US EPA RECORDS CENTER REGION 5
513063

SAMPLING DATA

APPENDIX K

SURFACE SOIL ANALYTICAL DATA

Initial Review Completed 3/30/92 MB
Final Review J.G. 4/27/92

Bias Review 8/26/92 T. Hay

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 3-3-92

SUBJECT: Review of Region V CLP Data
Received for Review on Feb 13, 1992

FROM: Charles T. Elly, Director(5SCRL)
Central Regional Laboratory
Jay Thompson

TO: Data User: B+V

We have reviewed the data for the following case(s).

SITE NAME: A.E. Staley (CFL) SMO Case No. 17661

EPA Data Set No. _____ No. of Samples 9 DU/Activity Numbers 1

CRL No. _____

SMO Traffic No. MEGN12-20

CLP Laboratory: NLE Hrs. for Review 6.0hr +1 ax

Following are our findings:

The laboratory's portion of case 17661 contains 5 low level soil samples and 4 low level water samples assayed for total metals and cyanide. The following narrative lists the out of control audits and their possible effects on the data.

((SEE NEXT PAGE))

Jim Sugrue
Lockheed/ESAT
3-3-92

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt.Office
Edward Kantor, EMSL-Las Vegas

LABORATORY: NLE **CASE: 17661**

Water Samples (MEGN12-15)

BIAS

ICAP ANALYSIS: The ICP serial dilution for Na (26.6% difference) is out of control. All Na water results are estimated (J) due to interference. J.G. T.H

The water preparation blank was found to contain Ca (45.3 ug/L) and Na (181.4 ug/L) and a CCB was found to contain Al (32.4 ug/L). Al and Ca in MEGN15 are estimated (J) due to contamination. Sodium in MEGN15 is also affected by contamination but remains qualified as stated above. J.G. T.H.

The duplicate audits for Ni (200% RPD) and Zn (47.4% RPD) were not flagged by the lab since their duplicate differences are less than the technical criterion for water, CRDL. All Ni and Zn water results are acceptable. J.G. T.H.

GFAA ANALYSIS: The reviewer corrected the As water results on forms 5 and 6. The As result for MEGN13 was flagged by the lab with a (W) flag and is estimated (UJ) due to interference. All remaining As water results are acceptable. J.G.

The matrix spike recovery for Pb (130.1%) exceeds the upper control limit; however, all water Pb results are less than IDL and therefore not qualified on this basis. The lead results for samples MEGN12, 14 and 15 were flagged by the lab with (W) flags and are estimated (UJ) due to interference. All remaining Pb water results are acceptable. J.G.

The duplicate audit for Se (200% RPD) was not flagged by the lab since its duplicate difference is less than the technical criterion for water, CRDL. Selenium results are not qualified on this basis. The Se results for MEGN13 and 14 were flagged by the lab with (W) flags which indicates interference. The calibration correlation coefficient for Se is less than 0.995 - all Se water results are estimated (UJ). J.G.

OTHER QUALIFIERS: All Hg and CN water results are acceptable.

Soil Samples (MEGN16-20)

ICAP ANALYSIS: The duplicate audit for Sb (200% RPD) was not flagged by the lab since its duplicate difference is less than the technical criterion for soils, 2X CRDL. Antimony results are not qualified on this basis. The matrix spike recovery for Sb (33.5%) is out of control. Samples MEGN17 and 20 are estimated (J) due to low bias. All remaining soil Sb results are estimated (UJ) due to a possible elevated detection limit. J.G. T.H

Jill Sugrue
Lockheed/ESAT
3-3-92

The duplicate audit for Mg (35.5% RPD) is out of control. All Mg soil results are estimated (J) due to poor precision. J.G. T.H

The matrix spike recovery for Ag (65.0%) is out of control. All Ag soil results are estimated (UJ) due to a possible elevated detection limit. J.G.

The ICP serial dilutions for K (14.9% difference) and Na (280.9% difference) are out of control. All K and Na soil results are estimated (J) due to interference. J.G. T.H.

The duplicate audits for Ca (28.5% RPD) and Cu (26.8% RPD) were flagged by the lab; however, their percent RPDs are less than the technical criterion for soils, 35 percent. All Ca and Cu soil results are acceptable. J.G.

The soil preparation blank was found to contain Na (51.153 mg/Kg). Sample MEGN18 is affected by contamination but remains qualified as stated above. J.G.

GFAA ANALYSIS: A CCB was found to contain As (8.3 ug/L). Samples MEGN19 and 20 are affected and estimated (J) due to contamination. All remaining As soil results are acceptable. J.G. T.H.

The Se results for sample MEGN16, 18 and 19 were flagged by the lab with a (W) flag which indicates interference. The calibration correlation coefficient for Se is less than 0.995 - samples MEGN16, 17 and 20 are estimated (J) and MEGN18 and 19 are estimated (UJ). J.G. T.H.

The Tl result for sample MEGN20 was flagged by the lab with a (W) flag and is estimated (J) due to interference. All remaining Tl soil results are acceptable. J.G. T.H

OTHER QUALIFIERS: All Hg soil results are acceptable.

The duplicate audit for CN (200% RPD) was flagged by the lab; however, the duplicate difference is less than the technical criterion for soils, 2X CRDL. All CN soil results are acceptable.

Reviewed by: **Jill Siegrist Lockheed/ESAT**
Date: **3-3-92**

Jill Siegrist
Lockheed/ESAT
3-3-92

QC EXCEPTION SUMMARY REPORT

CASE # 17661
DATA S...
LAB Q.C. ...
... 3-2-91

SITE AE Staley
LAB NLE
REVIEWED BY Jill Siegrist

MATRIX: (5) Soil
CONC. : (4) Water
10W

WATER SAMPLE SPK.
WATER SAMPLE DUP.
SOIL SAMPLE SPK.
SOIL SAMPLE DUP.

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		FIELD QC			REGIONAL QC			OTHER/ COMMENTS
	Holding Time	Cal Blanks	Init Calver	Contin Calver	Prep Blk AQ	Prep Blk SOL	ICS %R	LCS % AQ	LCS % SOL	Sol Dup RPD	Sol Spk %R	AQ Dup RPD	AQ Spk %R	Ser Dilu AQ	Ser Dilu SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Blind Blank	Blind Spike %R	Split Sample RPD	
Aluminum						24.629																		
Antimony											33.5													
Arsenic																								
Barium																								
Beryllium																								
Cadmium					45.3																			
Calcium					45.3	175.390																		
Chromium																								
Cobalt																								
Copper																								
Iron					43.9	11.676																		
Lead													130.1											
Magnesium						5.524				35.5														
Manganese																								
Mercury																								
Nickel																								
Potassium															14.9									
Selenium																								
Silver											65.0													
Sodium					181.4	51.143								206	280.9									
Thallium																								
Tin																								
Vanadium																								
Zinc						1.886																		
Cyanide																								

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. — CERCLIS No. (IL)

Case No. 17661 Site Name Location: AE Staley

Contractor or EPA Lab: NLE Data User: B+V

No. of Samples: 9 Date Samples or Data Received: 2-13-92

Have Chain-of-Custody records been received? YES___ NO X
Have traffic reports or packing lists been received? YES___ NO X
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES X NO___
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES X NO___
No. of samples claimed: 9 No. of samples received: 9

Received by: A.D. Harris Date: 2-13-92

Received by LSSS: DMM Date: 2-13-92

Review started: 3-2-92 Reviewer Signature: Jill Siegrist

Total time spent on review: 60 Date review completed: 3-3-92

Copied by: Valerie Lr Cox Date:

Mailed to user by: AD Harris Date: 3-5-92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by:_____ Date:_____

Data review received by:_____ Date:_____
Inorganic Data Complete[ ] Suitable for Intended Purpose[ ] ✓if OK
Organic Data Complete [ ] Suitable for Intended Purpose[ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose[ ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose[ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date:_____

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.:MEGN12

SOW No.: 7/88_

EPA Sample No.	Lab Sample ID
_MEGN12_____	__MEGN12_____
_MEGN12D_____	__MEGN12D_____
_MEGN12S_____	__MEGN12S_____
H_2O _MEGN13_____	__MEGN13_____
_MEGN14_____	__MEGN14_____
_MEGN15_____	__MEGN15_____
_MEGN16_____	__MEGN16_____
_MEGN16D_____	__MEGN16D_____
_MEGN16S_____	__MEGN16S_____
Soil _MEGN17_____	__MEGN17_____
_MEGN17D_____	__MEGN17D_____
_MEGN17S_____	__MEGN17S_____
_MEGN18_____	__MEGN18_____
_MEGN19_____	__MEGN19_____
_MEGN20_____	__MEGN20_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

RECEIVED
FEB 13 1992
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Were ICP interelement corrections applied ? Yes/No YES

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

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Elizabeth A. Janssen Name: Elizabeth A. Janssen

Date: 2/12/92 Title: CLP/Metals Manager

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEGN12

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix (soil/water): WATER Lab Sample ID: MEGN12____

Level (low/med): LOW__ Date Received: 01/09/92

% Solids: __0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum_	354	_		P_	
7440-36-0	Antimony_	27.0	U		P_	
7440-38-2	Arsenic__	2.0	U		F_	
7440-39-3	Barium___	59.5	B		P_	
7440-41-7	Beryllium	1.0	U		P_	
7440-43-9	Cadmium__	3.0	U		P_	
7440-70-2	Calcium__	82200	_		P_	
7440-47-3	Chromium_	8.0	U		P_	
7440-48-4	Cobalt___	6.0	U		P_	
7440-50-8	Copper___	7.0	U		P_	
7439-89-6	Iron____	510	_		P_	
7439-92-1	Lead____	1.0	U	WN UJ	F_	unk bias
7439-95-4	Magnesium	35900	_		P_	
7439-96-5	Manganese	59.5	_		P_	
7439-97-6	Mercury__	0.20	U		CV	
7440-02-0	Nickel___	5.0	U		P_	
7440-09-7	Potassium	1290	B		P_	
7782-49-2	Selenium_	2.0	B	UJ	F_	
7440-22-4	Silver___	4.0	U		P_	
7440-23-5	Sodium__	15900	_	E J	P_	UNKNOWN BIAS
7440-28-0	Thallium_	1.0	U		F_	
7440-62-2	Vanadium_	3.0	U		P_	
7440-66-6	Zinc____	20.1	_		P_	
_____	Cyanide__	7.1	_		AS	

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

7/88

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEGN13

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix (soil/water): WATER Lab Sample ID: MEGN13____

Level (low/med): LOW__ Date Received: 01/09/92

% Solids: __0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum_	446	_		P_	
7440-36-0	Antimony_	27.0	U		P_	
7440-38-2	Arsenic__	2.0	U	W UJ	F_	unk bias
7440-39-3	Barium___	58.1	B		P_	
7440-41-7	Beryllium	1.0	U		P_	
7440-43-9	Cadmium__	3.0	U		P_	
7440-70-2	Calcium__	79900	_		P_	
7440-47-3	Chromium_	8.0	U		P_	
7440-48-4	Cobalt___	6.0	U		P_	
7440-50-8	Copper___	7.0	U		P_	
7439-89-6	Iron____	591	_		P_	
7439-92-1	Lead____	1.0	U	N	F_	
7439-95-4	Magnesium	34900	_		P_	
7439-96-5	Manganese	59.9	_		P_	
7439-97-6	Mercury__	0.20	U		CV	
7440-02-0	Nickel___	5.0	U		P_	
7440-09-7	Potassium	1180	B		P_	
7782-49-2	Selenium_	2.0	U	W UJ	F_	unk bias
7440-22-4	Silver___	4.0	U		P_	
7440-23-5	Sodium	14300	_	E J	P_	UNKNOWN BIAS
7440-28-0	Thallium_	1.0	U		F_	
7440-62-2	Vanadium_	3.0	U		P_	
7440-66-6	Zinc____	6.4	B		P_	
____	Cyanide_	5.0	U		AS	

Color Before: COLORLESS Clarity Before: CLOUDY Texture: __

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _

Comments:

FORM I - IN

7/88

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEGN14

Lab Name: NORTHERN LABORATORIES Contract: 68-D9-0153

Lab Code: NLE Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix (soil/water): WATER Lab Sample ID: MEGN14

Level (low/med): LOW Date Received: 01/09/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	409			P	
7440-36-0	Antimony	27.0	U		P	
7440-38-2	Arsenic	4.6	B		F	
7440-39-3	Barium	58.6	B		P	
7440-41-7	Beryllium	1.0	U		P	
7440-43-9	Cadmium	3.0	U		P	
7440-70-2	Calcium	84100			P	
7440-47-3	Chromium	8.0	U		P	
7440-48-4	Cobalt	6.0	U		P	
7440-50-8	Copper	7.0	U		P	
7439-89-6	Iron	593			P	
7439-92-1	Lead	1.0	U	WN UJ	F	unk bias
7439-95-4	Magnesium	35800			P	
7439-96-5	Manganese	67.1			P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	5.0	U		P	
7440-09-7	Potassium	1240	B		P	
7782-49-2	Selenium	2.0	U	W UJ	F	unk bias
7440-22-4	Silver	4.0	U		P	
7440-23-5	Sodium	14700		E J	P	UNKNOWN BIAS
7440-28-0	Thallium	1.0	U		F	
7440-62-2	Vanadium	3.0	U		P	
7440-66-6	Zinc	13.3	B		P	
	Cyanide	6.2			AS	

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEGN15

Lab Name: NORTHERN_LABORATORIES_____ Contract: 68-D9-0153

Lab Code: NLE____ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix (soil/water): WATER Lab Sam

Level (low/med): LOW___ Date Re

% Solids: ___0.0

MEGN 15 field blank

Concentration Units (ug/L or mg/kg dry weight

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum_	23.3	B	J	P_	High Bias
7440-36-0	Antimony_	27.0	U		P_	
7440-38-2	Arsenic__	2.0	U		F_	
7440-39-3	Barium___	6.0	U		P_	
7440-41-7	Beryllium	1.0	U		P_	
7440-43-9	Cadmium__	3.0	U		P_	
7440-70-2	Calcium__	86.5	B	J	P_	High Bias
7440-47-3	Chromium_	8.0	U		P_	
7440-48-4	Cobalt___	6.0	U		P_	
7440-50-8	Copper___	38.8	_		P_	
7439-89-6	Iron____	248	_		P_	
7439-92-1	Lead____	1.0	U	WN UJ	F_	unk bias
7439-95-4	Magnesium	29.0	U		P_	
7439-96-5	Manganese	6.0	B		P_	
7439-97-6	Mercury__	0.20	U		CV	
7440-02-0	Nickel___	5.0	U		P_	
7440-09-7	Potassium	102	U		P_	
7782-49-2	Selenium_	2.0	U	UJ	F_	
7440-22-4	Silver___	4.0	U		P_	
7440-23-5	Sodium___	160	B	E J	P_	UNKNOWN BIAS
7440-28-0	Thallium_	1.0	U		F_	
7440-62-2	Vanadium_	3.0	U		P_	
7440-66-6	Zinc____	13.2	B		P_	
	Cyanide__	5.0	U		AS	

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEGN16

Lab Name: NORTHERN LABORATORIES Contract: 68-D9-0153

Lab Code: NLE Case No.: 17661 SAS No.: SDG No.: MEGN12

Matrix (soil/water): SOIL Lab Sample ID: MEGN16

Level (low/med): LOW Date Received: 01/09/92

% Solids: 69.4

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

CAS No	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11900			P
7440-36-0	Antimony	7.0	U	N J	P
7440-38-2	Arsenic	5.9			F
7440-39-3	Barium	134			P
7440-41-7	Beryllium	0.88	B		P
7440-43-9	Cadmium	0.78	U		P
7440-70-2	Calcium	10700		*	P
7440-47-3	Chromium	15.2			P
7440-48-4	Cobalt	10.5	B		P
7440-50-8	Copper	21.6		*	P
7439-89-6	Iron	23600			P
7439-92-1	Lead	31.9			F
7439-95-4	Magnesium	2360		* J	P
7439-96-5	Manganese	822			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	17.7			P
7440-09-7	Potassium	1960		E J	P
7782-49-2	Selenium	0.65	B	W J	F
7440-22-4	Silver	1.0	U	N J	P
7440-23-5	Sodium	613	B	E J	P
7440-28-0	Thallium	0.62	B		F
7440-62-2	Vanadium	33.5			P
7440-66-6	Zinc	186			P
	Cyanide	0.99		*	AS

Unknown Bias

unknown Bias

UNK. B.

unknown Bias

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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7/87

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEGN17

Lab Name: NORTHERN_LABORATORIES_____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix (soil/water): SOIL_ Lab Sample ID: MEGN17 ___

Level (low/med): LOW__ Date Received: 01/09/92

% Solids: _70.8

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

CAS No	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7640			P
7440-36-0	Antimony	11.2	B	N J	P
7440-38-2	Arsenic	10.9			F
7440-39-3	Barium	93.7			P
7440-41-7	Beryllium	0.89	B		P
7440-43-9	Cadmium	0.83	U		P
7440-70-2	Calcium	33600		*	P
7440-47-3	Chromium	13.1			P
7440-48-4	Cobalt	5.5	B		P
7440-50-8	Copper	34.8		*	P
7439-89-6	Iron	22600			P
7439-92-1	Lead	66.2			F
7439-95-4	Magnesium	11000		* J	P
7439-96-5	Manganese	311			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	20.2			P
7440-09-7	Potassium	1530		E J	P
7782-49-2	Selenium	0.98	B	J	F
7440-22-4	Silver	1.1	U	N J	P
7440-23-5	Sodium	405	B	E J	P
7440-28-0	Thallium	0.71	B		F
7440-62-2	Vanadium	30.0			P
7440-66-6	Zinc	186			P
	Cyanide	1.3	U	*	AS

Unknown Bias

Unknown Bias

Unk. B.

Unknown Bias

Color Before: BLACK_ Clarity Before: _ Texture: COARSE

Color After: YELLOW_ Clarity After: _ Artifacts: _

Comments:

FORM I - IN

7/89

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEGN18

Lab Name: NORTHERN LABORATORIES Contract: 68-D9-0153

Lab Code: NLE Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix (soil/water): SOIL Lab Sample ID: MEGN18

Level (low/med): LOW Date Received: 01/09/92

% Solids: 78.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22800			P
7440-36-0	Antimony	6.4	U	N UJ	P
7440-38-2	Arsenic	12.0			F
7440-39-3	Barium	169			P
7440-41-7	Beryllium	0.71	B		P
7440-43-9	Cadmium	0.71	U		P
7440-70-2	Calcium	3170		*	P
7440-47-3	Chromium	23.2			P
7440-48-4	Cobalt	13.0			P
7440-50-8	Copper	25.8		*	P
7439-89-6	Iron	34600			P
7439-92-1	Lead	16.0			F
7439-95-4	Magnesium	4390		* J	P
7439-96-5	Manganese	568			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	24.6			P
7440-09-7	Potassium	2180		E J	P
7782-49-2	Selenium	0.49	U	W UJ	F
7440-22-4	Silver	0.94	U	N UJ	P
7440-23-5	Sodium	123	B	E J	P
7440-28-0	Thallium	0.52	B		F
7440-62-2	Vanadium	56.3			P
7440-66-6	Zinc	96.2			P
	Cyanide	1.1	U	*	AS

Unknown Bias

Unknown Bias

unk bias

Unknown Bias

Color Before: BROWN Clarity Before: _____ Texture: COARSE

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN

7/87

U.S EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEGN19

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix (soil/water): SOIL_ Lab Sample ID: MEGN19____

Level (low/med): LOW__ Date Received: 01/09/92

% Solids: _84.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9730			P
7440-36-0	Antimony	6.1	U	N UJ	P
7440-38-2	Arsenic	3.5		J	F
7440-39-3	Barium	92.8			P
7440-41-7	Beryllium	0.72	B		P
7440-43-9	Cadmium	0.67	U		P
7440-70-2	Calcium	30300		*	P
7440-47-3	Chromium	14.4			P
7440-48-4	Cobalt	5.5	B		P
7440-50-8	Copper	17.4		*	P
7439-89-6	Iron	18300			P
7439-92-1	Lead	12.1			F
7439-95-4	Magnesium	13700		* J	P
7439-96-5	Manganese	284			P
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	16.0			P
7440-09-7	Potassium	1830		E J	P
7782-49-2	Selenium	0.47	U	W UJ	F
7440-22-4	Silver	0.90	U	N UJ	P
7440-23-5	Sodium	510	B	E J	P
7440-28-0	Thallium	0.40	B		F
7440-62-2	Vanadium	23.0			P
7440-66-6	Zinc	78.0			P
	Cyanide	1.4	U	*	AS

High Bias

Unknown Bias

Unknown Bias

unk bias

Unknown Bias

Color Before: GREY Clarity Before: ___ Texture: COARSE

Color After: COLORLESS Clarity After: ____ Artifacts: _ _

Comments:

FORM I - IN

7/88

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEGN20

Lab Name: NORTHERN LABORATORIES Contract: 68-D9-0153

Lab Code: NLE Case No.: 17661 SAS No.: SDG No.: MEGN12

Matrix (soil/water): SOIL Lab Sample ID: MEGN20

Level (low/med): LOW Date Received: 01/09/92

% Solids: 72.2

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

CAS No	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14600			P
7440-36-0	Antimony	6.9	B	N J	P
7440-38-2	Arsenic	8.9		J	F
7440-39-3	Barium	166			P
7440-41-7	Beryllium	0.77	B		P
7440-43-9	Cadmium	0.72	U		P
7440-70-2	Calcium	54300		*	P
7440-47-3	Chromium	21.8			P
7440-48-4	Cobalt	10.1	B		P
7440-50-8	Copper	33.0		*	P
7439-89-6	Iron	29900			P
7439-92-1	Lead	26.5			F
7439-95-4	Magnesium	20500		* J	P
7439-96-5	Manganese	537			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	30.9			P
7440-09-7	Potassium	3160		E J	P
7782-49-2	Selenium	0.76	B	J	F
7440-22-4	Silver	0.96	U	N J	P
7440-23-5	Sodium	491	B	E J	P
7440-28-0	Thallium	0.64	B	W J	F
7440-62-2	Vanadium	30.9			P
7440-66-6	Zinc	122			P
	Cyanide	1.0	U	*	AS

High Bias

Unknown Bias

Unknown Bias
Unk. B.

Unknown Bias
Unk. B.

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

FORM I - IN

7/88

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3
BLANKS

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	22.0	U	22.0	U	32.4	B	22.0	U	22.0	U	P
Antimony	27.0	U	27.0	U	27.0	U	27.0	U	27.0	U	P
Arsenic	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	F
Barium	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	P
Cadmium	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	P
Calcium	22.0	U	22.0	U	22.0	U	26.3	B	45.3	B	P
Chromium	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	P
Cobalt	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	P
Copper	7.0	U	7.0	U	7.0	U	7.0	U	7.0	U	P
Iron	17.0	U	17.0	U	17.0	U	17.0	U	43.9	B	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	F
Magnesium	29.0	U	29.0	U	29.0	U	29.0	U	29.0	U	P
Manganese	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	P
Mercury	0.2	U	0.2	U	0.2	U			0.2	U	CV
Nickel	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	P
Potassium	102.0	U	103.1	B	102.0	U	102.0	U	102.0	U	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	F
Silver	4.0	U	4.0	U	4.0	U	4.0	U	-5.0	B	P
Sodium	22.0	U	22.0	U	22.0	U	22.0	U	181.4	B	P
Thallium	1.0	U	1.0	U					1.0	U	F
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	P
Zinc	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	P
Cyanide	10.0	U	10.0	U	10.0	U			5.0	U	AS

FORM III - IN

7/88

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3
BLANKS

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Preparation Blank Matrix (soil/water): SOIL_

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			23.3	B					24.629	B	P
Antimony									5.143	U	P
Arsenic			8.3	B					0.374	U	F
Barium			6.0	U					1.143	U	P
Beryllium			1.0	U					0.190	U	P
Cadmium			3.0	U					0.571	U	P
Calcium			27.6	B					175.390	B	P
Chromium			8.0	U					1.524	U	P
Cobalt			6.0	U					1.143	U	P
Copper			7.0	U					1.333	U	P
Iron			17.0	U					11.676	B	P
Lead			1.0	U	1.0	U	1.0	U	0.187	U	F
Magnesium			29.0	U					5.524	B	P
Manganese			2.0	U					0.381	U	P
Mercury									0.095	U	CV
Nickel			5.0	U					0.952	U	P
Potassium			102.0	U					19.429	U	P
Selenium			2.0	U					0.374	U	F
Silver			4.0	U					-0.952	B	P
Sodium			34.8	B					51.143	B	P
Thallium	1.0	U	1.0	U	1.0	U	1.0	U	0.187	U	F
Vanadium			3.0	U					0.571	U	P
Zinc			4.0	U					1.886	B	P
Cyanide	10.0	U	10.0	U					0.500	U	AS

U.S. EPA - CLP

3
BLANKS

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			1 0	U							F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEGN12S

Lab Name: NORTHERN_LABORATORIES____ Comtract:68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix: __WATER_____ Level (low/med): _LOW___

% Solids for Sample: __0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2261.0000		353.8000		2000.00	95.4		P
Antimony	75-125	450.6000		27.0000	U	500.00	90.1		P
Arsenic	75-125	38.5000		2.0000	~~B~~ U	40.00	96.3		F
Barium	75-125	2048.0000		59.5000	B	2000.00	99.4		P
Beryllium	75-125	46.9000		1.0000	U	50.00	93.8		P
Cadmium	75-125	47.6000		3.0000	U	50.00	95.2		P
Calcium									NR
Chromium	75-125	201.2000		8.0000	U	200.00	100.6		P
Cobalt	75-125	483.4000		6.0000	U	500.00	96.7		P
Copper	75-125	242.9000		7.0000	U	250.00	99.6		P
Iron	75-125	1575.0000		510.4000		1000.00	106.5		P
Lead	75-125	26.0200		1.0000	U	20.00	130.1	N	F
Magnesium									NR
Manganese	75-125	509.3000		59.5000		500.00	90.0		P
Mercury	75-125	1.0400		0.2000	U	1.00	104.0		CV
Nickel	75-125	479.1000		5.0000	U	500.00	95.8		P
Potassium									NR
Selenium	75-125	9.9600		2.0400	B	10.00	79.2		F
Silver	75-125	43.5000		4.0000	U	50.00	81.0		P
Sodium									NR
Thallium	75-125	40.7000		1.0000	U	50.00	81.4		F
Vanadium	75-125	512.6000		3.0000	U	500.00	102.5		P
Zinc	75-125	467.3000		20.1000		500.00	89.4		P
Cyanide	75-125	51.9160		7.0920		50.00	89.6		AS

3-2-92

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEGN16S

Lab Name: NORTHERN_LABORATORIES____ Contract:68-D9-0153

Lab Code: NLE___ Case No : 17661 SAS No.: _____ SDG No.: MEGN12

Matrix: __SOIL_____ Level (low/med): _LOW____

% Solids for Sample: _69.4

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	15.7242		5.8666		11.19	88.1		F
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead		37.7438		31.9319		5.60	103.8		F
Magnesium									NR
Manganese									NR
Mercury	75-125	0.5267		0.1310	U	0.50	105.3		CV
Nickel									NR
Potassium									NR
Selenium	75-125	0.0016		0.6458	P	2.80	92.4		F
Silver									NR
Sodium									NR
Thallium	75-125	11.7232		0.6175	B	13.99	79.4		F
Vanadium									NR
Zinc									NR
Cyanide	75-125	9.1303		0.9907		10.38	78.4		AS

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEGN17S

Lab Name: NORTHERN LABORATORIES Contract: 68-D9-0153

Lab Code: NLE Case No: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix: SOIL Level (low/med): LOW

% Solids for Sample: 70.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	57.1005		11.1610	B	137.13	33.5	N	P
Arsenic									NR
Barium	75-125	629.6967		93.6911		548.52	97.7		P
Beryllium	75-125	13.3015		0.8862	B	13.71	90.6		P
Cadmium	75-125	12.7804		0.8308	U	13.71	93.2		P
Calcium									NR
Chromium	75-125	66.2882		13.1273		54.85	96.9		P
Cobalt	75-125	135.5384		5.4559	B	137.13	94.9		P
Copper	75-125	95.2540		34.7845		68.56	94.0		P
Iron									NR
Lead									NR
Magnesium									NR
Manganese	75-125	429.2140		311.2884		137.13	86.0		P
Mercury									NR
Nickel	75-125	151.1711		20.2448		137.13	95.5		P
Potassium									NR
Selenium									NR
Silver	75-125	8.9134		1.1078	U	13.71	65.0	N	P
Sodium									NR
Thallium									NR
Vanadium	75-125	164.3080		30.0487		137.13	97.9		P
Zinc	75-125	298.9414		166.2191		137.13	82.2		P
Cyanide									NR

Comments:

FORM V (Part 1) - IN

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEGN17A

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

Matrix: ____SOIL_____ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum									NR
Antimony		175.40		40.30	B	120.0	112.6		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MEGN12D

Lab Name: NORTHERN LABORATORIES Contract: 68-D9-0153

Lab Code: NLE Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

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

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

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	353.8000		333.1000		6.0		P
Antimony		27.0000	U	27.0000	U			P
Arsenic		2.0000	~~B~~ U	2.0000	~~B~~ U			F
Barium		59.5000	B	59.5000	B	0.0		P
Beryllium		1.0000	U	1.0000	U			P
Cadmium		3.0000	U	3.0000	U			P
Calcium		82210.0000		83000.0000		1.0		P
Chromium		8.0000	U	8.0000	U			P
Cobalt		6.0000	U	6.0000	U			P
Copper		7.0000	U	7.0000	U			P
Iron	100.0	510.4000		476.1000		7.0		P
Lead		1.0000	U	1.0000	U			F
Magnesium		35880.0000		36260.0000		1.1		P
Manganese	15.0	59.5000		60.2000		1.2		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		8.0000	U	8.5000	B	200.0		P
Potassium		1286.0000	B	1107.0000	B	15.0		P
Selenium		2.0400	B	2.0000	U	200.0		F
Silver		4.0000	U	4.0000	U			P
Sodium	5000.0	15930.0000		16070.0000		0.9		P
Thallium		1.0000	U	1.0000	U			F
Vanadium		3.0000	U	3.0000	U			P
Zinc	20.0	20.1000		12.4000	B	47.4		P
Cyanide	5.0	7.0920		6.1630		14.0		AS

JS 3-2-92

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6
DUPLICATES

EPA SAMPLE NO.

MEGN16D

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No : 17661 SAS No.: _____ SDG No.: MEGN12

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _69.4 % Solids for Duplicate: __69.4

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic	2.6	5.8666		6.1917		5.4		F
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		31.9919		31.7146		0.7		F
Magnesium								NR
Manganese								NR
Mercury		0.1310	U	0.1201	U			CV
Nickel								NR
Potassium								NR
Selenium		0.6458	B	0.6791	B	5.0		F
Silver								NR
Sodium								NR
Thallium		0.6175	B	0.4879	B	23.4		F
Vanadium								NR
Zinc								NR
Cyanide	0.9	0.5907		1.1928	U	200.0	*	AS

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6
DUPLICATES

EPA SAMPLE NO.

MEGN17D

Lab Name: NORTHERN LABORATORIES Contract: 68-D9-0153

Lab Code: NLF Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

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

% Solids for Sample: 70.8 % Solids for Duplicate: 100.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		7643.7355		7275.3960		4.9		P
Antimony		11.1610	B	7.4776	U	200.0		P
Arsenic								NR
Barium	55.4	93.6911		85.5212		9.1		P
Beryllium		0.8862	B	0.6647	B	28.6		P
Cadmium		0.8308	U	0.8308	U			P
Calcium		33593.6635		25224.3270		28.5	*	P
Chromium	2.6	13.1273		11.7702		10.9		P
Cobalt		5.4559	B	6.2036	B	12.8		P
Copper		34.7845		45.5301		26.8	*	P
Iron		22604.4090		23745.4304		4.9		P
Lead								NR
Magnesium		10975.4071		7665.8912		35.5	*	P
Manganese		311.2884		352.8304		12.5		P
Mercury								NR
Nickel	11.1	20.2440		19.8571		1.9		P
Potassium	1384.7	1532.9013		1452.8636		5.4		P
Selenium								NR
Silver		1.1073	U	1.1078	U			P
Sodium		404.6195	B	381.0790	B	6.0		P
Thallium								NR
Vanadium	13.8	30.0487		25.6730		15.7		P
Zinc		186.2191		193.9736		4.1		P
Cyanide								NR

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10

Instrument Detection Limits (Quarterly)

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

ICP ID Number: JA_9000_____ Date: 01/15/92

Flame AA ID Number : _____

Furnace AA ID Number : PE_5100PC___

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	22.0	P
Antimony	206.83		60	27.0	P
Arsenic	193.70	BZ	10	2.0	F
Barium	493.41		200	6.0	P
Beryllium	313.04		5	1.0	P
Cadmium	226.50		5	3.0	P
Calcium	317.93		5000	22.0	P
Chromium	267.72		10	8.0	P
Cobalt	228.62		50	6.0	P
Copper	324.75		25	7.0	P
Iron	259.94		100	17.0	P
Lead			3		NR
Magnesium	279.08		5000	29.0	P
Manganese	257.61		15	2.0	P
Mercury			0.2		NR
Nickel	231.60		40	5.0	P
Potassium	766.49		5000	102.0	P
Selenium	196.00	BZ	5	2.0	F
Silver	328.07		10	4.0	P
Sodium	589.00		5000	22.0	P
Thallium			10		NR
Vanadium	292.40		50	3.0	P
Zinc	213.86		20	4.0	P

Comments:

FORM X - TN 7/83

U.S. EPA - CLP

10

Instrument Detection Limits (Quarterly)

Lab Name: NORTHERN_LABORATORIES____ Contract: 68-D9-0153

Lab Code: NLE___ Case No.: 17661 SAS No.: _____ SDG No.: MEGN12

ICP ID Number: _____ Date: 01/15/92

Flame AA ID Number : HG_20_____

Furnace AA ID Number : AA_400_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BZ	3	1.0	F
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium	276.80	BZ	10	1.0	F
Vanadium			50		NR
Zinc			20		NR

Comments:

FORM X - IN 7/86

Reviewed by J. G. 4/29/92
Final Review TH 7/15/92

Page 1 of 11

RECEIVED MAR 20 1992

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 3/16/92

SUBJECT: Review of Region V CLP Data
Received for Review on Feb 11, 1992

FROM: Charles T. Elly, Director(5SCRL) Patrick J. Chmiella for
Central Regional Laboratory

TO: Data User: B+V

We have reviewed the data for the following case(s).

SITE NAME: AE Staley (IL) SMO Case No. 17661

EPA Data Set No. _____ No. of Samples 11 DU/Activity Numbers 1

CRL No. _____

SMO Traffic No. ELA 50-51, 53-61

CLP Laboratory: WADSWORTH Hrs. for Review 25+2=27 wsw

Following are our findings:

See Attached Review - JJC

( ) Data are acceptable for use.
(✓) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt.Office
Edward Kantor, EMSL-Las Vegas

DATA QUALIFIERS

CONTRACTOR: WADSWORTH CASE 17661

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

This review covers eleven samples, six of which (ELA50, ELA51 and ELA53 through ELA56) are waters and five of which (ELA57 through ELA61) are soils, for complete organic analysis at low levels except for samples ELA50 and ELA51, which were analyzed for volatiles only.

The reviewer's narrative and data qualifiers follow.

Reviewed by: Al Venuto (Lockheed/ESAT

Date: 21 Feb. 1992 Hrs. Required for Review: 25

Case# 17661

WADSWORTH

1. Holding Times:

All water samples were analyzed for volatiles well within the fourteen day holding time from date of sampling for preserved waters. All soil samples were analyzed for volatiles within the seven day holding time for soils.

All samples were extracted for semi-volatiles and pesticides/-PCBs well within the seven and fourteen day holding times for waters and soils, respectively. All extracts were promptly analyzed.

2. GC/MS Tuning and GC Instrument Performance:

The GC tuning and mass calibration were all within the required Q.C. limits. All pesticide breakdown results were only a small percentage of the maximum permissible.

3. Calibration:

The calibration outliers for all fractions are listed on the outliers forms. There were no outliers in the water volatile fraction nor in either pesticide fraction, but the forms are included for reference. All RPDs in the pesticide calibration summaries were below the maximum permissible 25%.

4. Method Blanks:

Each of the four volatile method blanks contained only the common contaminant acetone, except for VBLK2, which was clean. All samples except ELA60 and ELA61 (both associated with VBLK3) also contained acetone.

The water semi-volatile method blank was found to contain the TCL compound 1,2-dichlorobenzene (but at a level only a small fraction of CRQL) plus a single TIC identified as 2-(2-ethoxyethoxy)-ethanol. Each of its associated samples also contained this TIC, but none contained 1,2-dichlorobenzene. The soil semi-volatile method blank contained no TCL compounds, but did contain four early eluting TICs, the first of which appeared at a relatively high concentration. All of the associated samples also contained this TIC, but the others were also found only in ELA57 and ELA59.

Neither of the two pesticide method blanks contained any TCL compounds.

5. Surrogate Recoveries:

All volatile and semi-volatile surrogate recoveries were well within the Q.C. limits.

For the water pesticide fraction, the recoveries of tetrachloro-m-xylene (TCX) on column 1 for samples ELA53, ELA53MS, ELA53MSD, ELA54 and ELA56 were below the minimum limit; likewise, the recoveries of decachlorobiphenyl on column 1 for ELA53MS and ELA54, and on column 2 for ELA53MS and ELA53MSD were slightly below the

Al Venuto
24 Feb. 1992

lower limit. For the soil pesticide fraction, the recoveries of TCX on column 1 for PBLKII, ELA57, ELA59 and ELA61 were slighlly below the lower limit. Inspection of the chromatograms revealed likely interferences, therefore no qualification is advised.

6. Matrix Spikes and Matrix Spike Duplicates:

All volatile MS and MSD recoveries and RPDs were well within the Q.C. limits except that for toluene in ELA58MS, which was slightly above the upper limit. Since toluene was not found in the unspiked sample, no action is recommended.

For the water semi-volatile fraction, all MS and MSD recoveries and RPDs were well within the Q.C. limits. For the soil semi-volatile fraction, all MS and MSD recoveries and RPDs were well within the Q.C. limits except for the recoveries of pyrene in both ELA58MS and ELA58MSD, both of which were well below the lower limit. Since pyrene was present in the unspiked sample, the result for pyrene in ELA58 should be considered J, estimated. J.G. TH

In the pesticide fraction, all MS and MSD recoveries and RPDs were within the Q.C. limits except for the recovery of DDT in ELA58MSD only, which was zero, therefore making the RPD above the limit. DDT was actually found on one of the two columns for this sample, therefore no action is recommended.

7. Field Duplicates and Field Blanks:

Samples ELA50 and ELA51 were identified as trip blanks; they were analyzed for volatiles only. Both contained acetone (also found in the associated method blank) and chloroform at substantial levels and methylene chloride at levels below CRQL. ELA50 alone contained chloromethane, and ELA51 alone contained butanone (both at levels below CRQL).

No samples in this case were identified as field duplicates.

8. Internal Standards Performance:

All IS areas for both volatile and semi-volatile fractions were generally well within the Q.C. limits.

9. Compound Identification:

All compound identifications appear to be satisfactory.

10. Compound Quantiation and Reported Detection Limits:

The correct limits were used and those for the soil samples were correctly adjusted for percent moisture.

11. System Performance:

All aspects of the system performance appear to be satisfactory except that in the volatile fraction a large peak was noted

Al Venuto
24 Feb. 1992

Case #17661

WADSWORTH

at the very beginning of each chromatogram. The results for chloromethane and vinyl chloride in each sample are therefore compromised and should be considered estimated, J or UJ, as above. J.G.

12. Additional Case-Specific Problems:

None noted.

Al Venuto (Lockheed/ESAT

24 Feb. 1992

CALIBRATION OUTLIER
VOLATILE TCL COMPOUNDS

CASE\SAS#: 17661 CONTRACTOR: WADSWORTH

Instrument#	FINN 50	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:	1-10-92	1-10-92 9:40			1-10-92 14:34			1-13-92 9:46								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01	3.60			4.85	34.5	J	4.55	26.2	J						
Bromomethane	0.10															
Vinyl chloride	0.10	3.38			4.34	28.4	J	4.15								
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01	.734	32.4	J	.862			1.07	45.6	J						
Carbon disulfide	0.01	2.67			3.07			3.34	25.1	J						
1,1-Dichloroethene	0.10	1.33			1.83	37.5	J	1.44								
1,1-Dichloroethane	0.20	1.93			2.39			2.60	34.4	J						
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01	.748			.924			1.07	42.8	J						
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropene																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01	.568			.731	28.7	J	.734	29.2	J						
2-Hexanone	0.01	.407			.551	35.4	J	.586	44.0	J						
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50	.932			1.08			1.17	26.0	J						
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene																
1,2-Dichloroethane-d4																

Samples affected:

VBLK3	VBLK4
ELA58MS	ELA57
ELA58MSD	ELA58
ELA60	ELA59
ELA61	

Reviewer's Init/Date: AV 2-19-92

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
VOLATILE TCL COMPOUNDS

CASE\SAS#: 17661

CONTRACTOR: WADSWORTH

Instrument# FINN52		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 1-10-92		1-10-92 7:45			1-13-92 7:50											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0 20															
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0 01															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropene																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0 30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0 50															
tran-1,3-Dichloropropene	0 10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0 01															
Tetrachloroethene	0 20															
1,1,2,2-Tetrachloroethane	0 50															
Toluene	0 40															
Chlorobenzene	0 50															
Ethylbenzene	0.10															
Styrene	0 30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene																
1,2-Dichloroethane-d4																

Samples affected:

VBLK1	VBLK2
ELA50	ELA53MS
ELA51	ELA53MSD
ELA53	ELA54
	ELA55
	ELA56

Reviewer's Init/Date: AV 2-19-92

* These flags should be applied to the analytes on the sample data sheets
# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 1)

CASE\SAS#: 17661 CONTRACTOR: WADSWORTH

Instrument# EXTR03		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 9-20-91		9-20-91 10:06			11-15-92 8:23			11-16-92 8:28								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01	1.01			1.25			.699	30.9	J						
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01	.429			.307	28.4	J	.309	28.0	J						
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01	.125			.064	48.8	J	.078	37.6	J						
4-Nitrophenol	0.01	.071			.097	36.6	J	.117	64.5	J						
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples: SBLK1, SBLK2, ELA61, ELA53 through ELA60, ELA53MS, ELA53MSD, ELA58MS, ELA58MSD

Reviewer's Init/Date: AV 2-19-92

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 2)

CASE\SAS#: 17661 CONTRACTOR: WADSWORTH

Instrument# EXTR03		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 9-20-91		9-22-91 10:06			1-15-92 8:23			1-16-92 8:28								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01	.189			.222			.277	46.6	J						
4,6-Dinitro-2-methylphenol	0.01	.12			.074	38.8	J	.080	33.9	J						
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10	.294			.211	28.2	J	.209	28.9	J						
Pentachlorophenol	0.05	.16			.103	36.0	J	.118	26.7	J						
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01		35.6	J												
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01	.548			.697	27.2	J	.713	30.1	J						
Di-n-octyl phthalate	0.01	.815			1.07	31.4	J	1.20	47.5	J						
Benzo(b)fluoranthene	0.70															
Benzo(k)fpuoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: AV 2-19-92

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 17661 **CONTRACTOR:** WADSWORTH

Column: RTX1701

Instrument#: HP5890XA	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time	11-22-92/1-23-92		11-25-92 3:54					
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								
Affected samples:	PBLK1; PBLK2 ELA53 through ELA57 ELA53MS ELA53MSD		ELA58 ELA58MS ELA58MSD ELA59 ELA60 ELA61					

Pest/PCB

Reviewer's Initial/Date AV 2-21-92

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 17661 **CONTRACTOR:** WADSWORTH

Column: RTX5

Instrument#: HP5890XB	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time	1-22-92/1-23-92		1-25-92 3:54					
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								
Affected samples:	PBLK1; PBLK2 ELA53 through ELA57 ELA53MS ELA53MSD		ELA58 ELA58MS ELA58MSD ELA59 ELA60 ELA61					

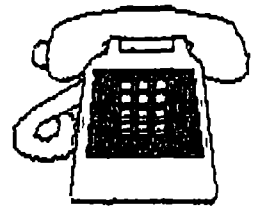
Pest/PCB

Reviewer's Initial/Date AV 2-21-92

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

WADSWORTH/ALERT
LABORATORIES, INC.
Sampling, testing, mobile labs
4101 Shuffel Drive N.W / North Canton, Ohio 44720



FAX IT!

WADSWORTH/ALERT LABORATORIES, INC.
4101 SHUFFEL DRIVE NW
NORTH CANTON, OHIO 44720

TELEPHONE NUMBER: 1-216-497-9396
TELEFAX NUMBER: 1-216-497-0772

If there is any problem with this transmittal, please call. Thank you.

TO: AL VENUTO **DATE:** 2-21-92

FROM: DENISE DEARMITT **RE:** CASE # 17661

TOTAL NUMBER OF PAGES FOLLOWING INCLUDING COVER SHEET: 8

COMMENTS: I have sent the corrected copies of SEMIVOL fraction ELA58MS and ELA58MSD. While correcting those sheets another error was detected on the surrogate for vs. IIC & IID. These also have been resubmitted. If you have any questions please call. Thanks.
Denise

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DATA REPORTING QUALIFIERS
(page 1)

For reporting results to EPA, the following result qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL), report the value.

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

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

and df = dilution factor

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

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

For soil samples subjected to GPC clean-up procedures, the extract must be concentrated to 0.5 ml, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume, this fact be accounted for in reporting the Sample Quantitation Limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit bur greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it is as 3J. The Sample Quantitation Limit must be adjusted for dilution as discussed for the U flag. The J flag is also applied to pesticide/Aroclor results where the pesticide/Aroclor is confirmed to be present but the concentration is less than the CRQL.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds. Where the identification is based on a mass spectral library search. It is applied to all TIC results.

DATA REPORTING QUALIFIERS
(page 2)

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

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

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

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for the specific analysis. This flag will not apply to pesticide/PCBs analyzed by GC/MS methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

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

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

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

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SDG NARRATIVE

This narrative pertains to case number 17661, which was completed by Wadsworth/ALERT Laboratories, Inc. under contract number 68-D1-0085. The following samples are associated with this case under SDG ELA 50:

EPA Sample Number	Date Sample Received
ELA 50	1/9/92
ELA 51	1/9/92
ELA 53	1/9/92
ELA 54	1/9/92
ELA 55	1/9/92
ELA 56	1/9/92
ELA 57	1/9/92
ELA 58	1/9/92
ELA 59	1/9/92
ELA 60	1/9/92
ELA 61	1/9/92

The following is a listing of the pH value for each volatile water sample as received by the laboratory:

Sample ID	pH
ELA 50	1.0
ELA 51	1.0
ELA 53	1.0
ELA 54	1.0
ELA 55	1.0
ELA 56	1.0

During the volatile of this case, surrogate standards were used on instrument Incos 50 on 1/10/92 and 1/13/92. This was done to minimize the interference caused by the standard compounds contained in the associated continuing calibration.

During the semivolatile analysis of samples ELA 58MS and ELA 58MSD, more pyrene was detected in the sample than in the MS/MSD samples. As a result, the form 3 contains a "0" for pyrene since the CLP software cannot determine negative numbers.

During the pesticides/PCB analysis of sample ELA 58 MSD, 4-4'-DDT was not detected on column XA due to a probable co-elution with a matrix peak. Column XB did detect the 4-4'-DDT at 20 ug/kg which was within limits. Column A results were entered on form 3F for ELA 58MSD, and therefore no result was entered for 4-4'DDT.

Tetrachloro-m-xylene recoveries were low for samples ELA 57, ELA 59 and ELA 61 due to matrix interference.

No DCB surrogate recovery or retention time is listed for sample ELA 54 on column XA, since the data system did not identify the peak. The DCB peak was, however detected on column XB.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Ron Gibas

Ron Gibas
CLP Manager
February 10, 1992

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	ELA50	100.0	102.0	92.0		0
02	ELA51	102.0	104.0	94.0		0
03	ELA53	100.0	102.0	94.0		0
04	ELA53MS	98.0	94.0	92.0		0
05	ELA53MSD	98.0	94.0	92.0		0
06	ELA54	102.0	98.0	86.0		0
07	ELA55	106.0	102.0	88.0		0
08	ELA56	106.0	104.0	86.0		0
09	VBLK1	100.0	96.0	90.0		0
10	VBLK2	102.0	96.0	92.0		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

000005

FORM II VOA-1 3/90

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	ELA57	102.0	82.0	74.0		0
02	ELA58	118.0	82.0	98.0		0
03	ELA58MS	115.0	62.0	95.0		0
04	ELA58MSD	113.0	64.0	98.0		0
05	ELA59	100.0	92.0	87.0		0
06	ELA60	116.0	73.0	104.0		0
07	ELA61	110.0	78.0	95.0		0
08	VBLK3	102.0	80.0	108.0		0
09	VBLK4	100.0	98.0	94.0		0
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1.2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

000006

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix Spike - EPA Sample No.: ELA53

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1.1-Dichloroethene	50.00	0.000	55.000	110	61-145
Trichloroethene	50.00	0.000	51.000	102	71-120
Benzene	50.00	0.000	50.000	100	76-127
Toluene	50.00	0.000	50.000	100	76-125
Chlorobenzene	50.00	0.000	51.000	102	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1.1-Dichloroethene	50.00	58.000	116	5	14	61-145
Trichloroethene	50.00	54.000	108	6	14	71-120
Benzene	50.00	53.000	106	6	11	76-127
Toluene	50.00	51.000	102	2	13	76-125
Chlorobenzene	50.00	52.000	104	2	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

000007

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix Spike - EPA Sample No.: ELA58 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	60.98	0.000	48.000	79	59-172
Trichloroethene	60.98	0.000	61.000	100	62-137
Benzene	60.98	0.000	64.000	105	66-142
Toluene	60.98	0.000	87.000	143*	59-139
Chlorobenzene	60.98	0.000	63.000	103	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	60.98	43.000	71	11	22	59-172
Trichloroethene	60.98	57.000	93	7	24	62-137
Benzene	60.98	60.000	98	7	21	66-142
Toluene	60.98	83.000	136	5	21	59-139
Chlorobenzene	60.98	61.000	100	3	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS:

000008

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Lab File ID:VOL9448 Lab Sample ID:VBLK1

Date Analyzed: 1/10/92 Time Analyzed:1116

GC Column:DB624 ID: 0.56 (mm) Heated Purge: (Y/N) N

Instrument ID:FINN52

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ELA50	38267 60 SH 1-10-92	VOL9460	1749
02	ELA51	38268	VOL9462	1857
03	ELA53	38267	VOL9461	1823
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COMMENTS:

000009

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Lab File ID:VOL9480 Lab Sample ID:VBLK2

Date Analyzed: 1/13/92 Time Analyzed:0913

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:FINN52

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ELA53MS	38267	VOL9482	1018
02	ELA53MSD	38267	VOL9483	1056
03	ELA54	38269	VOL9481	0947
04	ELA55	38270	VOL9484	1130
05	ELA56	38271	VOL9485	1204
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COMMENTS:

000001

RG 2/5/92

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Lab File ID:VOI1882 Lab Sample ID:VBLK3

Date Analyzed: 1/10/92 Time Analyzed:1613

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

Instrument ID:FINN50

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ELA58MS	38274	VOI1887	1931
02	ELA58MSD	38274	VOI1888	2010
03	ELA60	38277	VOI1890	2127
04	ELA61	38278	VOI1891	2206
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COMMENTS:

000020

R6 2/5/92

FORM IV VOA 3/90

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Lab File ID:VOI1901 Lab Sample ID:VBLK4

Date Analyzed: 1/13/92 Time Analyzed:1228

GC Column:RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) ~~N~~ Y 1-27-92 SA

Instrument ID:FINN50

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ELA57	38273	VOI1907	1622
02	ELA58	38274	VOI1902	1311
03	ELA59	38275	VOI1908	1700
04				
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COMMENTS:

000012

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:VBLK1

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9448

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

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:DB624 ID: 0.56 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

000136

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK1

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:VBLK1

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9448

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

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:DB624 ID: 0.56 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:VBLK2

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9480

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

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

000-00

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:VBLK2

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9480

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

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK3

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:VBLK3

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1882

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

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

000133

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK3

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:VBLK3

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1882

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

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.					
2.					
3.					
4.					
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7.					
8.					
9.					
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000204

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK4

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:VBLK4

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1901

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

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

u.b. = unknown bias

000205

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK4

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:VBLK4

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1901

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

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.					
2.					
3.					
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000206

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA50

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38266

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9460

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

000022

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA50

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38266

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9460

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.					
2.					
3.					
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000023

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA51

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38268

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9462

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q	
74-87-3	Chloromethane	10.	U J	u.b.
74-83-9	Bromomethane	10.	U	
75-01-4	Vinyl Chloride	10.	U J	u.b
75-00-3	Chloroethane	10.	U	
75-09-2	Methylene Chloride	4.	J	Unk Bias
67-64-1	Acetone	22.	~~B~~ U J	u.b.
75-15-0	Carbon Disulfide	10.	U	1-19-92
75-35-4	1,1-Dichloroethene	10.	U	
75-34-3	1,1-Dichloroethane	10.	U	
540-59-0	1,2-Dichloroethene (total)	10.	U	
67-66-3	Chloroform	19.		
107-06-2	1,2-Dichloroethane	10.	U	
78-93-3	2-Butanone	6.	J	Unk Bias
71-55-6	1,1,1-Trichloroethane	10.	U	
56-23-5	Carbon Tetrachloride	10.	U	
75-27-4	Bromodichloromethane	10.	U	
78-87-5	1,2-Dichloropropane	10.	U	
10061-01-5	cis-1,3-Dichloropropene	10.	U	
79-01-6	Trichloroethene	10.	U	
124-48-1	Dibromochloromethane	10.	U	
79-00-5	1,1,2-Trichloroethane	10.	U	
71-43-2	Benzene	10.	U	
10061-02-6	trans-1,3-Dichloropropene	10.	U	
75-25-2	Bromoform	10.	U	
108-10-1	4-Methyl-2-Pentanone	10.	U	
591-78-6	2-Hexanone	10.	U	
127-18-4	Tetrachloroethene	10.	U	
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	
108-88-3	Toluene	10.	U	
108-90-7	Chlorobenzene	10.	U	
100-41-4	Ethylbenzene	10.	U	
100-42-5	Styrene	10.	U	
1330-20-7	Xylene (total)	10.	U	

000055

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA51

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38268

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9462

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.				
2.				
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000356

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA53

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38267

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9461

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q	
74-87-3	Chloromethane	10.	UJ	u.b.
74-83-9	Bromomethane	10.	U	
75-01-4	Vinyl Chloride	10.	UJ	u.b.
75-00-3	Chloroethane	10.	U	
75-09-2	Methylene Chloride	10.	U	
67-64-1	Acetone	10 ~~8~~.	U ~~JB~~ J	unc.b.
75-15-0	Carbon Disulfide	10.	U	
75-35-4	1.1-Dichloroethene	10.	U	AV
75-34-3	1.1-Dichloroethane	10.	U	
540-59-0	1.2-Dichloroethene (total)	10.	U	1-11-92
67-66-3	Chloroform	10.	U	
107-06-2	1.2-Dichloroethane	10.	U	
78-93-3	2-Butanone	10.	U	
71-55-6	1.1.1-Trichloroethane	10.	U	
56-23-5	Carbon Tetrachloride	10.	U	
75-27-4	Bromodichloromethane	10.	U	
78-87-5	1.2-Dichloropropane	10.	U	
10061-01-5	cis-1.3-Dichloropropene	10.	U	
79-01-6	Trichloroethene	10.	U	
124-48-1	Dibromochloromethane	10.	U	
79-00-5	1.1.2-Trichloroethane	10.	U	
71-43-2	Benzene	10.	U	
10061-02-6	trans-1,3-Dichloropropene	10.	U	
75-25-2	Bromoform	10.	U	
108-10-1	4-Methyl-2-Pentanone	10.	U	
591-78-6	2-Hexanone	10.	U	
127-18-4	Tetrachloroethene	10.	U	
79-34-5	1,1,2.2-Tetrachloroethane	10.	U	
108-88-3	Toluene	10.	U	
108-90-7	Chlorobenzene	10.	U	
100-41-4	Ethylbenzene	10.	U	
100-42-5	Styrene	10.	U	
1330-20-7	Xylene (total)	10.	U	

000048

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA53

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38267

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9461

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/10/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.					
2.					
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000043

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA54

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38269

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9481

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA54

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38269

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9481

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.					
2.					
3.					
4.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA55

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38270

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9484

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

000066

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA55

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38270

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9484

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA56

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38271

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9485

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q
74-87-3	Chloromethane	3.	J unk. B
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U J u.b.
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	8.	J unk blas
67-64-1	Acetone	22.	J unk b
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U
67-66-3	Chloroform	18.	
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

000075

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA56

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38271

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: VOL9485

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 0 Date Analyzed: 1/13/92

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA57

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38273

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1907

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 20 Date Analyzed: 1/13/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	12.	U J	u.b.
74-83-9	Bromomethane	12.	U	
75-01-4	Vinyl Chloride	12.	U J	u.b.
75-00-3	Chloroethane	12.	U	
75-09-2	Methylene Chloride	12.	U	
67-64-1	Acetone	~~8.~~	~~U J B~~ J	u.b.
75-15-0	Carbon Disulfide	12.	U J	u.b.
75-35-4	1,1-Dichloroethene	12.	U	
75-34-3	1,1-Dichloroethane	12.	U J	u.b
540-59-0	1,2-Dichloroethene (total)	12.	U	
67-66-3	Chloroform	12.	U	
107-06-2	1,2-Dichloroethane	12.	U	
78-93-3	2-Butanone	12.	U J	u.b
71-55-6	1,1,1-Trichloroethane	12.	U	
56-23-5	Carbon Tetrachloride	12.	U	
75-27-4	Bromodichloromethane	12.	U	
78-87-5	1,2-Dichloropropane	12.	U	
10061-01-5	cis-1,3-Dichloropropene	12.	U	
79-01-6	Trichloroethene	12.	U	
124-48-1	Dibromochloromethane	12.	U	
79-00-5	1,1,2-Trichloroethane	12.	U	
71-43-2	Benzene	12.	U	
10061-02-6	trans-1.3-Dichloropropene	12.	U	
75-25-2	Bromoform	12.	U	
108-10-1	4-Methyl-2-Pentanone	12.	U J	u.b
591-78-6	2-Hexanone	12.	U J	u.b
127-18-4	Tetrachloroethene	12.	U	
79-34-5	1,1,2,2-Tetrachloroethane	12.	U J	u.b
108-88-3	Toluene	3.	J	unk bias
108-90-7	Chlorobenzene	12.	U	
100-41-4	Ethylbenzene	12.	U	
100-42-5	Styrene	12.	U	
1330-20-7	Xylene (total)	12.	U	

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA57

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38273

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1907

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 20 Date Analyzed: 1/13/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA58

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38274

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1902

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 18 Date Analyzed: 1/13/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA58

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38274

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1902

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 18 Date Analyzed: 1/13/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
BF 2-742
E
ELA59

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38275

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1908

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 21 Date Analyzed: 1/13/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

000104

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA59

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38275

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1908

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 21 Date Analyzed: 1/13/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA60

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38277

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1890

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 15 Date Analyzed: 1/10/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

000111

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA60

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38277

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1890

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 15 Date Analyzed: 1/10/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA61

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38278

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1891

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 26 Date Analyzed: 1/10/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

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

bias?

000115

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA61

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38278

Sample wt/vol: 5.00 (g/ml) G Lab File ID: VOI1891

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: not dec. 26 Date Analyzed: 1/10/92

GC Column:RTX502.2 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 0.00 (uL) Soil Aliquot Volume: 0.00(uL)

Number TICs Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
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000227

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

	EPA SAMPLE NO.	SMC1 (NBZ)#	SMC2 (FBP)#	SMC3 (TPH)#	SMC4 (PHL)#	SMC5 (2FP)#	SMC6 (TBP)#	SMC7 (2CP)#	SMC8 (DCB)#	TOT OUT
01	ELA53	68.0	65.0	71.0	72.0	68.0	85.0	86.0	64.0	0
02	ELA53MS	67.3	64.0	50.0	68.0	67.0	89.0	81.0	60.0	0
03	ELA53MSD	67.0	64.0	50.0	68.0	67.0	89.0	81.0	60.0	0
04	ELA54	65.0	64.0	78.0	70.0	66.0	85.0	81.0	60.0	0
05	ELA55	66.0	66.0	75.0	70.0	67.0	84.0	80.0	63.0	0
06	ELA56	69.0	65.0	76.0	72.0	70.0	88.0	86.0	64.0	0
07	SBLK1	75.0	67.0	85.0	77.0	74.0	91.0	89.0	67.0	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2=Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

000228

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (NBZ)#	SMC2 (FBP)#	SMC3 (TPH)#	SMC4 (PHL)#	SMC5 (2FP)#	SMC6 (TBP)#	SMC7 (2CP)#	SMC8 (DCB)#	TOT OUT
01	ELA57	40.0	42.0	37.0	45.0	42.0	61.0	50.0	38.0	0
02	ELA58	52.0	59.0	50.0	60.0	55.0	75.0	67.0	47.0	0
03	ELA58MS	55.0	63.0	51.0	63.0	59.0	69.0	74.0	54.0	0
04	ELA58MSD	47.0	58.0	63.0	56.0	53.0	67.0	64.0	46.0	0
05	ELA59	42.0	44.0*	60.0	45.0	45.0	68.0	52.0	40.0	1
06	ELA60	50.0	55.0	40.0	57.0	57.0	75.0	65.0	48.0	0
07	ELA61	60.0	62.0	49.0	64.0	63.0	80.0	75.0	55.0	0
08	SBLK2	49.0	48.0	67.0	52.0	52.0	62.0	61.0	47.0	0
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An asterisk was placed beside the value for the recovery of 2-fluorobiphenyl in ELA59; it was, in fact, within the Q.C. limits. AV 2-21-91

			QC LIMITS	
S1 (NBZ)	=	Nitrobenzene-d5	(23-120)	
S2 (FBP)	=	2-Fluorobiphenyl	(30-115)	
S3 (TPH)	=	Terphenyl-d14	(18-137)	
S4 (PHL)	=	Phenol-d5	(24-113)	
S5 (2FP)	=	2-Fluorophenol	(25-121)	
S6 (TBP)	=	2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	=	2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	=	1,2=Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

000229

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix Spike - EPA Sample No.: ELA53

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75.00	0.000	40.000	53	12-110
2-Chlorophenol	75.00	0.000	40.000	53	27-123
1,4-Dichlorobenzene	50.00	0.000	27.000	54	36- 97
N-Nitroso-di-n-prop.(1)	50.00	0.000	32.000	64	41-116
1,2,4-Trichlorobenzene	50.00	0.000	31.000	62	39- 98
4-Chloro-3-methylphenol	75.00	0.000	44.000	59	23- 97
Acenaphthene	50.00	0.000	30.000	60	46-118
4-Nitrophenol	75.00	0.000	43.000	57	10- 80
2,4-Dinitrotoluene	50.00	0.000	30.000	60	24- 96
Pentachlorophenol	75.00	0.000	55.000	73	9-103
Pyrene	50.00	0.000	31.000	62	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC =	% RPD =	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	44.000	59	11	42	12-110
2-Chlorophenol	75.00	43.000	57	7	40	27-123
1,4-Dichlorobenzene	50.00	26.000	52	4	28	36- 97
N-Nitroso-di-n-prop.(1)	50.00	32.000	64	0	38	41-116
1,2,4-Trichlorobenzene	50.00	30.000	60	3	28	39- 98
4-Chloro-3-methylphenol	75.00	46.000	61	3	42	23- 97
Acenaphthene	50.00	31.000	62	3	31	46-118
4-Nitrophenol	75.00	44.000	59	3	50	10- 80
2,4-Dinitrotoluene	50.00	33.000	66	10	38	24- 96
Pentachlorophenol	75.00	60.000	80	9	50	9-103
Pyrene	50.00	32.000	64	3	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS:

000250

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix Spike - EPA Sample No.: ELA58 Level: (low/med)

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3000.00	0.000	1700.000	57	26- 90
2-Chlorophenol	3000.00	0.000	1600.000	53	25-102
1,4-Dichlorobenzene	2100.00	0.000	990.000	47	28-104
N-Nitroso-di-n-prop.(1)	2100.00	0.000	1200.000	57	41-126
1,2,4-Trichlorobenzene	2100.00	0.000	1000.000	48	38-107
4-Chloro-3-methylphenol	3000.00	0.000	1800.000	60	26-103
Acenaphthene	2100.00	290.000	1300.000	48	31-137
4-Nitrophenol	3000.00	0.000	1800.000	60	11-114
2,4-Dinitrotoluene	2100.00	0.000	1100.000	52	28- 89
Pentachlorophenol	3000.00	0.000	2000.000	67	17-109
Pyrene	2100.00	2500.000	2700.000	~~10*~~ 10*	35-142

TT 2/21/92 AV 2-21-92

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3000.00	1500.000	50	13	35	26- 90
2-Chlorophenol	3000.00	1400.000	47	12	50	25-102
1,4-Dichlorobenzene	2100.00	870.000	41	14	27	28-104
N-Nitroso-di-n-prop.(1)	2100.00	1100.000	52	9	38	41-126
1,2,4-Trichlorobenzene	2100.00	900.000	43	11	23	38-107
4-Chloro-3-methylphenol	3000.00	1700.000	57	5	33	26-103
Acenaphthene	2100.07	1200.000	43	11	19	31-137
4-Nitrophenol	3000.00	2000.000	67	11	50	11-114
2,4-Dinitrotoluene	2100.00	1200.000	57	9	47	28- 89
Pentachlorophenol	3000.00	2000.000	67	0	47	17-109
Pyrene	2100.00	2300.000	0* ~~10*~~	200* 0	36	35-142

TT 2/21/92 AV 2-21-92

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

COMMENTS:

000231

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Lab File ID:SBLK1 Lab Sample ID:91109

Instrument ID:EXTR03 Date Extracted: 1/09/92

Matrix: (soil/water) WATER Date Analyzed: 1/15/92

Level:(low/med) LOW Time Analyzed: 0859

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ELA53	38267	ELA53	0946
02	ELA53MS	38267MS	ELA53MS	1024
03	ELA53MSD	38267MSD	ELA53MSD	1119
04	ELA54	38269	ELA54	1152
05	ELA55	38270	ELA55	1227
06	ELA56	38271	ELA56	1303
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COMMENTS:

000232

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Lab File ID:SBLK2 Lab Sample ID:91116

Instrument ID:EXTR03 Date Extracted: 1/10/92

Matrix: (soil/water) SOIL Date Analyzed: 1/15/92

Level:(low/med) LOW Time Analyzed: 1339

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ELA57	38273	ELA57	1415
02	ELA58	38274	ELA58	1447
03	ELA58MS	38274MS	ELA58MS	1523
04	ELA58MSD	38274MSD	ELA58MSD	1558
05	ELA59	38275	ELA59	1634
06	ELA60	38277	ELA60	1710
07	ELA61	38278	ELA61R	0913
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COMMENTS:

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:91109

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: SBLK1

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

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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
10604-60-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	1.	J
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
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 J
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:91109

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: SBLK1

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

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q	
51-28-5	2,4-Dinitrophenol	25.	U J	ub
100-02-7	4-Nitrophenol	25.	U J	ub
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	25.	U	
534-52-1	4,6-Dinitro-2-methylphenol	25.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	10.	U	
101-55-3	4-Bromophenyl-phenylether	10.	U	
118-74-1	Hexachlorobenzene	10.	U J	ub
87-86-5	Pentachlorophenol	25.	U J	ub
85-01-8	Phenanthrene	10.	U	
120-12-7	Anthracene	10.	U	
86-74-8	Carbazole	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	10.	U J	ub
56-55-3	Benzo(a)anthracene	10.	U	
218-01-9	Chrysene	10.	U	
117-81-7	bis(2-ethylhexyl)phthalate	10.	U J	ub
117-84-0	Di-n-Octylphthalate	10.	U J	ub
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

000332

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) WATER Lab Sample ID: 91109

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: SBLK1

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

% Moisture: 0 decanted: (Y/N) N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs Found: 0 | KH 1-29-92

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

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q	
1. 111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.6	13.	JN	unk bias
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:91116

Sample wt/vol: 30.00 (g/ml) G Lab File ID: SBLK2

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

% Moisture: 0 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(2-chloroethyl)ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
10604-60-7	1,4-Dichlorobenzene	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
111-91-1	bis(2-chloroethoxy)methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U J
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	800.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	800.	U
131-11-3	Dimethylphthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
99-09-2	3-Nitroaniline	800.	U
83-32-9	Acenaphthene	330.	U

ubl

000374

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:91116

Sample wt/vol: 30.00 (g/ml) G Lab File ID: SBLK2

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

% Moisture: 0 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	800.	U J	ub
100-02-7	4-Nitrophenol	800.	U J	ub
132-64-9	Dibenzofuran	330.	U	
121-14-2	2,4-Dinitrotoluene	330.	U	
84-66-2	Diethylphthalate	330.	U	
7005-72-3	4-Chlorophenyl-phenylether	330.	U	
86-73-7	Fluorene	330.	U	
100-01-6	4-Nitroaniline	800.	U	
534-52-1	4,6-Dinitro-2-methylphenol	800.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	330.	U	
101-55-3	4-Bromophenyl-phenylether	330.	U	
118-74-1	Hexachlorobenzene	330.	U J	ub
87-86-5	Pentachlorophenol	800.	U J	ub
85-01-8	Phenanthrene	330.	U	
120-12-7	Anthracene	330.	U	
86-74-8	Carbazole	330.	U	
84-74-2	Di-n-butylphthalate	330.	U	
206-44-0	Fluoranthene	330.	U	
129-00-0	Pyrene	330.	U	
85-68-7	Butylbenzylphthalate	330.	U	
91-94-1	3,3'-Dichlorobenzidine	330.	U J	ub
56-55-3	Benzo(a)anthracene	330.	U	
218-01-9	Chrysene	330.	U	
117-81-7	bis(2-ethylhexyl)phthalate	330.	U J	ub
117-84-0	Di-n-Octylphthalate	330.	U J	ub
205-99-2	Benzo(b)fluoranthene	330.	U	
207-08-9	Benzo(k)fluoranthene	330.	U	
50-32-8	Benzo(a)pyrene	330.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U	
53-70-3	Dibenz(a,h)anthracene	330.	U	
191-24-2	Benzo(g,h,i)perylene	330.	U	

(1) - Cannot be separated from Diphenylamine

003575

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK2

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) SOIL Lab Sample ID: 91116

Sample wt/vol: 30.00 (g/ml) G Lab File ID: SBLK2

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

% Moisture: 0 decanted: (Y/N) N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs Found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.		Aldol Condensation Product	3.5	24000.	JA
2.		Aldol Condensation Product	4.3	180.	JA
3.		Unknown	4.8	92.	J
4.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.6	160.	JN
5.					
6.					
7.					
8.					
9.					
10.					
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Unk bias
unk bias

000076

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA53

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38267

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA53

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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
10604-60-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
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 J ub
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

000241

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA53

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38267

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA53

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q	
51-28-5	2,4-Dinitrophenol	25.	U J	ub
100-02-7	4-Nitrophenol	25.	U J	ub
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	25.	U	
534-52-1	4,6-Dinitro-2-methylphenol	25.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	10.	U	
101-55-3	4-Bromophenyl-phenylether	10.	U	
118-74-1	Hexachlorobenzene	10.	U J	ub
87-86-5	Pentachlorophenol	25.	U J	ub
85-01-8	Phenanthrene	10.	U	
120-12-7	Anthracene	10.	U	
86-74-8	Carbazole	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	10.	U J	ub
56-55-3	Benzo(a)anthracene	10.	U	
218-01-9	Chrysene	10.	U	
117-81-7	bis(2-ethylhexyl)phthalate	10.	U J	ub
117-84-0	Di-n-Octylphthalate	10.	U J	ub
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

000242

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA53

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) WATER Lab Sample ID: 38267

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA53

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.7	17.	~~JNB~~ U
2.					
3.					
4.					
5.					
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30.					

000243

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA54

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38269

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA54

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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
10604-60-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
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 J ab
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

000253

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA54

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38269

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA54

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q	
51-28-5	2,4-Dinitrophenol	25.	U J	ub
100-02-7	4-Nitrophenol	25.	U J	ub
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	25.	U	
534-52-1	4,6-Dinitro-2-methylphenol	25.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	10.	U	
101-55-3	4-Bromophenyl-phenylether	10.	U	
118-74-1	Hexachlorobenzene	10.	U J	ub
87-86-5	Pentachlorophenol	25.	U J	ub
85-01-8	Phenanthrene	10.	U	
120-12-7	Anthracene	10.	U	
86-74-8	Carbazole	10.	U	
84-74-2	Di-n-butylphthalate	1.	J	unk bias
206-44-0	Fluoranthene	10.	U	
129-00-0	Pyrene	10.	U	
85-68-7	Butylbenzylphthalate	10.	U	
91-94-1	3,3'-Dichlorobenzidine	10.	U J	ub
56-55-3	Benzo(a)anthracene	10.	U	
218-01-9	Chrysene	10.	U	
117-81-7	bis(2-ethylhexyl)phthalate	10.	U J	ub
117-84-0	Di-n-Octylphthalate	10.	U J	ub
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

00025

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA54

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) WATER Lab Sample ID: 38269

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA54

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.7	17.	~~JNB~~ V
2.					
3.					AV
4.					
5.					
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA55

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38270

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA55

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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
10604-60-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
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 J
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA55

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38270

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA55

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q	
51-28-5	2,4-Dinitrophenol	25.	U J	ub
100-02-7	4-Nitrophenol	25.	U J	ub
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	25.	U	
534-52-1	4,6-Dinitro-2-methylphenol	25.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	10.	U	
101-55-3	4-Bromophenyl-phenylether	10.	U	
118-74-1	Hexachlorobenzene	10.	U J	ub
87-86-5	Pentachlorophenol	25.	U J	ub
85-01-8	Phenanthrene	10.	U	
120-12-7	Anthracene	10.	U	
86-74-8	Carbazole	10.	U	
84-74-2	Di-n-butylphthalate	1.	J	unk bias
206-44-0	Fluoranthene	10.	U	
129-00-0	Pyrene	10.	U	
85-68-7	Butylbenzylphthalate	10.	U	
91-94-1	3,3'-Dichlorobenzidine	10.	U J	ub 7/
56-55-3	Benzo(a)anthracene	10.	U	
218-01-9	Chrysene	10.	U	
117-81-7	bis(2-ethylhexyl)phthalate	10.	U J	ub
117-84-0	Di-n-Octylphthalate	10.	U J	ub
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

000067

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA55

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) WATER Lab Sample ID: 38270

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA55

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.7	17.	JNB ✓
2.					
3.					
4.					
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA56

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38271

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA56

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

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
10604-60-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
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 J ub
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA56

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38271

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA56

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L_	Q	
51-28-5	2,4-Dinitrophenol	25.	U J	ub
100-02-7	4-Nitrophenol	25.	U J	ub
132-64-9	Dibenzofuran	10.	U	
121-14-2	2,4-Dinitrotoluene	10.	U	
84-66-2	Diethylphthalate	2.	J	unk bias
7005-72-3	4-Chlorophenyl-phenylether	10.	U	
86-73-7	Fluorene	10.	U	
100-01-6	4-Nitroaniline	25.	U	
534-52-1	4,6-Dinitro-2-methylphenol	25.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	10.	U	
101-55-3	4-Bromophenyl-phenylether	10.	U	
118-74-1	Hexachlorobenzene	10.	U J	ub
87-86-5	Pentachlorophenol	25.	U J	ub
85-01-8	Phenanthrene	10.	U	
120-12-7	Anthracene	10.	U	
86-74-8	Carbazole	10.	U	
84-74-2	Di-n-butylphthalate	1.	J	unk bias
206-44-0	Fluoranthene	10.	U	
129-00-0	Pyrene	10.	U	
85-68-7	Butylbenzylphthalate	10.	U	
91-94-1	3,3'-Dichlorobenzidine	10.	U J	ub
56-55-3	Benzo(a)anthracene	10.	U	
218-01-9	Chrysene	10.	U	
117-81-7	bis(2-ethylhexyl)phthalate	10.	U J	ub
117-84-0	Di-n-Octylphthalate	10.	U J	ub
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.

ELA56

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) WATER Lab Sample ID:38271

Sample wt/vol: 1000.00 (g/ml) ML Lab File ID: ELA56

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 1/09/92

Concentrated Extract Volume: 1000.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

Number TICs Found: 1 ~~0~~ KH 1.29.92

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.7	23.	~~JNB~~ U
2.					
3.					AV
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1B.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA57

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38273

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA57

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 20 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410.	U
111-44-4	bis(2-chloroethyl)ether	410.	U
95-57-8	2-Chlorophenol	410.	U
541-73-1	1,3-Dichlorobenzene	410.	U
10604-60-7	1,4-Dichlorobenzene	410.	U
95-50-1	1,2-Dichlorobenzene	410.	U
95-48-7	2-Methylphenol	410.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410.	U
106-44-5	4-Methylphenol	410.	U
621-64-7	N-Nitroso-di-n-propylamine	410.	U
67-72-1	Hexachloroethane	410.	U
98-95-3	Nitrobenzene	410.	U
78-59-1	Isophorone	410.	U
88-75-5	2-Nitrophenol	410.	U
105-67-9	2,4-Dimethylphenol	410.	U
111-91-1	bis(2-chloroethoxy)methane	410.	U
120-83-2	2,4-Dichlorophenol	410.	U
120-82-1	1,2,4-Trichlorobenzene	410.	U
91-20-3	Naphthalene	410.	U
106-47-8	4-Chloroaniline	410.	U
87-68-3	Hexachlorobutadiene	410.	U
59-50-7	4-Chloro-3-methylphenol	410.	U
91-57-6	2-Methylnaphthalene	39.	J
77-47-4	Hexachlorocyclopentadiene	410.	U J
88-06-2	2,4,6-Trichlorophenol	410.	U
95-95-4	2,4,5-Trichlorophenol	1000.	U
91-58-7	2-Chloronaphthalene	410.	U
88-74-4	2-Nitroaniline	1000.	U
131-11-3	Dimethylphthalate	410.	U
208-96-8	Acenaphthylene	410.	U
606-20-2	2,6-Dinitrotoluene	410.	U
99-09-2	3-Nitroaniline	1000.	U
83-32-9	Acenaphthene	410.	U

unk bias
ub

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA57

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38273

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA57

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 20 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	1000.	U J	ub
100-02-7	4-Nitrophenol	1000.	U J	ub
132-64-9	Dibenzofuran	410.	U	
121-14-2	2,4-Dinitrotoluene	410.	U	
84-66-2	Diethylphthalate	410.	U	
7005-72-3	4-Chlorophenyl-phenylether	410.	U	
86-73-7	Fluorene	410.	U	
100-01-6	4-Nitroaniline	1000.	U	
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	410.	U	
101-55-3	4-Bromophenyl-phenylether	410.	U	
118-74-1	Hexachlorobenzene	410.	U J	ub
87-86-5	Pentachlorophenol	1000.	U J	ub
85-01-8	Phenanthrene	B= 85.	J	unk bias
120-12-7	Anthracene	410.	U	
86-74-8	Carbazole	410.	U	
84-74-2	Di-n-butylphthalate	B= 38.	J	unk bias
206-44-0	Fluoranthene	B= 190.	J	unk bias
129-00-0	Pyrene	B= 150.	J	unk bias
85-68-7	Butylbenzylphthalate	410.	U	
91-94-1	3,3'-Dichlorobenzidine	410.	U J	ub
56-55-3	Benzo(a)anthracene	B= 94.	J	unk bias
218-01-9	Chrysene	B= 120.	J	unk bias
117-81-7	bis(2-ethylhexyl)phthalate	410.	U J	ub
117-84-0	Di-n-Octylphthalate	410.	U J	ub
205-99-2	Benzo(b)fluoranthene	B= 130.	J	unk bias
207-08-9	Benzo(k)fluoranthene	B= 73.	J	unk bias
50-32-8	Benzo(a)pyrene	B= 140.	J	unk bias
193-39-5	Indeno(1,2,3-cd)pyrene	B= 86.	J	unk bias
53-70-3	Dibenz(a,h)anthracene	410.	U	
191-24-2	Benzo(g,h,i)perylene	B= 90.	J	unk bias

(1) - Cannot be separated from Diphenylamine

000234

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA57

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) SOIL Lab Sample ID: 38273

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA57

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs Found: ~~11~~ 16 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.		Aldol Condensation Product	3.4	18000.	~~JAB~~
2.		Unknown	3.7	130.	~~JB~~
3.		Unknown	4.8	190.	~~JB~~
4.		Unknown	5.5	300.	J
5.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.6	200.	~~JNB~~
6.		Unknown	6.4	820.	J
7.		Unknown Acid	11.6	160.	J
8.		Unknown Hydrocarbon	14.3	130.	J
9.		Unknown Hydrocarbon	22.5	140.	J
10.		Unknown Hydrocarbon	25.0	150.	J
11.		Unknown	25.0	78.	J
12.		Unknown	25.2	86.	J
13.		Unknown	25.8	190.	J
14.		Unknown	26.4	300.	J
15.		Unknown	27.2	170.	J
16.		Unknown	27.6	96.	J
17.					
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unknowns

unk bias

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA58

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38274

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA58

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 18 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
108-95-2	Phenol	800.	U	
111-44-4	bis(2-chloroethyl)ether	800.	U	
95-57-8	2-Chlorophenol	800.	U	
541-73-1	1,3-Dichlorobenzene	800.	U	
10604-60-7	1,4-Dichlorobenzene	800.	U	
95-50-1	1,2-Dichlorobenzene	800.	U	
95-48-7	2-Methylphenol	800.	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	800.	U	
106-44-5	4-Methylphenol	800.	U	
621-64-7	N-Nitroso-di-n-propylamine	800.	U	
67-72-1	Hexachloroethane	800.	U	
98-95-3	Nitrobenzene	800.	U	
78-59-1	Isophorone	800.	U	
88-75-5	2-Nitrophenol	800.	U	
105-67-9	2,4-Dimethylphenol	800.	U	
111-91-1	bis(2-chloroethoxy)methane	800.	U	
120-83-2	2,4-Dichlorophenol	800.	U	
120-82-1	1,2,4-Trichlorobenzene	800.	U	
91-20-3	Naphthalene	130.	J	unk bias
106-47-8	4-Chloroaniline	800.	U	
87-68-3	Hexachlorobutadiene	800.	U	
59-50-7	4-Chloro-3-methylphenol	800.	U	
91-57-6	2-Methylnaphthalene	200.	J	unk bias
77-47-4	Hexachlorocyclopentadiene	800.	U J	ub
88-06-2	2,4,6-Trichlorophenol	800.	U	
95-95-4	2,4,5-Trichlorophenol	2000.	U	
91-58-7	2-Chloronaphthalene	800.	U	
88-74-4	2-Nitroaniline	2000.	U	
131-11-3	Dimethylphthalate	800.	U	
208-96-8	Acenaphthylene	42.	J	unk bias
606-20-2	2,6-Dinitrotoluene	800.	U	
99-09-2	3-Nitroaniline	2000.	U	
83-32-9	Acenaphthene	290.	J	unk bias

000347

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA58

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38274

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA58

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 18 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	2000.	U J	ub
100-02-7	4-Nitrophenol	2000.	U J	ub
132-64-9	Dibenzofuran	220.	J	unk bias
121-14-2	2,4-Dinitrotoluene	800.	U	
84-66-2	Diethylphthalate	800.	U	
7005-72-3	4-Chlorophenyl-phenylether	800.	U	
86-73-7	Fluorene	280.	J	unk bias
100-01-6	4-Nitroaniline	2000.	U	
534-52-1	4,6-Dinitro-2-methylphenol	2000.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	800.	U	
101-55-3	4-Bromophenyl-phenylether	800.	U	
118-74-1	Hexachlorobenzene	800.	U J	ub
87-86-5	Pentachlorophenol	2000.	U J	ub
85-01-8	Phenanthrene	3100.		
120-12-7	Anthracene	710.	J	unk bias
86-74-8	Carbazole	330.	J	unk bias
84-74-2	Di-n-butylphthalate	98.	J	unk bias
206-44-0	Fluoranthene	3500.		
129-00-0	Pyrene	2500.	J	Low Bias
85-68-7	Butylbenzylphthalate	800.	U	
91-94-1	3,3'-Dichlorobenzidine	800.	U J	ub
56-55-3	Benzo(a)anthracene	1300.		
218-01-9	Chrysene	2000.		
117-81-7	bis(2-ethylhexyl)phthalate	800.	U J	ub
117-84-0	Di-n-Octylphthalate	800.	U J	ub
205-99-2	Benzo(b)fluoranthene	1500.		
207-08-9	Benzo(k)fluoranthene	970.		
50-32-8	Benzo(a)pyrene	1600.		
193-39-5	Indeno(1,2,3-cd)pyrene	480.	J	unk bias
53-70-3	Dibenz(a,h)anthracene	130.	J	unk bias
191-24-2	Benzo(g,h,i)perylene	440.	J	unk bias

(1) - Cannot be separated from Diphenylamine

000338

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA58

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) SOIL Lab Sample ID: 38274

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA58

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 18 decanted: (Y/N) N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs Found: ~~18~~ 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	Aldol Condensation Product	3.3	19000.	~~JAB~~ U
2.	Unknown	6.4	720.	J
3.	Unknown Hydrocarbon	14.3	480.	J
4.	Unknown Polyaromatic Hydroca	17.0	260.	J
5.	Unknown Polyaromatic Hydroca	19.1	480.	J
6.	Unknown Polyaromatic Hydroca	20.4	560.	J
7.	Unknown Polyaromatic Hydroca	20.5	540.	J
8.	Unknown Polyaromatic Hydroca	23.3	460.	J
9.	Unknown Polyaromatic Hydroca	23.7	1100.	J
10.	Unknown Polyaromatic Hydroca	23.9	460.	J
11.	Unknown	25.0	360.	J
12.	Unknown	25.2	420.	J
13.	Unknown	25.4	360.	J
14.	Unknown Polyaromatic Hydroca	25.8	480.	J
15.	Unknown	25.9	260.	J
16.	Unknown	26.0	440.	J
17.	Unknown	26.4	600.	J
18.	Unknown	26.8	280.	J
19.	Unknown	27.0	260.	J
20.	Unknown	27.3	280.	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

unk bias

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA59

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38275

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA59

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 21 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420.	U
111-44-4	bis(2-chloroethyl)ether	420.	U
95-57-8	2-Chlorophenol	420.	U
541-73-1	1,3-Dichlorobenzene	420.	U
10604-60-7	1,4-Dichlorobenzene	420.	U
95-50-1	1,2-Dichlorobenzene	420.	U
95-48-7	2-Methylphenol	420.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420.	U
106-44-5	4-Methylphenol	420.	U
621-64-7	N-Nitroso-di-n-propylamine	420.	U
67-72-1	Hexachloroethane	420.	U
98-95-3	Nitrobenzene	420.	U
78-59-1	Isophorone	420.	U
88-75-5	2-Nitrophenol	420.	U
105-67-9	2,4-Dimethylphenol	420.	U
111-91-1	bis(2-chloroethoxy)methane	420.	U
120-83-2	2,4-Dichlorophenol	420.	U
120-82-1	1,2,4-Trichlorobenzene	420.	U
91-20-3	Naphthalene	420.	U
106-47-8	4-Chloroaniline	420.	U
87-68-3	Hexachlorobutadiene	420.	U
59-50-7	4-Chloro-3-methylphenol	420.	U
91-57-6	2-Methylnaphthalene	420.	U
77-47-4	Hexachlorocyclopentadiene	420.	U J ub
88-06-2	2,4,6-Trichlorophenol	420.	U
95-95-4	2,4,5-Trichlorophenol	1000.	U
91-58-7	2-Chloronaphthalene	420.	U
88-74-4	2-Nitroaniline	1000.	U
131-11-3	Dimethylphthalate	420.	U
208-96-8	Acenaphthylene	420.	U
606-20-2	2,6-Dinitrotoluene	420.	U
99-09-2	3-Nitroaniline	1000.	U
83-32-9	Acenaphthene	420.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA59

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38275

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA59

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 21 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	1000.	U J	ub
100-02-7	4-Nitrophenol	1000.	U J	ub
132-64-9	Dibenzofuran	420.	U	
121-14-2	2,4-Dinitrotoluene	420.	U	
84-66-2	Diethylphthalate	420.	U	
7005-72-3	4-Chlorophenyl-phenylether	420.	U	
86-73-7	Fluorene	420.	U	
100-01-6	4-Nitroaniline	1000.	U	
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	420.	U	
101-55-3	4-Bromophenyl-phenylether	420.	U	
118-74-1	Hexachlorobenzene	420.	U J	ub
87-86-5	Pentachlorophenol	1000.	U J	ub
85-01-8	Phenanthrene	420.	U	
120-12-7	Anthracene	420.	U	
86-74-8	Carbazole	420.	U	
84-74-2	Di-n-butylphthalate	170.	J	unk bias
206-44-0	Fluoranthene	420.	U	
129-00-0	Pyrene	420.	U	
85-68-7	Butylbenzylphthalate	420.	U	
91-94-1	3,3'-Dichlorobenzidine	420.	U J	ub
56-55-3	Benzo(a)anthracene	420.	U	
218-01-9	Chrysene	420.	U	
117-81-7	bis(2-ethylhexyl)phthalate	420.	U J	ub
117-84-0	Di-n-Octylphthalate	420.	U J	ub
205-99-2	Benzo(b)fluoranthene	420.	U	
207-08-9	Benzo(k)fluoranthene	420.	U	
50-32-8	Benzo(a)pyrene	420.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	420.	U	
53-70-3	Dibenz(a,h)anthracene	420.	U	
191-24-2	Benzo(g,h,i)perylene	420.	U	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA59

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) SOIL Lab Sample ID: 38275

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA59

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 21 decanted: (Y/N) N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs Found: ~~18~~ 15 KK 1-27-92

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

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.		Aldol Condensation Product	3.4	16000.	~~JAB~~ J
2.		Aldol Condensation Product	4.3	130.	~~JAB~~ J
3.		Unknown	4.6	240.	J unk bias
4.		Unknown	4.8	200.	~~JB~~ J
5.		Unknown	5.5	140.	J unk bias
6.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	5.6	220.	~~JNB~~ J
7.		Unknown	6.4	220.	J
8.		Unknown Acid	11.6	180.	J
9.		Unknown	13.1	92.	J
10.		Unknown	25.0	100.	J
11.		Unknown	25.8	110.	J
12.		Unknown	25.9	320.	J
13.		Unknown	26.4	460.	J
14.		Unknown	26.9	96.	J
15.		Unknown	27.5	120.	J
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

unk bias

000433

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA60

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38277

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA60

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 15 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 9.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390.	U
111-44-4	bis(2-chloroethyl)ether	390.	U
95-57-8	2-Chlorophenol	390.	U
541-73-1	1,3-Dichlorobenzene	390.	U
10604-60-7	1,4-Dichlorobenzene	390.	U
95-50-1	1,2-Dichlorobenzene	390.	U
95-48-7	2-Methylphenol	390.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390.	U
106-44-5	4-Methylphenol	390.	U
621-64-7	N-Nitroso-di-n-propylamine	390.	U
67-72-1	Hexachloroethane	390.	U
98-95-3	Nitrobenzene	390.	U
78-59-1	Isophorone	390.	U
88-75-5	2-Nitrophenol	390.	U
105-67-9	2,4-Dimethylphenol	390.	U
111-91-1	bis(2-chloroethoxy)methane	390.	U
120-83-2	2,4-Dichlorophenol	390.	U
120-82-1	1,2,4-Trichlorobenzene	390.	U
91-20-3	Naphthalene	390.	U
106-47-8	4-Chloroaniline	390.	U
87-68-3	Hexachlorobutadiene	390.	U
59-50-7	4-Chloro-3-methylphenol	390.	U
91-57-6	2-Methylnaphthalene	23.	J
77-47-4	Hexachlorocyclopentadiene	390.	U J
88-06-2	2,4,6-Trichlorophenol	390.	U
95-95-4	2,4,5-Trichlorophenol	940.	U
91-58-7	2-Chloronaphthalene	390.	U
88-74-4	2-Nitroaniline	940.	U
131-11-3	Dimethylphthalate	390.	U
208-96-8	Acenaphthylene	390.	U
606-20-2	2,6-Dinitrotoluene	390.	U
99-09-2	3-Nitroaniline	940.	U
83-32-9	Acenaphthene	390.	U

unk bias
ub

000466

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA60

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38277

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA60

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 15 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 9.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	940.	U J	ub
100-02-7	4-Nitrophenol	940.	U J	ub
132-64-9	Dibenzofuran	390.	U	
121-14-2	2,4-Dinitrotoluene	390.	U	
84-66-2	Diethylphthalate	390.	U	
7005-72-3	4-Chlorophenyl-phenylether	390.	U	
86-73-7	Fluorene	390.	U	
100-01-6	4-Nitroaniline	940.	U	
534-52-1	4,6-Dinitro-2-methylphenol	940.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	390.	U	
101-55-3	4-Bromophenyl-phenylether	390.	U	
118-74-1	Hexachlorobenzene	390.	U J	ub
87-86-5	Pentachlorophenol	940.	U J	ub
85-01-8	Phenanthrene	66.	J	unk bias
120-12-7	Anthracene	390.	U	
86-74-8	Carbazole	390.	U	
84-74-2	Di-n-butylphthalate	220.	J	unk bias
206-44-0	Fluoranthene	83.	J	unk bias
129-00-0	Pyrene	48.	J	unk bias
85-68-7	Butylbenzylphthalate	390.	U	
91-94-1	3,3'-Dichlorobenzidine	390.	U J	ub
56-55-3	Benzo(a)anthracene	44.	J	unk bias
218-01-9	Chrysene	59.	J	unk bias
117-81-7	bis(2-ethylhexyl)phthalate	390.	U J	ub
117-84-0	Di-n-Octylphthalate	390.	U J	ub
205-99-2	Benzo(b)fluoranthene	70.	J	unk bias
207-08-9	Benzo(k)fluoranthene	35.	J	unk bias
50-32-8	Benzo(a)pyrene	52.	J	unk bias
193-39-5	Indeno(1,2,3-cd)pyrene	26.	J	unk bias
53-70-3	Dibenz(a,h)anthracene	390.	U	
191-24-2	Benzo(g,h,i)perylene	28.	J	unk bias

(1) - Cannot be separated from Diphenylamine

000455

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA60

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) SOIL Lab Sample ID: 38277

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA60

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 15 decanted: (Y/N) N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/15/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 9.0

Number TICs Found: ~~17~~ 20 KK 1.29.92

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

CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.	Aldol Condensation Product	3.4	20000.	~~JAB~~ U
2.	Unknown	5.5	260.	J
3.	Unknown	6.4	700.	J
4.	Unknown Acid	11.6	260.	J
5.	Unknown Hydrocarbon	13.1	180.	J
6.	Unknown Hydrocarbon	14.3	220.	J
7.	Unknown Acid	16.7	2000.	J
8.	Unknown	24.4	100.	J
9.	Unknown Hydrocarbon	25.0	100.	J
10.	Unknown	25.2	82.	J
11.	Unknown	25.5	68.	J
12.	Unknown	25.8	400.	J
13.	Unknown	25.9	180.	J
14.	Unknown	26.0	94.	J
15.	Unknown	26.5	120.	J
16.	Unknown	26.9	380.	J
17.	Unknown	27.1	240.	J
18.	Unknown	27.3	76.	J
19.	Unknown	27.5	240.	J
20.	Unknown	27.6	130.	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

AV 2-20-92

unk bias

000464

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA61

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38278

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA61R

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 26 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/16/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 9.0 -

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
108-95-2	Phenol	450.	U	
111-44-4	bis(2-chloroethyl)ether	450.	U	
95-57-8	2-Chlorophenol	450.	U	
541-73-1	1,3-Dichlorobenzene	450.	U	
10604-60-7	1,4-Dichlorobenzene	450.	U	
95-50-1	1,2-Dichlorobenzene	450.	U	
95-48-7	2-Methylphenol	450.	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	450.	U J	ub
106-44-5	4-Methylphenol	24.	J	unk bias
621-64-7	N-Nitroso-di-n-propylamine	450.	U	
67-72-1	Hexachloroethane	450.	U	
98-95-3	Nitrobenzene	450.	U	
78-59-1	Isophorone	450.	U	
88-75-5	2-Nitrophenol	450.	U	
105-67-9	2,4-Dimethylphenol	450.	U	
111-91-1	bis(2-chloroethoxy)methane	450.	U	
120-83-2	2,4-Dichlorophenol	450.	U	
120-82-1	1,2,4-Trichlorobenzene	450.	U	
91-20-3	Naphthalene	130.	J	unk bias
106-47-8	4-Chloroaniline	450.	U	
87-68-3	Hexachlorobutadiene	450.	U	
59-50-7	4-Chloro-3-methylphenol	450.	U	
91-57-6	2-Methylnaphthalene	93.	J	unk bias
77-47-4	Hexachlorocyclopentadiene	450.	U J	ub
88-06-2	2,4,6-Trichlorophenol	450.	U	
95-95-4	2,4,5-Trichlorophenol	1100.	U	
91-58-7	2-Chloronaphthalene	450.	U	
88-74-4	2-Nitroaniline	1100.	U	
131-11-3	Dimethylphthalate	450.	U	
208-96-8	Acenaphthylene	210.	J	unk bias
606-20-2	2,6-Dinitrotoluene	450.	U	
99-09-2	3-Nitroaniline	1100.	U	
83-32-9	Acenaphthene	78.	J	unk bias

000334

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA61

Lab Name:WADSWORTH/ALERT Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water) SOIL Lab Sample ID:38278

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA61R

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 26 decanted: N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/16/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 9.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	1100.	U J	ub
100-02-7	4-Nitrophenol	1100.	U J	ub
132-64-9	Dibenzofuran	84.	J	unk bias
121-14-2	2,4-Dinitrotoluene	450.	U	
84-66-2	Diethylphthalate	450.	U	
7005-72-3	4-Chlorophenyl-phenylether	450.	U	
86-73-7	Fluorene	450.	U	
100-01-6	4-Nitroaniline	1100.	U J	ub
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U J	ub
86-30-6	N-Nitrosodiphenylamine (1)	450.	U	
101-55-3	4-Bromophenyl-phenylether	450.	U	
118-74-1	Hexachlorobenzene	450.	U J	ub
87-86-5	Pentachlorophenol	1100.	U J	ub
85-01-8	Phenanthrene	360.	J	unk bias
120-12-7	Anthracene	200.	J	unk bias
86-74-8	Carbazole	450.	U	
84-74-2	Di-n-butylphthalate	530.		
206-44-0	Fluoranthene	1100.		
129-00-0	Pyrene	770.		
85-68-7	Butylbenzylphthalate	450.	U	
91-94-1	3,3'-Dichlorobenzidine	450.	U J	ub
56-55-3	Benzo(a)anthracene	630.		
218-01-9	Chrysene	980.		
117-81-7	bis(2-ethylhexyl)phthalate	36.	J	unk bias
117-84-0	Di-n-Octylphthalate	450.	U J	ub
205-99-2	Benzo(b)fluoranthene	1600.		
207-08-9	Benzo(k)fluoranthene	700.		
50-32-8	Benzo(a)pyrene	980.		
193-39-5	Indeno(1,2,3-cd)pyrene	470.		
53-70-3	Dibenz(a,h)anthracene	150.	J	unk bias
191-24-2	Benzo(g,h,i)perylene	410.	J	unk bias

(1) - Cannot be separated from Diphenylamine

000525

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELA61

Lab Name: WADSWORTH/ALERT Contract: 68-D1-0085

Lab Code: WADS Case No.: 17661 SAS No.: SDG No.: ELA50

Matrix: (soil/water) SOIL Lab Sample ID: 38278

Sample wt/vol: 30.00 (g/ml) G Lab File ID: ELA61R

Level: (low/med) LOW Date Received: 1/09/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 1/10/92

Concentrated Extract Volume: 500.00(uL) Date Analyzed: 1/16/92

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 9.0

Number TICs Found: ~~23~~ 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EXT. CONC.	Q
1.		Aldol Condensation Product	3.3	26000.	~~JAB~~ U
2.		Unknown Acid	11.5	360.	J
3.		Unknown Hydrocarbon	14.2	340.	J
4.		Unknown Acid	16.7	780.	J
5.		Unknown	18.4	150.	J
6.		Unknown Polyaromatic Hydroca	18.9	170.	J
7.		Unknown	20.0	220.	J
8.		Unknown	20.7	150.	J
9.		Unknown Hydrocarbon	22.4	150.	J
10.		Unknown	23.2	200.	J
11.		Unknown Polyaromatic Hydroca	23.5	340.	J
12.		Unknown Hydrocarbon	24.9	260.	J
13.		Unknown	25.1	150.	J
14.		Unknown Polyaromatic Hydroca	25.4	100.	J
15.		Unknown	25.7	160.	J
16.		Unknown	25.9	96.	J
17.		Unknown Hydrocarbon	26.0	110.	J
18.		Unknown	26.2	320.	J
19.		Unknown	26.3	120.	J
20.		Unknown	26.6	180.	J
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

unk bias

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

GC Column(1):RTX1701 ID: 0.53 (mm) GC Column(2):RTX5 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ELA53	55.0*	95.0	65.0	65.0			1
02	ELA53MS	37.0*	90.0	50.0*	46.0*			3
03	ELA53MSD	50.0*	95.0	60.0	55.0*			2
04	ELA54	55.0*	90.0	0.0*	75.0			2
05	ELA55	65.0	100.0	85.0	80.0			0
06	ELA56	38.0*	90.0	65.0	60.0			1
07	PBLK1	95.0	95.0	105.0	100.0			0
08	PIBLKX1	95.0	95.0	95.0	95.0			0
09	PIBLKX2	100.0	95.0	100.0	125.0			0
10	PIBLKX3	100.0	100.0	100.0	130.0			0
11								
12								
13								
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19								
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30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

FORM II PEST-1 3/90

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

GC Column(1):RTX1701 ID: 0.53 (mm) GC Column(2):RTX5 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ELA57	56.5*	78.2	90.2	90.2			1
02	ELA58	74.0	74.0	86.3	98.6			0
03	ELA58MS	67.8	74.0	86.3	86.3			0
04	ELA58MSD	67.8	67.8	74.0	111.0			0
05	ELA59	52.8*	82.1	99.7	105.6			1
06	ELA60	63.3	76.7	95.9	83.1			0
07	ELA61	55.6*	61.2	66.8	83.5			1
08	GPCCK010892	0.0*	0.0*	0.0*	0.0*			4
09	GPCCK010892P	0.0*	0.0*	0.0*	0.0*			4
10	PBLKII	51.9*	72.9	97.7	90.2			1
11								
12								
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	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

FORM II PEST-2 3/90

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix Spike - EPA Sample No.: ELA53

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC(Lindane)	0.50	0.000	0.440	88	56-123
Heptachlor	0.50	0.000	0.350	70	40-131
Aldrin	0.50	0.000	0.380	76	40-120
Dieldrin	1.00	0.000	0.920	92	52-126
Endrin	1.00	0.000	1.000	100	56-121
4,4'-DDT	1.00	0.000	0.700	70	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	0.50	0.470	94	7	15	56-123
Heptachlor	0.50	0.390	78	11	20	40-131
Aldrin	0.50	0.430	86	12	22	40-120
Dieldrin	1.00	0.970	97	5	18	52-126
Endrin	1.00	1.100	110	10	21	56-121
4,4'-DDT	1.00	0.910	91	26	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Matrix Spike - EPA Sample No.: ELA58

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC(Lindane)	20.37	0.000	14.000	69	46-127
Heptachlor	20.37	0.000	15.000	74	35-130
Aldrin	20.37	8.300	20.000	57	34-132
Dieldrin	40.73	16.000	31.000	37	31-134
Endrin	40.73	16.000	39.000	56	42-139
4,4'-DDT	40.73	0.000	28.000	69	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	20.37	14.000	69	0	50	46-127
Heptachlor	20.37	14.000	69	7	31	35-130
Aldrin	20.37	20.000	57	0	43	34-132
Dieldrin	40.73	33.000	42	13	38	31-134
Endrin	40.73	50.000	83	39	45	42-139
4,4'-DDT	40.73	0.000	0*	200*	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 6 outside limits
Spike Recovery: 1 out of 12 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Lab Sample ID:90109 Lab File ID:

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc)SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 1/09/92

Date Analyzed (1): 1/24/92 Date Analyzed (2): 1/24/92

Time Analyzed (1):1918 Time Analyzed (2):1918

Instrument ID (1):HP5890XA Instrument ID (2):HP5890XB

GC Column (1):RTX1701 ID: 0.53(mm) GC Column (2):RTX5 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELA53	38267	1/24/92	1/24/92
02	ELA53MS	38267MS	1/24/92	1/24/92
03	ELA53MSD	38267MSD	1/24/92	1/24/92
04	ELA54	38269	1/24/92	1/24/92
05	ELA55	38270	1/24/92	1/24/92
06	ELA56	38271	1/24/92	1/24/92
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COMMENTS:

FORM IV PEST 3/90

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKII

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.:17661 SAS No.: SDG No.:ELA50

Lab Sample ID:92110 Lab File ID:

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc)SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 1/10/92

Date Analyzed (1): 1/25/92 Date Analyzed (2): 1/25/92

Time Analyzed (1):0115 Time Analyzed (2):0115

Instrument ID (1):HP5890XA Instrument ID (2):HP5890XB

GC Column (1):RTX1701 ID: 0.53(mm) GC Column (2):RTX5 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELA57	38273	1/25/92	1/25/92
02	ELA58	38274	1/25/92	1/25/92
03	ELA58MS	38274MS	1/25/92	1/25/92
04	ELA58MSD	38274MSD	1/25/92	1/25/92
05	ELA59	38275	1/25/92	1/25/92
06	ELA60	38277	1/25/92	1/25/92
07	ELA61	38278	1/25/92	1/25/92
08				
09				
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COMMENTS:

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)WATER Lab Sample ID: 90109

Sample wt/vol: 1000.00(g/ml)ML Lab File ID:

% Moisture: 0 decanted: (Y/N) N Date Received: / /

Extraction: (SepF/Cont/Sonc)SEPF Date Extracted: 1/09/92

Concentrated Extract Volume:10000.0 (uL) Date Analyzed: 1/24/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N)N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/L_	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKII

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)SOIL Lab Sample ID: 92110

Sample wt/vol: 30.00(g/ml)G Lab File ID:

% Moisture: 0 decanted: (Y/N) N Date Received: / /

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 1/10/92

Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 1/25/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N)Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC(Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin Aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA53

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)WATER Lab Sample ID: 38267

Sample wt/vol: 1000.00(g/ml)ML Lab File ID:

% Moisture: 0 decanted: (Y/N) N Date Received: 1/09/92

Extraction: (SepF/Cont/Sonc)SEPF Date Extracted: 1/09/92

Concentrated Extract Volume:10000.0 (uL) Date Analyzed: 1/24/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N)N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/L_	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000752

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA54

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)WATER Lab Sample ID: 38269

Sample wt/vol: 1000.00(g/ml)ML Lab File ID:

% Moisture: 0 decanted: (Y/N) N Date Received: 1/09/92

Extraction: (SepF/Cont/Sonc)SEPF Date Extracted: 1/09/92

Concentrated Extract Volume:10000.0 (uL) Date Analyzed: 1/24/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N)N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/L_	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000711

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA55

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)WATER Lab Sample ID: 38270

Sample wt/vol: 1000.00(g/ml)ML Lab File ID:

% Moisture: 0 decanted: (Y/N) N Date Received: 1/09/92

Extraction: (SepF/Cont/Sonc)SEPF Date Extracted: 1/09/92

Concentrated Extract Volume:10000.0 (uL) Date Analyzed: 1/24/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N)N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/L_	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000750

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA56

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)WATER Lab Sample ID: 38271

Sample wt/vol: 1000.00(g/ml)ML Lab File ID:

% Moisture: 0 decanted: (Y/N) N Date Received: 1/09/92

Extraction: (SepF/Cont/Sonc)SEPF Date Extracted: 1/09/92

Concentrated Extract Volume:10000.0 (uL) Date Analyzed: 1/24/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N)N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/L_	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA57

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)SOIL Lab Sample ID: 38273

Sample wt/vol: 30.00(g/ml)G Lab File ID:

% Moisture: 20 decanted: (Y/N) N Date Received: 1/09/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 1/10/92

Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 1/25/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N)Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC(Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.3	
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21.	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210.	U
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	84.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	41.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA58

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)SOIL Lab Sample ID: 38274

Sample wt/vol: 30.00(g/ml)G Lab File ID:

% Moisture: 18 decanted: (Y/N) N Date Received: 1/09/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 1/10/92

Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 1/25/92

Injection Volume: 1.0 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N)Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	8.3	U
319-85-7	beta-BHC	8.3	U
319-86-8	delta-BHC	8.3	U
58-89-9	gamma-BHC(Lindane)	8.3	U
76-44-8	Heptachlor	8.3	U
309-00-2	Aldrin	8.3	U
1024-57-3	Heptachlor epoxide	8.3	U
959-98-8	Endosulfan I	8.3	U
60-57-1	Dieldrin	16.	U
72-55-9	4,4'-DDE	16.	U
72-20-8	Endrin	16.	U
33213-65-9	Endosulfan II	16.	U
72-54-8	4,4'-DDD	16.	U
1031-07-8	Endosulfan sulfate	16.	U
50-29-3	4,4'-DDT	16.	U
72-43-5	Methoxychlor	83.	U
53494-70-5	Endrin ketone	16.	U
7421-93-4	Endrin Aldehyde	16.	U
5103-71-9	alpha-Chlordane	8.3	U
5103-74-2	gamma-Chlordane	8.3	U
8001-35-2	Toxaphene	830.	U
12674-11-2	Aroclor-1016	160.	U
11104-28-2	Aroclor-1221	330.	U
11141-16-5	Aroclor-1232	160.	U
53469-21-9	Aroclor-1242	160.	U
12672-29-6	Aroclor-1248	160.	U
11097-69-1	Aroclor-1254	160.	U
11096-82-5	Aroclor-1260	370.	P

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA59

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)SOIL Lab Sample ID: 38275

Sample wt/vol: 30.00(g/ml)G Lab File ID:

% Moisture: 22 decanted: (Y/N) N Date Received: 1/09/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 1/10/92

Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 1/25/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N)Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U ~~P~~ 1-31-92 ASP
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC(Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U R
72-43-5	Methoxychlor	22.	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220.	U
12674-11-2	Aroclor-1016	42.	U
11104-28-2	Aroclor-1221	86.	U
11141-16-5	Aroclor-1232	42.	U
53469-21-9	Aroclor-1242	42.	U
12672-29-6	Aroclor-1248	42.	U
11097-69-1	Aroclor-1254	42.	U
11096-82-5	Aroclor-1260	42.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA60

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)SOIL Lab Sample ID: 38277

Sample wt/vol: 30.00(g/ml)G Lab File ID:

% Moisture: 15 decanted: (Y/N) N Date Received: 1/09/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 1/10/92

Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 1/25/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N)Y pH: 8.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	Delta-BHC	2.0	U
58-89-9	gamma-BHC(Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	6.8	P
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	79.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	430.	P

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELA61

Lab Name:WADSWORTH/ALERT LABS Contract:68-D1-0085

Lab Code:WADS Case No.17661 SAS No.: SDG No.:ELA50

Matrix: (soil/water)SOIL Lab Sample ID: 38278

Sample wt/vol: 30.00(g/ml)G Lab File ID:

% Moisture: 26 decanted: (Y/N) N Date Received: 1/09/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted: 1/10/92

Concentrated Extract Volume: 5000.0 (uL) Date Analyzed: 1/25/92

Injection Volume: 1.0 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N)Y pH: 8.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	9.2	U
319-85-7	beta-BHC	9.2	U
319-86-8	delta-BHC	9.2	U
58-89-9	gamma-BHC(Lindane)	9.2	U
76-44-8	Heptachlor	9.2	U
309-00-2	Aldrin	9.2	U
1024-57-3	Heptachlor epoxide	9.2	U
959-98-8	Endosulfan I	9.2	U
60-57-1	Dieldrin	18.	U
72-55-9	4,4'-DDE	18.	U
72-20-8	Endrin	18.	U
33213-65-9	Endosulfan II	18.	U
72-54-8	4,4'-DDD	18.	U
1031-07-8	Endosulfan sulfate	18.	U
50-29-3	4,4'-DDT	18.	U
72-43-5	Methoxychlor	92.	U
53494-70-5	Endrin ketone	18.	U
7421-93-4	Endrin Aldehyde	18.	U
5103-71-9	alpha-Chlordane	9.2	U
5103-74-2	gamma-Chlordane	9.2	U
8001-35-2	Toxaphene	920.	U
12674-11-2	Aroclor-1016	180.	U
11104-28-2	Aroclor-1221	360.	U
11141-16-5	Aroclor-1232	180.	U
53469-21-9	Aroclor-1242	180.	U
12672-29-6	Aroclor-1248	180.	U
11097-69-1	Aroclor-1254	180.	U
11096-82-5	Aroclor-1260	410.	P

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. — CERCLIS No. —

Case No. 17661 Site Name Location: A.E. Staley (IL)

Contractor or EPA Lab: Wadsworth Data User: B+V

No. of Samples: 11 Date Samples or Data Received: Feb 11, 1992

Have Chain-of-Custody records been received? YES ___ NO X
Have traffic reports or packing lists been received? YES ___ NO X
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES X NO ___
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES X NO ___
No. of samples claimed: 11 No. of samples received: 11

Received by: A.D. Harris Date: Feb 11, 1992

Received by LSSS: DMM Date: 2-11-92

Review started: 2-18-92 Reviewer Signature: Al Venuto

Total time spent on review: 25 hrs Date review completed: 2-24-92

Copied by: Eve Date: 3-16-92

Mailed to user by: Lynette Burnett Date: 3-18-92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by: ___ Date: ___

Data review received by: ___ Date: ___
Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose [ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date: ___