L2010300071-Winnebago Co
Kaney Transportation, Inc
Superfund/HRS

CERCLA

Screening Site Inspection Analytical Results

Illinois Environmental Protection Agency
PO Box 19276
Springfield, IL 62794-9276

EPA Region 5 Records Ctr
343675

Confidential Material May be Enclosed

APPENDIX F

ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

KANEY TRANSPORTATION INC

ILD 064006901

SAMPLE SUMMARY TABLE

SAMPLING POINT	X 103	X 101	X 104	X 105	X 106	X 107	X 109	X 108	X 102	G 203	G 104	G 102	G 109	G 101	G 202	TRIP
	11 7 91	11 7 91	11 7 91	11 7 91	11 7 91	11 7 91	11 7 91	11 7 91	11 7 91	11 7 91	11 6 91	11 6 91	11 6 91	11 6 91	11 6 91	BLANK
PARAMETER																
VOLATILES	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Chloromethane												1900 0				
Vinyl Chloride														30 0		
M thylene Chloride							8 0 J									
A tone	60 0			28 0	55 0	110 0	44 0 J	68 0 J				19000 0 BJ				31 0
1 1 Dichl oethene														3.0 J		
1 2 Dichloroethene(total)													31 0	120 0 D	40 0	
1 2 Dichloroethane														21 0		
Trichloroethene				52 0	30 0								23 0	91 0 D	10 0	
Benzene														22 0 J	6 0 J	
Tet achloroethene													7 0 J	18 0		
T luene	79 0						9 0 J		6 0 J	3 0 J		6100 0 J		5 0 J		
Ethylbenzene												3000 0 J				
Xylene(total)												30000 0 J				
SEMIVOLATILES	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Phenol											5 0 J					
Naphth lene							500 0 J	370 0 J			140 0 D	1200 0				
2 Methylnaphthalene											32 0 D	4800 0				
Fluorene												560 0 J				
Phenanth ene						1400 0	450 0 J	760 0				1300 0				
Anthracene						250 0 J		520 0 J								
Di n Butylphthalate																
Fluoranthene						1900 0	380 0 J	1000 0								
Pyrene						1700 0	350 0 J	850 0								
Benzo(a)anthracene						1000 0	180 0 J									
Chrysene						950 0	290 0 J									
bis(2 Ethylhexyl)phthalate																
Benzo(b)fluoranthene						1200 0	370 0 J		350 0 J							
Benzo(k)fluoranthene						580 0	210 0 J		120 0 J							
Benzo(a)pyrene						800 0										
Indeno(1 2 3 cd)pyrene						460 0 J										
INORGANICS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Aluminum	8930 0	9470 0	5860 0	7440 0	8930 0	7320 0	5830 0	9890 0	11200 0		14200 0	30000 0	12300 0	14900 0		
Antimony							99 50				300 0	210 0	402 0			
Arsenic	5 40 B	13 60 J	3 80 B	10 10 B	7 10 B	5 60	4 30 BJ	3 20 B	5 30 B		15 0 J	25 80 J	8 70 J	6 20 BJ		
Barium	152 0 J	276 0 J	56 70 J	105 0 J	181 0 J	102 0 J	82 40 J	136 0 J	305 0	59 0	308 0	423 0	313 0	120 0 B	182 0	
Beryllium		0 75 J									1 0 B	2 0 B	1 0 B	1 0 BJ		
Cadmium	0 510 B	0 50 B			0 49 B		1 20 B	0 98 B	1 90		2 0 B	5 0		3 0 B		
Calcium	3770 0 J	4690 0 J	23400 0 J	12300 0 J	10600 0 J	48300 0 J	89400 0 J	48300 0 J	17100 0 J	85500 0	234000 0	389000 0	522000 0	7340 0	107000 0	
Ch omium	36 20	35 30	28 40	34 40	33 80	34 90	38 0	43 60	40 10		110 0 J	118 0 J	23 0 J	14 0 J		
Cobalt		13 80	9 90	24 40	11 90	18 80	13 0					50 0				
Copper	63 0	60 90	50 80	57 40	56 30	53 90	14 30	81 50	76 10		265 0	178 0	15 0 B	18 0 B	14 0 B	
Iron	14800 0 J	15900 0 J	15900 0 J	15700 0 J	14900 0 J	12400 0 J	9840 0 J	16600 0 J	187000 0 J		32800 0 J	62100 0 J	25400 0 J	31900 0 J	50 0 J	
Lead	24 90 J	30 60 J	4 20 J	8 80 J	12 5 J	7 90 J	19 80 J	12 50 J	132 0 J		57 30 J	1570 0 J	18 0 J	2 90 B		
Magnesium	2510 0 J	2490 0 J	13600 0 J	6900 0 J	7240 0 J	27300 0 J	47700 0 J	21500 0 J	6570 0 J	36200 0 J	101000 0 J	174000 0 J	297000 0 J	408000 0J	43500 0 J	
Manganese	1060 0	1400 0	684 0	712 0	551 0	280 0	486 0	326 0	1090 0		3320 0	4520 0	1950 0	1040 0	963 0	
Mercury	0 10								0 670							
Nickel	13 50	16 60	10 50	16 20	15 30	13 90	9 30	13 70	19 90		450 0	397 0		31 0		
Potassium	5900 0	7140 0	2550 0	3270 0	5930 0	3080 0	2630 0	4370 0	10000 0		18300 0	18600 0	12600 0	23100 0		
Silver	2 30 BJ	3 50 J		4 20 J	3 20 J			6 50 J	20 20 J							
Sodium	4100 0					520 0				6550 0	8960 0	19400 0	22900 0	7370 0	31500 0	
Vanadium	28 60	28 80	17 70	25 90	29 0			29 30	33 50		54 0	71 0	46 0 B	25 0 B	15 0	
Zinc	90 50	66 90	41 90	53 50	43 80	52 90	55 40	71 0	268 0	37 0	112 0	208 0	63 0	74 0	31 0	
Cyanide	0 330	0 350	2 30	0 440					1 10							
Sulfate	3 990	11 30	52 10	9 40	132 0	154 0	107 0	613 20	11 40	95700 0	31300 0	38300 0	92200 0	5210 0	22600 0	
Sulfide	583 0	87 90	230 0	328 0	331 0	435 0	393 0	514 0	496 0	1740 0		4020 0	6860 0	9130 0	6290 0	
TENTATIVELY IDENTIFIED COMPOUNDS	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Benzaldehyde				270 0	330 0	530 0		820 0								
Benzo(B)Thiophene											4 0					
1 3 5 Cycloheptatriene							830 0									
Cyclohexene														14 0		
1 Ethyl 3 Methyl Benzene												23000 0				
Hexadecanoic Acid	1500 0	1700 0	1000 0	700 0	900 0	1300 0	1000 0	1100 0	850 0							
3 Methyl 3 Buten 2 One				410 0	530 0	1600 0	1100 0									
Methyl Cyclopentane														23 0		
3 Methyl Hexane												850 0				
1 1 2 Trichloro-1 2 Ethane	17 0	19 0	10 0	12 0	19 0	19 0										
Undecane												5200 0				

U S E P A DEFINED DATA QUALIFIERS

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
• U	Compound was tested for but not detected The sample quantitation limit must be corrected for dilution and for percent moisture For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by two, to account for the fact that only half of the extract is recovered	Analyte was analyzed for but not detected
• J	Estimated value Used when estimating a concentration for tentatively identified compounds (TICs) where a 1 1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria and the result is less than the sample quantitation limit but greater than zero Used in data validation when the quality control data indicate that a value may not be accurate	Estimated value Used in data validation when the quality control data indicate that a value may not be accurate
C	This flag applies to pesticide results where the identification is confirmed by GC/MS	Method qualifier indicates analysis by the Manual Spectrophotometric method
B	Analyte was 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	The reported value is less than the CRDL but greater than the instrument detection limit (IDL)
• D	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 <u>all</u> concentration values are flagged with the "D" flag	not used

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
E	Identifies compounds whose concentrations exceed the calibration range for that specific analysis All extracts containing compounds exceeding the calibration range must be diluted and analyzed again 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 must be reported on separate Forms I The Form I for the diluted sample must have the "DL" suffix appended to the sample number	The reported value is estimated because of the presence of interference
A	This flag indicates that a TIC is a suspected aldol concentration product formed by the reaction of the solvents used to process the sample in the laboratory	Method qualifier indicates analysis by Flame Atomic Absorption (AA)
M	not used	Duplicate injection (a QC parameter not met
N	not used	Spiked sample (a QC parameter) recovery not within control limits
S	not used	The reported value was determined by the Method of Standard Additions (MSA)
W	not used	Post digestion spike for Furnace AA analysis (a QC parameter) is out of control limits of 85% to 115% recovery, while sample absorbance is less than 50% of spike absorbance
*	not used	Duplicate analysis (a QC parameter) not within control limits
+	not used	Correlation coefficient for MSA (a QC parameter) is less than 0 995

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
P	not used	Method qualifier indicates analysis by ICP (Inductively Coupled Plasma) Spectroscopy
CV	not used	Method qualifier indicates analysis by Cold Vapor AA
AV	not used	Method qualifier indicates analysis by Automated Cold Vapor AA
AS	not used	Method qualifier indicates analysis by Semi-Automated Cold Spectrophotometry
T	not used	Method qualifier indicates Titrimetric analysis
NR	The analyte was not required to be analyzed	The analyte was not required to be analyzed
R	Rejected data The QC parameters indicate that the data is not usable for any purpose	Rejected data The QC parameters indicate that the data is not usable for any purpose

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X103

Lab Name ARDL, INC Contract 200247

Lab Code Case No SAS No SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-3

Level (low/med) LOW Date Received 11-08-91

% Solids 74 0

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8930			P	
7440-36-0	Antimony	12 7	U	N	P	R
7440-38-2	Arsenic	5 4	B	N	F	
7440-39-3	Barium	152		*	P	
7440-41-7	Beryllium	1 0	U		P	
7440-43-9	Cadmium	0 51	B		P	
7440-70-2	Calcium	3770		*	P	
7440-47-3	Chromium	36 2			P	
7440-48-4	Cobalt	11 5	U		P	
7440-50-8	Copper	63 0			P	
7439-89-6	Iron	14800		E	P	
7439-92-1	Lead	24 9		* W	F	
7439-95-4	Magnesium	2510			P	
7439-96-5	Manganese	1060			P	
7439-97-6	Mercury	0 10			CV	
7440-02-0	Nickel	13 5			P	
7440-09-7	Potassium	5900			P	
7782-49-2	Selenium	0 51	U	N W	F	
7440-22-4	Silver	2 3	B	N	P	
7440-23-5	Sodium	546	U		P	
7440-28-0	Thallium	1 0	U		F	
7440-62-2	Vanadium	28 6	U		P	
7440-66-6	Zinc	90 5			P	
	Cyanide	0 33			C	
	Sulfide	583			T	
	Sulfate	3 99			C	

Color Before BROWN Clarity Before Texture FINE

Color After COLORLESS Clarity After CLEAR Artifacts YES

Comments

GRASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X103RE

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-3RE

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0752

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 26 Date Analyzed 11/15/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	U
67-64-1	Acetone	39	J
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
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	UJ
56-23-5	Carbon Tetrachloride	14	UJ
75-27-4	Bromodichloromethane	14	UJ
78-87-5	1,2-Dichloropropane	14	UJ
10061-01-5	cis-1,3-Dichloropropene	14	UJ
79-01-6	Trichloroethene	13	J
124-48-1	Dibromochloromethane	14	UJ
79-00-5	1,1,2-Trichloroethane	14	UJ
71-43-2	Benzene	14	UJ
10061-02-6	trans-1,3-Dichloropropene	14	UJ
75-25-2	Bromoform	14	UJ
108-10-1	4-Methyl-2-Pentanone	14	UJ
591-78-6	2-Hexanone	14	UJ
127-18-4	Tetrachloroethene	14	UJ
79-34-5	1,1,2,2-Tetrachloroethane	14	UJ
108-88-3	Toluene	24	J
108-90-7	Chlorobenzene	14	UJ
100-41-4	Ethylbenzene	14	UJ
100-42-5	Styrene	14	UJ
1330-20-7	Xylene (total)	14	UJ

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X103

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-3

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0662

Level (low/med) LOW Date Received 11/08/91

% Moisture 26 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 5

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X103

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-3

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0662

Level (low/med) LOW Date Received 11/08/91

% Moisture 26 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 5

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	UJ
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	UJ
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	UJ
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~440~~ 200	JBL
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenz(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X103

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-3

Sample wt/vol 30 0 (g/mL) G Lab File ID _____

/ Moisture 26 decanted (Y/N) N Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SONC Date Extracted 11/15/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/18/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) Y pH 7 5 Sulfur Cleanup (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4 6	U
319-85-7	beta-BHC	4 6	U
319-86-8	delta-BHC	4 6	U
58-89-9	gamma-BHC (Lindane)	4 6	U
76-44-8	Heptachlor	4 6	U
309-00-2	Aldrin	4 6	U
1024-57-3	Heptachlor epoxide	4 6	U
959-98-8	Endosulfan I	4 6	U
60-57-1	Dieldrin	8 9	U
72-55-9	4 4 -DDE	8 9	U
72-20-8	Endrin	8 9	U
33213-65-9	Endosulfan II	8 9	U
72-54-8	4,4 -DDD	8 9	U
1031-07-8	Endosulfan sulfate	8 9	U
50-29-3	4,4 -DDT	8 9	U
72-43-5	Methoxychlor	46	U
53494-70-5	Endrin ketone	8 9	U
7421-36-3	Endrin aldehyde	8 9	U
5103-71-9	alpha-Chlordane	4 6	U
5103-74-2	gamma-Chlordane	4 6	U
8001-35-2	Toxaphene	460	U
12674-11-2	Aroclor-1016	89	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	89	U
53469-21-9	Aroclor-1242	89	U
12672-29-6	Aroclor-1248	89	U
11097-69-1	Aroclor-1254	89	U
11096-82-5	Aroclor-1260	89	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X103RE

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No C101

Matrix (soil/water) SOIL Lab Sample ID 200247-3RE

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0752

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 26 Date Analyzed 11/15/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	32 52	18	J
2		UNKNOWN	33 79	9	J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X103

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-3

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0662

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 26 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 5

Number TICs found 20

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

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	UNKNOWN	4 36	780	J
2	UNKNOWN	4 67	780	J
3	UNKNOWN	5 35	240	J
4	UNKNOWN	6 75	1300	J
5	UNKNOWN	7 56	1900	J
6	UNKNOWN	8 33	1400	J
7	UNKNOWN	8 63	980	J
8	UNKNOWN	11 00	700	J
9	UNKNOWN	12 81	390	J
10	UNKNOWN	13 03	460	J
11	UNKNOWN	25 28	280	J
12	UNKNOWN	25 38	690	J
13	57103 HEXADECANOIC ACID	25 49	1500	NJ
14	UNKNOWN	25 92	220	J
15	UNKNOWN	26 05	310	J
16	UNKNOWN	26 10	380	J
17	UNKNOWN	27 30	430	J
18	UNKNOWN	33 42	670	J
19	UNKNOWN ALKANE	34 65	690	J
20	UNKNOWN ALKANE	37 89	1000	J
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X101

Lab Name ARDL, INC Contract 200247

Lab Code Case No SAS No SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-1

Level (low/med) LOW Date Received 11-08-91

% Solids 74 5

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9470			P	
7440-36-0	Antimony	12 5	U	N	P	R
7440-38-2	Arsenic	13 6		N W	F	J
7440-39-3	Barium	276		*	P	J
7440-41-7	Beryllium	0 75			P	J
7440-43-9	Cadmium	0 50	B		P	
7440-70-2	Calcium	4690		*	P	J
7440-47-3	Chromium	35 3			P	
7440-48-4	Cobalt	13 8			P	
7440-50-8	Copper	60 9			P	
7439-89-6	Iron	15900		E	P	J
7439-92-1	Lead	30 6		*	F	J
7439-95-4	Magnesium	2490			P	J
7439-96-5	Manganese	1400			P	
7439-97-6	Mercury	0 096	U		CV	
7440-02-0	Nickel	16 6			P	
7440-09-7	Potassium	7140			P	
7782-49-2	Selenium	0 51	U	W N	F	J
7440-22-4	Silver	3 5		N	P	J
7440-23-5	Sodium	527	U		P	
7440-28-0	Thallium	1 0	U	W	F	J
7440-62-2	Vanadium	28 8	U		P	
7440-66-6	Zinc	66 9			P	
	Cyanide	0 35			C	
	Sulfide	87 9			T	
	Sulfate	11 3			C	

Color Before BROWN Clarity Before Texture MEDIUM

Color After COLORLESS Clarity After CLEAR Artifacts YES

Comments

GRASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-1

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0731

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 26 Date Analyzed 11/14/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	U
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
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
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	14	U
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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-1

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0642

Level (low/med) LOW Date Received 11/08/91

% Moisture 26 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/03/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

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	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2 -oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-1

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0642

Level (low/med) LOW Date Received 11/08/91

% Moisture 26 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/03/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

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	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	~~120~~ 440	JBK
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3 -Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~170~~ 440	JBK
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenz(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-1

Sample wt/vol 30 0 (g/mL) G Lab File ID _____

/ Moisture 26 decanted (Y/N) N Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SONC Date Extracted 11/15/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/18/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) Y pH 8 0 Sulfur Cleanup (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4 6	U
319-85-7	beta-BHC	4 6	U
319-86-8	delta-BHC	4 6	U
58-89-9	gamma-BHC (Lindane)	4 6	U
76-44-8	Heptachlor	4 6	U
309-00-2	Aldrin	4 6	U
1024-57-3	Heptachlor epoxide	4 6	U
959-98-8	Endosulfan I	4 6	U
60-57-1	Dieldrin	8 9	U
72-55-9	4,4 -DDE	8 9	U
72-20-8	Endrin	8 9	U
33213-65-9	Endosulfan II	8 9	U
72-54-8	4,4 -DDD	8 9	U
1031-07-8	Endosulfan sulfate	8 9	U
50-29-3	4,4 -DDT	8 9	U
72-43-5	Methoxychlor	46	U
53494-70-5	Endrin ketone	8 9	U
7421-36-3	Endrin aldehyde	8 9	U
5103-71-9	alpha-Chlordane	4 6	U
5103-74-2	gamma-Chlordane	4 6	U
8001-35-2	Toxaphene	460	U
12674-11-2	Aroclor-1016	89	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	89	U
53469-21-9	Aroclor-1242	89	U
12672-29-6	Aroclor-1248	89	U
11097-69-1	Aroclor-1254	89	U
11096-82-5	Aroclor-1260	89	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-1

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0731

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 26 Date Analyzed 11/14/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	76131	ETHANE, 1,1,2-TRICHLORO-1,2,	13 92	19	NJ
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-1

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0642

Level (low/med) LOW Date Received 11/08/91

% Moisture: 26 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/03/91

Injection Volume: 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 8 0

Number TICs found 20

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

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	UNKNOWN	4 34	550	J
2	UNKNOWN	4 64	550	J
3	UNKNOWN	6 75	1200	J
4	UNKNOWN	7 55	2400	J
5	UNKNOWN	8 33	2000	J
6	UNKNOWN	8 64	1200	J
7	UNKNOWN	11 01	710	J
8	UNKNOWN	11 89	540	J
9	UNKNOWN	12 81	400	J
10	UNKNOWN PHTHALATE	24 65	300	J
11	UNKNOWN	25 30	300	J
12	UNKNOWN	25 39	520	J
13	57103 HEXADECANOIC ACID	25 50	1700	~~N~~J
14	UNKNOWN	25 94	320	J
15	UNKNOWN	26 12	340	J
16	UNKNOWN	27 32	320	J
17	UNKNOWN	33 44	540	J
18	UNKNOWN ALKANE	34 69	1400	J
19	UNKNOWN ALKANE	37 96	2600	J
20	UNKNOWN	42 62	760	J
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X102

Lab Name ARDL, INC Contract 200247

Lab Code _____ Case No : _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-2

Level (low/med) LOW Date Received 11-08-91

/ Solids 70 2

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11200			P	
7440-36-0	Antimony	13 8	U	N	P	R
7440-38-2	Arsenic	5 3	B	N	F	
7440-39-3	Barium	305		*	P	J
7440-41-7	Beryllium	1 1	U		P	J
7440-43-9	Cadmium	1 9			P	
7440-70-2	Calcium	17100		*	P	J
7440-47-3	Chromium	40 1			P	
7440-48-4	Cobalt	12 4	U		P	
7440-50-8	Copper	76 1			P	
7439-89-6	Iron	187000		E	P	J
7439-92-1	Lead	132		*	F	J
7439-95-4	Magnesium	6570			P	J
7439-96-5	Manganese	1090			P	
7439-97-6	Mercury	0 67			CV	
7440-02-0	Nickel	19 9			P	
7440-09-7	Potassium	10000			P	
7782-49-2	Selenium	2 7	U	N W	F	J
7440-22-4	Silver	20 2		N	P	J
7440-23-5	Sodium	581	U		P	
7440-28-0	Thallium	1 1	U		F	
7440-62-2	Vanadium	33 5	U		P	
7440-66-6	Zinc	268			P	
	Cyanide	1 1			C	
	Sulfide	496			T	
	Sulfate	11 4			C	

Color Before BROWN Clarity Before _____ Texture FINE

Color After COLORLESS Clarity After CLEAR Artifacts _____

Comments

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-2

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0751

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 30 Date Analyzed 11/15/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	U
67-64-1	Acetone	14	UJ
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
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	UJ
591-78-6	2-Hexanone	14	UJ
127-18-4	Tetrachloroethene	14	UJ
79-34-5	1,1,2,2-Tetrachloroethane	14	UJ
108-88-3	Toluene	6	J
108-90-7	Chlorobenzene	14	UJ
100-41-4	Ethylbenzene	14	UJ
100-42-5	Styrene	14	UJ
1330-20-7	Xylene (total)	14	UJ

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-2

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0661

Level (low/med) LOW Date Received 11/08/91

% Moisture: 30 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 7

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	470	U
111-44-4	bis(2-Chloroethyl)ether	470	U
95-57-8	2-Chlorophenol	470	U
541-73-1	1,3-Dichlorobenzene	470	U
106-46-7	1,4-Dichlorobenzene	470	U
95-50-1	1,2-Dichlorobenzene	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2'-oxybis(1-Chloropropane)	470	U
106-44-5	4-Methylphenol	470	U
621-64-7	N-Nitroso-di-n-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
111-91-1	bis(2-Chloroethoxy)methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
120-82-1	1,2,4-Trichlorobenzene	470	U
91-20-3	Naphthalene	470	U
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	470	U
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	470	U
208-96-8	Acenaphthylene	470	U
606-20-2	2,6-Dinitrotoluene	470	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	470	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-2

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0661

Level (low/med) LOW Date Received 11/08/91

% Moisture 30 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume, 500 0 (uL) Date Analyzed 12/05/91

Injection Volume: 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 7

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	UJ
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	470	U
121-14-2	2,4-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	470	U
7005-72-3	4-Chlorophenyl-phenylether	470	U
86-73-7	Fluorene	470	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	UJ
86-30-6	N-Nitrosodiphenylamine (1)	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	470	U
120-12-7	Anthracene	470	U
86-74-8	Carbazole	470	UJ
84-74-2	Di-n-butylphthalate	470	U
206-44-0	Fluoranthene	470	U
129-00-0	Pyrene	470	U
85-68-7	Butylbenzylphthalate	470	U
91-94-1	3,3'-Dichlorobenzidine	470	U
56-55-3	Benzo(a)anthracene	470	U
218-01-9	Chrysene	470	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~470~~ 240	~~JB~~ U
117-84-0	Di-n-octylphthalate	470	U
205-99-2	Benzo(b)fluoranthene	350	J
207-08-9	Benzo(k)fluoranthene	120	J
50-32-8	Benzo(a)pyrene	470	U
193-39-5	Indeno(1,2,3-cd)pyrene	470	U
53-70-3	Dibenz(a,h)anthracene	470	U
191-24-2	Benzo(g,h,i)perylene	470	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-2

Sample wt/vol 30 0 (g/mL) G Lab File ID _____

/ Moisture 30 decanted (Y/N) N Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SONC Date Extracted 11/15/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/18/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) Y pH 7 7 Sulfur Cleanup (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4 9	U
319-85-7	beta-BHC	4 9	U
319-86-8	delta-BHC	4 9	U
58-89-9	gamma-BHC (Lindane)	4 9	U
76-44-8	Heptachlor	4 9	U
309-00-2	Aldrin	4 9	U
1024-57-3	Heptachlor epoxide	4 9	U
959-98-8	Endosulfan I	4 9	U
60-57-1	Dieldrin	9 4	U
72-55-9	4,4 -DDE	9 4	U
72-20-8	Endrin	9 4	U
33213-65-9	Endosulfan II	9 4	U
72-54-8	4,4 -DDD	9 4	U
1031-07-8	Endosulfan sulfate	9 4	U
50-29-3	4,4 -DDT	9 4	U
72-43-5	Methoxychlor	49	U
53494-70-5	Endrin ketone	9 4	U
7421-36-3	Endrin aldehyde	9 4	U
5103-71-9	alpha-Chlordane	4 9	U
5103-74-2	gamma-Chlordane	4 9	U
8001-35-2	Toxaphene	490	U
12674-11-2	Aroclor-1016	94	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	94	U
53469-21-9	Aroclor-1242	94	U
12672-29-6	Aroclor-1248	94	U
11097-69-1	Aroclor-1254	94	U
11096-82-5	Aroclor-1260	94	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-2

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0751

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 30 Date Analyzed 11/15/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-2

Sample wt/vol: 30 0 (g/mL) G Lab File ID >M0661

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 30 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 7

Number TICs found 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	4 40	1200	J
2		UNKNOWN	4 71	1500	J
3		UNKNOWN	6 75	1100	J
4		UNKNOWN	7 59	3900	J
5		UNKNOWN	8 36	3100	J
6		UNKNOWN	8 64	860	J
7		UNKNOWN	11 00	780	J
8		UNKNOWN	12 83	590	J
9		UNKNOWN	13 03	560	J
10		UNKNOWN	21 40	220	J
11		UNKNOWN PHTHALATE	24 63	200	J
12		UNKNOWN	25 29	230	J
13		UNKNOWN	25 41	350	J
14	57103	HEXADECANOIC ACID	25 48	850	NJ
15		UNKNOWN	26 05	200	J
16		UNKNOWN	26 10	190	J
17		UNKNOWN	33 97	1000	J
18		UNKNOWN ALKANE	34 66	1600	J
19		UNKNOWN ALKANE	37 91	5300	J
20		UNKNOWN ALKANE	42 54	2700	J
21					
22					
23					
24					
25					
[illegible]					
27					
28					
29					
30					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X103RE

Lab Name ARDL INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-3RE

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0752

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 26 Date Analyzed 11/15/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	U
67-64-1	Acetone	39	J
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
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	UJ
56-23-5	Carbon Tetrachloride	14	UJ
75-27-4	Bromodichloromethane	14	UJ
78-87-5	1,2-Dichloropropane	14	UJ
10061-01-5	cis-1,3-Dichloropropene	14	UJ
79-01-6	Trichloroethene	13	J
124-48-1	Dibromochloromethane	14	UJ
79-00-5	1,1,2-Trichloroethane	14	UJ
71-43-2	Benzene	14	UJ
10061-02-6	trans-1,3-Dichloropropene	14	UJ
75-25-2	Bromoform	14	UJ
108-10-1	4-Methyl-2-Pentanone	14	UJ
591-78-6	2-Hexanone	14	UJ
127-18-4	Tetrachloroethene	14	UJ
79-34-5	1,1,2,2-Tetrachloroethane	14	UJ
108-88-3	Toluene	24	J
108-90-7	Chlorobenzene	14	UJ
100-41-4	Ethylbenzene	14	UJ
100-42-5	Styrene	14	UJ
1330-20-7	Xylene (total)	14	UJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X103RE

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-3RE

Sample wt/vol 5 0 (g/mL) G Lab File ID >T0752

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 26 Date Analyzed 11/15/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 2

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

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	UNKNOWN	32 52	18	J
2	UNKNOWN	33 79	9	J
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
30				

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X104

Lab Name ARDL, INC Contract 200247

Lab Code: Case No SAS No SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-4

Level (low/med) LOW Date Received 11-08-91

% Solids 86 2

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5860			P	
7440-36-0	Antimony	9 9	U	N	P	R
7440-38-2	Arsenic	3 8	B	N	F	
7440-39-3	Barium	56 7		*	P	J
7440-41-7	Beryllium	0 79	U		P	J
7440-43-9	Cadmium	0 40	U		P	
7440-70-2	Calcium	23400		*	P	J
7440-47-3	Chromium	28 4			P	
7440-48-4	Cobalt	9 9			P	
7440-50-8	Copper	50 8			P	
7439-89-6	Iron	15900		E	P	J
7439-92-1	Lead	4 2		*	F	J
7439-95-4	Magnesium	13600			P	J
7439-96-5	Manganese	684			P	
7439-97-6	Mercury	0 080	U		CV	
7440-02-0	Nickel	10 5			P	
7440-09-7	Potassium	2550			P	
7782-49-2	Selenium	0 40	U	N W	F	J
7440-22-4	Silver	1 8	U	N	P	R
7440-23-5	Sodium	416	U		P	
7440-28-0	Thallium	0 80	U	W	F	J
7440-62-2	Vanadium	17 7	U		P	
7440-66-6	Zinc	41 9			P	
	Cyanide	2 3			C	
	Sulfide	230			T	
	Sulfate	52 1			C	

Color Before BROWN Clarity Before Texture MEDIUM

Color After COLORLESS Clarity After CLEAR Artifacts

Comments

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FPA SAMPLE NO

X104

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-4

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0734

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 14 Date Analyzed 11/14/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
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
591-78-6	2-Hexanone	12	U
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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X104

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-4

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0663

Level (low/med) LOW Date Received 11/08/91

% Moisture 14 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 6

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2 -oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	930	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	930	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	930	U
83-32-9	Acenaphthene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X104

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-4

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0663

Level (low/med) LOW Date Received 11/08/91

% Moisture 14 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 6

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	930	UJ
100-02-7	4-Nitrophenol	930	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	930	U
534-52-1	4,6-Dinitro-2-methylphenol	930	UJ
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	930	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	UJ
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3 -Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380 ~~340~~	~~JBU~~ BP
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X104

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-4

Sample wt/vol 30 0 (g/mL) G Lab File ID _____

/ Moisture 14 decanted (Y/N) N Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SONC Date Extracted 11/15/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/18/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) Y pH 7 6 Sulfur Cleanup (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4 0	U
319-85-7	beta-BHC	4 0	U
319-86-8	delta-BHC	4 0	U
58-89-9	gamma-BHC (Lindane)	4 0	U
76-44-8	Heptachlor	4 0	U
309-00-2	Aldrin	4 0	U
1024-57-3	Heptachlor epoxide	4 0	U
959-98-8	Endosulfan I	4 0	U
60-57-1	Dieldrin	7.7	U
72-55-9	4,4 -DDE	7 7	U
72-20-8	Endrin	7 7	U
33213-65-9	Endosulfan II	7 7	U
72-54-8	4,4 -DDD	7 7	U
1031-07-8	Endosulfan sulfate	7 7	U
50-29-3	4,4 -DDT	7 7	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin ketone	7 7	U
7421-36-3	Endrin aldehyde	7 7	U
5103-71-9	alpha-Chlordane	4 0	U
5103-74-2	gamma-Chlordane	4 0	U
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	77	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	77	U
53469-21-9	Aroclor-1242	77	U
12672-29-6	Aroclor-1248	77	U
11097-69-1	Aroclor-1254	77	U
11096-82-5	Aroclor-1260	77	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X104

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-4

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0734

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 14 Date Analyzed 11/14/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 5

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	76131	ETHANE, 1,1,2-TRICHLORO-1,2,	13 94	10	NJ
2		UNKNOWN ALKANE	25 44	7	J
3		UNKNOWN	31 55	9	J
4		UNKNOWN	33 82	13	J
5		UNKNOWN	38 46	8	J
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X104

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-4

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0663

Level (low/med) LOW Date Received 11/08/91

% Moisture 14 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 6

Number TICs found 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	7 52	220	J
2		UNKNOWN	8 63	770	J
3		UNKNOWN	11 00	400	J
4		UNKNOWN	11 88	240	J
5		UNKNOWN ALKANE	21 27	170	J
6		UNKNOWN ALKANE	21 89	160	J
7		UNKNOWN ALKANE	22 51	250	J
8		UNKNOWN ALKANE	22 58	290	J
9		UNKNOWN ALKANE	23 67	260	J
10		UNKNOWN ALKANE	23 80	500	J
11		UNKNOWN ALKANE	24 79	260	J
12	57103	HEXADECANOIC ACID	25 48	1000	NJ
13		UNKNOWN ALKANE	25 86	240	J
14		UNKNOWN	26 06	220	J
15		UNKNOWN	26 10	260	J
16		UNKNOWN	26 87	210	J
17		UNKNOWN	27 49	190	J
18		UNKNOWN	30 21	250	J
19		UNKNOWN ALKANE	30 49	360	J
20		UNKNOWN	33 42	480	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X105

Lab Name ARDL, INC Contract 200247

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-5

Level (low/med) LOW Date Received 11-08-91

% Solids 71 1

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7440			P	
7440-36-0	Antimony	12 4	U	N	P	R
7440-38-2	Arsenic	10 1	B	N	F	
7440-39-3	Barium	105		*	P	J
7440-41-7	Beryllium	1 0	U		P	J
7440-43-9	Cadmium	0 50	U		P	
7440-70-2	Calcium	12300		*	P	J
7440-47-3	Chromium	34 4			P	
7440-48-4	Cobalt	24 4			P	
7440-50-8	Copper	57.4			P	
7439-89-6	Iron	15700		E	P	J
7439-92-1	Lead	8 8		*	F	J
7439-95-4	Magnesium	6900			P	J
7439-96-5	Manganese	712			P	
7439-97-6	Mercury	0 10	U		CV	
7440-02-0	Nickel	16 2			P	
7440-09-7	Potassium	3270			P	
7782-49-2	Selenium	0 51	U	N W	F	J
7440-22-4	Silver	4 2		N	P	J
7440-23-5	Sodium	523	U		P	
7440-28-0	Thallium	1 0	U	W	F	J
7440-62-2	Vanadium	25 9	U		P	
7440-66-6	Zinc	53 5			P	
	Cyanide	0 44			C	
	Sulfide	328			T	
	Sulfate	9 4			C	

Color Before BROWN Clarity Before _____ Texture MEDIUM

Color After COLORLESS Clarity After CLEAR Artifacts YES

Comments

ROCKS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X105

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-5

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0735

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 29 Date Analyzed 11/14/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	U
67-64-1	Acetone	28	
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
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	52	
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
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	14	U
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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X105

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-5

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0647

Level (low/med) LOW Date Received 11/08/91

% Moisture 29 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/03/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

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	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
95-50-1	1,2-Dichlorobenzene	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2 -oxybis(1-Chloropropane)	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	460	U
208-96-8	Acenaphthylene	460	U
606-20-2	2,6-Dinitrotoluene	460	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	460	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X105

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-5

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0647

Level (low/med) LOW Date Received 11/08/91

% Moisture 29 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/03/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

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	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	460	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	460	U
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3 -Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~150~~ 460	~~J~~ B4 RB
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenz(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X105

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-5

Sample wt/vol 30 0 (g/mL) G Lab File ID _____

/ Moisture 29 decanted (Y/N) N Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SONC Date Extracted 11/15/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/18/91

Injection Volume 2 (uL) Dilution Factor 1 0

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	4 8	U
319-85-7	beta-BHC	4 8	U
319-86-8	delta-BHC	4 8	U
58-89-9	gamma-BHC (Lindane)	4 8	U
76-44-8	Heptachlor	4 8	U
309-00-2	Aldrin	4 8	U
1024-57-3	Heptachlor epoxide	4 8	U
959-98-8	Endosulfan I	4 8	U
60-57-1	Dieldrin	9 3	U
72-55-9	4,4 -DDE	9 3	U
72-20-8	Endrin	9 3	U
33213-65-9	Endosulfan II	9 3	U
72-54-8	4,4 -DDD	9 3	U
1031-07-8	Endosulfan sulfate	9 3	U
50-29-3	4,4 -DDT	9 3	U
72-43-5	Methoxychlor	48	U
53494-70-5	Endrin ketone	9 3	U
7421-36-3	Endrin aldehyde	9 3	U
5103-71-9	alpha-Chlordane	4 8	U
5103-74-2	gamma-Chlordane	4 8	U
8001-35-2	Toxaphene	480	U
12674-11-2	Aroclor-1016	93	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	93	U
53469-21-9	Aroclor-1242	93	U
12672-29-6	Aroclor-1248	93	U
11097-69-1	Aroclor-1254	93	U
11096-82-5	Aroclor-1260	93	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X105

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No C101

Matrix (soil/water) SOIL Lab Sample ID 200247-5

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0735

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 29 Date Analyzed 11/14/91

GC Column: 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	76131	ETHANE, 1,1,2-TRICHLORO-1,2,	13 90	12	NJ
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X105

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-5

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0647

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 29 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/03/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 0

Number TICs found 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	814788	3-BUTEN-2-ONE, 3-METHYL-	4 30	410	NJ
2		UNKNOWN	4 60	310	J
3		UNKNOWN	5 31	220	J
4		UNKNOWN	6 72	1400	J
5		UNKNOWN	7 51	1400	J
6		UNKNOWN	8 31	1100	J
7		UNKNOWN	8 62	850	J
8		UNKNOWN	11 01	1000	J
9	100527	BENZALDEHYDE	11 31	270	NJ
10		UNKNOWN	11 88	180	J
11		UNKNOWN	21 42	140	J
12		UNKNOWN	23 78	180	J
13		UNKNOWN	23 82	180	J
14	57103	HEXADECANOIC ACID	25 46	700	NJ
15		UNKNOWN	26 07	350	J
16		UNKNOWN	26 11	440	J
17		UNKNOWN	26 71	150	J
18		UNKNOWN	33 44	730	J
19		UNKNOWN ALKANE	34 68	380	J
20		UNKNOWN	37 92	470	J
21					
22					
23					
24					
25					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X106

Lab Name ARDL, INC Contract 200247

Lab Code Case No SAS No SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-6

Level (low/med) LOW Date Received 11-08-91

/ Solids 64 5

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8930			P	
7440-36-0	Antimony	12 3	U	N	P	R
7440-38-2	Arsenic	7 1	B	N	F	
7440-39-3	Barium	181		*	P	J
7440-41-7	Beryllium	0 98	U		P	J
7440-43-9	Cadmium	0 49	B		P	
7440-70-2	Calcium	10600		*	P	J
7440-47-3	Chromium	33.8			P	
7440-48-4	Cobalt	11 9			P	
7440-50-8	Copper	56 3			P	
7439-89-6	Iron	14900		E	P	J
7439-92-1	Lead	12 5		*	F	J
7439-95-4	Magnesium	7240			P	J
7439-96-5	Manganese	551			P	
7439-97-6	Mercury	0 12	U		CV	
7440-02-0	Nickel	15 3			P	
7440-09-7	Potassium	5930			P	
7782-49-2	Selenium	0 50	U	W N	F	J
7440-22-4	Silver	3 2		N	P	J
7440-23-5	Sodium	517	U		P	
7440-28-0	Thallium	1 0	U	W	F	J
7440-62-2	Vanadium	29 0	W		P	
7440-66-6	Zinc	43 8			P	
	Cyanide	0 26	U		C	
	Sulfide	331			T	
	Sulfate	132			C	

Color Before BROWN Clarity Before Texture MEDIUM

Color After COLORLESS Clarity After CLEAR Artifacts

Comments

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X106

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-6

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0736

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 36 Date Analyzed 11/14/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	16	U
67-64-1	Acetone	55	
75-15-0	Carbon Disulfide	16	U
75-35-4	1,1-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	16	U
540-59-0	1,2-Dichloroethene (total)	16	U
67-66-3	Chloroform	16	U
107-06-2	1,2-Dichloroethane	16	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	U
78-87-5	1,2-Dichloropropane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
79-01-6	Trichloroethene	30	
124-48-1	Dibromochloromethane	16	U
79-00-5	1,1,2-Trichloroethane	16	U
71-43-2	Benzene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
75-25-2	Bromoform	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
108-88-3	Toluene	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
100-42-5	Styrene	16	U
1330-20-7	Xylene (total)	16	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X106

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-6

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0648

Level (low/med) LOW Date Received 11/08/91

% Moisture 36 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/03/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 4

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	520	U
111-44-4	bis(2-Chloroethyl)ether	520	U
95-57-8	2-Chlorophenol	520	U
541-73-1	1,3-Dichlorobenzene	520	U
106-46-7	1,4-Dichlorobenzene	520	U
95-50-1	1,2-Dichlorobenzene	520	U
95-48-7	2-Methylphenol	520	U
108-60-1	2,2 -oxybis(1-Chloropropane)	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-di-n-propylamine	520	U
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
111-91-1	bis(2-Chloroethoxy)methane	520	U
120-83-2	2,4-Dichlorophenol	520	U
120-82-1	1,2,4-Trichlorobenzene	520	U
91-20-3	Naphthalene	520	U
106-47-8	4-Chloroaniline	520	U
87-68-3	Hexachlorobutadiene	520	U
59-50-7	4-Chloro-3-methylphenol	520	U
91-57-6	2-Methylnaphthalene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	520	U
208-96-8	Acenaphthylene	520	U
606-20-2	2,6-Dinitrotoluene	520	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	520	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X106

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-6

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0648

Level (low/med) LOW Date Received 11/08/91

% Moisture 36 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/03/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 4

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	520	U
121-14-2	2,4-Dinitrotoluene	520	U
84-66-2	Diethylphthalate	520	U
7005-72-3	4-Chlorophenyl-phenylether	520	U
86-73-7	Fluorene	520	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	520	U
101-55-3	4-Bromophenyl-phenylether	520	U
118-74-1	Hexachlorobenzene	520	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	520	U
120-12-7	Anthracene	520	U
86-74-8	Carbazole	520	U
84-74-2	Di-n-butylphthalate	520	U
206-44-0	Fluoranthene	520	U
129-00-0	Pyrene	520	U
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3 -Dichlorobenzidine	520	U
56-55-3	Benzo(a)anthracene	520	U
218-01-9	Chrysene	520	U
117-81-7	bis(2-Ethylhexyl)phthalate	520	U
117-84-0	Di-n-octylphthalate	520	U
205-99-2	Benzo(b)fluoranthene	520	U
207-08-9	Benzo(k)fluoranthene	520	U
50-32-8	Benzo(a)pyrene	520	U
193-39-5	Indeno(1,2,3-cd)pyrene	520	U
53-70-3	Dibenz(a,h)anthracene	520	U
191-24-2	Benzo(g,h,i)perylene	520	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X106

Lab Name ARDL, INC Contract HANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-6

Sample wt/vol 30 0 (g/mL) G Lab File ID _____

/ Moisture 36 decanted (Y/N) N Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SONC Date Extracted 11/15/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/18/91

Injection Volume 2 (uL) Dilution Factor 1 0

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	5 3	U
319-85-7	beta-BHC	5 3	U
319-86-8	delta-BHC	5 3	U
58-89-9	gamma-BHC (Lindane)	5 3	U
76-44-8	Heptachlor	5 3	U
309-00-2	Aldrin	5 3	U
1024-57-3	Heptachlor epoxide	5 3	U
959-98-8	Endosulfan I	5 3	U
60-57-1	Dieldrin	10	U
72-55-9	4,4 -DDE	10	U
72-20-8	Endrin	10	U
33213-65-9	Endosulfan II	10	U
72-54-8	4,4 -DDD	10	U
1031-07-8	Endosulfan sulfate	10	U
50-29-3	4,4 -DDT	10	U
72-43-5	Methoxychlor	53	U
53494-70-5	Endrin ketone	10	U
7421-36-3	Endrin aldehyde	10	U
5103-71-9	alpha-Chlordane	5 3	U
5103-74-2	gamma-Chlordane	5 3	U
8001-35-2	Toxaphene	530	U
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	100	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X106

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-6

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0736

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 36 Date Analyzed 11/14/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	76131	ETHANE, 1,1,2-TRICHLORO-1,2,	13 90	[illegible] 19	NJ
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X106

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-6

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0648

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 36 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/03/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) N pH 7 4

Number TICs found 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	814788	3-BUTEN-2-ONE, 3-METHYL-	4.29	530	NJ
2		UNKNOWN	4 59	430	J
3		UNKNOWN	5 29	220	J
4		UNKNOWN	6 71	1300	J
5		UNKNOWN	7 50	1700	J
6		UNKNOWN	8 29	1300	J
7		UNKNOWN	8 61	1000	J
8		UNKNOWN	10 99	880	J
9	100527	BENZALDEHYDE	11 29	330	NJ
10		UNKNOWN	11 87	300	J
11		UNKNOWN	12 79	310	J
12		UNKNOWN	12 99	240	J
13		UNKNOWN	21 40	170	J
14	57103	HEXADECANOIC ACID	25 44	900	NJ
15		UNKNOWN	26 05	290	J
16		UNKNOWN	26 10	410	J
17		UNKNOWN	33 42	800	J
18		UNKNOWN	34 65	490	J
19		UNKNOWN	37 90	500	J
20		UNKNOWN	43 03	1000	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X107

Lab Name ARDL, INC Contract 200247

Lab Code: Case No SAS No SDG No G101

Matrix (soil/water) SOIL Lab Sample ID: 200247-7

Level (low/med) LOW Date Received: 11-08-91

% Solids: 58 9

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7320			P	
7440-36-0	Antimony	12 4	U	N	P	R
7440-38-2	Arsenic	5 6	B	N	F	
7440-39-3	Barium	102		*	P	J
7440-41-7	Beryllium	0 99	U		P	J
7440-43-9	Cadmium	0 50	U		P	
7440-70-2	Calcium	48300		*	P	J
7440-47-3	Chromium	34 9			P	
7440-48-4	Cobalt	18 8			P	
7440-50-8	Copper	53 9			P	
7439-89-6	Iron	12400		E	P	J
7439-92-1	Lead	7 9		*	F	J
7439-95-4	Magnesium	27300			P	J
7439-96-5	Manganese	280			P	
7439-97-6	Mercury	0 11	U		CV	
7440-02-0	Nickel	13 9			P	
7440-09-7	Potassium	3080			P	
7782-49-2	Selenium	2 6	U	N W	F	J
7440-22-4	Silver	2 2	U	N	P	R
7440-23-5	Sodium	520			P	
7440-28-0	Thallium	1 0	U		F	
7440-62-2	Vanadium	25 0	U		P	
7440-66-6	Zinc	52 9			P	
	Cyanide	0 42	U		C	
	Sulfide	435			T	
	Sulfate	154			C	

Color Before BROWN Clarity Before Texture FINE

Color After COLORLESS Clarity After CLEAR Artifacts

Comments

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X107

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-7

Sample wt/vol 5 0 (g/mL) G Lab File ID ,J0737

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 41 Date Analyzed 11/14/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	17	U
67-64-1	Acetone	110	
75-15-0	Carbon Disulfide	17	U
75-35-4	1,1-Dichloroethene	17	U
75-34-3	1,1-Dichloroethane	17	U
540-59-0	1,2-Dichloroethene (total)	17	U
67-66-3	Chloroform	17	U
107-06-2	1,2-Dichloroethane	17	U
78-93-3	2-Butanone	17	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon Tetrachloride	17	U
75-27-4	Bromodichloromethane	17	U
78-87-5	1,2-Dichloropropane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
79-01-6	Trichloroethene	17	U
124-48-1	Dibromochloromethane	17	U
79-00-5	1,1,2-Trichloroethane	17	U
71-43-2	Benzene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
75-25-2	Bromoform	17	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
108-88-3	Toluene	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
100-42-5	Styrene	17	U
1330-20-7	Xylene (total)	17	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X107

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-7

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0664

Level (low/med) LOW Date Received 11/08/91

% Moisture 41 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 7

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	560	U
111-44-4	bis(2-Chloroethyl)ether	560	U
95-57-8	2-Chlorophenol	560	U
541-73-1	1,3-Dichlorobenzene	560	U
106-46-7	1,4-Dichlorobenzene	560	U
95-50-1	1,2-Dichlorobenzene	560	U
95-48-7	2-Methylphenol	560	U
108-60-1	2,2 -oxybis(1-Chloropropane)	560	U
106-44-5	4-Methylphenol	560	U
621-64-7	N-Nitroso-di-n-propylamine	560	U
67-72-1	Hexachloroethane	560	U
98-95-3	Nitrobenzene	560	U
78-59-1	Isophorone	560	U
88-75-5	2-Nitrophenol	560	U
105-67-9	2,4-Dimethylphenol	560	U
111-91-1	bis(2-Chloroethoxy)methane	560	U
120-83-2	2,4-Dichlorophenol	560	U
120-82-1	1,2,4-Trichlorobenzene	560	U
91-20-3	Naphthalene	560	U
106-47-8	4-Chloroaniline	560	U
87-68-3	Hexachlorobutadiene	560	U
59-50-7	4-Chloro-3-methylphenol	560	U
91-57-6	2-Methylnaphthalene	560	U
77-47-4	Hexachlorocyclopentadiene	560	U
88-06-2	2,4,6-Trichlorophenol	560	U
95-95-4	2,4,5-Trichlorophenol	1400	U
91-58-7	2-Chloronaphthalene	560	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	560	U
208-96-8	Acenaphthylene	560	U
606-20-2	2,6-Dinitrotoluene	560	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	560	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X107

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-7

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0664

Level (low/med) LOW Date Received 11/08/91

% Moisture 41 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 7

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	UJ
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	560	U
121-14-2	2,4-Dinitrotoluene	560	U
84-66-2	Diethylphthalate	560	U
7005-72-3	4-Chlorophenyl-phenylether	560	U
86-73-7	Fluorene	560	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	UJ
86-30-6	N-Nitrosodiphenylamine (1)	560	U
101-55-3	4-Bromophenyl-phenylether	560	U
118-74-1	Hexachlorobenzene	560	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	250	J
86-74-8	Carbazole	560	UJ
84-74-2	Di-n-butylphthalate	560	U
206-44-0	Fluoranthene	1900	
129-00-0	Pyrene	1700	
85-68-7	Butylbenzylphthalate	560	U
91-94-1	3,3 -Dichlorobenzidine	560	U
56-55-3	Benzo(a)anthracene	1000	
218-01-9	Chrysene	950	
117-81-7	bis(2-Ethylhexyl)phthalate	560 ~~230~~	JBL
117-84-0	Di-n-octylphthalate	560	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	580	
50-32-8	Benzo(a)pyrene	800	
193-39-5	Indeno(1,2,3-cd)pyrene	460	J
53-70-3	Dibenz(a,h)anthracene	560	U
191-24-2	Benzo(g,h,i)perylene	560	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X107

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix: (soil/water) SOIL Lab Sample ID 200247-7

Sample wt/vol: 30 0 (g/mL) G Lab File ID _____

/ Moisture 41 decanted (Y/N) N Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SONC Date Extracted 11/15/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/18/91

Injection Volume: 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) Y pH 7 7 Sulfur Cleanup (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5 8	U
319-85-7	beta-BHC	5 8	U
319-86-8	delta-BHC	5 8	U
58-89-9	gamma-BHC (Lindane)	5 8	U
76-44-8	Heptachlor	5 8	U
309-00-2	Aldrin	5 8	U
1024-57-3	Heptachlor epoxide	5 8	U
959-98-8	Endosulfan I	5 8	U
60-57-1	Dieldrin	11	U
72-55-9	4,4 -DDE	11	U
72-20-8	Endrin	11	U
33213-65-9	Endosulfan II	11	U
72-54-8	4,4 -DDD	11	U
1031-07-8	Endosulfan sulfate	11	U
50-29-3	4,4 -DDT	11	U
72-43-5	Methoxychlor	58	U
53494-70-5	Endrin ketone	11	U
7421-36-3	Endrin aldehyde	11	U
5103-71-9	alpha-Chlordane	5 8	U
5103-74-2	gamma-Chlordane	5 8	U
8001-35-2	Toxaphene	580	U
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	230	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	110	U
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	110	U
11096-82-5	Aroclor-1260	110	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X107

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-7

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0737

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 41 Date Analyzed 11/14/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	76131	ETHANE, 1,1,2-TRICHLORO-1,2,	13 94	19	NJ
2		UNKNOWN	32 63	9	J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X107

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-7

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0664

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 41 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 7

Number TICs found 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	814788	3-BUTEN-2-ONE, 3-METHYL-	4 41	1600	NJ
2		UNKNOWN	4 72	1500	J
3		UNKNOWN	7 57	1200	J
4		UNKNOWN	8 34	2400	J
5		UNKNOWN	8 63	920	J
6		UNKNOWN	11 00	920	J
7	100527	BENZALDEHYDE	11 30	530	NJ
8		UNKNOWN	11 89	970	J
9		UNKNOWN	13 02	530	J
10	57103	HEXADECANOIC ACID	25 47	1300	NJ
11		UNKNOWN	25 65	660	J
12		UNKNOWN	26 10	370	J
13		UNKNOWN PAH	28 70	580	J
14		UNKNOWN	30 50	990	J
15		UNKNOWN ALKANE	32 32	530	J
16		UNKNOWN	33 43	670	J
17		UNKNOWN	33 97	720	J
18		UNKNOWN ALKANE	34 67	880	J
19		UNKNOWN PAH	35 59	680	J
20		UNKNOWN ALKANE	37 92	920	J
21					
22					
23					
24					
25					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X108

Lab Name ARDL, INC Contract 200247

Lab Code: Case No : SAS No : SDG No : G101

Matrix (soil/water) SOIL Lab Sample ID 200247-8

Level (low/med) LOW Date Received 11-08-91

% Solids 48 3

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9890			P	
7440-36-0	Antimony	16 3	U	N	P	R
7440-38-2	Arsenic	3 2	B	N	F	
7440-39-3	Barium	136		*	P	J
7440-41-7	Beryllium	1.3	U		P	J
7440-43-9	Cadmium	0 98	B		P	
7440-70-2	Calcium	48300		*	P	J
7440-47-3	Chromium	43 6			P	
7440-48-4	Cobalt	14 7	U		P	
7440-50-8	Copper	81 5			P	
7439-89-6	Iron	16600		E	P	J
7439-92-1	Lead	12 5		*	F	J
7439-95-4	Magnesium	21500			P	J
7439-96-5	Manganese	326			P	
7439-97-6	Mercury	0 13	U		CV	
7440-02-0	Nickel	13 7			P	
7440-09-7	Potassium	4370			P	
7782-49-2	Selenium	0 70	U	N W	F	J
7440-22-4	Silver	6 5		N	P	J
7440-23-5	Sodium	685	U		P	
7440-28-0	Thallium	1 4	U	W	F	J
7440-62-2	Vanadium	29 3	U		P	
7440-66-6	Zinc	71 0			P	
	Cyanide	0 48	U		C	
	Sulfide	514			T	
	Sulfate	613 2			C	

Color Before BROWN Clarity Before Texture MEDIUM

Color After COLORLESS Clarity After CLEAR Artifacts YES

Comments

GRASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X108

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-8

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0756

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 52 Date Analyzed 11/15/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	21	U
74-83-9	Bromomethane	21	U
75-01-4	Vinyl Chloride	21	U
75-00-3	Chloroethane	21	U
75-09-2	Methylene Chloride	21	U
67-64-1	Acetone	68	J
75-15-0	Carbon Disulfide	21	U
75-35-4	1,1-Dichloroethene	21	U
75-34-3	1,1-Dichloroethane	21	U
540-59-0	1,2-Dichloroethene (total)	21	U
67-66-3	Chloroform	21	U
107-06-2	1,2-Dichloroethane	21	U
78-93-3	2-Butanone	21	U
71-55-6	1,1,1-Trichloroethane	21	U
56-23-5	Carbon Tetrachloride	21	U
75-27-4	Bromodichloromethane	21	U
78-87-5	1,2-Dichloropropane	21	U
10061-01-5	cis-1,3-Dichloropropene	21	U
79-01-6	Trichloroethene	21	U
124-48-1	Dibromochloromethane	21	U
79-00-5	1,1,2-Trichloroethane	21	U
71-43-2	Benzene	21	U
10061-02-6	trans-1,3-Dichloropropene	21	U
75-25-2	Bromoform	21	U
108-10-1	4-Methyl-2-Pentanone	21	U
591-78-6	2-Hexanone	21	U
127-18-4	Tetrachloroethene	21	U
79-34-5	1,1,2,2-Tetrachloroethane	21	U
108-88-3	Toluene	21	U
108-90-7	Chlorobenzene	21	U
100-41-4	Ethylbenzene	21	U
100-42-5	Styrene	21	U
1330-20-7	Xylene (total)	21	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X108

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-8

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0665

Level (low/med) LOW Date Received 11/08/91

% Moisture 52 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 7

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	690	U
111-44-4	bis(2-Chloroethyl)ether	690	U
95-57-8	2-Chlorophenol	690	U
541-73-1	1,3-Dichlorobenzene	690	U
106-46-7	1,4-Dichlorobenzene	690	U
95-50-1	1,2-Dichlorobenzene	690	U
95-48-7	2-Methylphenol	690	U
108-60-1	2,2'-oxybis(1-Chloropropane)	690	U
106-44-5	4-Methylphenol	690	U
621-64-7	N-Nitroso-di-n-propylamine	690	U
67-72-1	Hexachloroethane	690	U
98-95-3	Nitrobenzene	690	U
78-59-1	Isophorone	690	U
88-75-5	2-Nitrophenol	690	U
105-67-9	2,4-Dimethylphenol	690	U
111-91-1	bis(2-Chloroethoxy)methane	690	U
120-83-2	2,4-Dichlorophenol	690	U
120-82-1	1,2,4-Trichlorobenzene	690	U
91-20-3	Naphthalene	370	J
106-47-8	4-Chloroaniline	690	U
87-68-3	Hexachlorobutadiene	690	U
59-50-7	4-Chloro-3-methylphenol	690	U
91-57-6	2-Methylnaphthalene	690	U
77-47-4	Hexachlorocyclopentadiene	690	U
88-06-2	2,4,6-Trichlorophenol	690	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	690	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	690	U
208-96-8	Acenaphthylene	690	U
606-20-2	2,6-Dinitrotoluene	690	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	690	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X108

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-8

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0665

Level (low/med) LOW Date Received 11/08/91

% Moisture 52 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 7

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	UJ
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	690	U
121-14-2	2,4-Dinitrotoluene	690	U
84-66-2	Diethylphthalate	690	U
7005-72-3	4-Chlorophenyl-phenylether	690	U
86-73-7	Fluorene	690	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	UJ
86-30-6	N-Nitrosodiphenylamine (1)	690	U
101-55-3	4-Bromophenyl-phenylether	690	U
118-74-1	Hexachlorobenzene	690	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	760	
120-12-7	Anthracene	520	J
86-74-8	Carbazole	690	UJ
84-74-2	Di-n-butylphthalate	690	U
206-44-0	Fluoranthene	1000	
129-00-0	Pyrene	850	
85-68-7	Butylbenzylphthalate	690	U
91-94-1	3,3 -Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	690	U
218-01-9	Chrysene	690	U
117-81-7	bis(2-Ethylhexyl)phthalate	690 ~~310~~	JBK
117-84-0	Di-n-octylphthalate	690	U
205-99-2	Benzo(b)fluoranthene	690	U
207-08-9	Benzo(k)fluoranthene	690	U
50-32-8	Benzo(a)pyrene	690	U
193-39-5	Indeno(1,2,3-cd)pyrene	690	U
53-70-3	Dibenz(a,h)anthracene	690	U
191-24-2	Benzo(g,h,i)perylene	690	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X108

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-8

Sample wt/vol 30 0 (g/mL) G Lab File ID _____

/ Moisture 52 decanted (Y/N) N Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SONC Date Extracted 11/15/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/18/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) Y pH 7 7 Sulfur Cleanup (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	7 1	U
319-85-7	beta-BHC	7 1	U
319-86-8	delta-BHC	7 1	U
58-89-9	gamma-BHC (Lindane)	7 1	U
76-44-8	Heptachlor	7 1	U
309-00-2	Aldrin	7 1	U
1024-57-3	Heptachlor epoxide	7 1	U
959-98-8	Endosulfan I	7 1	U
60-57-1	Dieldrin	14	U
72-55-9	4,4 -DDE	14	U
72-20-8	Endrin	14	U
33213-65-9	Endosulfan II	14	U
72-54-8	4,4 -DDD	14	U
1031-07-8	Endosulfan sulfate	14	U
50-29-3	4,4 -DDT	14	U
72-43-5	Methoxychlor	71	U
53494-70-5	Endrin ketone	14	U
7421-36-3	Endrin aldehyde	14	U
5103-71-9	alpha-Chlordane	7 1	U
5103-74-2	gamma-Chlordane	7 1	U
8001-35-2	Toxaphene	710	U
12674-11-2	Aroclor-1016	140	U
11104-28-2	Aroclor-1221	280	U
11141-16-5	Aroclor-1232	140	U
53469-21-9	Aroclor-1242	140	U
12672-29-6	Aroclor-1248	140	U
11097-69-1	Aroclor-1254	140	U
11096-82-5	Aroclor-1260	140	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X108

1 Name ARDL INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-8

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0756

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 52 Date Analyzed 11/15/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	29 14	21	J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X108

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-8

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0665

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 52 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 7

Number TICs found 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	4 36	690	J
2		UNKNOWN	4 67	810	J
3		UNKNOWN	6 75	1600	J
4		UNKNOWN	8 62	1000	J
5		UNKNOWN	11 00	700	J
6	100527	BENZALDEHYDE	11 30	820	NJ
7		UNKNOWN	23 81	600	J
8		UNKNOWN	24 64	640	J
9	57103	HEXADECANOIC ACID	25 47	1100	NJ
10		UNKNOWN	26 69	2100	J
11		UNKNOWN	30 40	1100	J
12		UNKNOWN ALKANE	30 50	810	J
13		UNKNOWN ALKANE	32 32	660	J
14		UNKNOWN	32 41	410	J
15		UNKNOWN	33 43	540	J
16		UNKNOWN	33 96	3600	J
17		UNKNOWN ALKANE	34 66	4600	J
18		UNKNOWN	36 96	1800	J
19		UNKNOWN ALKANE	37 90	2500	J
20		UNKNOWN	39 40	2200	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X109

Lab Name ARDL, INC Contract 200247

Lab Code Case No SAS No SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-9

Level (low/med) LOW Date Received 11-08-91

% Solids: 51 2

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5830			P	
7440-36-0	Antimony	99 5		N	P	
7440-38-2	Arsenic	4 3	B	N	F	J
7440-39-3	Barium	82 4		*	P	J
7440-41-7	Beryllium	1 2	U		P	J
7440-43-9	Cadmium	1 2	B		P	
7440-70-2	Calcium	89400		*	P	J
7440-47-3	Chromium	38 0			P	
7440-48-4	Cobalt	13 0			P	
7440-50-8	Copper	14 3			P	
7439-89-6	Iron	9840		E	P	J
7439-92-1	Lead	19 8		S *	F	J
7439-95-4	Magnesium	47700			P	J
7439-96-5	Manganese	486			P	
7439-97-6	Mercury	0 14	U		CV	
7440-02-0	Nickel	9 3			P	
7440-09-7	Potassium	2630			P	
7782-49-2	Selenium	0 57	U	N W	F	J
7440-22-4	Silver	2 0	U	N	P	R
7440-23-5	Sodium	608	U		P	
7440-28-0	Thallium	1 1	U		F	
7440-62-2	Vanadium	23 4	U		P	
7440-66-6	Zinc	55 4			P	
	Cyanide	0 45	U		C	
	Sulfide	393			T	
	Sulfate	107			C	

Color Before BROWN Clarity Before Texture MEDIU

Color After COLORLESS Clarity After CLEAR Artifacts YES

Comments

GRASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
X109

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No C101

Matrix (soil/water) SOIL Lab Sample ID 200247-9

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0757

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 49 Date Analyzed 11/15/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	8	J
67-64-1	Acetone	44	J
75-15-0	Carbon Disulfide	20	U
75-35-4	1,1-Dichloroethene	20	U
75-34-3	1,1-Dichloroethane	20	U
540-59-0	1,2-Dichloroethene (total)	20	U
67-66-3	Chloroform	20	U
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon Tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	9	J
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
1330-20-7	Xylene (total)	20	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X109

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-9

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0658

Level (low/med) LOW Date Received 11/08/91

% Moisture 49 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/04/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 6

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	650	U
111-44-4	bis(2-Chloroethyl)ether	650	U
95-57-8	2-Chlorophenol	650	U
541-73-1	1,3-Dichlorobenzene	650	U
106-46-7	1,4-Dichlorobenzene	650	U
95-50-1	1,2-Dichlorobenzene	650	U
95-48-7	2-Methylphenol	650	U
108-60-1	2,2 -oxybis(1-Chloropropane)	650	U
106-44-5	4-Methylphenol	650	U
621-64-7	N-Nitroso-di-n-propylamine	650	U
67-72-1	Hexachloroethane	650	U
98-95-3	Nitrobenzene	650	U
78-59-1	Isophorone	650	U
88-75-5	2-Nitrophenol	650	U
105-67-9	2,4-Dimethylphenol	650	U
111-91-1	bis(2-Chloroethoxy)methane	650	U
120-83-2	2,4-Dichlorophenol	650	U
120-82-1	1,2,4-Trichlorobenzene	650	U
91-20-3	Naphthalene	500	J
106-47-8	4-Chloroaniline	650	U
87-68-3	Hexachlorobutadiene	650	U
59-50-7	4-Chloro-3-methylphenol	650	U
91-57-6	2-Methylnaphthalene	650	U
77-47-4	Hexachlorocyclopentadiene	650	U
88-06-2	2,4,6-Trichlorophenol	650	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	650	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	650	U
208-96-8	Acenaphthylene	650	U
606-20-2	2,6-Dinitrotoluene	650	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	650	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X109

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-9

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0658

Level (low/med) LOW Date Received 11/08/91

% Moisture 49 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/04/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 6

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1600	UJ
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	650	U
121-14-2	2,4-Dinitrotoluene	650	U
84-66-2	Diethylphthalate	650	U
7005-72-3	4-Chlorophenyl-phenylether	650	U
86-73-7	Fluorene	650	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	UJ
86-30-6	N-Nitrosodiphenylamine (1)	650	U
101-55-3	4-Bromophenyl-phenylether	650	U
118-74-1	Hexachlorobenzene	650	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	450	J
120-12-7	Anthracene	650	U
86-74-8	Carbazole	650	UJ
84-74-2	Di-n-butylphthalate	650	U
206-44-0	Fluoranthene	380	J
129-00-0	Pyrene	350	J
85-68-7	Butylbenzylphthalate	650	U
91-94-1	3,3'-Dichlorobenzidine	650	U
56-55-3	Benzo(a)anthracene	180	J
218-01-9	Chrysene	290	J
117-81-7	bis(2-Ethylhexyl)phthalate	650 ~~290~~	JB U
117-84-0	Di-n-octylphthalate	650	U
205-99-2	Benzo(b)fluoranthene	370	J
207-08-9	Benzo(k)fluoranthene	210	J
50-32-8	Benzo(a)pyrene	650	U
193-39-5	Indeno(1,2,3-cd)pyrene	650	U
53-70-3	Dibenz(a,h)anthracene	650	U
191-24-2	Benzo(g,h,i)perylene	650	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X109

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-9

Sample wt/vol 30.0 (g/mL) G Lab File ID _____

/ Moisture 49 decanted (Y/N) N Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SONC Date Extracted 11/15/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/18/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) Y pH 7 6 Sulfur Cleanup (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6 7	U
319-85-7	beta-BHC	6 7	U
319-86-8	delta-BHC	6 7	U
58-89-9	gamma-BHC (Lindane)	6 7	U
76-44-8	Heptachlor	6 7	U
309-00-2	Aldrin	6 7	U
1024-57-3	Heptachlor epoxide	6 7	U
959-98-8	Endosulfan I	6 7	U
60-57-1	Dieldrin	13	U
72-55-9	4,4 -DDE	13	U
72-20-8	Endrin	13	U
33213-65-9	Endosulfan II	13	U
72-54-8	4,4 -DDD	13	U
1031-07-8	Endosulfan sulfate	13	U
50-29-3	4,4 -DDT	13	U
72-43-5	Methoxychlor	67	U
53494-70-5	Endrin ketone	13	U
7421-36-3	Endrin aldehyde	13	U
5103-71-9	alpha-Chlordane	6 7	U
5103-74-2	gamma-Chlordane	6 7	U
8001-35-2	Toxaphene	670	U
12674-11-2	Aroclor-1016	130	U
11104-28-2	Aroclor-1221	260	U
11141-16-5	Aroclor-1232	130	U
53469-21-9	Aroclor-1242	130	U
12672-29-6	Aroclor-1248	130	U
11097-69-1	Aroclor-1254	130	U
11096-82-5	Aroclor-1260	130	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name ARDL INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-9

Sample wt/vol 5 0 (g/mL) G Lab File ID >J0757

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 49 Date Analyzed 11/15/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

X109

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) SOIL Lab Sample ID 200247-9

Sample wt/vol 30 0 (g/mL) G Lab File ID >M0658

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec 49 decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 500 0 (uL) Date Analyzed 12/04/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) Y pH 7 6

Number TICs found 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	814788	3-BUTEN-2-ONE, 3-METHYL-	4 43	1100	NJ
2		UNKNOWN	4 74	960	J
3		UNKNOWN	5 39	220	J
4	544252	1,3,5-CYCLOHEPTATRIENE	6 78	830	NJ
5		UNKNOWN	7 75	10000	J
6		UNKNOWN	8 51	9600	J
7		UNKNOWN	8 73	370	J
8		UNKNOWN	12 97	250	J
9		UNKNOWN	13 04	610	J
10		UNKNOWN ALKANE	23 67	450	J
11		UNKNOWN	23 79	520	J
12	57103	HEXADECANOIC ACID	25 46	1000	NJ
13		UNKNOWN	26 05	430	J
14		UNKNOWN	26 09	450	J
15		UNKNOWN ALKANE	32 30	620	J
16		UNKNOWN	32 40	770	J
17		UNKNOWN	33 94	2200	J
18		UNKNOWN ALKANE	34 64	2400	J
19		UNKNOWN	36 94	1500	J
20		UNKNOWN	37 87	1600	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

G101

Lab Name ARDL, INC Contract 200247

Lab Code: _____ Case No : _____ SAS No _____ SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-1C

Level (low/med) LOW Date Received 11-08-91

% 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	14900			P	
7440-36-0	Antimony	60 0	U		P	
7440-38-2	Arsenic	6 2	B	W N	F	J
7440-39-3	Barium	120	B		P	
7440-41-7	Beryllium	1 0	B		P	J
7440-43-9	Cadmium	3 0	B		P	
7440-70-2	Calcium	7340			P	
7440-47-3	Chromium	14 0		*	P	J
7440-48-4	Cobalt	45 0	U		P	J
7440-50-8	Copper	18 0	B		P	
7439-89-6	Iron	31900			P	J
7439-92-1	Lead	2 9	B/U	W N	F	J
7439-95-4	Magnesium	408000		E	P	J
7439-96-5	Manganese	1040			P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	31 0			P	
7440-09-7	Potassium	23100			P	
7782-49-2	Selenium	10 0	U	E N	F	J
7440-22-4	Silver	14 0	U	N	P	J
7440-23-5	Sodium	7370			P	
7440-28-0	Thallium	20 0	U	W	F	J
7440-62-2	Vanadium	25 0	B		P	
7440-66-6	Zinc	74 0			P	
	Cyanide	8 3	U		C	
	Sulfide	9130			T	
	Sulfate	5210			C	

Color Before COLORLESS Clarity Before CLEAR Texture _____

Color After COLORLESS Clarity After CLEAR Artifacts _____

Comments

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-10

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9731

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/15/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	30	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	3	J
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	230	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	21	
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	290	E
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	22	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	UJ
591-78-6	2-Hexanone	10	UJ
127-18-4	Tetrachloroethene	18	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	J
108-90-7	Chlorobenzene	10	UJ
100-41-4	Ethylbenzene	10	UJ
100-42-5	Styrene	10	UJ
1330-20-7	Xylene (total)	10	UJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-10

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9731

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/15/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	30	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	3	J
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	230	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	21	
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	290	E
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	22	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	UJ
591-78-6	2-Hexanone	10	UJ
127-18-4	Tetrachloroethene	18	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	J
108-90-7	Chlorobenzene	10	UJ
100-41-4	Ethylbenzene	10	UJ
100-42-5	Styrene	10	UJ
1330-20-7	Xylene (total)	10	UJ

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101

ab Name ARDL, INC Contract KANEY TRAN

ab Code --- Case No --- SAS No --- SDG No G101

latrix (soil/water) WATER Lab Sample ID 200247-10

ample wt/vol 1000 0 (g/mL) ML Lab File ID >M0626

evel (low/med) LOW Date Received 11/08/91

Moisture --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

njection Volume 2 0 (uL) Dilution Factor 1 00000

PC 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
106-46-7	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
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

G101

ab Name ARDL, INC Contract KANEY TRAN

ab Code --- Case No --- SAS No --- SDG No G101

atrix (soil/water) WATER Lab Sample ID 200247-10

ample wt/vol 1000 0 (g/mL) ML Lab File ID >M0626

evel (low/med) LOW Date Received 11/08/91

Moisture --- decanted (Y/N) N Date Extracted 11/13/91

oncentrated Extract Volume 1,000 0 (uL) Date Analyzed 12/02/91

njection Volume 2 0 (uL) Dilution Factor 1 00000

PC 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
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
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
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-10

Sample wt/vol 1000 (g/mL) ML Lab File ID _____

/ Moisture - decanted (Y/N) - Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SEPF Date Extracted 11/20/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/21/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) N pH - 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	UJ
319-85-7	beta-BHC	0 05	UJ
319-86-8	delta-BHC	0 05	UJ
58-89-9	gamma-BHC (Lindane)	0 05	UJ
76-44-8	Heptachlor	0 05	UJ
309-00-2	Aldrin	0 05	UJ
1024-57-3	Heptachlor epoxide	0 05	UJ
959-98-8	Endosulfan I	0 05	UJ
60-57-1	Dieldrin	0 10	UJ
72-55-9	4,4 -DDE	0 10	UJ
72-20-8	Endrin	0 10	UJ
33213-65-9	Endosulfan II	0 10	UJ
72-54-8	4,4 -DDD	0 10	UJ
1031-07-8	Endosulfan sulfate	0 10	UJ
50-29-3	4 4 -DDT	0 10	UJ
72-43-5	Methoxychlor	0 50	UJ
53494-70-5	Endrin ketone	0 10	UJ
7421-36-3	Endrin aldehyde	0 10	UJ
5103-71-9	alpha-Chlordane	0 05	UJ
5103-74-2	gamma-Chlordane	0 05	UJ
8001-35-2	Toxaphene	5 0	UJ
12674-11-2	Aroclor-1016	1 0	UJ
11104-28-2	Aroclor-1221	2 0	UJ
11141-16-5	Aroclor-1232	1 0	UJ
53469-21-9	Aroclor-1242	1 0	UJ
12672-29-6	Aroclor-1248	1 0	UJ
11097-69-1	Aroclor-1254	1 0	UJ
11096-82-5	Aroclor-1260	1 0	UJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-10

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9731

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/15/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 7

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	3 62	11	J
2		UNKNOWN	13 70	6	J
3		UNKNOWN	16 69	36	
4	110827	CYCLOHEXANE	17 31	14	NJ
5	96377	CYCLOPENTANE, METHYL	18 04	23	NJ
6		UNKNOWN	19 25	10	J
7		UNKNOWN	23 98	5	J
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

G101

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-10

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0626

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) N pH 7 0

Number TICs found 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	16 67	45	J
2		UNKNOWN	29 07	7	J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101DL

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-10DL

Sample wt/vol 1 0 (g/mL) ML Lab File ID >C2078

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/26/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 5 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50	U D
74-83-9	Bromomethane	50	U D
75-01-4	Vinyl Chloride	50	U D
75-00-3	Chloroethane	50	U D
75-09-2	Methylene Chloride	50	U DJ
67-64-1	Acetone	50	U DJ
75-15-0	Carbon Disulfide	50	U D
75-35-4	1,1-Dichloroethene	50	U D
75-34-3	1,1-Dichloroethane	50	U D
540-59-0	1,2-Dichloroethene (total)	120	D
67-66-3	Chloroform	50	U D
107-06-2	1,2-Dichloroethane	50	U D
78-93-3	2-Butanone	50	~~U D~~ R
71-55-6	1,1,1-Trichloroethane	50	U D
56-23-5	Carbon Tetrachloride	50	U D
75-27-4	Bromodichloromethane	50	U D
78-87-5	1,2-Dichloropropane	50	U D
10061-01-5	cis-1,3-Dichloropropene	50	U D
79-01-6	Trichloroethene	91	D
124-48-1	Dibromochloromethane	50	U D
79-00-5	1,1,2-Trichloroethane	50	U D
71-43-2	Benzene	50	U DJ
10061-02-6	trans-1,3-Dichloropropene	50	U D
75-25-2	Bromoform	50	U D
108-10-1	4-Methyl-2-Pentanone	50	U DJ
591-78-6	2-Hexanone	50	U DJ
127-18-4	Tetrachloroethene	50	U D
79-34-5	1,1,2,2-Tetrachloroethane	50	U D
108-88-3	Toluene	50	U DJ
108-90-7	Chlorobenzene	50	U DJ
100-41-4	Ethylbenzene	50	U DJ
100-42-5	Styrene	50	U DJ
1330-20-7	Xylene (total)	50	U DJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G101DL

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-10DL

Sample wt/vol 1 0 (g/mL) ML Lab File ID >C2078

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/26/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 5 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

G102

Lab Name ARDL, INC Contract 200247

Lab Code Case No SAS No SDG No : G101

Matrix (soil/water) WATER Lab Sample ID 200247-11

Level (low/med) LOW Date Received: 11-08-91

/ 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	30000			P	
7440-36-0	Antimony	210			P	
7440-38-2	Arsenic	25 8		N	F	J
7440-39-3	Barium	423			P	
7440-41-7	Beryllium	2 0	B		P	
7440-43-9	Cadmium	5 0			P	
7440-70-2	Calcium	389000			P	
7440-47-3	Chromium	118		*	P	J
7440-48-4	Cobalt	50 0			P	
7440-50-8	Copper	178			P	
7439-89-6	Iron	62100			P	J
7439-92-1	Lead	1570		N	F	J
7439-95-4	Magnesium	174000		E	P	J
7439-96-5	Manganese	4520			P	
7439-97-6	Mercury	0 20	U		CV	
7440-02-0	Nickel	397			P	
7440-09-7	Potassium	18600			P	
7782-49-2	Selenium	10 0	U	N E	F	J
7440-22-4	Silver	9 0	U	N	P	J
7440-23-5	Sodium	19400			P	
7440-28-0	Thallium	40 0	U		F	
7440-62-2	Vanadium	71			P	
7440-66-6	Zinc	208			P	
	Cyanide	5 0	U		C	
	Sulfide	4020			T	
	Sulfate	38300			C	

Color Before ORANGE Clarity Before CLEAR Texture

Color After ORANGE Clarity After CLEAR Artifacts

Comments

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-11

Sample wt/vol 0 05 (g/mL) ML Lab File ID >C2080

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/26/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 100 000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1900	
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	1000	UJ
67-64-1	Acetone	19000	BJ
75-15-0	Carbon Disulfide	1000	U
75-35-4	1,1-Dichloroethene	1000	U
75-34-3	1,1-Dichloroethane	1000	U
540-59-0	1,2-Dichloroethene (total)	1000	U
67-66-3	Chloroform	1000	U
107-06-2	1,2-Dichloroethane	1000	U
78-93-3	2-Butanone	1000	~~U~~R
71-55-6	1,1,1-Trichloroethane	1000	U
56-23-5	Carbon Tetrachloride	1000	U
75-27-4	Bromodichloromethane	1000	U
78-87-5	1,2-Dichloropropane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
79-01-6	Trichloroethene	1000	U
124-48-1	Dibromochloromethane	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
71-43-2	Benzene	1000	UJ
10061-02-6	trans-1,3-Dichloropropene	1000	U
75-25-2	Bromoform	1000	U
108-10-1	4-Methyl-2-Pentanone	1000	UJ
591-78-6	2-Hexanone	1000	UJ
127-18-4	Tetrachloroethene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-88-3	Toluene	6100	J
108-90-7	Chlorobenzene	1000	UJ
100-41-4	Ethylbenzene	3000	J
100-42-5	Styrene	1000	UJ
1330-20-7	Xylene (total)	30000	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-11

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0657

Level (low/med) LOW Date Received 11/08/91

% Moisture --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/04/91

Injection Volume 2 0 (uL) Dilution Factor 100 000

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	1000	U
111-44-4	bis(2-Chloroethyl)ether	1000	U
95-57-8	2-Chlorophenol	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2 -oxybis(1-Chloropropane)	1000	U
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	bis(2-Chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
91-20-3	Naphthalene	1200	
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	4800	
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	2500	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2500	U
131-11-3	Dimethylphthalate	1000	U
208-96-8	Acenaphthylene	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
99-09-2	3-Nitroaniline	2500	U
83-32-9	Acenaphthene	1000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-11

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0657

Level (low/med) LOW Date Received 11/08/91

% Moisture --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/04/91

Injection Volume 2 0 (uL) Dilution Factor 100 000

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	2500	UJ
100-02-7	4-Nitrophenol	2500	U
132-64-9	Dibenzofuran	1000	U
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
86-73-7	Fluorene	560	J
100-01-6	4-Nitroaniline	2500	U
534-52-1	4,6-Dinitro-2-methylphenol	2500	UJ
86-30-6	N-Nitrosodiphenylamine (1)	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
87-86-5	Pentachlorophenol	2500	U
85-01-8	Phenanthrene	1300	
120-12-7	Anthracene	1000	U
86-74-8	Carbazole	1000	UJ
84-74-2	Di-n-butylphthalate	1000	U
206-44-0	Fluoranthene	1000	U
129-00-0	Pyrene	1000	U
85-68-7	Butylbenzylphthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)anthracene	1000	U
218-01-9	Chrysene	1000	U
117-81-7	bis(2-Ethylhexyl)phthalate	1000	U
117-84-0	Di-n-octylphthalate	1000	U
205-99-2	Benzo(b)fluoranthene	1000	U
207-08-9	Benzo(k)fluoranthene	1000	U
50-32-8	Benzo(a)pyrene	1000	U
193-39-5	Indeno(1,2,3-cd)pyrene	1000	U
53-70-3	Dibenz(a,h)anthracene	1000	U
191-24-2	Benzo(g,h,i)perylene	1000	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G102DLA

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-11DL

Sample wt/vol 1000 (g/mL) ML Lab File ID _____

/ Moisture - decanted (Y/N) - Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SEPF Date Extracted 11/20/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/22/91

Injection Volume 2 (uL) Dilution Factor 100

GPC Cleanup (Y/N) N pH - Sulfur Cleanup (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	5 0	UJ
319-85-7	beta-BHC	5 0	UJ
319-86-8	delta-BHC	5 0	UJ
58-89-9	gamma-BHC (Lindane)	5 0	UJ
76-44-8	Heptachlor	5 0	UJ
309-00-2	Aldrin	5 0	UJ
1024-57-3	Heptachlor epoxide	5 0	UJ
959-98-8	Endosulfan I	5 0	UJ
60-57-1	Dieldrin	10	UJ
72-55-9	4,4 -DDE	10	UJ
72-20-8	Endrin	10	UJ
33213-65-9	Endosulfan II	10	UJ
72-54-8	4,4 -DDD	10	UJ
1031-07-8	Endosulfan sulfate	10	UJ
50-29-3	4,4 -DDT	10	UJ
72-43-5	Methoxychlor	50	UJ
53494-70-5	Endrin ketone	10	UJ
7421-36-3	Endrin aldehyde	10	UJ
5103-71-9	alpha-Chlordane	5 0	UJ
5103-74-2	gamma-Chlordane	5 0	UJ
8001-35-2	Toxaphene	500	UJ
12674-11-2	Aroclor-1016	100	UJ
11104-28-2	Aroclor-1221	200	UJ
11141-16-5	Aroclor-1232	100	UJ
53469-21-9	Aroclor-1242	100	UJ
12672-29-6	Aroclor-1248	100	UJ
11097-69-1	Aroclor-1254	100	UJ
11096-82-5	Aroclor-1260	100	UJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-11

Sample wt/vol 0 05 (g/mL) ML Lab File ID >C2080

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/26/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 100 0000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 7

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	13 43	760	J
2		UNKNOWN	15 63	730	J
3	589344	HEXANE, 3-METHYL-	23 60	850	NJ
4		UNKNOWN ALKANE	24 76	2700	J
5		UNKNOWN	29 14	2300	J
6		UNKNOWN	34 64	4300	J
7	620144	BENZENE, 1-ETHYL-3-METHYL-	37 89	23000	NJ
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

G102

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-11

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0657

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/04/91

Injection Volume 2 0 (uL) Dilution Factor 100 000

GPC Cleanup (Y/N) N pH 7 0

Number TICs found 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	1120214	UNDECANE	13 86	5200	NJ
2		UNKNOWN ALKANE	16 73	810	J
3		UNKNOWN ALKANE	17 18	1800	J
4		UNKNOWN	17 93	3400	J
5		UNKNOWN ALKANE	18 30	4500	J
6		UNKNOWN ALKANE	18 65	13000	J
7		NAPHTHALENE, DIMETHYL-	19 06	3800	J
8		NAPHTHALENE, DIMETHYL-	19 28	5000	J
9		UNKNOWN ALKANE	19 50	4200	J
10		UNKNOWN ALKANE	20 04	12000	J
11		NAPHTHALENE, TRIMETHYL-	20 72	3300	J
12		NAPHTHALENE, TRIMETHYL-	20 81	3100	J
13		UNKNOWN ALKANE	21 34	10000	J
14		UNKNOWN ALKANE	21 92	4800	J
15		UNKNOWN ALKANE	22 57	12000	J
16		UNKNOWN ALKANE	22 63	5600	J
17		UNKNOWN	23 72	9800	J
18		UNKNOWN ALKANE	23 83	4400	J
19		UNKNOWN ALKANE	24 82	6600	J
20		UNKNOWN ALKANE	25 85	4300	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

G104

Lab Name ARDL, INC Contract 200247

Lab Code: Case No SAS No : SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-12

Level (low/med) LOW Date Received 11-08-91

% Solids 2 0

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

CAS No	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14200			P	
7440-36-0	Antimony	300			P	
7440-38-2	Arsenic	15 0		N	F	J
7440-39-3	Barium	308			P	
7440-41-7	Beryllium	1 0	B		P	
7440-43-9	Cadmium	2 0	B		P	
7440-70-2	Calcium	234000			P	
7440-47-3	Chromium	110		*	P	J
7440-48-4	Cobalt	45 0	U		P	
7440-50-8	Copper	265			P	
7439-89-6	Iron	32800			P	
7439-92-1	Lead	57 3		N S	F	J
7439-95-4	Magnesium	101000		E	P	J
7439-96-5	Manganese	3320			P	
7439-97-6	Mercury	0 20	U		CV	
7440-02-0	Nickel	450			P	
7440-09-7	Potassium	18300			P	
7782-49-2	Selenium	10 0	U	N E	F	UJ
7440-22-4	Silver	9 0	U	N	P	UJ
7440-23-5	Sodium	8960			P	
7440-28-0	Thallium	40 0	U		F	
7440-62-2	Vanadium	54			P	
7440-66-6	Zinc	112			P	
	Cyanide	5 0	U		C	
	Sulfide	1000	U		T	
	Sulfate	31300			C	

Color Before COLORLESS Clarity Before CLEAR Texture

Color After COLORLESS Clarity After CLEAR Artifacts

Comments

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G104RE

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-12RE

Sample wt/vol 0 5 (g/mL) ML Lab File ID >C2079

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/26/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 10 0000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Methylene Chloride	100	UJ
67-64-1	Acetone	100	UJ
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
540-59-0	1,2-Dichloroethene (total)	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	UR
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	100	U
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	1000	J
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	100	UJ
591-78-6	2-Hexanone	100	UJ
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	220	J
108-90-7	Chlorobenzene	100	UJ
100-41-4	Ethylbenzene	1200	J
100-42-5	Styrene	100	UJ
1330-20-7	Xylene (total)	2200	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G104RE

L Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-12RE

Sample wt/vol 0 5 (g/mL) ML Lab File ID >C2079

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/26/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 10 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 6

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	76131	ETHANE 1,1,2-TRICHLORO-1,2,2	13 57	65	NJ
2		UNKNOWN ALKENE	15 62	200	J
3		UNKNOWN	16 51	160	J
4	1759815	CYCLOPENTENE, 4-METHYL-	18 56	80	NJ
5		UNKNOWN	34 66	90	J
6		UNKNOWN AROMATIC	37 95	640	J
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G104

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-12

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0629

Level (low/med) LOW Date Received 11/08/91

% Moisture --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

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	5	J
111-44-4	bis(2-Chloroethyl)_ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
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	110	E
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	30	
77-47-4	Hexachlorocyclopentadiene	10	U
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

G104

Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-12

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0629

Level (low/med) LOW Date Received 11/08/91

% Moisture --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

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
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
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
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
G104

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-12

Sample wt/vol 1000 (g/mL) ML Lab File ID _____

/ Moisture - decanted (Y/N) - Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SEPF Date Extracted 11/20/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/22/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) N pH - 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	UJ
319-85-7	beta-BHC	0 05	UJ
319-86-8	delta-BHC	0 05	UJ
58-89-9	gamma-BHC (Lindane)	0 05	UJ
76-44-8	Heptachlor	0 05	UJ
309-00-2	Aldrin	0 05	UJ
1024-57-3	Heptachlor epoxide	0 05	UJ
959-98-8	Endosulfan I	0 05	UJ
60-57-1	Dieldrin	0 10	UJ
72-55-9	4,4 -DDE	0 10	UJ
72-20-8	Endrin	0 10	UJ
33213-65-9	Endosulfan II	0 10	UJ
72-54-8	4,4 -DDD	0 10	UJ
1031-07-8	Endosulfan sulfate	0 10	UJ
50-29-3	4,4 -DDT	0 10	UJ
72-43-5	Methoxychlor	0 50	UJ
53494-70-5	Endrin ketone	0 10	UJ
7421-36-3	Endrin aldehyde	0 10	UJ
5103-71-9	alpha-Chlordane	0 05	UJ
5103-74-2	gamma-Chlordane	0 05	UJ
8001-35-2	Toxaphene	5 0	UJ
12674-11-2	Aroclor-1016	1 0	UJ
11104-28-2	Aroclor-1221	2 0	UJ
11141-16-5	Aroclor-1232	1 0	UJ
53469-21-9	Aroclor-1242	1 0	UJ
12672-29-6	Aroclor-1248	1 0	UJ
11097-69-1	Aroclor-1254	1 0	UJ
11096-82-5	Aroclor-1260	1 0	UJ

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

G104

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-12

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0629

Level (low/med) LOW Date Received 11/08/91

% Moisture --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) N pH 7 0

Number TICs found 20

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

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	UNKNOWN	11 17	17	J
2	BENZENE, ETHYL-METHYL	11 34	71	J
3	UNKNOWN AROMATIC	11 49	35	J
4	BENZENE, ETHYL-METHYL	11 73	37	J
5	BENZENE, TRIMETHYL-	12 02	110	J
6	UNKNOWN AROMATIC	12 59	16	J
7	UNKNOWN	12 88	56	J
8	UNKNOWN	13 04	36	J
9	UNKNOWN	13 20	16	J
10	UNKNOWN AROMATIC	13 60	20	J
11	BENZENE, TRETAMETHYL-	14 32	2	J
12	1H-INDENE, DIHYDRO-METHYL-	14 77	2	J
13	UNKNOWN	14 98	5	J
14	95158 BENZO[B]THIOPHENE	15 78	4	NJ
15	UNKNOWN	16 79	18	J
16	UNKNOWN	17 70	3	J
17	UNKNOWN	17 97	15	J
18	UNKNOWN	19 06	16	J
19	UNKNOWN	27 09	11	J
20	UNKNOWN	29 13	8	J
22				
23				
24				
25				
26				
27				
29				
30				

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G104DL

ab Name ARDL, INC Contract KANEY TRAN

ab Code --- Case No --- SAS No --- SDG No G101

atrix (soil/water) WATER Lab Sample ID 200247-12DL

ample wt/vol 1000 0 (g/mL) ML Lab File ID >M0666

evel (low/med) LOW Date Received 11/08/91

Moisture --- decanted (Y/N) N Date Extracted 11/13/91

oncentrated Extract Volume 1000 0 (uL) Date Analyzed 12/05/91

njection Volume 2 0 (uL) Dilution Factor 2 00000

PC 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	50	U DJ
100-02-7	4-Nitrophenol	50	U D
132-64-9	Dibenzofuran	20	U D
121-14-2	2,4-Dinitrotoluene	20	U D
84-66-2	Diethylphthalate	20	U D
7005-72-3	4-Chlorophenyl-phenylether	20	U D
86-73-7	Fluorene	20	U D
100-01-6	4-Nitroaniline	50	U D
534-52-1	4,6-Dinitro-2-methylphenol	50	U DJ
86-30-6	N-Nitrosodiphenylamine (1)	20	U D
101-55-3	4-Bromophenyl-phenylether	20	U D
118-74-1	Hexachlorobenzene	20	U D
87-86-5	Pentachlorophenol	50	U D
85-01-8	Phenanthrene	20	U D
120-12-7	Anthracene	20	U D
86-74-8	Carbazole	20	U DJ
84-74-2	Di-n-butylphthalate	20	U D
206-44-0	Fluoranthene	20	U D
129-00-0	Pyrene	20	U D
85-68-7	Butylbenzylphthalate	20	U D
91-94-1	3,3 -Dichlorobenzidine	20	U D
56-55-3	Benzo(a)anthracene	20	U D
218-01-9	Chrysene	20	U D
117-81-7	bis(2-Ethylhexyl)phthalate	20	U D
117-84-0	Di-n-octylphthalate	20	U D
205-99-2	Benzo(b)fluoranthene	20	U D
207-08-9	Benzo(k)fluoranthene	20	U D
50-32-8	Benzo(a)pyrene	20	U D
193-39-5	Indeno(1,2,3-cd)pyrene	20	U D
53-70-3	Dibenz(a,h)anthracene	20	U D
191-24-2	Benzo(g,h,i)perylene	20	U D

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G104DL

Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-12DL

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0666

Level (low/med) LOW Date Received 11/08/91

% Moisture --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 2 00000

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	20	U D
111-44-4	bis(2-Chloroethyl)_ether	20	U D
95-57-8	2-Chlorophenol	20	U D
541-73-1	1,3-Dichlorobenzene	20	U D
106-46-7	1,4-Dichlorobenzene	20	U D
95-50-1	1,2-Dichlorobenzene	20	U D
95-48-7	2-Methylphenol	20	U D
108-60-1	2,2 -oxybis(1-Chloropropane)	20	U D
106-44-5	4-Methylphenol	20	U D
621-64-7	N-Nitroso-di-n-propylamine	20	U D
67-72-1	Hexachloroethane	20	U D
98-95-3	Nitrobenzene	20	U D
78-59-1	Isophorone	20	U D
88-75-5	2-Nitrophenol	20	U D
105-67-9	2,4-Dimethylphenol	20	U D
111-91-1	bis(2-Chloroethoxy)methane	20	U D
120-83-2	2,4-Dichlorophenol	20	U D
120-82-1	1,2,4-Trichlorobenzene	20	U D
91-20-3	Naphthalene	140	D
106-47-8	4-Chloroaniline	20	U D
87-68-3	Hexachlorobutadiene	20	U D
59-50-7	4-Chloro-3-methylphenol	20	U D
91-57-6	2-Methylnaphthalene	32	D
77-47-4	Hexachlorocyclopentadiene	20	U D
88-06-2	2,4,6-Trichlorophenol	20	U D
95-95-4	2,4,5-Trichlorophenol	50	U D
91-58-7	2-Chloronaphthalene	20	U D
88-74-4	2-Nitroaniline	50	U D
131-11-3	Dimethylphthalate	20	U D
208-96-8	Acenaphthylene	20	U D
606-20-2	2,6-Dinitrotoluene	20	U D
99-09-2	3-Nitroaniline	50	U D
83-32-9	Acenaphthene	20	U D

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

G104DL

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-12DL

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0666

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- decanted (Y/N) N Date Extracted 11/15/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/05/91

Injection Volume 2 0 (uL) Dilution Factor 2 00000

GPC Cleanup (Y/N) N pH 7 0

Number TICs found 20

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

CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1	UNKNOWN	9 10	98	JD
2	UNKNOWN	11 14	19	JD
3	BENZENE, ETHYL-METHYL-	11 34	76	JD
4	UNKNOWN AROMATIC	11 45	38	JD
5	BENZENE, ETHYL-METHYL-	11 70	42	JD
6	BENZENE, ETHYL-METHYL-	11 98	120	JD
7	BENZENE, ETHYL-METHYL-	12 56	19	JD
8	UNKNOWN	12 85	60	JD
9	UNKNOWN AROMATIC	13 02	23	JD
10	BENZENE, TETRAMETHYL-	14 36	12	JD
11	1H-INDENE, DIHYDRO-METHYL-	14 74	18	JD
12	1H-INDENE, DIHYDRO-METHYL-	14 94	36	JD
13	UNKNOWN	16 81	220	JD
14	UNKNOWN	17 65	26	JD
15	UNKNOWN	17 99	29	JD
16	UNKNOWN	18 20	16	JD
17	UNKNOWN	19 02	15	JD
18	UNKNOWN	27 12	16	JD
19	UNKNOWN	35 17	28	JD
20	UNKNOWN	36 04	35	JD
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

G109

Lab Name ARDL, INC Contract 200247

Lab Code Case No SAS No SDG No : G101

Matrix (soil/water) WATER Lab Sample ID 200247-13

Level (low/med) LOW Date Received 11-08-91

/ 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	12300			P	
7440-36-0	Antimony	402			P	
7440-38-2	Arsenic	8 7		S N	F	J
7440-39-3	Barium	313			P	
7440-41-7	Beryllium	1 0	B		P	
7440-43-9	Cadmium	2 0	U		P	
7440-70-2	Calcium	522000			P	
7440-47-3	Chromium	23 0		*	P	J
7440-48-4	Cobalt	45 0	U		P	
7440-50-8	Copper	15 0	B		P	
7439-89-6	Iron	25400			P	J
7439-92-1	Lead	18 0		+ N	F	J
7439-95-4	Magnesium	297000		E	P	J
7439-96-5	Manganese	1950			P	
7439-97-6	Mercury	0 20	U		CV	
7440-02-0	Nickel	35 0	U		P	
7440-09-7	Potassium	12600			P	
7782-49-2	Selenium	10 0	U	E N	F	J
7440-22-4	Silver	14 0	U	N	P	J
7440-23-5	Sodium	22900			P	
7440-28-0	Thallium	40 0	U		F	
7440-62-2	Vanadium	46 0	B		P	
7440-66-6	Zinc	63 0			P	
	Cyanide	5 0	U		C	
	Sulfide	6860			T	
	Sulfate	92200			C	

Color Before COLORLESS Clarity Before CLEAR Texture

Color After COLORLESS Clarity After CLEAR Artifacts

Comments

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G109

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-13

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9726

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/14/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	31	
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	23	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	UJ
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	UJ
591-78-6	2-Hexanone	10	UJ
127-18-4	Tetrachloroethene	7	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	UJ
108-90-7	Chlorobenzene	10	UJ
100-41-4	Ethylbenzene	10	UJ
100-42-5	Styrene	10	UJ
1330-20-7	Xylene (total)	10	UJ

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G109

a. Name ARDL, INC Contract KANEY TRAN

ab Code --- Case No --- SAS No --- SDG No G101

atrix (soil/water) WATER Lab Sample ID 200247-13

ample wt/vol 1000 0 (g/mL) ML Lab File ID >M0630

evel (low/med) LOW Date Received 11/08/91

Moisture --- decanted (Y/N) N Date Extracted 11/13/91

oncentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

njection Volume 2 0 (uL) Dilution Factor 1 00000

PC 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
106-46-7	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
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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G109

ab Name ARDL, INC Contract KANEY TRAN

ab Code --- Case No --- SAS No --- SDG No G101

atrix (soil/water) WATER Lab Sample ID 200247-13

ample wt/vol 1000 0 (g/mL) ML Lab File ID >M0630

evel (low/med) LOW Date Received 11/08/91

Moisture --- decanted (Y/N) N Date Extracted 11/13/91

oncentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

njection Volume 2 0 (uL) Dilution Factor 1 00000

PC 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
106-46-7	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
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

G109

ε Name ARDL, INC Contract KANEY TRAN

ab Code --- Case No --- SAS No --- SDG No G101

atrix (soil/water) WATER Lab Sample ID 200247-13

ample wt/vol 1000 0 (g/mL) ML Lab File ID >M0630

evel (low/med) LOW Date Received 11/08/91

Moisture --- decanted (Y/N) N Date Extracted 11/13/91

oncentrated Extract Volume 1,000 0 (uL) Date Analyzed 12/02/91

njection Volume 2 0 (uL) Dilution Factor 1 00000

PC 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
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
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
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G109

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-13

Sample wt/vol 1000 (g/mL) ML Lab File ID _____

/ Moisture - decanted (Y/N) - Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SEPF Date Extracted 11/20/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/21/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) N pH - 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	UJ
319-85-7	beta-BHC	0 05	UJ
319-86-8	delta-BHC	0 05	UJ
58-89-9	gamma-BHC (Lindane)	0 05	UJ
76-44-8	Heptachlor	0 05	UJ
309-00-2	Aldrin	0 05	UJ
1024-57-3	Heptachlor epoxide	0 05	UJ
959-98-8	Endosulfan I	0 05	UJ
60-57-1	Dieldrin	0 10	UJ
72-55-9	4,4 -DDE	0 10	UJ
72-20-8	Endrin	0 10	UJ
33213-65-9	Endosulfan II	0 10	UJ
72-54-8	4,4 -DDD	0 10	UJ
1031-07-8	Endosulfan sulfate	0 10	UJ
50-29-3	4,4 -DDT	0 10	UJ
72-43-5	Methoxychlor	0 50	UJ
53494-70-5	Endrin ketone	0 10	UJ
7421-36-3	Endrin aldehyde	0 10	UJ
5103-71-9	alpha-Chlordane	0 05	UJ
5103-74-2	gamma-Chlordane	0 05	UJ
8001-35-2	Toxaphene	5 0	UJ
12674-11-2	Aroclor-1016	1 0	UJ
11104-28-2	Aroclor-1221	2 0	UJ
11141-16-5	Aroclor-1232	1 0	UJ
53469-21-9	Aroclor-1242	1 0	UJ
12672-29-6	Aroclor-1248	1 0	UJ
11097-69-1	Aroclor-1254	1 0	UJ
11096-82-5	Aroclor-1260	1 0	UJ

.E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G109

Name APDL, INC Contract FANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-13

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9726

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/14/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 4

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	10 08	6	J
2		UNKNOWN	14 77	11	J
3		UNKNOWN	16 67	16	J
4		UNKNOWN ALKANE	26 51	12	J
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

G109

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-13

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0630

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) N pH 7 0

Number TICs found 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	16 68	37	J
2		UNKNOWN	29 09	6	J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

G202

Lab Name ARDL, INC Contract 200247

Lab Code: _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-14

Level (low/med) LOW Date Received 11-08-91

/ 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	285	U		P	
7440-36-0	Antimony	50 0	U		P	
7440-38-2	Arsenic	3 0	U	N	F	J
7440-39-3	Barium	182			P	
7440-41-7	Beryllium	1 0	U		P	
7440-43-9	Cadmium	2 0	U		P	
7440-70-2	Calcium	107000			P	
7440-47-3	Chromium	7 0	U	*	P	J
7440-48-4	Cobalt	45 0	U		P	
7440-50-8	Copper	14 0	B		P	
7439-89-6	Iron	50 0			P	J
7439-92-1	Lead	5 0	U	N W	F	J
7439-95-4	Magnesium	43500		E	P	J
7439-96-5	Manganese	963			P	
7439-97-6	Mercury	0 20	U		CV	
7440-02-0	Nickel	35 0	U		P	
7440-09-7	Potassium	2250	U		P	
7782-49-2	Selenium	10 0	U	N W	F	J
7440-22-4	Silver	36 0	U	N	P	J
7440-23-5	Sodium	31500			P	
7440-28-0	Thallium	4 0	U	W	F	J
7440-62-2	Vanadium	15 0			P	
7440-66-6	Zinc	31 0			P	
	Cyanide	5 0	U		C	
	Sulfide	6290			T	
	Sulfate	22600			C	

Color Before COLORLESS Clarity Before: CLEAR Texture _____

Color After COLORLESS Clarity After CLEAR Artifacts _____

Comments

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G202

Lab Name ARDL INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-14

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9729

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/15/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	40	
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	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	6	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	UJ
591-78-6	2-Hexanone	10	UJ
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	UJ
108-90-7	Chlorobenzene	10	UJ
100-41-4	Ethylbenzene	10	UJ
100-42-5	Styrene	10	UJ
1330-20-7	Xylene (total)	10	UJ

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G202

c Name ARDL, INC Contract KANEY TRAN

ab Code --- Case No --- SAS No --- SDG No G101

latrix (soil/water) WATER Lab Sample ID 200247-14

ample wt/vol 1000 0 (g/mL) ML Lab File ID >M0631

evel (low/med) LOW Date Received 11/08/91

Moisture --- decanted (Y/N) N Date Extracted 11/13/91

oncentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

njection Volume 2 0 (uL) Dilution Factor 1 00000

PC 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
106-46-7	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
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

G202

ab Name ARDL, INC Contract KANEY TRAN

ab Code --- Case No --- SAS No --- SDG No G101

latrix (soil/water) WATER Lab Sample ID 200247-14

ample wt/vol 1000 0 (g/mL) ML Lab File ID >M0631

evel (low/med) LOW Date Received 11/08/91

Moisture --- decanted (Y/N) N Date Extracted 11/13/91

oncentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

njection Volume 2 0 (uL) Dilution Factor 1 00000

PC 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
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
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
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G202

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-14

Sample wt/vol 1000 (g/mL) ML Lab File ID _____

/ Moisture - decanted (Y/N) - Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SEPF Date Extracted 11/20/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/21/91

Injection Volume: 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) N pH - 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	UJ
319-85-7	beta-BHC	0 05	UJ
319-86-8	delta-BHC	0 05	UJ
58-89-9	gamma-BHC (Lindane)	0 05	UJ
76-44-8	Heptachlor	0 05	UJ
309-00-2	Aldrin	0 05	UJ
1024-57-3	Heptachlor epoxide	0 05	UJ
959-98-8	Endosulfan I	0 05	UJ
60-57-1	Dieldrin	0 10	UJ
72-55-9	4,4 -DDE	0 10	UJ
72-20-8	Endrin	0 10	UJ
33213-65-9	Endosulfan II	0 10	UJ
72-54-8	4,4 -DDD	0 10	UJ
1031-07-8	Endosulfan sulfate	0 10	UJ
50-29-3	4,4 -DDT	0 10	UJ
72-43-5	Methoxychlor	0 50	UJ
53494-70-5	Endrin ketone	0 10	UJ
7421-36-3	Endrin aldehyde	0 10	UJ
5103-71-9	alpha-Chlordane	0 05	UJ
5103-74-2	gamma-Chlordane	0 05	UJ
8001-35-2	Toxaphene	5 0	UJ
12674-11-2	Aroclor-1016	1 0	UJ
11104-28-2	Aroclor-1221	2 0	UJ
11141-16-5	Aroclor-1232	1 0	UJ
53469-21-9	Aroclor-1242	1 0	UJ
12672-29-6	Aroclor-1248	1 0	UJ
11097-69-1	Aroclor-1254	1 0	UJ
11096-82-5	Aroclor-1260	1 0	UJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G202

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-14

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9729

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/15/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 4

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	3 33	6	J
2		UNKNOWN	16 67	13	J
3		UNKNOWN ALKANE	17 29	9	J
4		UNKNOWN	34 47	9	J
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

G202

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-14

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0631

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

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	EST CONC	Q
1		UNKNOWN	23 95	4	J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

U S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

G203

Lab Name ARDL, INC Contract 200247

Lab Code Case No SAS No - SDG No G101

Matrix (soil/water): WATER Lab Sample ID 200247-1

Level (low/med) LOW Date Received 11-08-91

/ 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	285	U		P	
7440-36-0	Antimony	50 0	U		P	
7440-38-2	Arsenic	3 0	U	N	F	J
7440-39-3	Barium	59 0			P	
7440-41-7	Beryllium	1 0	U		P	
7440-43-9	Cadmium	2 0	U		P	
7440-70-2	Calcium	85500			P	
7440-47-3	Chromium	7 0	U	*	P	J
7440-48-4	Cobalt	45 0	U		P	
7440-50-8	Copper	10 0	U		P	
7439-89-6	Iron	50 0	U		P	
7439-92-1	Lead	5 0	U	N W	F	J
7439-95-4	Magnesium	36200		E	P	J
7439-96-5	Manganese	3 0	U		P	
7439-97-6	Mercury	0 20	U		CV	
7440-02-0	Nickel	35 0	U		P	
7440-09-7	Potassium	2250	U		P	
7782-49-2	Selenium	2 0	U	N W	F	J
7440-22-4	Silver	9 0	U	N	P	J
7440-23-5	Sodium	6550			P	
7440-28-0	Thallium	4 0	U		F	
7440-62-2	Vanadium	15 0	U		P	
7440-66-6	Zinc	37 0			P	
	Cyanide	5 0	U		C	
	Sulfide	1740			T	
	Sulfate	95700			C	

Color Before COLORLESS Clarity Before CLEAR Texture

Color After COLORLESS Clarity After CLEAR Artifacts

Comments

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G203

L Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-15

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9781

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/17/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	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	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	UJ
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	3	J
108-90-7	Chlorobenzene	10	UJ
100-41-4	Ethylbenzene	10	UJ
100-42-5	Styrene	10	UJ
1330-20-7	Xylene (total)	10	UJ

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G203

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-15

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0632

Level (low/med) LOW Date Received 11/08/91

% Moisture --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

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
106-46-7	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
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

G203

Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-15

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0632

Level (low/med) LOW Date Received 11/08/91

% Moisture --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1 0 (uL) Date Analyzed 12/02/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

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
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
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
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G203

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code _____ Case No _____ SAS No _____ SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-15

Sample wt/vol 1000 (g/mL) ML Lab File ID _____

/ Moisture - decanted (Y/N) - Date Received 11/08/91

Extraction (SepF/Cont/Sonc) SEPF Date Extracted 11/20/91

Concentrated Extract Volume 10000 (uL) Date Analyzed 11/21/91

Injection Volume 2 (uL) Dilution Factor 1 0

GPC Cleanup (Y/N) N pH - 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	UJ
319-85-7	beta-BHC	0 05	UJ
319-86-8	delta-BHC	0 05	UJ
58-89-9	gamma-BHC (Lindane)	0 05	UJ
76-44-8	Heptachlor	0 05	UJ
309-00-2	Aldrin	0 05	UJ
1024-57-3	Heptachlor epoxide	0 05	UJ
959-98-8	Endosulfan I	0 05	UJ
60-57-1	Dieldrin	0 10	UJ
72-55-9	4 4 -DDE	0 10	UJ
72-20-8	Endrin	0 10	UJ
33213-65-9	Endosulfan II	0 10	UJ
72-54-8	4,4 -DDD	0 10	UJ
1031-07-8	Endosulfan sulfate	0 10	UJ
50-29-3	4 4 -DDT	0 10	UJ
72-43-5	Methoxychlor	0 50	UJ
53494-70-5	Endrin ketone	0 10	UJ
7421-36-3	Endrin aldehyde	0 10	UJ
5103-71-9	alpha-Chlordane	0 05	UJ
5103-74-2	gamma-Chlordane	0 05	UJ
8001-35-2	Toxaphene	5 0	UJ
12674-11-2	Aroclor-1016	1 0	UJ
11104-28-2	Aroclor-1221	2 0	UJ
11141-16-5	Aroclor-1232	1 0	UJ
53469-21-9	Aroclor-1242	1 0	UJ
12672-29-6	Aroclor-1248	1 0	UJ
11097-69-1	Aroclor-1254	1 0	UJ
11096-82-5	Aroclor-1260	1 0	UJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G203

Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-15

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9781

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/17/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	4 48	8	J
2		UNKNOWN	34 02	8	J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1F

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

G203

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-15

Sample wt/vol 1000 0 (g/mL) ML Lab File ID >M0632

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- decanted (Y/N) N Date Extracted 11/13/91

Concentrated Extract Volume 1000 0 (uL) Date Analyzed 12/02/91

Injection Volume 2 0 (uL) Dilution Factor 1 00000

GPC Cleanup (Y/N) N pH 7 0

Number TICs found 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

TRIP BLK

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-16

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9725

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/14/91

GC column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (ul)

CAS NO	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	31	
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 J
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
591-78-6	2-Hexanone	10	U J
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U J
108-90-7	Chlorobenzene	10	U J
100-41-4	Ethylbenzene	10	U J
100-42-5	Styrene	10	U J
1330-20-7	Xylene (total)	10	U J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

TRIP BLK

Lab Name ARDL, INC Contract KANEY TRAN

Lab Code --- Case No --- SAS No --- SDG No G101

Matrix (soil/water) WATER Lab Sample ID 200247-16

Sample wt/vol 5 0 (g/mL) ML Lab File ID >H9725

Level (low/med) LOW Date Received 11/08/91

% Moisture not dec --- Date Analyzed 11/14/91

GC Column 1%SP-1000 ID 2 (mm) Dilution Factor 1 00000

Soil Extract Volume --- (uL) Soil Aliquot Volume --- (uL)

Number TICs found 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST CONC	Q
1		UNKNOWN	34 58	7	J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					