "J" flag which indicates that it is an estimated value only. In this case, the "J" reporting qualifier does not apply to this compound.

2. Trip Blank #6 (Volatile Analysis): The percent recovery of surrogate D4-1,2-dichloroethane is below the QC limit for this compound. Normally, this sample would have been reanalyzed. However, because it was only 1% below the QC limit and there were no analytes found in this sample, the analyst did not feel that it was necessary to perform a reanalysis.

3. The VOA matrix spike and matrix spike duplicate analyses for this set of samples are batched with the next set of samples in Case Number HART-5. A set of MS/MSD samples were performed every twenty samples.

Laird H. Gale
Technical Director

12/14/87
Date of Signature

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

901-2

Name: RADIAN - SAC Contract: _____

Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

rix: (soil/water) WATER Lab Sample ID: S71010201C

.e wt/vol: 5.0 (g/mL) ML Lab File ID: 1010201C

.: (low/med) LOW Date Received: 10/20/87

oisture: not dec. ____ Date Analyzed: 10/26/87

.n: (pack/cap) PACK Dilution Factor: 1.00

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	67	X
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	3	JXX
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	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	21	
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	9	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

901-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010201C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010201C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 78-78-4	BUTANE,2-METHYL-	9.55	3.0	J
2. 36687-98-6	2-BUTANONE,3-METHOXY-3-METHY	10.90	1.0	J
3. 96-37-7	CYCLOPENTANE,METHYL	12.05	1.0	J
4. 96-14-0	PENTANE,3-METHYL-	13.75	1.0	J
5. 1186-53-4	PENTANE,2,2,3,4-TETRAMETHYL-	18.70	1.0	J
6. 103-65-1	BENZENE,PROPYL-	26.91	2.0	J

ASB 002 1371

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

901-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010201A

Sample wt/vol: 940 (g/mL) ML Lab File ID: 1010201A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.996

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)Ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	53	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	3	J
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-Methylphenol	11	U
91-57-6	2-Methylnaphthalene	1	J
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	53	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

ASB 002 1372

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

901-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HLRT-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S710102014

Sample wt/vol: 940 (g/mL) ML Lab File ID: 1010201A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.996

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)Ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	53	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	3	J
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-Methylphenol	11	U
91-57-6	2-Methylnaphthalene	1	J
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	53	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

901-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010201A

Sample wt/vol: 940 (g/mL) ML Lab File ID: 1010201A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.996

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	53	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	53	U
100-02-7	4-Nitrophenol	53	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	53	U
534-52-1	4,6-Dinitro-2-Methylphenol	53	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	53	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	1	J
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)Phthalate	17	
117-84-0	Di-n-Octyl Phthalate	11	U
205-99-2	Benzo(b)Fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)Anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

901-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010201A

Sample wt/vol: 940 (g/mL) ML Lab File ID: 1010201A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.996

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.40	17	J
2. 822-67-3	2-CYCLOHEXEN-1-OL	5.00	5.7	J
3. 98-82-8	BENZENE,(1-METHYLETHYL)-	5.75	3.2	J
4. 930-68-7	2-CYCLOHEXEN-1-ONE	5.85	6.4	BJ
5. 611-14-3	BENZENE,1-ETHYL-2-METHYL-	6.50	4.2	J
6. 526-73-8	BENZENE,1,2,3-TRIMETHYL-	7.05	11	J
7. 95-63-6	BENZENE,1,2,4-TRIMETHYL-	7.57	4.7	J
8. 300-57-2	BENZENE,2-PROPENYL-	7.80	5.4	J
9. 135-01-3	BENZENE,1,2-DIETHYL-	8.07	2.3	J
10. 25340-17-4	BENZENE,DIETHYL-	8.17	2.4	J
11. 488-23-3	BENZENE,1,2,3,4-TETRAMETHYL-	9.19	2.1	J
12. 824-22-6	1H-INDENE,2,3-DIHYDRO-4-METH	9.74	2.7	J
13. 41239-48-9	FURAN,2,5-DIETHYLTETRAHYDRO-	10.62	3.0	J
14. 112-05-0	NONANOICACID	11.47	4.1	J
15. 143-28-2	9-OCTADECEN-1-OL,(Z)-	21.14	150	BJ
16.	UNKNOWN	23.72	4.8	J
17.	UNKNOWN	27.26	5.1	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

902-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010202C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010202C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

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

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	50	
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	10	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

ASB 002 1376

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

902-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010202C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010202C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

902-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010202A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1010202A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	1	J
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

ASB 002 1378

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

902-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010202A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1010202A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	4	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

ASB 002 1379

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 902-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010202A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1010202A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.05	17	J
2. 930-68-7	2-CYCLOHEXEN-1-ONE	5.62	5.8	BJ
3. 149-57-5	HEXANOICACID,2-ETHYL-	9.15	4.4	J
4. 540-42-1	PROPANOICACID,2-METHYLPROPYL	9.89	28	J
5. 112-05-0	NONANOICACID	11.44	3.0	J
6. 54932-78-4	PHENOL,4-(2,2,3,3-TETRAMETHY	16.00	110	J
7. 140-66-9	PHENOL,4-(1,1,3,3-TETRAMETHY	16.69	2.8	J
8. 10544-93-6	SULFUR,MOL.(S8)	20.85	2.8	J
9. 143-28-2	9-OCTADECEN-1-OL,(Z)-	21.10	150	BJ
10.	UNKNOWN	23.65	5.6	J
11.	UNKNOWN	26.01	4.1	J
12.	UNKNOWN	27.16	18	J
13.	UNKNOWN	8.84	29	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

903-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010203C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010203C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

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

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	2	~~B~~ ND
67-64-1	Acetone	17	
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)	6	
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	
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	10	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	Total Xylenes	5	U

ASB 002 1381

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

903-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010203C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010203C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1382

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

903-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010203A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1010203A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

ASB 002 1383

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

903-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010203A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1010203A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

ASB 002 1384

EPA SAMPLE NO.

903-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010203A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1010203A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.20	18	J
2. 822-67-3	2-CYCLOHEXEN-1-OL	4.83	4.7	J
3. 930-68-7	2-CYCLOHEXEN-1-ONE	5.70	6.3	BJ
4. 540-42-1	PROPANOICACID,2-METHYLPROPYL	9.90	3.6	J
5. 112-05-0	NONANOICACID	11.44	4.1	J
6. 140-66-9	PHENOL,4-(1,1,3,3-TETRAMETHY	16.02	17	J
7.	UNKNOWN	18.74	9.1	J
8. 143-28-2	9-OCTADECEN-1-OL,(Z)-	21.12	100	BJ
9.	UNKNOWN	23.62	6.0	J
10.	UNKNOWN	25.99	4.0	J
11.	UNKNOWN	27.17	6.3	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW_904-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011201C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011201C

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

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

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	2	J
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	10	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	Total Xylenes	5	U

ASB 002 1386

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW_904-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011201C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1011201C

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75-69-4	TRICHLOROFLUOROMETHANE	6.70	0.50	J

ASB 002 1387

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW_904-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011201A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1011201A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.85	16	J
2. 822-67-3	2-CYCLOHEXEN-1-OL	6.43	5.0	J
3. 930-68-7	2-CYCLOHEXEN-1-ONE	7.35	6.0	~~BJ~~ ND
4. 143-28-2	9-OCTADECEN-1-OL,(Z)-	23.05	160	~~BJ~~ ND

ASB 002 1388

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW_904-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011201A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1011201A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	1	J
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW_904-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-4 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71011201A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1011201A

Level: (low/med) LOW Date Received: 10/21/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	B
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	BJND
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

905-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010204C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010204C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

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

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	3	J
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	10	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	Total Xylenes	5	U

ASB 002 1391

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

905-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010204C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010204C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1392

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

905-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010204A

Sample wt/vol: 900 (g/mL) ML Lab File ID: 1010204A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)Ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	56	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-Methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	56	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

ASB 002 1393

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

905-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010204A

Sample wt/vol: 900 (g/mL) ML Lab File ID: 1010204A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U
100-02-7	4-Nitrophenol	56	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-Methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octyl Phthalate	11	U
205-99-2	Benzo(b)Fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)Anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 905-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010204A

Sample wt/vol: 900 (g/mL) ML Lab File ID: 1010204A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 0.999

Number TICs found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.13	18	J
2. 822-67-3	2-CYCLOHEXEN-1-OL	4.77	8.4	J
3. 930-68-7	2-CYCLOHEXEN-1-ONE	5.68	11	~~BJ~~ ND
4. 931-17-9	1,2-CYCLOHEXANEDIOL	8.15	5.0	J
5. 55702-61-9	2-HEXENE,4,4,5-TRIMETHYL-	9.57	1.9	J
6. 124-07-2	OCTANOICACID	10.02	2.6	J
7. 41239-48-9	FURAN,2,5-DIETHYLTETRAHYDRO-	10.62	10	J
8. 112-05-0	NONANOICACID	11.52	12	J
9. 143-28-2	9-OCTADECEN-1-OL,(Z)-	21.17	170	~~BJ~~ ND
10.	UNKNOWN	23.69	8.4	J
11. 119-47-1	PHENOL,2,2'-METHYLENEBIS[6-(	24.24	9.2	J
12.	UNKNOWN	26.07	6.8	J
13.	UNKNOWN	27.27	22	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

906-2

b Name: RADIAN - SAC Contract: _____

Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: S71010210C

mple wt/vol: 5.0 (g/mL) ML Lab File ID: 1010210C

el: (low/med) LOW Date Received: 10/20/87

Moisture: not dec. ____ Date Analyzed: 10/26/87

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

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	1	J
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	10	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	Total Xylenes	5	U

ASB 002 1396

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

906-2

Name: RADIAN - SAC Contract: _____

Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010210C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010210C

Level: (low/med) LOW Date Received: 10/20/87

Percent Moisture: not dec. ____ Date Analyzed: 10/26/87

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
75-69-4	TRICHLOROFLUOROMETHANE	6.80	3.8	J

ASB 002 1397

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

906-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010210A

Sample wt/vol: 950 (g/mL) ML Lab File ID: 1010210A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)Ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	53	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-Methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	53	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
906-2

b Name: RADIAN - SAC Contract: _____

ab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: S71010210A

ample wt/vol: 950 (g/mL) ML Lab File ID: 1010210A

vel: (low/med) LOW Date Received: 10/20/87

Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

xtraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

C Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	53	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	53	U
100-02-7	4-Nitrophenol	53	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	53	U
534-52-1	4,6-Dinitro-2-Methylphenol	53	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	53	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	J
117-84-0	Di-n-Octyl Phthalate	11	U
205-99-2	Benzo(b)Fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)Anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

906-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010210A

Sample wt/vol: 950 (g/mL) ML Lab File ID: 1010210A

Level: (low/med) LOW Date Received: 10/20/87

Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.998

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.03	16	J
2. 822-67-3	2-CYCLOHEXEN-1-OL	4.68	6.0	J
3. 930-68-7	2-CYCLOHEXEN-1-ONE	5.60	8.0	~~BJ~~ ND
4. 540-42-1	PROPANOICACID,2-METHYLPROPYL	9.87	1.8	J
5. 112-05-0	NONANOICACID	11.42	3.4	J
6. 334-48-5	DECANOICACID	15.34	1.5	J
7. 143-28-2	9-OCTADECEN-1-OL,(Z)-	20.99	210	~~BJ~~ ND
8.	UNKNOWN	23.57	6.0	J
9.	UNKNOWN	25.94	5.3	J
10.	UNKNOWN	27.14	28	J
11. 17312-55-9	DECANE,3,8-DIMETHYL-	28.29	4.5	J
12. 31081-18-2	NONANE,3-METHYL-5-PROPYL	30.99	7.6	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

907-2

ame: RADIAN - SAC Contract: _____

ode: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

: (soil/water) WATER Lab Sample ID: S71010301C

e wt/vol: 5.0 (g/mL) ML Lab File ID: 1010301C

(low/med) LOW Date Received: 10/20/87

sture: not dec. ____ Date Analyzed: 10/26/87

: (pack/cap) PACK Dilution Factor: 1.00

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	10	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	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

907-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010301C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010301C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1402

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

907-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010301A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1010301A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

ASB 002 1403

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

907-2

ab Name: RADIAN - SAC Contract: _____

b Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

atrix: (soil/water) WATER Lab Sample ID: S71010301A

mple wt/vol: 1000 (g/mL) ML Lab File ID: 1010301A

vel: (low/med) LOW Date Received: 10/20/87

Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

traction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

PC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

907-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010301A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1010301A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.10	17	J
2. 822-67-3	2-CYCLOHEXEN-1-OL	4.75	5.8	J
3. 110-15-6	BUTANEDIOICACID	5.35	2.3	J
4. 930-68-7	2-CYCLOHEXEN-1-ONE	5.65	8.0	~~BJ~~ ND
5. 19573-22-9	CYCLOHEXANE,AZIDO-	9.52	2.0	J
6. 540-42-1	PROPANOICACID,2-METHYLPROPYL	9.89	3.4	J
7. 41239-48-9	FURAN,2,5-DIETHYLETETRAHYDRO	10.54	9.7	J
8. 140-66-9	PHENOL,4-(1,1,3,3-TETRAMETHY	15.99	1.3	J
9. 143-28-2	9-OCTADECEN-1-OL,(Z)-	21.09	84	~~BJ~~ ND

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

908-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010211C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010211C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

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

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	3	J
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	10	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	Total Xylenes	5	U

ASB 002 1406

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

908-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010211C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010211C

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

908-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010211A

Sample wt/vol: 940 (g/mL) ML Lab File ID: 1010211A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.996

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)Ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-Propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	53	U
111-91-1	bis(2-Chloroethoxy)Methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-Methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	53	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethyl Phthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

908-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010211A

Sample wt/vol: 940 (g/mL) ML Lab File ID: 1010211A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.996

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	53	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	53	U
100-02-7	4-Nitrophenol	53	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	53	U
534-52-1	4,6-Dinitro-2-Methylphenol	53	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	53	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)Anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	J
117-84-0	Di-n-Octyl Phthalate	11	U
205-99-2	Benzo(b)Fluoranthene	11	U
207-08-9	Benzo(k)Fluoranthene	11	U
50-32-8	Benzo(a)Pyrene	11	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11	U
53-70-3	Dibenz(a,h)Anthracene	11	U
191-24-2	Benzo(g,h,i)Perylene	11	U

(1) - Cannot be separated from Diphenylamine

EPA SAMPLE NO.

908-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010211A

Sample wt/vol: 940 (g/mL) ML Lab File ID: 1010211A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/19/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.996

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.35	12	J
2. 822-67-3	2-CYCLOHEXEN-1-OL	4.95	6.0	J
3.	UNKNOWN	5.52	3.8	J
4. 10111-08-7	1H-IMIDAZOLE-2-CARBOXALDEHYD	5.80	4.7	J
5. 931-17-9	1,2-CYCLOHEXANEDIOL	8.17	9.1	J
6.	UNKNOWN	10.55	3.6	J
7. 143-28-2	9-OCTADECEN-1-OL,(Z)-	21.09	92	~~BJ~~ ND
8. 2349-13-5	PROPANOICACID,2-METHYL-,HEPT	23.64	3.6	J
9. 119-47-1	PHENOL,2,2'-METHYLENEBIS[6-(	24.14	20	J
10. 2213-23-2	HEPTANE,2,4-DIMETHYL-	26.02	1.5	J
11. 56009-20-2	CYCLOHEXANE,1-(1,5-DIMETHYLH	27.22	16	J
12. 54004-40-9	1-PENTANOL,3-METHYL-2-PROPYL	28.77	2.1	J

ASB 002 1410

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB2-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010209A

Sample wt/vol: 980 (g/mL) ML Lab File ID: 1010209A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	51	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	51	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

ASB 002 1411

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB2-2

Name: RADIAN - SAC Contract: _____

Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010209A

Sample wt/vol: 980 (g/mL) ML Lab File ID: 1010209A

GPC: (low/med) LOW Date Received: 10/20/87

Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	51	U
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-Methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	51	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB2-2

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010209A

Sample wt/vol: 980 (g/mL) ML Lab File ID: 1010209A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.000

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.07	13	J
2. 930-68-7	2-CYCLOHEXEN-1-ONE	5.63	5.3	~~BJ~~ ND
3. 112-05-0	NONANOICACID	11.44	3.1	J
4. 143-28-2	9-OCTADECEN-1-OL,(Z)-	21.07	82	~~BJ~~ ND
5.	UNKNOWN	23.59	3.7	J
6. 119-47-1	PHENOL,2,2'-METHYLENEBIS[6-(	24.14	6.5	J
7.	UNKNOWN	25.94	4.5	J
8.	UNKNOWN	27.14	17	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB2-2R

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010209C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010209R

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

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

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	10	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	Total Xylenes	5	U

ASB 002 1414

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB2-2R

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010209C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010209R

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/26/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ASB 002 1415

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRP_BLK_4

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010302A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010302A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

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

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	3	~~B~~ND
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	10	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	Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRP_BLK_4

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010302A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010302A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75-69-4	TRICHLOROFLUOROMETHANE	6.50	1.4	J
2. 123-91-1	1,4-DIOXANE	10.85	17	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRP_BLK_5

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010303A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010303A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

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

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	1	J
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	10	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	Total Xylenes	5	U

ASB 002 1418

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRP_BLK_5

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010303A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1010303A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ Date Analyzed: 10/27/87

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 75-69-4	TRICHLOROFLUOROMETHANE	6.60	0.90	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

905-2MS

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010205A

Sample wt/vol: 500 (g/mL) ML Lab File ID: 1010205A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
108-60-1	bis(2-Chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	100	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U

ASB 002 1420

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

905-2MS

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010205A

Sample wt/vol: 500 (g/mL) ML Lab File ID: 1010205A

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine (1)	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	J
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
53-70-3	Dibenz(a,h)Anthracene	20	U
191-24-2	Benzo(g,h,i)Perylene	20	U

(1) - Cannot be separated from Diphenylamine

ASB 002 1421

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

905-2MSD

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010205B

Sample wt/vol: 380 (g/mL) ML Lab File ID: 1010205B

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	26	U
111-44-4	bis(2-Chloroethyl)Ether	26	U
95-57-8	2-Chlorophenol	26	U
541-73-1	1,3-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
100-51-6	Benzyl Alcohol	26	U
95-50-1	1,2-Dichlorobenzene	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	bis(2-Chloroisopropyl)Ether	26	U
106-44-5	4-Methylphenol	26	U
621-64-7	N-Nitroso-Di-n-Propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	26	U
65-85-0	Benzoic Acid	130	U
111-91-1	bis(2-Chloroethoxy)Methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
120-82-1	1,2,4-Trichlorobenzene	26	U
91-20-3	Naphthalene	26	U
106-47-8	4-Chloroaniline	26	U
87-68-3	Hexachlorobutadiene	26	U
59-50-7	4-Chloro-3-Methylphenol	26	U
91-57-6	2-Methylnaphthalene	26	U
77-47-4	Hexachlorocyclopentadiene	26	U
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	130	U
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	130	U
131-11-3	Dimethyl Phthalate	26	U
208-96-8	Acenaphthylene	26	U
606-20-2	2,6-Dinitrotoluene	26	U

ASB 002 1422

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

905-2MSD

Lab Name: RADIAN - SAC Contract: _____

Lab Code: RADIAN Case No.: HART-3 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: S71010205B

Sample wt/vol: 380 (g/mL) ML Lab File ID: 1010205B

Level: (low/med) LOW Date Received: 10/20/87

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/23/87

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/18/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.999

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	130	U
83-32-9	Acenaphthene	26	U
51-28-5	2,4-Dinitrophenol	130	U
100-02-7	4-Nitrophenol	130	U
132-64-9	Dibenzofuran	26	U
121-14-2	2,4-Dinitrotoluene	26	U
84-66-2	Diethylphthalate	26	U
7005-72-3	4-Chlorophenyl-phenylether	26	U
86-73-7	Fluorene	26	U
100-01-6	4-Nitroaniline	130	U
534-52-1	4,6-Dinitro-2-Methylphenol	130	U
86-30-6	N-Nitrosodiphenylamine (1)	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
87-86-5	Pentachlorophenol	130	U
85-01-8	Phenanthrene	26	U
120-12-7	Anthracene	26	U
84-74-2	Di-n-Butylphthalate	26	U
206-44-0	Fluoranthene	26	U
129-00-0	Pyrene	26	U
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	53	U
56-55-3	Benzo(a)Anthracene	26	U
218-01-9	Chrysene	26	U
117-81-7	bis(2-Ethylhexyl)Phthalate	5	J
117-84-0	Di-n-Octyl Phthalate	26	U
205-99-2	Benzo(b)Fluoranthene	26	U
207-08-9	Benzo(k)Fluoranthene	26	U
50-32-8	Benzo(a)Pyrene	26	U
193-39-5	Indeno(1,2,3-cd)Pyrene	26	U
53-70-3	Dibenz(a,h)Anthracene	26	U
191-24-2	Benzo(g,h,i)Perylene	26	U

(1) - Cannot be separated from Diphenylamine

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

- ☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
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- ☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- ☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S Hambos

PROJECT NO.: [illegible] 55001-25 LAB NAME: Radian

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
901-2	12-19-87	5	[illegible]
902-2	"	"	↓
903-2	"	"	↓
905-2	"	"	↓

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hambos	[illegible]		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1424

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

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CLIENT NAME: National Fireworks SAMPLED BY: S Hamrock / A Levy

PROJECT NO.: 01005-00 85004-25 LAB NAME: Indian Commerce

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
[illegible] - 2	[illegible]	5	3 VOA - 15 2 BN + 15
[illegible] - 2	[illegible]	5	↓
[illegible] - 2	[illegible]	5	↓
[illegible] - 2	[illegible]	5	↓
[illegible] - 3	[illegible]	5	↓
[illegible] - 2	[illegible]	5	↓
Trip Blank A	1/22	1	VOA + 15
Trip Blank B	1/22	1	↓
Trip Blank C	1/22	1	↓

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[illegible]	[illegible]		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:
	[illegible]

COMMENTS:

ASB 002 1425

CHAIN OF CUSTODY RECORD

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- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: _____ SAMPLED BY: _____

PROJECT NO.: _____ LAB NAME: _____

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
[illegible]	[illegible]	5	[illegible]

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[illegible]	[illegible]		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1426

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

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☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: Steve Hambos

PROJECT NO.: [illegible] LAB NAME: Hart Corp

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 7-2	10-21-87	5	[illegible] VOLATILE ORGANICS + [illegible]
SW 8-2	↓	↓	↓
SW 9-2	↓	↓	↓
SW 10-2	↓	↓	↓
[illegible]			
[illegible]			

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hambos	10-21-87		

FINAL DISPOSITION OF SAMPLE(S): SHIPMENT METHOD:

COMMENTS: All samples are surface water

ASB 002 1427

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

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- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: [illegible] SAMPLED BY: [illegible]

PROJECT NO.: [illegible] LAB NAME: [illegible]

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 11-2	[illegible]	5	[illegible]
SW 14-2	↓	1	
SW 17-2	↓	1	↓
SW 18-2	↓	↓	↓
TB-2 TRIP BLANK			[illegible]
TB-3 TRIP BLANK			↓

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1428

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

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☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: _____ SAMPLED BY: _____

PROJECT NO.: _____ LAB NAME: _____

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1429

CHAIN OF CUSTODY RECORD

:ED C. HART ASSOCIATES, INC.

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☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S. HAMBS

PROJECT NO.: [illegible] LAB NAME: [illegible]

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 3-2	[illegible]	5	[illegible]
SW 4-2	↓	1	
SW 5-2	↓	1	
SW 6-2	↓	↓	
TRIP BLANK #6	↓	1	
TRIP BLANK #11	↓	1	

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[illegible]	[illegible]		

FINAL DISPOSITION OF SAMPLE(S): SHIPMENT METHOD:

COMMENTS:

ASB 002 1430

THIRD SAMPLING ROUND
GROUND WATER DATA
INORGANIC ANALYSES

ASB 002 1431

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the National Gypsum project. The samples were received on October 21 1987 and were analyzed for priority pollutant metals as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	

2. The following samples were reported as less than the CRDL as per SOW #785 furnace flow chart (Section E).

SAMPLE #	ELEMENT	CRDL (ppb)
904-2	Pb	5.0
904-2F	Pb	5.0
907-2	Pb	5.0
908-2F	Pb	5.0
MS/MSD 1-2	Pb	5.0
SW 2-2	Pb	5.0
SW 6-2	Pb	5.0
902-2F	As	10

3. The raw ICP data is presented in this report for Sample #F2530-05, F2530-05 dup, and F2530-05 spike. This QC is associated with the last six samples of this report. The blanks and CCV's associated with the QC samples are not presented in this report, but are available.

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 1-25-88

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name CENTRAL LABORATORIES Case No. F2W47

SOW No. 787 Q.C. Report No. FCW-13

Sample Numbers

~~EPA~~ CLP No.	Lab ID No.	~~EPA~~ CLP No.	Lab ID No.
901-2	F2W47-01	905-2	F2W47-09
901-2F	F2W47-02	905-2F	F2W47-10
902-2	F2W47-03	906-2	F2W47-11
902-2F	F2W47-04	906-2F	F2W47-12
903-2	F2W47-05	907-2	F2W47-13
903-2F	F2W47-06	907-2F	F2W47-14
904-2	F2W47-07	908-2	F2W47-15
904-2F	F2W47-08	908-2F	F2W47-16

Comments:

ICP interelement and background corrections applied? Yes ✓ No ____.

If yes, corrections applied before ✓ or after ____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 1-25-[illegible]

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name CENTURY LABORATORIES Case No. F2447

SOW No. 7[illegible] Q.C. Report No. FC[illegible]-13

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MS/MSD 1-2	F2447-17	FB 2-2F	F2447-25
SW1-2	F2447-18	MS/MSD 1-2F	F2447-26
SW2-2	F2447-19		
SW3-2	F2447-20		
SW4-2	F2447-21		
SW5-2	F2447-22		
SW6-2	F2447-23		
FB2-2	F2447-24		

Comments:

ICP interelement and background corrections applied? Yes ✓ No ___.

If yes, corrections applied before ✓ or after ___ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form 1:

Value - If the result is a value greater than or equal to the instrument detecion limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

s - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

ASB 002 1434

IFB Amend. One

QA/QC Review for Inorganics

on Century Laboratories Report #F2447

Holding Times:

All holding times were adhered to as per the CLP.

Initial and Continuing Calibration Verification:

All recoveries were within CLP limits.

Blanks:

Initial and Continuing Calibration and Preparation Blanks were within CLP limits.

ICP Interference Check Sample:

All initial and final recoveries were within CLP limits.

Spike Sample Recoveries:

Lead (160%), Silver (50%), and Thallium (68%) had recoveries outside QC limits (75-125%) for spike sample #F2447-20. Silver (50%) had a recovery outside QC limits for spike sample #F2530-5. All positive results affected by these samples should be considered estimates.

Duplicates:

All duplicate results were within CLP limits.

Laboratory Control Samples:

All recoveries were within CLP limits:

Standard Addition Results:

All analyses quantitated by the method of standard additions had correlation coefficients greater than 0.995 as required by CLP.

ICP Serial Dilution:

Serial dilution results were within CLP limits.

Instrument Detection Limits:

All IDLs were at or below the contract-required detection limits as specified in the CLP.

FORM I

Client Sample No.
901-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-01

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	[15]
3	Beryllium P	5.0 U	10	Selenium F	[2.0]
4	Cadmium P	3.7 U	11	Silver P	8.7 UN
5	Chromium P	19	12	Thallium F	2.0 UN
6	Copper P	[14]	13	Zinc P	24
7	Lead F	2.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1436

000004

FORM I

Client Sample No.
901-2F

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-02

QC REPORT NO.: FCH-13

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	[14]
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	11	12	Thallium F	2.0 UN
6	Copper P	[22]	13	Zinc P	36
7	Lead F	2.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1437

000005

FORM I

Client Sample No.
902-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDW NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-03

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	6	Mercury	2.6
2	Arsenic F	[7.0]	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	8.7 UN
5	Chromium P	[10]	12	Thallium F	2.0 UN
6	Copper P	[10]	13	Zinc P	5.0 U
7	Lead F	2.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1438

000006

FORM I

Client Sample No.
982-2F

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDW NO.: 785

LAB RECEIPT DATE: 10-21-87

SAMPLE ID. NO.: F2447-04

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

centration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	2.0
2	Arsenic F	10 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	8.7 UN
5	Chromium P	[5.0]	12	Thallium F	2.0 UN
6	Copper P	26	13	Zinc P	38
7	Lead F	6.0 N		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1439

000007

FORM I

Client Sample No.
983-2

Date: 8-25-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-85

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	17	12	Thallium F	2.0 UN
6	Copper P	[12]	13	Zinc P	9.0 U
7	Lead F	2.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1440

000003

FORM I

Client Sample No.
983-2F

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDW NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-06

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	13	12	Thallium F	20 UN
6	Copper P	[11]	13	Zinc P	9.0 U
7	Lead F	2.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1441

000009

FORM I

Client Sample No.
904-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

: Century Laboratories, Inc.

CASE NO.: F2447

785

LAB RECEIPT DATE: 10-21-87

LE ID. NO.: F2447-87

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

ation: L

: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	40 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	15	12	Thallium F	2.0 UN
6	Copper P	[10]	13	Zinc P	9.0 U
7	Lead F	5.0 UN		Percent Solids (%)	NR

sporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes ing results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1442

000010

FORM I

Client Sample No.
904-2F

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-08

QC REPORT NO.: FDH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	53 U	8	Mercury	0.2 U
2	Arsenic F	40 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	15	12	Thallium F	2.0 UN
6	Copper P	[17]	13	Zinc P	9.0 U
7	Lead F	5.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1443

000011

FORM I

Client Sample No.
985-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-09

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	4.0
2	Arsenic F	4.0 Us	9	Nickel P	71
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	5.7 UN
5	Chromium P	94	12	Thallium F	2.0 UN
6	Copper P	35	13	Zinc P	73
7	Lead F	23 Ns		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1444

000013

FORM I

Client Sample No.
985-2F

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDW NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-10

QC REPORT NO.: FDH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	[31]
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	[7.0]	12	Thallium F	2.0 UN
6	Copper P	27	13	Zinc P	132
7	Lead F	2.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager: Kenneth Bond

Kenneth Bond

ASB 002 1445

000013

FORM I

Client Sample No.
906-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-11

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	10
2	Arsenic F	4.8 U	9	Nickel P	85
3	Beryllium P	5.0 U	10	Selenium F	20 UE
4	Cadmium P	[4.3]	11	Silver P	8.7 UN
5	Chromium P	268	12	Thallium F	2.0 UN
6	Copper P	10900	13	Zinc P	1178
7	Lead F	566 N		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Kenneth Bond

Lab Manager

Kenneth Bond

ASB 002 1446

000014

FORM I

Client Sample No.
906-2F

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDW NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-12

QC REPORT NO.: FDH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.9
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	20 UE
4	Cadmium P	3.7 U	11	Silver P	5.7 UN
5	Chromium P	4.0 U	12	Thallium F	2.0 UN
6	Copper P	386	13	Zinc P	158
7	Lead F	13 SN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1447

000015

FORM I

Client Sample No.
907-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

B NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

B SAMPLE ID. NO.: F2447-13

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

ncentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	40 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	8.7 UN
5	Chromium P	11	12	Thallium F	2.0 UN
6	Copper P	[9.0]	13	Zinc P	24
7	Lead F	5.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Kenneth Bond

Lab Manager

Kenneth Bond

ASB 002 1448

000016

FORM I

Client Sample No.
907-25

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-14

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	40 UE	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	[6.0]	12	Thallium F	2.0 UN
6	Copper P	[8.0]	13	Zinc P	21
7	Lead F	2.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1449

000017

FORM I

Client Sample No.
906-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-15

QC REPORT NO.: FCH-13

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	3.2
2	Arsenic F	4.0 Us	9	Nickel P	61
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	81	12	Thallium F	2.0 UN
6	Copper P	31	13	Zinc P	75
7	Lead F	21 N		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1450

000013

FORM I

Client Sample No.
906-2F

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDW NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-16

QC REPORT NO.: FDH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	[24]
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	[7.0]	12	Thallium F	2.0 UN
6	Copper P	[21]	13	Zinc P	123
7	Lead F	5.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1451

000013

FORM I

Client Sample No.
FB 2-2

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-24

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	4.0 U	12	Thallium F	2.0 UN
6	Copper P	5.7 U	13	Zinc P	[11]
7	Lead F	2.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

00002

ASB 002 1452

FORM I

Client Sample No.
FB 2-25

Date: 01-25-88

INORGANIC ANALYSIS DATA SHEET

NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-87

LAB SAMPLE ID. NO.: F2447-25

QC REPORT NO.: FCH-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	4.0 U	12	Thallium F	2.0 UN
6	Copper P	[6.0]	13	Zinc P	55
7	Lead F	2.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager

Kenneth Bond

000028

ASB 002 1453

FORM I

Client Sample No.
MS/MSD 1-2

Date: 01-25-68

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2447

SDG NO.: 785

LAB RECEIPT DATE: 10-21-67

LAB SAMPLE ID. NO.: F2447-17

QC REPORT NO.: FCh-13

Elements Identified and Measured
****

Concentration: L

Matrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	20 UE
4	Cadmium P	3.7 U	11	Silver P	8.7 UN
5	Chromium P	22	12	Thallium F	2.0 UN
6	Copper P	[12]	13	Zinc P	5.0 U
7	Lead F	5.0 UN		Percent Solids (%)	NR

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Kenneth Bond

ASB 002 1454

000020

FORM I

Client Sample No.
MS/MSD:-2F

Date: 01-25-68

INORGANIC ANALYSIS DATA SHEET

NAME: Century Laboratories, Inc.

CASE NO.: F2447

M.NO.: 785

LAB RECEIPT DATE: 10-21-87

SAMPLE ID. NO.: F2447-26

QC REPORT NO.: FCH-13

Elements Identified and Measured
++++++++++++++++++++++++++++++

centration: L

atrix: Water

ug/l

1	Antimony P	55 U	8	Mercury	0.2 U
2	Arsenic F	4.0 U	9	Nickel P	11 U
3	Beryllium P	5.0 U	10	Selenium F	2.0 U
4	Cadmium P	3.7 U	11	Silver P	6.7 UN
5	Chromium P	4.0 U	12	Thallium F	2.0 UN
6	Copper P	[10]	13	Zinc P	5.0 U
7	Lead F	2.0 UN		Percent Solids (%)	NR

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes plaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

mments: CLEAR LIQUID

Lab Manager Kenneth Bond

000023 Kenneth Bond

ASB 002 1455

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
- 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S. HAMBOS

PROJECT NO.: 01005-00 [illegible]-25 LAB NAME: Century

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
901-2	10-19-87	1	Priority Pollutant Metals
901-2F		1	
902-2		1	
902-2F		1	
903-2		1	
903-2F		1	
904-2	10-20-87	1	
904-2F	10-20-87	1	
905-2	10-29-87	1	
905-2F		1	
906-2		1	

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hambos	10-20-87	[illegible]	10-21-87 10AM

FINAL DISPOSITION OF SAMPLE(S): SHIPMENT METHOD:

COMMENTS:

ASB 002 1456

000272

CHAIN OF CUSTODY RECORD

...ED C. HART ASSOCIATES, INC.

☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
☐ 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
☐ 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S. HAMBOS

PROJECT NO.: 01005-00 SS001-25 LAB NAME: Century

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
906-2F	10-19-87	1	PRIORITY Pollutant Metals
907-2	↓	1	↓
907-2F	↓	1	↓
908-2	↓	1	↓
908-2F	↓	1	↓
MS/MSD 1-2 (Matrix Spike)	10-20-87	1	The Matrix Spike is a duplicate of 904-2
SW 1-2	↓	1	Surface water sample for Priority Pollutant Metals
SW 2-2	↓	1	↓
SW 3-2	↓	1	↓
SW 4-2	↓	1	↓
SW 5-2	↓	1	↓

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hambos	10-20-87	[signature]	10-21-87 F.E. 10AM

FINAL DISPOSITION OF SAMPLE(S):

SHIPMENT METHOD:

COMMENTS:

ASB 002 1457

0002

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
- 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: S. HAMBOS

PROJECT NO.: 01005-00 85001-25 LAB NAME: Century

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW 6-2	10-20-87	1	PP ~~Vol org~~ Metals Priority Pollutant
FB 2-2	10-19-87	1	↓
FB 2-2F	"	1	↓
MS/MSD 1-2F	10-20-87	1	↓ duplicate of 904 F

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Hambos	10-20-87		

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:

COMMENTS:

ASB 002 1458

0003

Princeton Service Center
U.S. Route 1
Princeton, NJ 08540

princeton testing laboratory inc.

P.O. Box 3108
Princeton, NJ 08543-3108
(609) 452-9050

November 10, 1987

TO: FRED C. HART ASSOCIATES
PO BOX 310
LIBERTY CORNER, NJ 07938-0310

ATTENTION: STEVE HAMBOS

JOB NUMBER: #87H2605 - #01005-00-85001-25

ANALYSIS: ASBESTOS IN WATER

PROCEDURE:

An aliquot of sample water was filtered through a 47 mm. Metricel GN-6 Membrane (0.45 micron pore size). Due to high interference from suspended solids, the recommended sample volume may be adjusted. An aliquot of deionized water was used as a blank. The filters were dried in a dessicator and analyzed by NIOSH Method P and CAM 239.

INTERPRETATION:

The following are the Detection Limits for various aliquots filtered:

Volume Filtered	Detection Limit	Volume Filtered	Detection Limit
200 ml.	50,000 f/1	25 ml.	400,000 f/1
150 ml.	75,000 f/1	20 ml.	500,000 f/1
100 ml.	100,000 f/1	10 ml.	1,000,000 f/1
50 ml.	200,000 f/1		

RESULTS:

SAMPLE	Mls. Filtered	Fibers/liter
#901-2	200 ml	<50,000
902-2	200 ml	58,800
903-2	200 ml	142,000
904-2	200 ml	<50,000
905-2	200 ml	<50,000
906-2	50 ml	<200,000
907-2	50 ml	<200,000
908-2	50 ml	<200,000

cont'd

ASB 002 1459

Princeton Service Center
U.S. Route 1
Princeton, NJ 08540

princeton testing laboratory inc.

P.O. Box 3108
Princeton, NJ 08543-3108
(609) 452-9050

November 10, 1987

TO: FRED C. HART ASSOCIATES
PO BOX 310
LIBERTY CORNER, NJ 07938-0310

ATTENTION: STEVE HAMBOS

JOB NUMBER: #87H2605 - #01005-00-85001-25

ANALYSIS: ASBESTOS IN WATER

PROCEDURE:

An aliquot of sample water was filtered through a 47 mm. Metricel GN-6 Membrane (0.45 micron pore size). Due to high interference from suspended solids, the recommended sample volume may be adjusted. An aliquot of deionized water was used as a blank. The filters were dried in a dessicator and analyzed by NIOSH Method P and CAM 239.

INTERPRETATION:

The following are the Detection Limits for various aliquots filtered:

Volume Filtered	Detection Limit	Volume Filtered	Detection Limit
200 ml.	50,000 f/1	25 ml.	400,000 f/1
150 ml.	75,000 f/1	20 ml.	500,000 f/1
100 ml.	100,000 f/1	10 ml.	1,000,000 f/1
50 ml.	200,000 f/1		

RESULTS:

SAMPLE	Mls. Filtered	Fibers/liter
FB2-2	200 ml	<50,000
FB3-2	200 ml	<50,000

Patricia D'Apolito
Assistant Manager
Industrial Hygiene

PD/rk

ASB 002 1460

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- ☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- ☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- ☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- ☐ 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
- ☐ 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
- ☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- ☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

CLIENT NAME: National Gypsum SAMPLED BY: Stamboos / A Levy

PROJECT NO.: LAB NAME: Princeton Testing Labs

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
SW23-2	10/22/87	1	asbestos fiber counts
901-2	10/19/87	1	GROUND WATER SAMPLE
902-2	10/19/87	1	
903-2	10/19/87	1	
904-2	10/19/87	1	
905-2	10/19/87	1	
906-2	10/19/87	1	
907-2	10/19/87	1	
908-2	10/19/87	1	
FB2-2	10/19/87	1	
FB3-2	10/22/87	1	

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Steve Stamboos	10/22/87	Dennis J. Foster	10 23 87

FINAL DISPOSITION OF SAMPLE(S): SHIPMENT METHOD:

COMMENTS:

ASB 002 1461