APPENDIX A

BORING LOGS

DRILLING LOG

State Illinois

Site Sand Park, Loves Park

Boring No. G-106

Drilling Firm Canonie

Type of Drill Mobile B-40

Driller J. Koditek

Geologist K. Phillips

Start Date 1/3/85

Completion Date 1/7/85

Ground El. 744.43 MSL

Groundwater El.
at completion

after 5 days 724.32

Total Depth of Boring 61.5'

No HNU Readings Above Background.

Lock #2429

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
		Ground Surface			3 3/4" I.D. Hollow Stem Auger 2" O.D. Split Spoon Sampler 140 lb. Hammer 30" Drop	
	1 2	Fill Loose clayey fine - med. sand and gravel. Dry.	7 4 4	1		
	3 4 5	Fill Stiff black very sandy silty clay. Trace small gravel. Moist.	7 7 8	2	Slight septic odor	
	6 7 8	Fill Stiff black sandy clay. Some fine sand. Moist.	5 4 6	3		
	9 10		2 4 3	4		

State IL

Boring No. G-106

Site Sand Park

Page 2 of 4

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	11	Fill Con't. from 5.5'				
	12					
	13					
	14					
	15	Clay Stiff brown silty clay. Trace fine sand. Trace small gravel. Moist.	1 3 4	5		
	16					
	17					
	18					
	19					
	20					
	21	Sand and Gravel Wet	3 3 3	6		
	22					
	23	Clay Stiff gray silty clay. Trace fine sand. Moist.				
	24					
	25					
	26		5 7 9	7		
	27					
	28					
	29					
	30					

State IL

Boring No. G-106

Site Sand Park

Page 3 of 4

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	31		7 23 39	8		
	32	Silt Dense brown very sandy silt. Some fine sand. Moist.				
	33				Silt is not water bearing	
	34					
	35	Sand			Water at 34' while drilling	
	36	Dense brown fine - medium sand. Trace small gravel. Wet.	12 12 14	9		
	37					
	38					
	39					
	40					
	41		15 38 65	10		
	42					
	43					
	44					
	45					
	46	Sand Very dense light brown fine sand. Wet.	30 40 45	11		
	47					
	48					
	49					
	50					

State IL

Boring No. G-106

Site Sand Park

Page 4 of 4

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
	51	Sand Dense light brown fine sand. Wet.	21 35 45	12		
	52					
	53					
	54					
	55					
	56		14 17 40	13		
	57					
	58					
	59					
	60	Gray silty clay 60-61.5'	30 25 22	14		
	61					
		E.O.B.			Well Construction 2" I.D. PVC 0.010" Screen 55'60' -Natural sand screen pack 31'-60' -Bentonite seal 29'-31' -Grout 29' to surface -2" I.D. PVC casing.	

DRILLING LOG

State Illinois

Site Sand Park

Boring No. G-107

Drilling Firm Canonie

Type of Drill Mobile B-40

Driller J. Koditek

Geologist K. Phillips

Start Date 1-3-85

Completion Date 1-7-85

Ground El. 744.38

Groundwater El.
at completion

after 5 days 724.23

Total Depth of Boring 43'

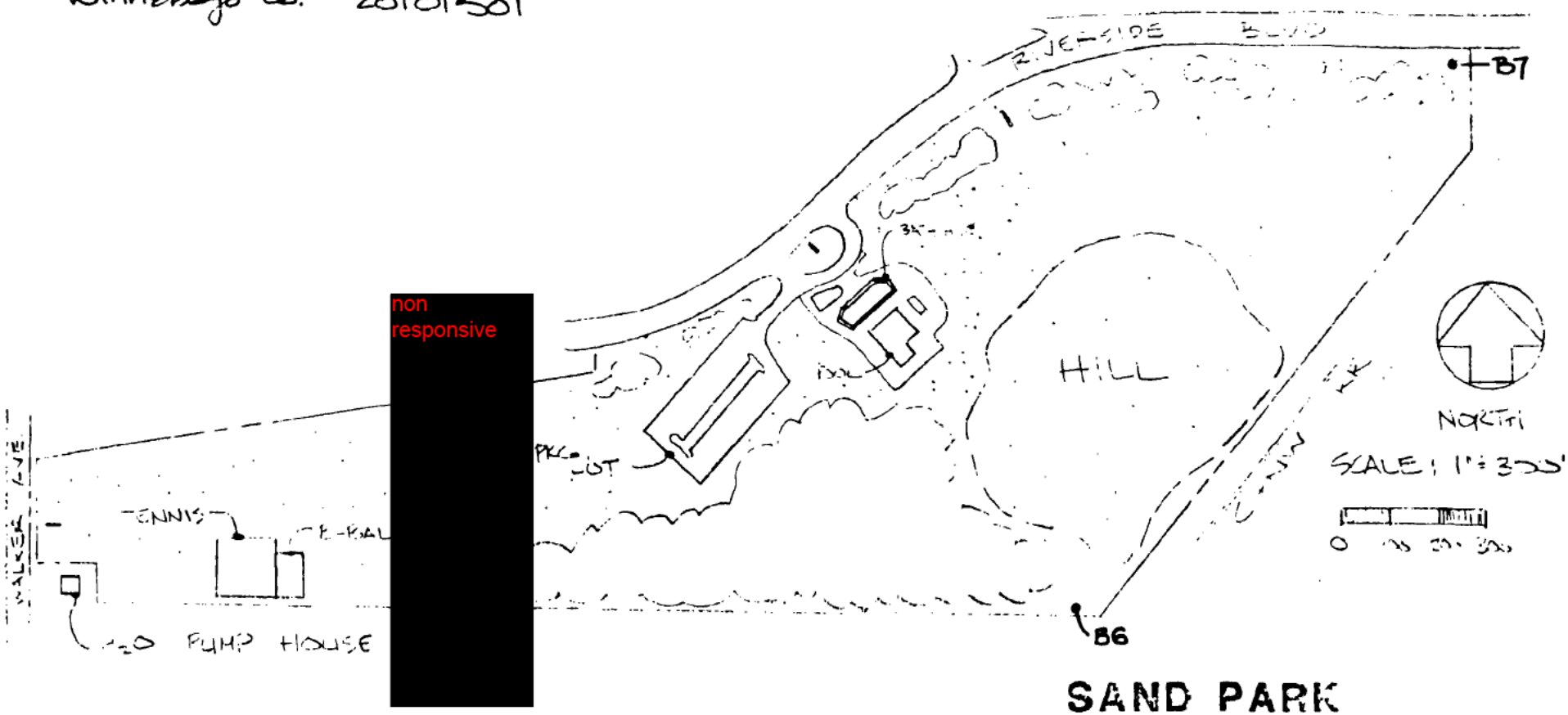
No HNU Readings Above Background

Lock #2429

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
		Ground Surface			Boring was blind drilled. See log of G-106 for detailed stratigraphic description.	
		0-15' Fill Black sandy clay. Some small gravel and medium sand. Moist. 15'-30' Gray silty clay. Trace fine sand. Very moist. 30'-43' Sand and gravel wet. E.O.B. 43'			3 3/4" I.D. Hollow Stem Auger used. No samples. Log from observation of Auger cuttings. Well Construction 2" I.D. PVC 0.010" Screen 38'-43' -Natural sand screen pack -Bentonite seal 26'-28' and 16.5-18' -Grout to surface	

Loves Park / Rockford Park District

Winnebago Co. 20101501



SAND PARK

1041 Riverside Blvd.

41 ACRES

IEPA Boring and Monitor Well Locations.
April 1983

page 02

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF LAND/NOISE POLLUTION CONTROL

BORING LOG SH. 1 of 1 SH.

COUNTY Winnebago SITE NO. 20101501 PREPARED BY Tim Greetis

SITE Lewis Park / Rockford Park District BORED BY Doug Tolan

DATE 04/12/83 BORING NO B1 HELPER Ken Bosie

BORING COMPLETED AS MONITOR OR LEACHATE WELL YES ____ NO X WHICH ____

TYPE AND LENGTH OF CASING ____ ____ FT CASING ____ FT ABOVE GROUND LEVEL

SCREENED INTERVAL ELEVATIONS ____

ANNULUS FILL MATERIAL

ABOVE PACKING ____

PACKING ____

SCREEN ____

GROUND WATER EL.

AT COMPLETION ____

AFTER ____ DAYS ____

AFTER ____ DAYS ____

ELEVATION	#	*	N	WELL DESIGN	ELEVATION	#	*	N	WELL DESIGN
+3						5		8/10	
					Sand and Gravel - gray to black, darker with depth, wet.				
GROUND SURFACE 728.53 0						6		8/9	
					700.03 -20				
	1		7/16						
			6/6					14/11	
	2		3/4		Sand and Gravel - red to brown, fine to coarse grained sand, wet.				
-5	3		9/11			7		12/17	
Sand and Gravel - red to brown, fine to coarse grained sand, moist.					-25				
			13/9				NR	5/9	
	4		8/9		701.03				
Gravelly at 5.5' ▼					End of Boring				
-10			8/7						
Wet at 9.0'			5/9		Boring Backfilled with natural materials and cuttings. -30				
714.53 -15									

All Samples Taken with 2 Inch O.D. Split Spoon Sampler Unless Otherwise Indicated

▼ Encountered water.

* Miscellaneous Data PR - Partial Recovery

N - Blow Count NR - No Recovery

N½ SE¼ Section 06 T44N R2E

LPC-34 3/79

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF LAND/NOISE POLLUTION CONTROL

BORING LOG

SH. 1 of 2 SH.

COUNTY Winnebago SITE NO. 20101501 PREPARED BY Tim Greetis

SITE Lones Park / Rockford Park District BORED BY Doug Tolan

DATE 4/18/83 BORING NO. B2 (G102) HELPER Ken Bosie

BORING COMPLETED AS MONITOR OR LEACHATE WELL YES X NO ____ WHICH Monitor

TYPE AND LENGTH OF CASING PVC 52.0 FT CASING 2.3 FT ABOVE GROUND LEVEL

SCREENED INTERVAL ELEVATIONS 678.92 to 680.92 (2.0' SLOTTED .010 PVC)

ANNULUS FILL MATERIAL

ABOVE PACKING Cement Slurry

PACKING Granular Bentonite

SCREEN Natural Materials

GROUND WATER EL.

AT COMPLETION ____

AFTER 01 DAYS 717.02

AFTER ____ DAYS ____

ELEVATION	#	*	N	WELL DESIGN	ELEVATION	#	*	N	WELL DESIGN
+3									
GROUND SURFACE 728.62 0									
					-20				
-5					-25				
-10					-30				
-15									

Augered down to 30.0'
No samples collected.
See B1 for lithologic descriptions.

Augered down to 30.0'
No samples collected.

Sand and Gravel - red to brown, wet. — NR — B/13

695.62

All Samples Taken with 2 Inch O.D. Split Spoon Sampler Unless Otherwise Indicated

* Miscellaneous Data PR - Partial Recovery

N - Blow Count NR - No Recovery

N½ SE¼ Section 06 T44N R2E

LPC-34 3/79

BORING LOG

B2 (G102)
Winnebago Co.
Loves Park / Rockford Pk. Dist.
20101501

ELEVATION	#	•	N	WELL DESIGN
-35				
			13/19	
-40				
	1		13/26	
-45				
			9/14	
-50				
			11/13	
-55				
-60				

ELEVATION	#	•	N	WELL DESIGN
-65				
-70				
-75				
-80				
-85				
-90				

Sand - brown, fine to medium grained, wet.

coarse sand at base.

678.12

Silty Clay - gray, very tight, damp.

677.12

End of Boring

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF LAND/NOISE POLLUTION CONTROL

BORING LOG SH. 1 of 1 SH.

COUNTY Winnebago SITE NO. 20101501 PREPARED BY Jim Greetis

SITE Loves Park / Rockford Park District BORED BY Doug Tolan

DATE 4/19/83 BORING NO B3 (G103) HELPER Ken Bosie

BORING COMPLETED AS MONITOR OR LEACHATE WELL YES X NO ____ WHICH Monitor

TYPE AND LENGTH OF CASING PVC 20.0 FT CASING 2.8 FT ABOVE GROUND LEVEL

SCREENED INTERVAL ELEVATIONS 711.51 to 721.51 (100' screen)

ANNULUS FILL MATERIAL

ABOVE PACKING Cement Slurry

PACKING Granular Bentonite

SCREEN Natural Materials.

GROUND WATER EL.

AT COMPLETION 719.71

AFTER ____ DAYS ____

AFTER ____ DAYS ____

ELEVATION	#	*	N	WELL DESIGN	ELEVATION	#	*	N	WELL DESIGN
+3									
					711.21				
					End of Boring.				
GROUND SURFACE 728.71 0									
					-20				
-5									
					-25				
Augered to 17.5' No samples collected.									
-10									
					-30				
-15									

All Samples Taken with 2 Inch O.D. Split Spoon Sampler Unless Otherwise Indicated

* Miscellaneous Data PR - Partial Recovery

N - Blow Count NR - No Recovery

N½ SE¼ Section 06 T44N R2E

LPC-34 3/79

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF LAND/NOISE POLLUTION CONTROL

BORING LOG SH. ___ of ___ SH.

COUNTY Winnebago SITE NO 20101501 PREPARED BY Tim Greeth

SITE Loves Park / Rockford Park District BORED BY Doug Tolan

DATE 4/19/83 BORING NO. B4 (G104) HELPER Ken Bosie

BORING COMPLETED AS MONITOR OR LEACHATE WELL YES X NO ___ WHICH Monitor

TYPE AND LENGTH OF CASING PVC 52.0 FT CASING 1.1 FT ABOVE GROUND LEVEL

SCREENED INTERVAL ELEVATIONS 676.64 to 678.64 (2.0' slotted .010 PVC)

ANNULUS FILL MATERIAL	ELEVATION	#	*	N	WELL DESIGN	GROUND WATER EL.	ELEVATION	#	*	N	WELL DESIGN
ABOVE PACKING Cement Slurry						AT COMPLETION ___					
PACKING Granular Bentonite						AFTER 01 DAYS 717.74					
SCREEN Natural Materials						AFTER ___ DAYS ___					
	+3										
GROUND SURFACE 727.64	0						-20				
	-5					Augered down to 40.0' No samples collected.	-25				
Augered down to 40.0' No samples collected.											
▼	-10						-30				
	-15										

All Samples Taken with 2 Inch O.D. Split Spoon Sampler Unless Otherwise Indicated

▼ Encountered water.

* Miscellaneous Data PR - Partial Recovery

N - Blow Count NR - No Recovery

N½ SE¼ Section 06 T44N R2E

LPC-34 3/79

BORING LOG

B4 (G104)
Winnebago Co.
Lewis Park / Rockford Pk. Dist.
20101501

ELEVATION	#	*	N	WELL DESIGN
-35				
-40				
		NR	9/14	
-45				
		NR	6/15	
-50				
	1		12/17	

Sand -- gray to brown, fine to medium grained, wet.
fine sand at base.
676.44

Silty Clay - gray, moderately tight, damp.
676.14

END OF BORING

ELEVATION	#	*	N	WELL DESIGN
-55				
-60				
-65				
-70				
-75				
-80				
-85				
-90				

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF LAND/NOISE POLLUTION CONTROL

BORING LOG SH. 1 of 1 SH.

COUNTY Winnebago SITE NO. 20101501 PREPARED BY Jim Greetis

SITE Loves Park / Rockford Park District BORED BY Doug Tolan

DATE 4/20/83 BORING NO B5 (G105) HELPER Ken Bosie

BORING COMPLETED AS MONITOR OR LEACHATE WELL YES X NO ____ WHICH Monitor

TYPE AND LENGTH OF CASING PVC 20.0 FT CASING 2.3 FT ABOVE GROUND LEVEL

SCREENED INTERVAL ELEVATIONS 710.27 to 720.27 (10.0' screen)

ANNULUS FILL MATERIAL

ABOVE PACKING Cement Slurry

PACKING Granular Bentonite

SCREEN Natural Materials

GROUND WATER EL.

AT COMPLETION 717.67

AFTER ____ DAYS ____

AFTER ____ DAYS ____

ELEVATION	#	*	N	WELL DESIGN
+3				
GROUND SURFACE 727.77 0				
-5				
▼-10				
-15				

ELEVATION	#	*	N	WELL DESIGN
710.27				
End of Boring				
-20				
-25				
-30				

Augered down to 17.5'
No samples collected.

All Samples Taken with 2 Inch O.D Split Spoon Sampler Unless Otherwise Indicated

▼ Encountered water.

* Miscellaneous Data PR - Partial Recovery

N - Blow Count NR - No Recovery

N½ SE¼ Section 06 T44N R2E

LPC-34 3/79

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF LAND/NOISE POLLUTION CONTROL

BORING LOG

SH. 1 of 1 SH.

COUNTY Winnebago SITE NO. 20101501 PREPARED BY Jim Greenis

SITE Loves Park / Rockford Park District BORED BY Doug Tann

DATE 4/21/83 BORING NO B7 HELPER Ken Bosie

BORING COMPLETED AS MONITOR OR LEACHATE WELL YES ____ NO X WHICH ____

TYPE AND LENGTH OF CASING ____ ____ FT CASING ____ FT ABOVE GROUND LEVEL

SCREENED INTERVAL ELEVATIONS ____

ANNULUS FILL MATERIAL ABOVE PACKING PACKING SCREEN	ELEVATION	#	*	N	WELL DESIGN	GROUND WATER EL. AT COMPLETION AFTER ____ DAYS AFTER ____ DAYS	ELEVATION	#	*	N	WELL DESIGN
	+3										
GROUND SURFACE	0										
							-20				
Augered down 5.0' Refuse encountered. Borehole Backfilled.	-5										
							-25				
	-10										
							-30				
	-15										

All Samples Taken with 2 Inch O.D. Split Spoon Sampler Unless Otherwise Indicated

* Miscellaneous Data PR - Partial Recovery

N - Blow Count NR - No Recovery

N1/2 SE1/4 Section 06 T44N R2E

LPC-34 3/79

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF LAND/NOISE POLLUTION CONTROL

BORING LOG SH. 1 of 1 SH.

COUNTY Winnebago SITE NO. 20101501 PREPARED BY Jim Greenis

SITE Lowes Park & Rockford Park District BORED BY Doug Tomm

DATE 4/21/83 BORING NO. B6 HELPER Ken Bosie

BORING COMPLETED AS MONITOR OR LEACHATE WELL YES ____ NO X WHICH ____

TYPE AND LENGTH OF CASING ____ ____ FT CASING ____ FT ABOVE GROUND LEVEL

SCREENED INTERVAL ELEVATIONS ____

ANNULUS FILL MATERIAL ABOVE PACKING PACKING SCREEN	ELEVATION	#	*	N	WELL DESIGN	GROUND WATER EL. AT COMPLETION AFTER ____ DAYS AFTER ____ DAYS	ELEVATION	#	*	N	WELL DESIGN
	+3										
GROUND SURFACE	0						-20				
Augered down 5.0' Refuse encountered. Borehole Backfilled.	-5						-25				
	-10						-30				
	-15										

All Samples Taken with 2 Inch O.D. Split Spoon Sampler Unless Otherwise Indicated

* Miscellaneous Data PR - Partial Recovery

N - Blow Count NR - No Recovery

N½ SE¼ Section 06 T44N R2E

LPC-34 3/79

APPENDIX B

SAMPLE DATA

Site Name / TDD#: Sand Park / RS-8303-16

Case Number : 4129

Sampling Date: 4/1/85

Sampling Time: 1730

Sample/Station Location: G 102

Organic Traffic Number EB 939

Inorganic Traffic Number MED 059

High Hazard Traffic Number E

Tags- 5-013795 - 5-013800

Physical Description

At time of collection: Clear.

Physical Changes (if any)

From time of collection until shipment: None Known.

Instrument Readings (i.e. - pH, conductivity...): PH- 3, temp- 10°C Conductivity - 650 µmho

Sampling Date: 4/1/85

Sampling Time: 1715

Sample/Station Location: G 103

Organic Traffic Number EB 940

Inorganic Traffic Number MED 060

High Hazard Traffic Number E

Tags 5-76551 - 5-76556

Physical Description

At time of collection: Clear.

Physical Changes (if any)

From time of collection until shipment: None Known

Instrument Readings (i.e. - ph, conductivity...): PH-6, temp- 10°C conductivity - 700 µmho

Site Name / TDD#: Sand Park / RS-8303-16

Case Number : 4129

Sampling Date: 4-1-85

Sampling Time: 1620

Sample/Station Location: G104, Matrix Spike Duplicate

Organic Traffic Number EB 941

Inorganic Traffic Number MEO 061

High Hazard Traffic Number E

Tags - 5-76557 - 5-76562
5-76593 - 5-76596

Physical Description

At time of collection: Clear.

Physical Changes (if any)

From time of collection until shipment: None Known.

Instrument Readings (i.e. - pH, conductivity...):

PH-6, temp-10°C, Conductivity - 480 µmho

Sampling Date: 4/1/85

Sampling Time: 1645

Sample/Station Location: G105

Organic Traffic Number EB 942

Inorganic Traffic Number MEO 062

High Hazard Traffic Number E

Tags - 5-76563 - 5-76568

Physical Description

At time of collection: turbid, light brown.

Physical Changes (if any)

From time of collection until shipment: None Known.

Instrument Readings (i.e. - ph, conductivity...):

PH-6.5, temp-9°C, conductivity - 800 µmho

Site Name / TDD#: Sand Park / R5-8303-1G

Case Number : 4129

Sampling Date: 4/1/85

Sampling Time: 1342

Sample/Station Location: G106

Organic Traffic Number EO 101

Inorganic Traffic Number MEO 093

High Hazard Traffic Number E

Tags: 5-76564 - 5-76574

Physical Description

At time of collection: Slightly Cloudy.

Physical Changes (if any)

From time of collection until shipment: None Known

Instrument Readings (i.e. - pH, conductivity...): pH - 6, conductivity - 340 µmho temperature - 12°C

Sampling Date: 4/1/85

Sampling Time: 1317

Sample/Station Location: G107

Organic Traffic Number EO 102

Inorganic Traffic Number MEO 094

High Hazard Traffic Number E

Tags 5-76575 - 5-76580

Physical Description

At time of collection: Clear

Physical Changes (if any)

From time of collection until shipment: None Known

Instrument Readings (i.e. - ph, conductivity...): Ph - 5 Conductivity - 480 µmho, temperature - 12°C

Site Name / TDD#: Sand Pack / RS-8303-16

Case Number : 4129

Sampling Date: 4/1/85

Sampling Time: 1645

Sample/Station Location: G108 Duplicate to G105

Organic Traffic Number ED 103

Inorganic Traffic Number MED 095

High Hazard Traffic Number E

Tags - 5-76581-5-76586

Physical Description

At time of collection: Turbid, light brown.

Physical Changes (if any)

From time of collection until shipment: None known

Instrument Readings (i.e. - pH, conductivity...): Ph - 6.5

Conductivity - 800 µmho, temperature - 9°C

Sampling Date: 4/1/85

Sampling Time: 1120

Sample/Station Location: Blank

Organic Traffic Number ED 104

Inorganic Traffic Number MED 096

High Hazard Traffic Number E

Tags - 5-76587-5-76592.

Physical Description

At time of collection: Clear

Physical Changes (if any)

From time of collection until shipment: None known

Instrument Readings (i.e. - ph, conductivity...): ph - 5

Conductivity 2 µmho, temperature - 7°C

ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663 9415
International Specialists in the Environmental Sciences

Date Received for Review: 5/22/85 Date Review Completed: 5/23/85

To: Kevin Phillips

From: Cynthia Bachunas / ARLENE PRATL

Subject: SAND PARK R05-8303-016

Sample Description: CASE # 4129 low water organics

Project Data Status: Complete

FIT Data Review Findings:

see attached CRL review

for additional QA/QC info see original data packet on file

- extra copy of data packet included

Additional Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/16/85

SUBJECT: Review of Region V CLP Data
Received for Review on 5-3-85

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory

TO: Data User: FIT

RECEIVED MAY 22 1985

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

SITE NAME: Sand Park SMO Case No. 4129

EPA Data Set No. SF2238 No. of Samples: 8 D.U./Activity Numbers 1905 / C48500

CRL No. 85FP03582 to 85FP03R12

SMO Traffic No. EB939 to ED104

CLP Laboratory: Cal Hrs. Required for Review: 15

Following are our findings.

1. VOA SAMPLE HOLDING TIMES EXCEEDED BY 2-3 DAYS, POSITIVE VALUES CONSIDERED APPROXIMATE.
2. PEST./PCB STANDARD SUMMARY INDICATED UNSTABLE GC CONDITIONS MAY BE PRESENT. SAMPLE ED104 SHOULD BE RE-ANALIZED.
3. INITIAL AND CONTINUING CALIBRATION OUT OF SPEC. RELATED DATA FLAGGED AS ESTIMATED VALUES ONLY.

CHLORO METHANE $\bar{RF}$ = .09 AND BROMOFORM $\bar{RF}$ = .155 THESE VOA SPCC COMPOUNDS DO NOT MEET MINIMUM $\bar{RF}$ CRITERIA OF 0.300. VINYL CHLORIDE %D IN CONTINUING CALIBRATION IS GREATER THAT THE CCC LIMIT OF 25%

ABN CCC COMPOUNDS, PHENOL AND DI-N-OCTYL PHTHALATE, HAVE %RSD GREATER THAN 30% IN THE INITIAL CALIBRATIONS.

Patrick J. Chmielko
5-15-85

( ) Data are acceptable for use.
( ) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

DATA QUALIFIERS

Contractor: CAL

Case CASE 4129

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

SAMPLE HOLDING TIMES FOR VOA ANALYSIS WERE EXCEEDED BY 2-3 DAYS. ANY POSITIVE HITS WILL BE CONSIDERED APPROXIMATE VALUES.

THE VOA BLANKS CONTAINED RELATIVELY HIGH AMOUNTS OF ACETONE BUT ALL BLANKS WERE OTHERWISE ACCEPTABLE.

CONCERNING THE PEST/PCB STANDARD SUMMARY ON 4-23-85, TIME 8:51, THE LARGE % DIFFERENCE IN RESPONSE FACTORS INDICATES THAT SAMPLE ED104 SHOULD HAVE BEEN REANALIZED. REANALYSIS IN NOT PRESENT.

INITIAL AND CONTINUING CALIBRATION HAS BEEN ~~AN~~ A PROBLEM FOR CAL FOR SOME TIME. A NUMBER OF SPCC AND CCC COMPOUNDS WERE OUT OF SPEC. ALONG WITH NUMEROUS HSL COMPOUNDS (SEE ATTACHED LIST) ALL RELATED DATA WILL BE FLAGGED AS ESTIMATED.

Reviewed by: Patrick J. Chuillo

Phone: 353-2720

Date: 5-14-85

RECEIVED MAY 2 2 1985

CASE 4129

INITIAL CALIBRATION OUTLIERS

COMPOUND NAME	VOA 2-5-85	ABN 4-8-85	ABN 4-30-85
CHLOROMETHANE	$\overline{RF}$ = .09		
BROMOFORM	$\overline{RF}$ = .155		
VINYL CHLORIDE	%D = 33.7		
ACETONE	%D = 45.8		
2-BUTANONE	%D = 38.8		
BROMODICHLOROMETHANE	$\overline{RF}$ = .029		
2-CHLOROETHYL VINYL ETHER	$\overline{RF}$ = .027		
BENZIDINE		$\overline{RF}$ = 0.0	$\overline{RF}$ = 0.0
PHENOL		%RSD = 37.3	~~%RSD = 37.3~~
DI-N-OCTYL PHTHALATE			%RSD = 49.2
BENZO(A)PYRENE			%RSD = 31.8
N-NITROSODIMETHYL AMINE		$\overline{RF}$ = 0.0	$\overline{RF}$ = 0.0
BIS(2-CHLOROETHYL)ETHER		%RSD = 52.7	
4-CHLOROANILINE		%RSD = 54.5	%RSD = 85.9
3-NITROANILINE		%RSD = 82.4	%RSD = 43.7
4-NITROANILINE		%RSD = 57.3	
BIS(2-ETHYLHEXYL)PHTHALATE		%RSD = 36.3	
3,3-DICHLOROBENZIDINE			$\overline{RF}$ = 0.0
ANILINE			%RSD = 61.8
1,3-DICHLOROBENZENE			%RSD = 30.5
NAPHTHALENE			%RSD = 30.7
2,4-DINITROTOLUENE			%RSD = 31.1
BENZO(A)ANTHRACENE			%RSD = 35.7

RECEIVED MAY 22 1985

Case 4129

INITIAL CALIBRATION OUTLIERS CONTINUED

COMPOUND NAME	ABN 4-8-85	ABN 4-30-85
BENZO (b OR k) FLUORANTHENE		%RSD = 37.0
DIBENZO (A, H) ANTHRACENE		%RSD = 32.4
BENZO (GHI) PERYLENE		%RSD = 33.3

Case 4129

RECEIVED MAY 2 2 1985

VOA Continuing Calibration Outliers

Compound Name	3-5-85 Time 18:40	4-10-85 Time 9:24	4-10-85 Time 18:51
Chloromethane	RF = .154 %D = 70.2 RF = .138	%D = 342.4 RF = .134	RF = .07 RF = .144
Bromoform			
Vinyl Chloride	%D = 48.3 RF = .05	%D = 141.6 RF = .032	%D = 41.0 RF = .036
Vinyl Acetate		%D = -43.1	%D = -35.0 RF = .037
2-Butanone	%D = 39.0 RF = .034	RF = .028	%D = -50.6 RF = .029
Bromodichloromethane	RF = .023	RF = .009	RF = .01
2-Chloroethyl Vinyl Ether		%D = -69.8	%D = -64.3
Acetone			%D = -25.6
Carbon Disulfide		%D = -53.6	%D = -29.9
1,1,2,2-Tetrachloroethane	%D = 31.9	%D = -32.7	
2-Hexanone		%D = -44.3	%D = -26.2
Styrene		%D = -35.8 RF = .026	%D = -35.3
1,1,1-Trichloroethane		%D = -66.0	
1,1-Dichloroethane		%D = -27.5	
4-Methyl-2-Pentanone		%D = -32.9	

CASE 4129

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ABN CONTINUING CALIBRATION OUTLIERS

COMPOUND NAME	4-26-85 TIME 19:21	4-29-85 TIME 7:38	4-29-85 TIME 18:24	4-30-85 TIME 11:39
BENZIDINE	RF = 0.0	RF = 0.0	RF = 0.0	RF = 0.0
HEXACHLOROCYCLOPENTADIENE	%D = -84.1	%D = -46.9	%D = -50.4	
4-NITROPHENOL	%D = 66.4			
FLUORANTHENE	%D = 27.3		%D = 31.5	
DI-N-OCTYL PHTHALATE	%D = 41.9	%D = 105.4	%D = 101.7	
BENZO(A)PYRENE	%D = 38.3 RF = 0.0	RF = 0.0	%D = 28.2	%D = 25.3 RF = 0.0
N-NITROSO DIMETHYL AMINE	RF = 0.0	RF = 0.0	RF = 0.0	RF = 0.0
3,3-DICHLOROBENZIDINE				
HEXACHLOROETHANE	%D = -54.5			
BENZYL ALCOHOL	%D = 29.9			
NITRO BENZENE	%D = 61.6	%D = 63.1	%D = 56.4	
ISOPHORONE	%D = 58.4	%D = 50.2	%D = 74.0	
2,4-DIMETHYL PHENOL	%D = 25.4			
BIS(2-CHLOROETHOXY)METHANE	%D = 31.0		%D = 27.6	
BENZOIC ACID	%D = -58.5			
2,4-DINITROTOLUENE	%D = 57.1		%D = 39.5	
3-NITROANILINE	%D = 39.4	%D = -31.4	%D = -43.2	
DI-N-BUTYL PHTHALATE	%D = 28.6	%D = 77.9	%D = 43.4	
BENZO(b OR K)FLUORANTHENE	%D = 29.2	%D = 31.6	%D = 27.7	%D = 28.9
ANILINE		%D = -53.1	%D = -31.5	
4-CHLOROANILINE		%D = -40.8	%D = -30.9	
2,4-DINITROPHENOL		%D = -33.8		
4-NITROANILINE		%D = -45.5		
PYRENE		%D = 37.5		
BUTYL BENZYL PHTHALATE		%D = 50.6	%D = 37.8	
~~BIS(2-ETHYLHEXYL) PHTHALATE~~		~~%D = 64.2~~		

CASE 4129

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ABN CONTINUING CALIBRATION OUTLIERS

COMPOUND NAME	4-26-85 Time 19:21	4-29-85 Time 7:38	4-29-85 Time 18:24	4-30-85 Time 11:39
BIS(2-ETHYLHEXYL)PHTHALATE		%D = 69.2	%D = 38.5	
BENZO(GHI)PERYLENE				%D = 30.5

California Analytical Laboratories, Inc.
2544 Industrial Boulevard • West Sacramento, CA 95691 • (916) 372-1393

May 1, 1985

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Dr. Fred Haeberer
U.S. EPA
Hazardous Waste Investigation
401 M Street, SW
Washington, DC 20460

SF2238

Dear Dr. Fred Haeberer:

Enclosed are data summary sheets and documentation for samples and QA/QC comprising Case 4129 of Contract 68-01-6958. These samples were received 4/ 2/85 and logged in under the following CAL Lab numbers:

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MAY 03 1985
U.S. EPA CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

CAL Lab Number	Sample I.D
L728	EB939
L729	EB940
L730	EB941
L731	EB942
L732	ED101
L733	ED102
L734	ED103
L735	ED104

The samples were analyzed as low concentration water samples. The QA/QC data is satisfactory.

The following comments pertain to the initial and on-going calibration curves for volatiles and acid/base neutrals. The initial 5--point curve for volatile organics was reduced to a 4--point curve because the high-level standard saturated our systems. This is allowed by the contract. Two of the SPCC compounds are also outside the contract windows on both the initial curve and the on-going calibration curve; bromoform and methyl chloride. The bromoform has been a continual problem for us since the contract switched to the aromatic internal standards for quantitation. We have checked purge rates, temperatures, and replaced the traps, yet the Rf continually runs about 0.20. We have informed the program of this problem, and it is our understanding that the SPCC value is going to be lowered. The difficulties with methyl chloride and vinyl chloride result from highly variable standards which we obtain from Supelco (our sole source for the gas standards). Over 50% of the standards have had incorrect levels of both methyl chloride and vinyl chloride while bromomethane and chloroethane stay quite constant. We are working on this problem with Supelco but until it is resolved the Rf's for these two compounds will be erratic. We have documented that the correct Rf is about 1.2--1.5 for both compounds, and when we have samples that show positive responses for either compound, they are re-run with an accurate standard.

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In the case of the acid/base neutrals, we have been unable to see benzidine in any of our standards except for the first day they are prepared. This is caused by two problems. First, the method itself is inappropriate for benzidine, as documented in EPA Method 605. Also, it degrades in the standards when combined with the other compounds. These two facts make it impossible to use on either the initial or continuing calibration curve. We also have difficulty with the di-n-octyl phthalate response factor being quite variable. We suspect the difficulty is with the injection port, and that the problem could be solved with an on-column injector. When this is the only CCC value out, we do not re-run the curve since many times the Rf has dropped out of the 25% window in less than 24 hours, then it often falls back in the next day.

These problems have all been discussed in detail with EMSL-LV and at the EPA caucus in Atlanta, and we know that several labs share these difficulties. We firmly believe that the quality of our data is not in question even though we are technically out of contractual compliance concerning the above discussed items. If you have any questions, please give us a call.

Sincerely,

Paul W. Taylor for

Michael J. Miille, PhD
Director of GC/MS Services

Karin S. Yee

Karin S. Yee
Data Specialist

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form 1 page 1

DATA PREP/RELEASE BY: DB, FAJ

SAMPLE NO: VOA BLANK

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: VBK30410B
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

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PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 U	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 J	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	13	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 U	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U	CL18	100-42-5	styrene	5 U
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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form 1 page 1

DATA PREP/RELEASE BY: DB / FK

SAMPLE NO: VOA BLANK

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: VBK30411
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

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PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 U	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 J	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	15	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	11	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 U	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U	CL18	100-42-5	styrene	5 U
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

VALUE- If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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form 1 page 2

DATA PREP/RELEASE BY: Lynn / PAT

SAMPLE NO: METHOD BLANK

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ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728MB
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/26/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 U	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 U
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 U
CL7	106-47-8	4-chloroaniline	10 U	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	10 J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U
53B	77-47-4	hexachlorocyclopentadiene	10 U	74B	205-99-2	benzo(b)fluoranthene(2)	10 U
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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form 1 page 3

DATA PREP/RELEASE BY: DB / PAJ

SAMPLE NO: METHOD BLANK

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728MB

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. METHOD

QC REPORT NO. 63 LAB SAMPLE NO. L728MBAB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
	NO A/BN				

no volatile compound found.

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form 1 page 1

85FP03582

DATA PREP/RELEASE BY: DB / PQ1

SAMPLE NO: EB 939

6102

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

RECEIVED MAY 2 2 1985

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 UJ	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 UJ	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 UJ	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 UJ	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 UJ
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 UJ
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 UJ
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 UJ	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 UJ	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 UJ	CL18	100-42-5	styrene	5 UJ
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

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VALUE- If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. *Single component pesticides $\geq$10 ng/ul in the final extract* should be confirmed by GC/MS.

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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form 1 page 2

DATA PREP/RELEASE BY: DB PGJ

SAMPLE NO: EB 939 6102

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

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CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/26/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 UJ	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 UJ	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U	58A	100-02-7	4-nitrophenol	50 UJ
18B	111-44-4	bis(2-chloroethyl)ether	10 UJ	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 UJ
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 UJ	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 UJ
42B	39633-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 UJ	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 UJ	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 UJ	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 UJ	68B	84-74-2	di-n-butyl phthalate	10 UJ
CL1	65-85-0	benzoic acid	50 UJ	39B	206-44-0	fluoranthene	10 UJ
43B	111-91-1	bis(2-chloroethoxy) methane	10 UJ	5B	92-87-5	benzidine	100 UJ
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 UJ
CL7	106-47-8	4-chloroaniline	10 UJ	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	~~10 JB~~ 8 J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U J
53B	77-47-4	hexachlorocyclopentadiene	10 UJ	74B	205-99-2	benzo(b)fluoranthene(2)	10 UJ
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 UJ
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 UJ
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 UJ				

PSC 8-13-85

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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form 1 page 3

DATA PREP/RELEASE BY: TB / PWS

SAMPLE NO: EB 939 G102

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

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PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. EB99,

QC REPORT NO. 63 LAB SAMPLE NO. L72801AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	143-07-7	DODECANOICACID	A/BN	972	790	6.1 UG/L
2.	55622-59-8	1,3-DIOXOLANE,4-HEPTADECYL-2,2	A/BN	1612	500	21.5 UG/L
3.	131-18-0	1,2-BENZENEDICARBOXYLICACID,DI	A/BN	1626	715	8.8 UG/L
4.	142-18-7	DODECANOICACID,2,3-DIHYDROXYPR	A/BN	1643	447	6.6 UG/L
5.	131-18-0	1,2-BENZENEDICARBOXYLICACID,DI	A/BN	1727	657	7.0 UG/L
6.	54986-42-4	THIOPHENE,2-(DECYLTHIO)-	A/BN	1902	228	1.8 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. DODECANOICACID	1. A	1.
2. 1,3-DIOXOLANE,4-HEPTADECYL-2,2	2. C	2.
3. 1,2-BENZENEDICARBOXYLICACID,DI	3. B	3. see Scan ~~1626~~ 1727
4. DODECANOICACID,2,3-DIHYDROXYPR	4. C	4.
5. 1,2-BENZENEDICARBOXYLICACID,DI	5. B	5. see Scan 1626
6. THIOPHENE,2-(DECYLTHIO)-	6. C	6.

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No volatile compounds found.

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85FP03583 6103

DATA PREP/RELEASE BY: DB PA

SAMPLE NO: EB 940

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs Inc.
LAB SAMPLE NO: L729
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

>>> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<<

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

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PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 UJ	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 UJ	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	130 BJ	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 UJ	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 UJ
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 UJ
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 UJ
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 UJ	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 UJ	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 UJ	CL18	100-42-5	styrene	5 UJ
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

VALUE- If the result is a value greater than or equal to the detection limit, report the value.

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U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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form 1 page 2

DATA PREP/RELEASE BY: DB, PGD

SAMPLE NO: EB 940 6103

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L729
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/30/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U J	58A	100-02-7	4-nitrophenol	50 U
13B	111-44-4	bis(2-chloroethyl)ether	10 U	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U J
26B	541-73-1	1,3-dichlorobenzene	10 U J	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U
55B	91-20-3	naphthalene	10 U J	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U J
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	4 ~~10~~ J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	4 ~~10~~ J
53B	77-47-4	hexachlorocyclopentadiene	10 U	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U J
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U J
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U J
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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DATA PREP/RELEASE BY: DB / PJS

SAMPLE NO: EB 940 G103

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L729

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. EB940

QC REPORT NO. 63 LAB SAMPLE NO. L72901ABR2

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	143-07-7	DODECANOICACID	A/BN	1034	824	9.1 UG/L
2.	55622-59-8	1,3-DIOXOLANE,4-HEPTADECYL-2,2	A/BN	1691	451	12.3 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. DODECANOICACID	1. B	1.
2. 1,3-DIOXOLANE,4-HEPTADECYL-2,2	2. C	2.

no volatile compounds found

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85FP03584

DATA PREP/RELEASE BY: DB / PW

SAMPLE NO: EB 941 G104

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L730
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/10/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

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PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 UJ	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 UJ	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 UJ	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	32 UJ	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 UJ	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 UJ
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 UJ
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 UJ
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	~~10 UB~~ 64J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 UJ	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 UJ	CL18	100-42-5	styrene	5 UJ
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

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VALUE- If the result is a value greater than or equal to the detection limit report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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DATA PREP/RELEASE BY: DB + PAJ

SAMPLE NO: EB 941 G104

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L730
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

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PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 UJ	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 UJ	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 UJ	58A	100-02-7	4-nitrophenol	50 U
13B	111-44-4	bis(2-chloroethyl)ether	10 UJ	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 UJ
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	~~10 J~~ 5J
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 UJ	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 UJ	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	~~10 J~~ 2J
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 UJ
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 UJ
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 UJ
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 UJ
CL7	106-47-8	4-chloroaniline	10 UJ	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	48 BJ
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 UJ
53B	77-47-4	hexachlorocyclopentadiene	10 UJ	74B	205-99-2	benzo(b)fluoranthene(2)	10 UJ
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 UJ
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 UJ				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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DATA PREP/RELEASE BY: DB / PGS

SAMPLE NO: EB 941 G104

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L730

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

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VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. EB941,

QC REPORT NO. 63 LAB SAMPLE NO. L73001AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO- Fuel additive	A/BN	730	918	39.2 UG/L
2.	629-59-4	TETRADECANE	A/BN	836	886	13.7 UG/L
3.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1561	631	8.9 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.
2. TETRADECANE	2. A	2.
3. ETHANOL, 2-(9-OCTADECENYLOXY)-,	3. ~~C~~ B	3.

no volatile compounds found

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85FP03585

DATA PREP/RELEASE BY: DB / PaJ

SAMPLE NO: EB 942 G105

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L731
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U J	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
83V	75-01-4	vinyl chloride	10 U J	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 U J	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U J	4V	71-43-2	benzene	~~5 J~~ 3 J
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U J
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U J
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U J
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 U J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	~~5 J~~ 4 J
CL19	108-05-4	vinyl acetate	10 U J	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U J	CL18	100-42-5	styrene	5 U J
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

RECEIVED MAY 22 1985

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

VALUE- If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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DATA PREP/RELEASE BY: DB / PAJ

SAMPLE NO: EB 942 G105

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L731
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

RECEIVED MAY 22 1985

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U J	59A	51-28-5	2,4-dinitrophenol	50 U J
CL5	62-53-3	aniline	10 U J	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 U J	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	35 J ~~10 J~~	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U J
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	~~10 J~~ 2 J
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U J	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U J	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U J
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U J
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U J
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	10 ~~JB~~ U J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U J
53B	77-47-4	hexachlorocyclopentadiene	10 U J	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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DATA PREP/RELEASE BY: DB / PAS

SAMPLE NO: EB 942 G105

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L731

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. EB942,

GC REPORT NO. 63 LAB SAMPLE NO. L73101AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	496-11-7	1H-INDENE, 2, 3-DIHYDRO-	A/BN	488	862	12.1 UG/L
2.	629-59-4	TETRADECANE	A/BN	836	887	13.5 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 1H-INDENE, 2, 3-DIHYDRO-	1. B	1. Or related compound
2. TETRADECANE	2. A	2.

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no volatile compounds found

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85FP03586

DATA PREP/RELEASE BY: bjm / PAJ

SAMPLE NO: ED 101 6106

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L732
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

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PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 UJ	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 UJ	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 UJ	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 UJ	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 UJ
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 UJ
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 UJ
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 UJ	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 UJ	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 UJ	CL18	100-42-5	styrene	5 UJ
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

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VALUE- If the result is a value greater than or equal to the detection limit report the value.

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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DATA PREP/RELEASE BY: DB PRJ

SAMPLE NO: ED 101 6106

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L732
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

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CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 UJ	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 UJ	59A	51-28-5	2,4-dinitrophenol	50 UJ
CL5	62-53-3	aniline	10 UJ	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 UJ	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 UJ
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	~~10 J~~ 3J
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 UJ	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 UJ	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	~~10 J~~ 2J
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 UJ
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 UJ
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 UJ
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 UJ
CL7	106-47-8	4-chloroaniline	10 UJ	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	74 BJ
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 UJ
53B	77-47-4	hexachlorocyclopentadiene	10 UJ	74B	205-99-2	benzo(b)fluoranthene(2)	10 UJ
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 UJ
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 UJ				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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DATA PREP/RELEASE BY: DB / PAL

SAMPLE NO: ED 101 G106

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L732

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. ED101,

QC REPORT NO. 63 LAB SAMPLE NO. L73201AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	108-94-1	CYCLOHEXANONE	A/BN	302	918	13.4 UG/L
2.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO- Self artifact	A/BN	726	950	62.0 UG/L
3.	629-59-4	TETRADECANE	A/BN	831	884	12.0 UG/L
4.	544-76-3	HEXADECANE	A/BN	983	694	8.4 UG/L
5.	112-52-7	DODECANE, 1-CHLORO-	A/BN	1171	776	7.6 UG/L
6.	629-73-2	1-HEXADECENE	A/BN	1278	696	72.1 UG/L
7.	2425-54-9	TETRADECANE, 1-CHLORO-	A/BN	1292	683	8.6 UG/L
8.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1422	808	20.0 UG/L
9.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1555	703	35.4 UG/L
10.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1684	579	36.3 UG/L
11.	630-07-9	PENTATRIACONTANE	A/BN	1772	541	10.6 UG/L
12.	2136-71-2	ETHANOL, 2-(HEXADECYLOXY)-	A/BN	1874	419	19.6 UG/L

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	COMPOUND NAME	PROBABILITY	
1.	CYCLOHEXANONE	1. A	1.
2.	2H-AZEPIN-2-ONE, HEXAHYDRO- Self artifact	2. A	2.
3.	TETRADECANE	3. A	3.
4.	HEXADECANE	4. B	4. Alkane
5.	DODECANE, 1-CHLORO-	5. B	5. Chlorinated Alkane
6.	1-HEXADECENE	6. B	6.
7.	TETRADECANE, 1-CHLORO-	7. B	7.
8.	ETHANOL, 2-(9-OCTADECENYLOXY)-,	8. B	8. Or related compound
9.	ETHANOL, 2-(9-OCTADECENYLOXY)-,	9. B	9. " " "
10.	ETHANOL, 2-(9-OCTADECENYLOXY)-,	10. C	10.
11.	PENTATRIACONTANE	11 B	11. Alkane
12.	ETHANOL, 2-(HEXADECYLOXY)-	12. C	12.

no volatile compounds found.

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85FP03587

DATA PREP/RELEASE BY: DB / PAJ

SAMPLE NO: ED 102 6107

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L733
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

RECEIVED MAY 22 1985

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U J	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 U J	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 U J	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U J	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U J
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U J
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U J
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 U J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 U J	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U J	CL18	100-42-5	styrene	5 U J
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

VALUE- If the result is a value greater than or equal to the detection limit, report the value.

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U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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DATA PREP/RELEASE BY: DB, PAJ

SAMPLE NO: ED 102 G107

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L733
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/30/85
CONC/DIL FACTOR: 1L/2ML

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PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U J	58A	100-02-7	4-nitrophenol	50 U
13B	111-44-4	bis(2-chloroethyl)ether	10 U	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U J
26B	541-73-1	1,3-dichlorobenzene	10 U J	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U	64A	87-86-5	pentachlorophenol	~~50 J~~ 19 J
54B	78-59-1	isophorone	10 U	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U
55B	91-20-3	naphthalene	10 U J	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U J
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	46 J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U J
53B	77-47-4	hexachlorocyclopentadiene	10 U	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U J
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U J
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U J
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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form 1 page 3

DATA PREP/RELEASE BY: DB, PDJ

SAMPLE NO: ED 102 6107

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L733

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME CAL CASE NO. 4129 SAMPLE NO. ED102,

QC REPORT NO. 63 LAB SAMPLE NO. L73301ABR

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	787	947	57.4 UG/L
2.	87-86-5	PHENOL, PENTACHLORO-	A/BN	1177	816	11.2 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.
2. PHENOL, PENTACHLORO-	2. A	2. See, OC

no volatile compounds found

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85FP03D85

DATA PREP/RELEASE BY: DB / PAJ

SAMPLE NO: ED 103 DUP 6105

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L734
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

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PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U J	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 U J	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 U J	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U J	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U J
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U J
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U J
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 U J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 U J	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U J	CL18	100-42-5	styrene	5 U J
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

VALUE- If the result is a value greater than or equal to the detection limit, report the value.

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U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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DATA PREP/RELEASE BY: DB / PAL

SAMPLE NO: ED 103 6105 DUP

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L734
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

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PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U J	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U J	58A	100-02-7	4-nitrophenol	50 U
13B	111-44-4	bis(2-chloroethyl)ether	10 U J	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U J
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U J
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U J	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U J	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U J
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U J
43B	111-91-1	bis(2-chloroethoxy) methane	10 U J	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U J
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	20 U J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U J
53B	77-47-4	hexachlorocyclopentadiene	10 U J	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U J
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
7'B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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form 1 page 3

DATA PREP/RELEASE BY: DB, PAS

SAMPLE NO: ED 103 Gic 5 DuP

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L734

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

RECEIVED MAY 2 2 1985

PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. ED103,

GC REPORT NO. 63 LAB SAMPLE NO. L73401AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	143-07-7	DODECANOICACID	A/BN	968	796	8.5 UG/L
2.	55622-59-8	1,3-DIOXOLANE,4-HEPTADECYL-2,2	A/BN	1608	526	26.7 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. DODECANOICACID	1. B	1.
2. 1,3-DIOXOLANE,4-HEPTADECYL-2,2	2. C	2.

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no volatile compounds found

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85FP03R12

DATA PREP/RELEASE BY: DB / PAT

SAMPLE NO: ED 104

BLK

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L735
CONTRACT NO: 68-01-6958

CASE: 40129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

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PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 UJ	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 UJ	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	1200 BJ	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 UJ	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 UJ
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 UJ
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 UJ
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 UJ	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 UJ	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 UJ	CL18	100-42-5	styrene	5 UJ
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

VALUE- If the result is a value greater than or equal to the detection limit, report the value.

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U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

C- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract should be confirmed by GC/MS.

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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form 1 page 2

DATA PREP/RELEASE BY: DB - PRJ

SAMPLE NO: ED 104

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L735
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

BLK

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

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PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 UJ	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 UJ	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 UJ	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 UJ	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 UJ
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 UJ
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 UJ	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 UJ	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 UJ
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 UJ
43B	111-91-1	bis(2-chloroethoxy) methane	10 UJ	5B	92-87-5	benzidine	100 UJ
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 UJ
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 UJ
CL7	106-47-8	4-chloroaniline	10 UJ	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	~~10 JB~~ 34 J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 UJ
53B	77-47-4	hexachlorocyclopentadiene	10 UJ	74B	205-99-2	benzo(b)fluoranthene(2)	10 UJ
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 UJ
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 UJ
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 UJ				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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form 1 page 3

DATA PREP/RELEASE BY: DB PAS

SAMPLE NO: ED 104 BLK

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L735

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ecology and environment, inc.
227 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663 9415
International Specialists in the Environmental Sciences

Date Received for Review: 4/29/85 Date Review Completed: 5/1/85

To: Kevin Phillips

From: Cynthia Bachunas / ARIENE PRATL

Subject: SAND PARK R05-8303-016 (WW)

Sample Description: CASE # 4129 low water metals + cyanide

Project Data Status: still awaiting low water organics

FIT Data Review Findings: See attached CRC review
Duplicate data for Cu + Zn outside QC limits
Blank sample contaminated with Cu, Fe, Ni + Zn Data for these compounds is questionable

Additional Comments:

recycled paper

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. ED104,

QC REPORT NO 63 LAB SAMPLE NO. L73501AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	538-24-9	DODECANOICACID,1,2,3-PROPANETR	A/BN	1763	402	8.5 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. DODECANOICACID,1,2,3-PROPANETR	1. B	1.

no volatile compounds found

RECEIVED MAY 22 1985

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 4-24-85

SUBJECT: Review of Region V CLP Data
Received for Review on 4/23/85

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thakkar

TO: Data User: Eit

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

SITE NAME: Sand Park SMO Case No. 4129

EPA Data Set No. SF 2238 No. of Samples: 8 D.U./Activity Numbers 4905 C48500

CRL No. 85FP03582 - 85FP03597

SMO Traffic No. MED059-062; MED093-096

CLP Laboratory: RMAL Hrs. Required for Review: 1 hr.

Following are our findings.

This review covers 8 low concentration water samples.
The spike recoveries for K (137%) was biased high.
The spike recoveries for Se (58%) and Tl (50%) are biased low.
The data for Se and Tl is unusable.

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Jan F. Pels
4/24/85

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

REGION V, U.S. ENVIRONMENTAL PROTECTION AGENCY
ESD/Central Regional Laboratory

DATA TRACKING - FORM I

CRL Data Set No. SF 2258 ERRIS No. _____

SMO Case No. 4129 Site Name: Sand Park

Name of Laboratory: RMAL Data User: Jet

No. of Samples: 8 Date Samples Received: 4/17/85

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic reports been received? YES ✓ NO ___
3. If no, are Traffic report numbers written on the chain-of-custody record? YES ___ NO ___
4. If no, which Traffic report numbers are missing?

5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 8 Number of samples received: 8
7. Checked by: Melissa Fabiano Date: 4/23/85
8. Received by Contract Project Management Section: [illegible] Date: 4/23/85
9. Review Started: 4/24/85 Reviewer Signature: Jan F. Pels
10. Total time spent on review: 1 hr. Date review completed: 4/24/85
11. Copied (xeroxed) by: _____ Date: _____
12. Mailed to Data User by: _____ Date: _____

TO DATA USERS:

Please fill in the blanks and return this form to:

Charles Elly, DPO, Region V, 5SCRL

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13. Data received by: Arlene Grace Date: 5/1/85
14. Q.A. review received by: Arlene Grace Date: 5/1/85
15. Received by CRL - CPM Section for file by: _____

Date: _____

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536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

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703/557-2490 FTS: 8-557-2490

Date 4-15-85

COVER PAGE
INORGANIC ANALYSIS DATA PACKAGE

Lab Name ROCKY MOUNTAIN ANALYTICAL Case No. 4129
SOW No. 784 QC Report No. 5725

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MED059			
MED060			
MED061			
MED062			
MED093			
MED094			
MED095			
MED096			

Comments: TASKS 1 2 AND CN 8 LOW WATERS
THE ICAP 10X SERIAL DILUTION FOR SAMPLE MED095 IS IDENTIFIED AS MED999.

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ICP Interelement and background corrections applied? Yes X No ___.
If yes, corrections applied before X or after ___ generation of raw data.
Footnotes:
NR - not required by contract at this time
Form I:
Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the method used with P (for ICP/Flame AA) or F (for furnace).
U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).
E - Indicates a value estimated or not reported due to the presence of Interference. Explanatory note included on cover page.
S - Indicates value determined by Method of Standard Addition.
R - Indicates spike sample recovery is not within control limits.
* - Indicates duplicate analysis is not within control limits.
+ - Indicates the correlation coefficient for method of standard addition is Less than 0.995
CV - Indicates Cold Vapor
MS - Indicates Manual Spectrophotometric

6102

85F05582

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703/557-2490 FTS: 8-557-2490

EPA Sample No.
MED059

Date 4-15-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4129
QC REPORT NO. 5725

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L

1.	ALUMINUM	[33]	P	13.	MAGNESIUM	34700	P
2.	ANTIMONY	46U	P	14.	MANGANESE	177	P
3.	ARSENIC	4u	F	15.	MERCURY	0.1u	CV
4.	BARIUM	[24]	P	16.	NICKEL	5U	P
5.	BERYLLIUM	0.5U	P	17.	POTASSIUM	[1270]	P R
6.	CADMIUM	5U	P	18.	SELENIUM	5u	F R
7.	CALCIUM	76400	P	19.	SILVER	4U	P
8.	CHROMIUM	4U	P	20.	SODIUM	5500	P
9.	COBALT	7U	P	21.	THALLIUM	10u	F R
10.	COPPER	4U	P	22.	TIN	36U	P
11.	IRON	332	P	23.	VANADIUM	4U	P
12.	LEAD	2u	F	24.	ZINC	[7.4]	P

Cyanide 10u MS Percent Solids (%) ____

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

Comments:

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Lab Manager

G103

85EP03583

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EPA Sample No.
MED060

Date 4-15-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4129
QC REPORT NO. 5725

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L

1.	ALUMINUM	23U	P	13.	MAGNESIUM	36800	P
2.	ANTIMONY	46U	P	14.	MANGANESE	108	P
3.	ARSENIC	4u	F	15.	MERCURY	0.1u	CV
4.	BARIUM	[37]	P	16.	NICKEL	5U	P
5.	BERYLLIUM	0.5U	P	17.	POTASSIUM	[3040]	P R
6.	CADMIUM	5U	P	18.	SELENIUM	5u	F R
7.	CALCIUM	81900	P	19.	SILVER	4U	P
8.	CHROMIUM	4U	P	20.	SODIUM	23300	P
9.	COBALT	7U	P	21.	THALLIUM	10u	F R
10.	COPPER	4U	P	22.	TIN	36U	P
11.	IRON	496	P	23.	VANADIUM	4U	P
12.	LEAD	2u	F	24.	ZINC	[6.3]	P

Cyanide 10u MS Percent Solids (%) ____

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

Comments:

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Lab Manager JM

G104

85FP03584

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EPA Sample No.
MED061

Date 4-15-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4129
QC REPORT NO. 5725

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L

1.	ALUMINUM	23U	P	13.	MAGNESIUM	35200	P
2.	ANTIMONY	46U	P	14.	MANGANESE	280	P
3.	ARSENIC	10u	F	15.	MERCURY	0.1u	CV
4.	BARIUM	[39]	P	16.	NICKEL	5U	P
5.	BERYLLIUM	0.5U	P	17.	POTASSIUM	[2600]	P R
6.	CADMIUM	5U	P	18.	SELENIUM	5u	F R
7.	CALCIUM	80700	P	19.	SILVER	4U	P
8.	CHROMIUM	4U	P	20.	SODIUM	12400	P
9.	COBALT	7U	P	21.	THALLIUM	10u	F R
10.	COPPER	4U	P	22.	TIN	36U	P
11.	IRON	1200	P	23.	VANADIUM	4U	P
12.	LEAD	5u	F	24.	ZINC	[7.5]	P

Cyanide 10u MS Percent Solids (%) ____

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

Comments: RECEIVED [illegible] 1985

Lab Manager [illegible]

C 105

85FP03585

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Sample Management Office
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EPA Sample No.
MED062

Date 4-15-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4129
QC REPORT NO. 5725

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L

1.	ALUMINUM	23U	P	13.	MAGNESIUM	31800	P
2.	ANTIMONY	46U	P	14.	MANGANESE	354	P
3.	ARSENIC	14	F	15.	MERCURY	0.1u	CV
4.	BARIUM	482	P	16.	NICKEL	5U	P
5.	BERYLLIUM	0.5U	P	17.	POTASSIUM	21000	P R
6.	CADMIUM	5U	P	18.	SELENIUM	5u	F R
7.	CALCIUM	107000	P	19.	SILVER	4U	P
8.	CHROMIUM	4U	P	20.	SODIUM	24000	P
9.	COBALT	7U	P	21.	THALLIUM	10u	F R
10.	COPPER	[6.4]	P	22.	TIN	36U	P
11.	IRON	15700	P	23.	VANADIUM	4U	P
12.	LEAD	5u	F	24.	ZINC	24	P

Cyanide 10u MS Percent Solids (%) ____

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

Comments: ____

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Lab Manager ____

G106

85FP03586

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

EPA Sample No.
MED093

Date 4-15-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4129
QC REPORT NO. 5725

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L

1.	ALUMINUM	23U	P	13.	MAGNESIUM	28900	P
2.	ANTIMONY	46U	P	14.	MANGANESE	50	P
3.	ARSENIC	4u	F	15.	MERCURY	0.1u	CV
4.	BARIUM	[59]	P	16.	NICKEL	5U	P
5.	BERYLLIUM	0.5U	P	17.	POTASSIUM	[1150]	P R
6.	CADMIUM	5U	P	18.	SELENIUM	5u	F R
7.	CALCIUM	68000	P	19.	SILVER	4U	P
8.	CHROMIUM	4U	P	20.	SODIUM	7350	P
9.	COBALT	7U	P	21.	THALLIUM	10u	F R
10.	COPPER	[4.5]	P	22.	TIN	36U	P
11.	IRON	361	P	23.	VANADIUM	4U	P
12.	LEAD	5u	F	24.	ZINC	[9.2]	P

Cyanide 10u MS Percent Solids (%)

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

Comments:

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Lab Manager JM

G107

85EP03587

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

EPA Sample No.
MED094

Date 4-15-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4129
QC REPORT NO. 5725

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L

1.	ALUMINUM	23U	P	13.	MAGNESIUM	43400	P
2.	ANTIMONY	46U	P	14.	MANGANESE	[4.6]	P
3.	ARSENIC	4u	F	15.	MERCURY	0.1u	CV
4.	BARIUM	[63]	P	16.	NICKEL	5U	P
5.	BERYLLIUM	0.5U	P	17.	POTASSIUM	[1320]	P R
6.	CADMIUM	5U	P	18.	SELENIUM	5u	F R
7.	CALCIUM	105000	P	19.	SILVER	4U	P
8.	CHROMIUM	24	P	20.	SODIUM	14200	P
9.	COBALT	7U	P	21.	THALLIUM	E	F R
10.	COPPER	[4.6]	P	22.	TIN	36U	P
11.	IRON	[34]	P	23.	VANADIUM	4U	P
12.	LEAD	2u	F	24.	ZINC	[11]	P

Cyanide 10u MS Percent Solids (%) ____

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

Comments:

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Lab Manager JM

Dup 6105
85FP03D85

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

EPA Sample No.
MED095

Date 4-15-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4129
QC REPORT NO. 5725

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L

1.	ALUMINUM	23U	P	13.	MAGNESIUM	32400	P
2.	ANTIMONY	46U	P	14.	MANGANESE	332	P
3.	ARSENIC	15	F	15.	MERCURY	0.1u	CV
4.	BARIUM	510	P	16.	NICKEL	[5.6]	P
5.	BERYLLIUM	0.5U	P	17.	POTASSIUM	19700	P R
6.	CADMIUM	5U	P	18.	SELENIUM	5u	F R
7.	CALCIUM	109000	P	19.	SILVER	4U	P
8.	CHROMIUM	4U	P	20.	SODIUM	24100	P
9.	COBALT	7U	P	21.	THALLIUM	10u	F R
10.	COPPER	[4.3]	P	22.	TIN	36U	P
11.	IRON	16900	P	23.	VANADIUM	4U	P
12.	LEAD	5u	F	24.	ZINC	[8.6]	P

Cyanide 10u MS Percent Solids (%) ____

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

Comments:

RECEIVED APR 29 1985

Lab Manager

BLK

85FD03R12

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

EPA Sample No.
MED096

Date 4-15-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 4129
QC REPORT NO. 5725

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water X Soil ____ Sludge ____ Other ____

ug/L

1.	ALUMINUM	23U	P	13.	MAGNESIUM	330U	P
2.	ANTIMONY	46U	P	14.	MANGANESE	3U	P
3.	ARSENIC	4u	F	15.	MERCURY	0.1u	CV
4.	BARIUM	12U	P	16.	NICKEL	[12]	P
5.	BERYLLIUM	0.5U	P	17.	POTASSIUM	470U	P R
6.	CADMIUM	5U	P	18.	SELENIUM	2u	F R
7.	CALCIUM	290U	P	19.	SILVER	4U	P
8.	CHROMIUM	4U	P	20.	SODIUM	880U	P
9.	COBALT	7U	P	21.	THALLIUM	4u	F R
10.	COPPER	45	P	22.	TIN	36U	P
11.	IRON	[18]	P	23.	VANADIUM	4U	P
12.	LEAD	2u	F	24.	ZINC	[5.8]	P

Cyanide 10u MS Percent Solids (%) ____

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

Comments: BLANK

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Lab Manager Jm

Site Name / Spill: COLS MAK [illegible] / COLS SOS-010

Case Number : 3140

Sampling Date: 8-15-84

Sampling Time: 9:30

Sample/Station Location: W-2 / G-102

Organic Traffic Number E 8327

Inorganic Traffic Number ME 3265

High Hazard Traffic Number E

Physical Description

At time of collection: Low CONC. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
metals filtered .45 ug HNO3 added to metals

Instrument Readings (i.e. - pH, conductivity...): pH~2 metals
pH~12 Cyanide

Sampling Date: 8-15-84

Sampling Time: 9:30

Sample/Station Location: W-3 / G-103

Organic Traffic Number E 8328

Inorganic Traffic Number ME 3266

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
metals filtered .45 ug HNO3 added to metals

Instrument Readings (i.e. - ph, conductivity...): pH~2 metals
pH~12 cyanide

Site Name / TIDI: Loves Park / 1205-5303-01P

Case Number : 3140

Sampling Date: 8-15-84

Sampling Time: ~~GMT~~ 10:00

Sample/Station Location: W-4 / G-104

Organic Traffic Number E 8329

Inorganic Traffic Number ME 3267

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
HNO3 added to metals metals filtered 45 ug

Instrument Readings (i.e. - pH, conductivity...): PH-2 metals
PH-12 Cyanide

Sampling Date: 8-15-84

Sampling Time: 10:00

Sample/Station Location: W-5 / G-105

Organic Traffic Number E 8330

Inorganic Traffic Number ME 3268

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
Metals filtered 45 ug HNO3 added to metals

Instrument Readings (i.e. - ph, conductivity...): PH-2 metals
PH-12 cyanide

Site Name / ID#: LOVES PARK / ILD 980503 070

Case Number : 3140

Sampling Date: ~~W-4/6-84~~ 8-15-84

Sampling Time: ~~W-4/6-84~~ 10:00

Sample/Station Location: W-4/6-104

Organic Traffic Number E 8331

Inorganic Traffic Number ME 3269

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
metals filtered .45 ug HNO3 added to metals

Instrument Readings (i.e. - pH, conductivity...): pH~2 metals
pH~12 Cyanide

Sampling Date: 8-15-84

Sampling Time: 11:00

Sample/Station Location: BLANK/BLANK

Organic Traffic Number E 8332

Inorganic Traffic Number ME 3270

High Hazard Traffic Number E

Physical Description

At time of collection: DISTILLED WATER

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
metals filtered .45 ug HNO3 added to metals

Instrument Readings (i.e. - ph, conductivity...): pH~2 metals
pH~12 Cyanide

ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

Date Received for Review: 9/21/84 Date Review Completed: 9/28/84

To: RON ST. JOHN

From: Cynthia Bachunas

Subject: LOVES PARK
R05-8303-01D (ILLINOIS)

Sample Description: CASE 3140 - LOW WATER ORGANICS

Project Data Status: STILL AWAITING METALS & CYANIDE

FIT Data Review Findings:

- FIELD BLANK CONTAINS 7.5 ppb ACETONE

SEE ATTACHED CRL REVIEW FOR COMMENTS

Additional Comments:

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE 9/19/84

RECEIVED SEP 21 1984

SUBJECT Review of Region V CLP Data
Received for Review on 9/14/84

FROM Curtis Ross, Director
Central Regional Laboratory Chuck Elby

TO Data User: FIT

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

SITE NAME Loves Park SMO Case No. 3140

EPA Data Set No. SF638 No. of Samples 6 D.U./Activity Numbers 1905 1C48500

CRL No. 84MS07570 To 84MS09R12

SMO Traffic No. E8327 to E8332

Contract Laboratory: Pedco Hours Required for Review: 8

Following are our findings.

WATER SURROGATE % RECOVERY - SEE ATTACHMENT 1

SEMI-VOLATILES

SAMPLE	Compounds	
BLANK	D_5 - Nitrobenzene	OUTSIDE OF QC LIMITS.
	D_{14} - p-Terphenyl	" " " "
E8327	D_5 - Nitrobenzene	" " " "
E8329	D_5 - Nitrobenzene	" " " "
E8330	D_{14} - p-Terphenyl	" " " "
E8330MS	D_5 - Nitrobenzene	" "

CONT. ON NEXT PAGE

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above. 9-18-84
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Robert Pritchard, CLP/SMO

EPA FORM 1320-6 (REV. 3-76)

WATER SURROGATE % RECOVERY. CONT.

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PESTICIDES

SAMPLE	Compound	
BLANK	DibutylChlorendate	OUTSIDE OF QC LIMITS
E8328	"	" " " "
E8330	"	" " " "
E8332	"	" " " "

MATRIX SPIKE DUPLICATE / RECOVERY. SEE ATTACHMENT 2

FRACTION	SAMPLE	Compound	STATISTIC	
B/N	E8327 MS+MSD	Di-N-Butyl-phthalate	% REC	OUTSIDE OF QC LIMITS
B/N	E8227MS	PYRENE	% REC	" " " "

FORM III

WATER SURROGATE PERCENT RECOVERY SUMMARY

CASE NO. 3140
LOW LEVEL ✓
WATER ✓
QC REPORT NO.

CONTRACTOR PEDCo Environmental
MED. LEVEL

CONTRACT NO. 68-01-6779
HIGH LEVEL
OTHER (Specify)

ATTACHMENT 1

[-------Volatile -------][----------Semi-Volatile----------][Pesticide]--[Dioxin]

EPA Traffic Report No.	D_8 Toluene (85-119)	DFB (85-121)	D_4-1,2-Dichloroethane (77-120)	D_5-Nitrobenzene (41-120)	2-Fluorobiphenyl (44-119)	D_{14}-p-Terphenyl (33-128)	D_5-Phenol (15-96)	2-Fluorophenol (23-107)	2,4,6-Tribromophenol (20-105)	Dibutyl-Chlorendate (67-114)**	1,2,3,4-TCDD (23-148)
BLANK	100	100	95	40*	70	132*	24	62	22	45*	
8327	106	112	86	24*	54	62	26	66	46	90	
8328	105	109	88	46	84	102	26	70	40	115*	
8330	103	110	89	34*	62	88	18	54	38	98	
8350	104	111	89	42	62	10*	28	80	38	10*	
8331	102	110	90	44	84	104	26	70	24	114	
8332	105	112	93	46	80	128	26	72	22	125*	
8329MS	103	107	86	38*	74	124	32	88	48		
8329MSD	103	100	85	52	92	94	34	70	48		

Asterisked values are outside of QC limits.
** Advisory Limit

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Comments:

Dioxins: ___ out of ___ outside of QC limits
Volatiles: 0 out of 27; outside of QC limits
Semi-Volitales: 6 out of 54; outside of QC limits

FORM V

MATRIX SPIKE DUPLICATE/RECOVERY

CASE NO. 3140
LOW LEVEL ✓
WATER ✓
QC REPORT NO.

CONTRACTOR PEDCo Environmental
MED. LEVEL
SOIL/SED.

CONTRACT NO. 68-01-6779
HIGH LEVEL
OTHER (Specify)
UNITS (Circle) ug/kg ug/L

ATTACHMENT 2

FRACTION	COMPOUND	CONC. SPIKE ADDED	CONC. MS	% REC.	CONC. MSD	% REC	RPD	QC %RECOVERY LIMITS* RPD	WATER	SOIL	COMMENTS
VOA SMO # E8329	1,1-Dichloroethylene	49.9	56.5	113.2	53.1	106.4	6.2	<15%	61-145	59-177	
	Trichloroethylene	55.4	63.4	114.4	60.9	109.9	4.0	<15%	71-120	62-137	
	Chlorobenzene	42.3	49.2	116.3	49.5	117.0	0.6	<15%	75-130	60-133	
	Toluene	42.1	46.6	110.7	44.3	105.2	5.1	<15%	76-125	59-139	
	Benzene	41.7	47.1	112.9	44.9	107.7	4.6	<15%	76-127	66-142	
B/N SMO # E8327	1,2,4-Trichlorobenzene	51.7	32.6	63	44.6	86	27	<50%	39- 98	38-107	
	Acenaphthene	50.3	33.6	67	39.4	78	15	<50%	46-118	31-137	
	2,4-Dinitrotoluene	52.2	22.8	44	24.6	47	7	<50%	24- 96	28- 89	
	Di-N-Butylphthalate	69.5	5.2	(7*)	5.2	(7*)	0	<50%	11-117	29-135	
	Pyrene	65.0	95.8	(147*)	78.	120	20	<50%	26-127	35-142	
	N-Nitrosodi-N-Propylamine	56.0	27.8	50	36.2	65	26	<50%	41-116	41-126	
	1,4-Dichlorobenzene	60.7	30.2	50	39.0	64	25	<50%	36- 97	28-104	
ACID SMO # E8327	Pentachlorophenol	101.2	59.0	58	57.6	57	2	<40%	9-103	17-109	
	Phenol	103.8	60.4	58	70.4	68	16	<40%	12- 89	26- 90	
	2-Chlorophenol	110.4	88.6	80	75.4	68	16	<40%	27-123	25-102	
	P-Chlor-M-Cresol	100.8	55.0	55	54.6	54	2	<40%	23- 97	26-103	
	4-Nitrophenol	100.8	52.0	52	44.0	44	17	<40%	10- 80	11-114	
PEST SMO # E8329	Lindane	13.0	11.7	90.0	11.6	89.2	0.8	<40%	56-123	46-127	
	Heptachlor	13.2	9.97	75.7	9.91	75.1	0.6	<40%	40-131	35-130	
	Aldrin	10.7	9.33	87.2	9.20	86.0	1.2	<40%	40-120	34-132	
	Dieldrin	10.0	9.28	92.8	8.22	82.2	0.6	<40%	52-126	31-134	
	Endrin	10.7	9.97	93.2	9.55	89.8	3.9	<40%	56-121	42-139	
	p,p-DDT	9.0	9.44	93.8	9.31	92.3	1.5	<40%	38-127	23-134	

*Asterisked values are outside QC limits.

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RPD:
VOAs 0 out of 5; outside QC limits
B/N 0 out of 7; outside QC limits
ACID 0 out of 5; outside QC limits
PEST 0 out of 6; outside QC limits

RECOVERY:
VOAs 0 out of 10; outside of QC limits
B/N 3 out of 14; outside of QC limits
ACID 0 out of 10; outside of QC limits
PEST 0 out of 12; outside of QC limits

162

USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

RECEIVED ... 2 1 1984

84MS0 75'1
SAMPLE NO.
E8328
G-103

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO DR957
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED A9

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

VOLATILES

CONCENTRATION LOW
DATE PREPARED 8/17/84
DATE ANALYZED 8/17/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----5ML

PP#	CAS#		UG/L
(2V)	107-02-8	ACROLEIN	100U
(3V)	107-13-1	ACRYLONITRILE	100U
(4V)	71-43-2	BENZENE	5U
(6V)	56-23-2	CARBON TETRACHLORIDE	5U
(7V)	108-90-7	CLOROBENZENE	5U
(10V)	107-06-2	1,2-DICHLOROETHANE	5U
(11V)	71-55-6	1,1,1-TRICHLOROETHANE	5U
(13V)	75-34-3	1,1-DICHLOROETHANE	5U
(14V)	79-00-5	1,1,2-TRICHLOROETHANE	5U
(15V)	79-34-5	1,1,2,2-TETRACHLOROETHANE	10U
(16V)	75-00-3	CHLOROETHANE	10U
(19V)	110-75-8	2-CHLOROETHYLVINYLETHER	10U
(23V)	67-66-3	CHLOROFORM	5U
(29V)	75-35-4	1,1-DICHLOROETHENE	5U
(30V)	156-60-5	TRANS-1,2-DICHLOROETHENE	5U
(32V)	78-87-5	1,2-DICHLOROPROPANE	10U
(33V)	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5U
	10061-01-05	CIS-1,3-DICHLOROPROPENE	5U
(38V)	100-41-4	ETHYLBENZENE	5U
(44V)	75-09-2	METHYLENE CHLORIDE	5UC
(45V)	74-87-3	CHLOROMETHANE	10U
(46V)	74-83-9	BROMOMETHANE	10U
(47V)	75-25-2	BROMOFORM	10U
(48V)	75-27-4	BROMODICHLOROMETHANE	5U
(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5U
(50V)	75-71-8	DICHLORODIFLUOROMETHANE	NA
(51V)	124-48-1	CHLORODIBROMOMETHANE	5U
(85V)	127-18-4	TETRACHLOROETHENE	5U
(86V)	108-88-3	TOLUENE	5U
(87V)	79-01-6	TRICHLOROETHENE	5U
(88V)	75-01-4	VINYL CHLORIDE	10U
	67-64-1	ACETONE	5U
	78-93-3	2-BUTANONE	5U
	75-15-0	CARBON DISULFIDE	1U
	519-78-6	2-HEXANONE	5U
	108-10-1	4-METHYL-2-PENTANONE	5U
	100-42-5	STYRENE	5U
	108-05-4	VINYL ACETATE	5U
	1330-20-7	TOTAL XYLENES	5U

PESTICIDES

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/5/84
PERCENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----10

C0049

PP#	CAS#		UG/L
(89P)	309-00-2	ALDRIN	.005U
(90P)	60-57-1	DIELDRIN	.005U
(91P)	57-74-9	CHLORDANE	.05U
(92P)	50-29-3	4,4'DDT	.01U
(93P)	72-55-9	4,4'DDE	.005U
(94P)	72-54-8	4,4'DDD	.1U
(95P)	115-29-7	ALPHA-ENDOSULFAN	.005U
(96P)	115-29-7	BETA-ENDOSULFAN	.005U
(97P)	1031-07-8	ENDOSULFAN SULFATE	.01U
(98P)	72-20-8	ENDRIN	.005U
(99P)	7421-93-4	ENDRIN ALDEHYDE	.01U
(100P)	76-44-8	HEPTACHLOR	.005U
(101P)	1024-57-3	HEPTACHLOR EPOXIDE	.005U
(102P)	319-84-6	ALPHA-BHC	.005U
(103P)	319-85-7	BETA-BHC	.005U
(104P)	319-86-8	DELTA-BHC	.005U
(105P)	58-89-9	GAMMA-BHC (LINDANE)	.005U
106P	53469-21-9	PCB-1242	.05U
107P	11097-69-1	PCB-1254	.1U
108P	11104-28-2	PCB-1221	.1U
109P	11141-16-5	PCB-1232	.05U
110P	12672-29-6	PCB-1248	.1U
111P	11096-82-5	PCB-1260	.1U
112P	12674-11-2	PCB-1016	.2U
113P	8001-35-2	TOXAPHENE	.05U

USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

SAMPLE NO.
E8328

G-103

ORGANICS ANALYSIS DATA SHEET

RECEIVED SEP 21 1984

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO DR957
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

SEMIVOLATILE COMPOUNDS

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/11/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----500

00050

PP#	CAS#		UG/L
(21A)	88-06-2	2,4,6-TRICHLOROPHENOL	10U
(22A)	59-50-7	P-CHLORO-M-CRESOL	10U
(24A)	95-57-8	2-CHLOROPHENOL	10U
(31A)	120-83-2	2,4-DICHLOROPHENOL	10U
(34A)	105-67-9	2,4-DIMETHYLPHENOL	10U
(57A)	88-75-5	2-NITROPHENOL	20U
(58A)	100-02-7	4-NITROPHENOL	50U
(59A)	51-28-5	2,4-DINITROPHENOL	50U
(60A)	534-52-1	4,6-DINITRO-O-CRESOL	20U
(64A)	87-86-5	PENTACHLOROPHENOL	10U
(65A)	108-95-2	PHENOL	10U
	65-85-0	BENZOIC ACID	100U
	95-48-7	2-METHYLPHENOL	5U
	108-39-4	4-METHYLPHENOL	5U
	95-95-4	2,4,5-TRICHLOROPHENOL	100U
(1B)	83-32-9	ACENAPTHENE	10U
(5B)	92-87-5	BENZIDINE	40U
(8B)	120-82-1	1,2,4-TRICHLOROBENZENE	10U
(9B)	118-74-1	HEXACHLOROBENZENE	10U
(12B)	67-72-1	HEXACHLOROETHANE	10U
(18B)	111-44-4	BIS(2-CHLOROETHYL)ETHER	10U
(20B)	91-58-7	2-CHLORONAPTHALENE	10U
(25B)	95-50-1	1,2-DICHLOROBENZENE	10U
(26B)	541-73-1	1,3-DICHLOROBENZENE	10U
(27B)	106-46-7	1,4-DICHLOROBENZENE	10U
(28B)	91-94-1	3,3'-DICHLOROBENZIDINE	20U
(35B)	121-14-2	2,4-DINITROTOLUENE	20U
(36B)	606-20-2	2,6-DINITROTOLUENE	20U
(37B)	122-66-7	1,2-DIPHENYLHYDRAZINE	20U
(39B)	206-44-0	FLUORANTHENE	10U
(40B)	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
(41B)	101-55-3	4-BROMPHENYLPHENYLETHER	10U
(42B)	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	20U
(43B)	111-91-1	BIS(2-CHLORETHOXY)METHANE	20U

PP#	CAS#		UG/L
(52B)	87-68-3	HEXACHLOROBUTADIENE	10U
(53B)	77-47-4	HEXACHLOROCYCLOPENTADIENE	10U
(54B)	78-59-1	ISOPHORONE	10U
(55B)	91-20-3	NAPTHALENE	10U
(56B)	98-95-3	NITROBENZENE	10U
(62B)	86-30-6	N-NITROSODIPHENYLAMINE	10U
(63B)	621-64-7	N-NITROSODIPROPYLAMINE	10U
(66B)	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10U
(67B)	85-68-7	BENZYLBUTYL PHTHALATE	10U
(68B)	84-74-2	DI-N-BUTYL PHTHALATE	10U
(69B)	117-84-0	DI-N-OCTYL PHTHALATE	10U
(70B)	84-66-2	DIETHYL PHTHALATE	10U
(71B)	131-11-3	DIMETHYL PHTHALATE	10U
(72B)	56-55-3	BENZO(A)ANTHRACENE	10U
(73B)	50-32-8	BENZO(A)PYRENE	20U
(74B)	205-99-2	BENZO(B)FLUORANTHENE AND/	20U
(75B)	207-08-9	BENZO(K)FLUORANTHENE OR	20U
(76B)	218-01-9	CHRYSENE	20U
(77B)	208-96-8	ACENAPTHYLENE	10U
(78B)	120-12-7	ANTHRACENE	10U
(79B)	191-24-2	BENZO(GHI)PERYLENE	20U
(80B)	86-73-7	FLUORENE	10U
(81B)	85-01-8	PHENANTHRENE	10U
(82B)	53-70-3	DIBENZO(AH)ANTHRACENE	20U
(83B)	193-39-5	INDENO(123-CD)PYRENE	20U
(84B)	129-00-0	PYRENE	10U
	62-53-3	ANILINE	5U
	100-51-6	BENZYL ALCOHOL	20U
	106-47-8	4-CHLOROANILINE	50U
	132-64-9	DIBENZOFURAN	10U
	91-57-6	2-METHYLNAPTHALENE	20U
	88-74-4	2-NITROANILINE	100U
	99-09-2	3-NITROANILINE	100U
	100-01-6	4-NITROANILINE	100U

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ORGANICS ANALYSIS DATA SHEET - Page 3

Lab File No: E8328

Laboratory Name: PEDCO ENVIRONMENTAL

Case No: 3150

G-103

QC Report No:

UCC51

D. Tentatively Identified Compounds

	CAS #	Compound Name	Fraction	Scan No. or Retention Time	Maximum Data Available Mass Matching Number: Exactly: Partial	Estimated Concentration (ug/l or ug/kg)
1.		None	VOA			
2.						
3.		Acid	BNA	935		230
4.		Unknown		1186		20
5.		Acid		1199		30
6.		Unknown		1310		800
7.		"		1377		70
8.		"		1631		20
9.		"		1750		110
10.		"		1793		15
11.		"		1925		10
12.						
13.						
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15.						
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30.						

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USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

RECEIVED SEP 21 1984

60909

SAMPLE NO.
E8327

G-102

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO. DR956
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED A9

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

VOLATILES

CONCENTRATION LOW
DATE PREPARED 8/17/84
DATE ANALYZED 8/17/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----5ML

PP#	CAS#		UG/L
(2V)	107-02-8	ACROLEIN	100U
(3V)	107-13-1	ACRYLONITRILE	100U
(4V)	71-43-2	BENZENE	5U
(6V)	56-23-5	CARBON TETRACHLORIDE	5U
(7V)	108-90-7	CLOROBENZENE	5U
(10V)	107-06-2	1,2-DICHLOROETHANE	5U
(11V)	71-55-6	1,1,1-TRICHLOROETHANE	5U
(13V)	75-34-3	1,1-DICHLOROETHANE	5U
(14V)	79-00-5	1,1,2-TRICHLOROETHANE	5U
(15V)	79-34-5	1,1,2,2-TETRACHLOROETHANE	10U
(16V)	75-00-3	CHLOROETHANE	10U
(19V)	110-75-8	2-CHLOROETHYLVINYLETHER	10U
(23V)	67-66-3	CHLOROFORM	5U
(29V)	75-35-4	1,1-DICHLOROETHENE	5U
(30V)	156-60-5	TRANS-1,2-DICHLOROETHENE	5U
(32V)	78-87-5	1,2-DICHLOROPROPANE	10U
(33V)	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5U
	10061-01-0	5CIS-1,3-DICHLOROPROPENE	5U
(38V)	100-41-4	ETHYLEENZENE	5U
(44V)	75-09-2	METHYLENE CHLORIDE	5UC
(45V)	74-87-3	CHLOROMETHANE	10U
(46V)	74-83-9	BROMOMETHANE	10U
(47V)	75-25-2	BROMOFORM	10U
(48V)	75-27-4	BROMODICHLOROMETHANE	5U
(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5U
(50V)	75-71-8	DICHLORODIFLUOROMETHANE	NA
(51V)	124-48-1	CHLORODIBROMOMETHANE	5U
(85V)	127-18-4	TETRACHLOROETHENE	5U
(86V)	108-88-3	TOLUENE	5U
(87V)	79-01-6	TRICHLOROETHENE	5U
(88V)	75-01-4	VINYL CHLORIDE	10U
	67-64-1	ACETONE	5U
	78-93-3	2-BUTANONE	5U
	75-15-0	CARBON DISULFIDE	1U
	519-78-6	2-HEXANONE	5U
	108-10-1	4-METHYL-2-PENTANONE	5U
	100-42-5	STYRENE	5U
	108-05-4	VINYL ACETATE	5U
	1330-20-7	TOTAL XYLENES	5U

PESTICIDES

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/5/84
PERCENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----10

PP#	CAS#		UG/L
(89P)	309-00-2	ALDRIN	.005U
(90P)	60-57-1	DIELDRIN	.005U
(91P)	57-74-9	CHLORDANE	.05U
(92P)	50-29-3	4,4'DDT	.01U
(93P)	72-55-9	4,4'DDE	.005U
(94P)	72-54-8	4,4'DDD	.1U
(95P)	115-29-7	ALPHA-ENDOSULFAN	.005U
(96P)	115-29-7	BETA-ENDOSULFAN	.005U
(97P)	1031-07-8	ENDOSULFAN SULFATE	.01U
(98P)	72-20-8	ENDRIN	.005U
(99P)	7421-93-4	ENDRIN ALDEHYDE	.01U
(100P)	76-44-8	HEPTACHLOR	.005U
(101P)	1024-57-3	HEPTACHLOR EPOXIDE	.005U
(102P)	319-84-6	ALPHA-BHC	.005U
(103P)	319-85-7	BETA-BHC	.005U
(104P)	319-86-8	DELTA-BHC	.005U
(105P)	58-89-9	GAMMA-BHC (LINDANE)	.005U
106P	53469-21-9	PCB-1242	.05U
107P	11097-69-1	PCB-1254	.1U
108P	11104-28-2	PCB-1221	.1U
109P	11141-16-5	PCB-1232	.05U
110P	12672-29-6	PCB-1248	.1U
111P	11096-82-5	PCB-1260	.1U
112P	12674-11-2	PCB-1016	.2U
113P	8001-35-2	TOXAPHENE	.05U

USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

SAMPLE NO.
E8327

GC10 G-102

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO DR956
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED A9

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

SEMIVOLATILE COMPOUNDS

RECEIVED SEP 21 1984

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/11/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----500

PP#	CAS#		UG/L
(21A)	88-06-2	2,4,6-TRICHLOROPHENOL	10U
(22A)	59-50-7	P-CHLORO-M-CRESOL	10U
(24A)	95-57-8	2-CHLOROPHENOL	10U
(31A)	120-83-2	2,4-DICHLOROPHENOL	10U
(34A)	105-67-9	2,4-DIMETHYLPHENOL	10U
(57A)	88-75-5	2-NITROPHENOL	20U
(58A)	100-02-7	4-NITROPHENOL	50U
(59A)	51-28-5	2,4-DINITROPHENOL	50U
(60A)	534-52-1	4,6-DINITRO-O-CRESOL	20U
(64A)	87-86-5	PENTACHLOROPHENOL	10U
(65A)	108-95-2	PHENOL	10U
	65-85-0	BENZOIC ACID	100U
	95-48-7	2-METHYLPHENOL	5U
	108-39-4	4-METHYLPHENOL	5U
	95-95-4	2,4,5-TRICHLOROPHENOL	100U
(1B)	83-32-9	ACENAPTHENE	10U
(5B)	92-87-5	BENZIDINE	40U
(8B)	120-82-1	1,2,4-TRICHLOROBENZENE	10U
(9B)	118-74-1	HEXACHLOROBENZENE	10U
(12B)	67-72-1	HEXACHLOROETHANE	10U
(18B)	111-44-4	BIS(2-CHLOROETHYL)ETHER	10U
(20B)	91-58-7	2-CHLORONAPTHALENE	10U
(25B)	95-50-1	1,2-DICHLOROBENZENE	10U
(26B)	541-73-1	1,3-DICHLOROBENZENE	10U
(27B)	106-46-7	1,4-DICHLOROBENZENE	10U
(28B)	91-94-1	3,3'-DICHLOROBENZIDINE	20U
(35B)	121-14-2	2,4-DINITROTOLUENE	20U
(36B)	606-20-2	2,6-DINITROTOLUENE	20U
(37B)	122-66-7	1,2-DIPHENYLHYDRAZINE	20U
(39B)	206-44-0	FLUORANTHENE	10U
(40B)	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
(41B)	101-55-3	4-BROMPHENYLPHENYLETHER	10U
(42B)	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	20U
(43B)	111-91-1	BIS(2-CHLOROETHOXY)METHANE	20U

PP#	CAS#		UG/L
(52B)	87-68-3	HEXACHLOROBUTADIENE	10U
(53B)	77-47-4	HEXACHLOROCYCLOPENTADIENE	10U
(54B)	78-59-1	ISOPHORONE	10U
(55B)	91-20-3	NAPTHALENE	10U
(56B)	98-95-3	NITROBENZENE	10U
(62B)	86-30-6	N-NITROSODIPHENYLAMINE	10U
(63B)	621-64-7	N-NITROSODIPROPYLAMINE	10U
(66B)	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	13.4
(67B)	85-68-7	BENZYLBUTYL PHTHALATE	10U
(68B)	84-74-2	DI-N-BUTYL PHTHALATE	5.6K
(69B)	117-84-0	DI-N-OCTYL PHTHALATE	10U
(70B)	84-66-2	DIETHYL PHTHALATE	10U
(71B)	131-11-3	DIMETHYL PHTHALATE	10U
(72B)	56-55-3	BENZO(A)ANTHRACENE	10U
(73B)	50-32-8	BENZO(A)PYRENE	20U
(74B)	205-99-2	BENZO(B)FLUORANTHENE AND/	20U
(75B)	207-08-9	BENZO(K)FLUORANTHENE OR	20U
(76B)	218-01-9	CHRYSENE	20U
(77B)	208-96-8	ACENAPTHYLENE	10U
(78B)	120-12-7	ANTHRACENE	10U
(79B)	191-24-2	BENZO(GHI)PERYLENE	20U
(80B)	86-73-7	FLUORENE	10U
(81B)	85-01-8	PHENANTHRENE	10U
(82B)	53-70-3	DIBENZO(AH)ANTHRACENE	20U
(83B)	193-39-5	INDENO(123-CD)PYRENE	20U
(84B)	129-00-0	PYRENE	10U
	62-53-3	ANILINE	5U
	100-51-6	BENZYL ALCOHOL	20U
	106-47-8	4-CHLOROANILINE	50U
	132-64-9	DIBENZOFURAN	10U
	91-57-6	2-METHYLNAPTHALENE	20U
	88-74-4	2-NITROANILINE	100U
	99-09-2	3-NITROANILINE	100U
	100-01-6	4-NITROANILINE	100U

CONCENTRATED DATA SHEET - Page 3

E327

Laboratory Name: PEDCO ENVIRONMENTAL Case No: 8140 G-102

QC Report No:

0011

D. Tentatively Identified Compounds

	CAS #	Compound Name	Fraction	Scan No. or Retention Time	Maximum Score Assigned Mass Matching Review: Checked:	Estimated Concentration (ug/L or ug/kg)
1.		NONE	VOA			
2.						
3.		UNKNOWN	BNA	777		40
4.		"		926		250
5.		"		936		250
6.		"		1186		30
7.		"		1263		10
8.		Acid		1321		50
9.		UNKNOWN		922		10
10.		"		1748		10
11.		Phthalate		1724		10
12.		UNKNOWN		1630		30
13.		UNKNOWN		1588		100
14.		PAH		1575		15
15.		UNKNOWN		1527		15
16.		"		1424		20
17.		"		1384		150
18.						
19.						
20.						
21.						
22.						
23.						
24.						
25.						
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29.						
30.						

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84MS09572

USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

RECEIVED SEP 21 1984

SAMPLE NO.
E8329

G-104

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO DR958
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

SEMIVOLATILE COMPOUNDS

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/11/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----500

E00080

PP#	CAS#		UG/L
(21A)	88-06-2	2,4,6-TRICHLOROPHENOL	10U
(22A)	59-50-7	P-CHLORO-M-CRESOL	10U
(24A)	95-57-8	2-CHLOROPHENOL	10U
(31A)	120-83-2	2,4-DICHLOROPHENOL	10U
(34A)	105-67-9	2,4-DIMETHYLPHENOL	10U
(57A)	88-75-5	2-NITROPHENOL	20U
(58A)	100-02-7	4-NITROPHENOL	50U
(59A)	51-28-5	2,4-DINITROPHENOL	50U
(60A)	534-52-1	4,6-DINITRO-O-CRESOL	20U
(64A)	87-86-5	PENTACHLOROPHENOL	10U
(65A)	108-95-2	PHENOL	10U
	65-85-0	BENZOIC ACID	100U
	95-48-7	2-METHYLPHENOL	5U
	108-39-4	4-METHYLPHENOL	5U
	95-95-4	2,4,5-TRICHLOROPHENOL	100U
(1B)	83-32-9	ACENAPTHENE	10U
(5B)	92-87-5	BENZIDINE	40U
(8B)	120-82-1	1,2,4-TRICHLOROBENZENE	10U
(9B)	118-74-1	HEXACHLOROBENZENE	10U
(12B)	67-72-1	HEXACHLOROETHANE	10U
(18B)	111-44-4	BIS(2-CHLOROETHYL)ETHER	10U
(20B)	91-58-7	2-CHLORONAPTHALENE	10U
(25B)	95-50-1	1,2-DICHLOROBENZENE	10U
(26B)	541-73-1	1,3-DICHLOROBENZENE	10U
(27B)	106-46-7	1,4-DICHLOROBENZENE	10U
(28B)	91-94-1	3,3'-DICHLOROBENZIDINE	20U
(35B)	121-14-2	2,4-DINITROTOLUENE	20U
(36B)	606-20-2	2,6-DINITROTOLUENE	20U
(37B)	122-66-7	1,2-DIPHENYLHYDRAZINE	20U
(39B)	206-44-0	FLUORANTHENE	10U
(40B)	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
(41B)	101-55-3	4-BROMPHENYLPHENYLETHER	10U
(42B)	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	20U
(43B)	111-91-1	BIS(2-CHLORETHOXY)METHANE	20U

PP#	CAS#		UG/L
(52B)	87-68-3	HEXACHLOROBUTADIENE	10U
(53B)	77-47-4	HEXACHLOROCYCLOPENTADIENE	10U
(54B)	78-59-1	ISOPHORONE	10U
(55B)	91-20-3	NAPTHALENE	10U
(56B)	98-95-3	NITROBENZENE	10U
(62B)	86-30-6	N-NITROSODIPHENYLAMINE	10U
(63B)	621-64-7	N-NITROSODIPROPYLAMINE	10U
(66B)	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10U
(67B)	85-68-7	BENZYLBUTYL PHTHALATE	10U
(68B)	84-74-2	DI-N-BUTYL PHTHALATE	10U
(69B)	117-84-0	DI-N-OCTYL PHTHALATE	10U
(70B)	84-66-2	DIETHYL PHTHALATE	10U
(71B)	131-11-3	DIMETHYL PHTHALATE	10U
(72B)	56-55-3	BENZO(A)ANTHRACENE	10U
(73B)	50-32-8	BENZO(A)PYRENE	20U
(74B)	205-99-2	BENZO(B)FLUORANTHENE AND/	20U
(75B)	207-08-9	BENZO(K)FLUORANTHENE OR	20U
(76B)	218-01-9	CHRYSENE	20U
(77B)	208-96-8	ACENAPTHYLENE	10U
(78B)	120-12-7	ANTHRACENE	10U
(79B)	191-24-2	BENZO(GHI)PERYLENE	20U
(80B)	86-73-7	FLUORENE	10U
(81B)	85-01-8	PHENANTHRENE	10U
(82B)	53-70-3	DIBENZO(AH)ANTHRACENE	20U
(83B)	193-39-5	INDENO(123-CD)PYRENE	20U
(84B)	129-00-0	PYRENE	10U
	62-53-3	ANILINE	5U
	100-51-6	BENZYL ALCOHOL	20U
	106-47-8	4-CHLOROANILINE	50U
	132-64-9	DIBENZOFURAN	10U
	91-57-6	2-METHYLNAPTHALENE	20U
	88-74-4	2-NITROANILINE	100U
	99-09-2	3-NITROANILINE	100U
	100-01-6	4-NITROANILINE	100U

I62

USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

RECEIVED SEP 2 1 1984

SAMPLE NO.
E8329

G-104

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO DR958
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED A9

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

VOLATILES

CONCENTRATION LOW
DATE PREPARED 8/17/84
DATE ANALYZED 8/17/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----5ML

PP#	CAS#		UG/L
(2V)	107-02-8	ACROLEIN	100U
(3V)	107-13-1	ACRYLONITRILE	100U
(4V)	71-43-2	BENZENE	5U
(6V)	56-23-5	CARBON TETRACHLORIDE	5U
(7V)	108-90-7	CLCROBENZENE	5U
(10V)	107-06-2	1,2-DICHLOROETHANE	5U
(11V)	71-55-6	1,1,1-TRICHLOROETHANE	5U
(13V)	75-34-3	1,1-DICHLOROETHANE	5U
(14V)	79-00-5	1,1,2-TRICHLOROETHANE	5U
(15V)	79-34-5	1,1,2,2-TETRACHLOROETHANE	10U
(16V)	75-00-3	CHLOROETHANE	10U
(19V)	110-75-8	2-CHLOROETHYLVINYLETHER	10U
(23V)	67-66-3	CHLOROFORM	5U
(29V)	75-35-4	1,1-DICHLOROETHENE	5U
(30V)	156-60-5	TRANS-1,2-DICHLOROETHENE	5U
(32V)	78-87-5	1,2-DICHLOROPROPANE	10U
(33V)	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5U
	10061-01-0	CIS-1,3-DICHLOROPROPENE	5U
(38V)	100-41-4	ETHYLEBENZENE	5U
(44V)	75-09-2	METHYLENE CHLORIDE	5UC
(45V)	74-87-3	CHLOROMETHANE	10U
(46V)	74-83-9	BROMOMETHANE	10U
(47V)	75-25-2	BROMOFORM	10U
(48V)	75-27-4	BROMODICHLOROMETHANE	5U
(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5U
(50V)	75-71-8	DICHLORODIFLUOROMETHANE	NA
(51V)	124-48-1	CHLORODIBROMOMETHANE	5U
(85V)	127-18-4	TETRACHLOROETHENE	5U
(86V)	108-88-3	TOLUENE	5U
(87V)	79-01-6	TRICHLOROETHENE	5U
(88V)	75-01-4	VINYL CHLORIDE	10U
	67-64-1	ACETONE	5UC
	78-93-3	2-BUTANONE	5U
	75-15-0	CARBON DISULFIDE	1U
	591-78-6	2-HEXANONE	5U
	108-10-1	4-METHYL-2-PENTANONE	5U
	100-42-5	STYRENE	5U
	108-05-4	VINYL ACETATE	5U
	1330-20-7	TOTAL XYLENES	5U

PESTICIDES

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/5/84
PERCENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----10

-0581

PP#	CAS#		UG/L
(89P)	309-00-2	ALDRIN	.005U
(90P)	60-57-1	DIELDRIN	.005U
(91P)	57-74-9	CHLORDANE	.05U
(92P)	50-29-3	4,4'DDT	.01U
(93P)	72-55-9	4,4'DDE	.005U
(94P)	72-54-8	4,4'DDD	.1U
(95P)	115-29-7	ALPHA-ENDOSULFAN	.005U
(96P)	115-29-7	BETA-ENDOSULFAN	.005U
(97P)	1031-07-8	ENDOSULFAN SULFATE	.01U
(98P)	72-20-8	ENDRIN	.005U
(99P)	7421-93-4	ENDRIN ALDEHYDE	.01U
(100P)	76-44-8	HEPTACHLOR	.005U
(101P)	1024-57-3	HEPTACHLOR EPOXIDE	.005U
(102P)	319-84-6	ALPHA-BHC	.005U
(103P)	319-85-7	BETA-BHC	.005U
(104P)	319-86-8	DELTA-BHC	.005U
(105P)	58-89-9	GAMMA-BHC (LINDANE)	.005U
106P	53469-21-9	PCB-1242	.05U
107P	11097-69-1	PCB-1254	.1U
108P	11104-28-2	PCB-1221	.1U
109P	11141-16-5	PCB-1232	.05U
110P	12672-29-6	PCB-1248	.1U
111P	11096-82-5	PCB-1260	.1U
112P	12674-11-2	PCB-1016	.2U
113P	8001-35-2	TOXAPHENE	.05U

ORGANICS ANALYSIS DATA SHEET - No. 3

E-8329

Laboratory Name: PEDCO ENVIRONMENTAL Case No: 3140 G-104

QC Report No:

00082

D. Tentatively Identified Compounds

CAS #	Compound Name	Fraction	Scan No. or Retention Time	Q Maximum Peak Assigned (Mass Matching Reverse: Exactly: Parity)	Estimated Concentration (ug/l or ug/kg)
1.	~~VOA KY~~				
2.	None	VOA			
3.					
4.	UNKNOWN	BNA	1899		3
5.	"		1630		6
6.	Alkyl Benzene		1597		15
7.	UNKNOWN		1830		50
8.	"		1867		200
9.	"		1929		5
10.	"		1310		200
11.	"		1186		10
12.	Acid		936		200
13.					
14.					
15.					
16.					
17.					
18.					
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22.					
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30.					

84MS01573

USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

RECEIVED SEP 21 1984

SAMPLE NO.
E8330

G-105

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO DR959
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED KA

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

SEMIVOLATILE COMPOUNDS

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/11/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----500

FP#	CAS#		UG/L
(21A)	88-06-2	2,4,6-TRICHLOROPHENOL	10U
(22A)	59-50-7	P-CHLORO-M-CRESOL	10U
(24A)	95-57-8	2-CHLOROPHENOL	10U
(31A)	120-83-2	2,4-DICHLOROPHENOL	10U
(34A)	105-67-9	2,4-DIMETHYLPHENOL	10U
(57A)	88-75-5	2-NITROPHENOL	20U
(58A)	100-02-7	4-NITROPHENOL	50U
(59A)	51-28-5	2,4-DINITROPHENOL	50U
(60A)	534-52-1	4,6-DINITRO-O-CRESOL	20U
(64A)	87-86-5	PENTACHLOROPHENOL	10U
(65A)	108-95-2	PHENOL	10U
	65-85-0	BENZOIC ACID	100U
	95-48-7	2-METHYLPHENOL	5U
	108-39-4	4-METHYLPHENOL	5U
	95-95-4	2,4,5-TRICHLOROPHENOL	100U
(1B)	83-32-9	ACENAPTHENE	10U
(5B)	92-87-5	BENZIDINE	40U
(8B)	120-82-1	1,2,4-TRICHLOROBENZENE	10U
(9B)	118-74-1	HEXACHLOROBENZENE	10U
(12B)	67-72-1	HEXACHLOROETHANE	10U
(18B)	111-44-4	BIS(2-CHLOROETHYL)ETHER	10U
(20B)	91-58-7	2-CHLORONAPTHALENE	10U
(25B)	95-50-1	1,2-DICHLOROBENZENE	10U
(26B)	541-73-1	1,3-DICHLOROBENZENE	10U
(27B)	106-46-7	1,4-DICHLOROBENZENE	10U
(28B)	91-94-1	3,3'-DICHLOROBENZIDINE	20U
(35B)	121-14-2	2,4-DINITROTOLUENE	20U
(36B)	606-20-2	2,6-DINITROTOLUENE	20U
(37B)	122-66-7	1,2-DIPHENYLHYDRAZINE	20U
(39B)	206-44-0	FLUORANTHENE	10U
(40B)	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
(41B)	101-55-3	4-BROMPHENYLPHENYLETHER	10U
(42B)	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	20U
(43B)	111-91-1	BIS(2-CHLORETHOXY)METHANE	20U

PP#	CAS#		UG/L
(52B)	87-68-3	HEXACHLOROBUTADIENE	10U
(53B)	77-47-4	HEXACHLOROCYCLOPENTADIENE	10U
(54B)	78-59-1	ISOPHORONE	10U
(55B)	91-20-3	NAPTHALENE	10U
(56B)	98-95-3	NITROBENZENE	10U
(62B)	86-30-6	N-NITROSODIPHENYLAMINE	10U
(63B)	621-64-7	N-NITROSODIPROPYLAMINE	10U
(66B)	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10U
(67B)	85-68-7	BENZYLBUTYL PHTHALATE	10U
(68B)	84-74-2	DI-N-BUTYL PHTHALATE	10U
(69B)	117-84-0	DI-N-OCTYL PHTHALATE	10U
(70B)	84-66-2	DIETHYL PHTHALATE	10U
(71B)	131-11-3	DIMETHYL PHTHALATE	10U
(72B)	56-55-3	BENZO(A)ANTHRACENE	10U
(73B)	50-32-8	BENZO(A)PYRENE	20U
(74B)	205-99-2	BENZO(B)FLUORANTHENE AND/	20U
(75B)	207-08-9	BENZO(K)FLUORANTHENE OR	20U
(76B)	218-01-9	CHRYSENE	20U
(77B)	208-96-8	ACENAPTHYLENE	10U
(78B)	120-12-7	ANTHRACENE	10U
(79B)	191-24-2	BENZO(GHI)PERYLENE	20U
(80B)	86-73-7	FLUORENE	10U
(81B)	85-01-8	PHENANTHRENE	10U
(82B)	53-70-3	DIBENZO(AH)ANTHRACENE	20U
(83B)	193-39-5	INDENO(123-CD)PYRENE	20U
(84B)	129-00-0	PYRENE	10U
	62-53-3	ANILINE	5U
	100-51-6	BENZYL ALCOHOL	20U
	106-47-8	4-CHLOROANILINE	50U
	132-64-9	DIBENZOFURAN	10U
	91-57-6	2-METHYLNAPTHALENE	20U
	88-74-4	2-NITROANILINE	100U
	99-09-2	3-NITROANILINE	100U
	100-01-6	4-NITROANILINE	100U

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USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

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SAMPLE NO.
E8330

G-105

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO DR959
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED A9

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

VOLATILES

CONCENTRATION LOW
DATE PREPARED 8/17/84
DATE ANALYZED 8/17/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----5ML

PESTICIDES

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/5/84
PERCENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----10

PP#	CAS#		UG/L
(2V)	107-02-3	ACROLEIN	100U
(3V)	107-13-1	ACRYLONITRILE	100U
(4V)	71-43-2	BENZENE	10.9
(6V)	56-23-5	CARBON TETRACHLORIDE	5U
(7V)	108-90-7	CLOROBENZENE	8.5
(10V)	107-06-2	1,2-DICHLOROETHANE	5U
(11V)	71-55-6	1,1,1-TRICHLOROETHANE	5U
(13V)	75-34-3	1,1-DICHLOROETHANE	5U
(14V)	79-00-5	1,1,2-TRICHLOROETHANE	5U
(15V)	79-34-5	1,1,2,2-TETRACHLOROETHANE	10U
(16V)	75-00-3	CHLOROETHANE	10U
(19V)	110-75-8	2-CHLOROETHYLVINYLETHER	10U
(23V)	67-66-3	CHLOROFORM	5U
(29V)	75-35-4	1,1-DICHLOROETHENE	5U
(30V)	156-60-5	TRANS-1,2-DICHLOROETHENE	5U
(32V)	78-87-5	1,2-DICHLOROPROPANE	10U
(33V)	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5U
	10061-01-5	CIS-1,3-DICHLOROPROPENE	5U
(38V)	100-41-4	ETHYLBENZENE	5U
(44V)	75-09-2	METHYLENE CHLORIDE	2.3CK
(45V)	74-87-3	CHLOROMETHANE	10U
(46V)	74-83-9	BROMOMETHANE	10U
(47V)	75-25-2	BROMOFORM	10U
(48V)	75-27-4	BROMODICHLOROMETHANE	5U
(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5U
(50V)	75-71-8	DICHLORODIFLUOROMETHANE	NA
(51V)	124-48-1	CHLORODIBROMOMETHANE	5U
(85V)	127-18-4	TETRACHLOROETHENE	5U
(86V)	108-88-3	TOLUENE	5U
(87V)	79-01-6	TRICHLOROETHENE	5U
(88V)	75-01-4	VINYL CHLORIDE	10U
	67-64-1	ACETONE	15.9C
	78-93-3	2-BUTANONE	5U
	75-15-0	CARBON DISULFIDE	1U
	519-78-6	2-HEXANONE	5U
	108-10-1	4-METHYL-2-PENTANONE	5U
	100-42-5	STYRENE	5U
	108-05-4	VINYL ACETATE	5U
	1330-20-7	TOTAL XYLENES	5U

PP#	CAS#		UG/L
(89P)	309-00-2	ALDRIN	.005U
(90P)	60-57-1	DIELDRIN	.005U
(91P)	57-74-9	CHLORDANE	.05U
(92P)	50-29-3	4,4'DDT	.01U
(93P)	72-55-9	4,4'DDE	.005U
(94P)	72-54-8	4,4'DDD	.1U
(95P)	115-29-7	ALPHA-ENDOSULFAN	.005U
(96P)	115-29-7	BETA-ENDOSULFAN	.005U
(97P)	1031-07-8	ENDOSULFAN SULFATE	.01U
(98P)	72-20-8	ENDRIN	.005U
(99P)	7421-93-4	ENDRIN ALDEHYDE	.01U
(100P)	76-44-8	HEPTACHLOR	.005U
(101P)	1024-57-3	HEPTACHLOR EPOXIDE	.005U
(102P)	319-84-6	ALPHA-BHC	.005U
(103P)	319-85-7	BETA-BHC	.005U
(104P)	319-86-8	DELTA-BHC	.005U
(105P)	58-89-9	GAMMA-BHC (LINDANE)	.005U
106P	53469-21-9	PCB-1242	.05U
107P	11097-69-1	PCB-1254	.1U
108P	11104-28-2	PCB-1221	.1U
109P	11141-16-5	PCB-1232	.05U
110P	12672-29-6	PCB-1248	.1U
111P	11096-82-5	PCB-1260	.1U
112P	12674-11-2	PCB-1016	.2U
113P	8001-35-2	TOXAPHENE	.05U

RECEIVED SEP 0 1984

E8330

Laboratory Name: PEDCO ENVIRONMENTAL Case No: 3140 G-105

QC Report No:

U-110

D. Tentatively Identified Compounds

	(CAS) #	Compound Name	Fraction	Est. RT or Retention Time	% Minimum Score Attained Mass Matching Reverse: (Specify: Purity)	Estimated Concentration (ug/l or ug/g)
1.			VOA			
2.						
3.		UNKNOWN	BNA	1865		5
4.		"		1846		30
5.		"		1575		3
6.		PHTHALATE		1521		10
7.		UNKNOWN		1424		5
8.		"		1377		25
9.		ALKENE		1303		10
10.		ACID		1196		10
11.		UNKNOWN		928		60
12.						
13.						
14.						
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6/82

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USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

RECEIVED SEP 21 1984

SAMPLE NO.
E8331

G-104

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO DR960
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED K9

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

VOLATILES

CONCENTRATION LOW
DATE PREPARED 8/17/84
DATE ANALYZED 8/17/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----5ML

PP#	CAS#		UG/L
(2V)	107-02-3	ACROLEIN	100U
(3V)	107-13-1	ACRYLONITRILE	100U
(4V)	71-43-2	BENZENE	5U
(6V)	56-23-2	CARBON TETRACHLORIDE	5U
(7V)	108-90-7	CLOROBENZENE	5U
(10V)	107-06-2	1,2-DICHLOROETHANE	5U
(11V)	71-55-6	1,1,1-TRICHLOROETHANE	5U
(13V)	75-34-3	1,1-DICHLOROETHANE	5U
(14V)	79-00-5	1,1,2-TRICHLOROETHANE	5U
(15V)	79-34-5	1,1,2,2-TETRACHLOROETHANE	10U
(16V)	75-00-3	CHLOROETHANE	10U
(19V)	110-75-8	2-CHLOROETHYLVINYLETHER	10U
(23V)	67-66-3	CHLOROFORM	5U
(29V)	75-35-4	1,1-DICHLOROETHENE	5U
(30V)	156-60-5	TRANS-1,2-DICHLOROETHENE	5U
(32V)	78-87-5	1,2-DICHLOROPROPANE	10U
(33V)	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5U
	10061-01-5	CIS-1,3-DICHLOROPROPENE	5U
(38V)	100-41-4	ETHYLBENZENE	5U
(44V)	75-09-2	METHYLENE CHLORIDE	5UC
(45V)	74-87-3	CHLOROMETHANE	10U
(46V)	74-83-9	BROMOMETHANE	10U
(47V)	75-25-2	BROMOFORM	10U
(48V)	75-27-4	BROMODICHLOROMETHANE	5U
(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5U
(50V)	75-71-8	DICHLORODIFLUOROMETHANE	NA
(51V)	124-48-1	CHLORODIBROMOMETHANE	5U
(85V)	127-18-4	TETRACHLOROETHENE	5U
(86V)	108-88-3	TOLUENE	5U
(87V)	79-01-6	TRICHLOROETHENE	5U
(88V)	75-01-4	VINYL CHLORIDE	10U
	67-64-1	ACETONE	16.1C
	78-93-3	2-BUTANONE	5U
	75-15-0	CARBON DISULFIDE	1U
	591-78-6	2-HEXANONE	5U
	108-10-1	4-METHYL-2-PENTANONE	5U
	100-42-5	STYRENE	5U
	108-05-4	VINYL ACETATE	5U
	1330-20-7	TOTAL XYLENES	5U

PESTICIDES

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/5/84
PERCENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----10

PP#	CAS#		UG/L
(89P)	309-00-2	ALDRIN	.005U
(90P)	60-57-1	DIELDRIN	.005U
(91P)	57-74-9	CHLORDANE	.05U
(92P)	50-29-3	4,4'DDT	.01U
(93P)	72-55-9	4,4'DDE	.005U
(94P)	72-54-8	4,4'DDD	.1U
(95P)	115-29-7	ALPHA-ENDOSULFAN	.005U
(96P)	115-29-7	BETA-ENDOSULFAN	.005U
(97P)	1031-07-8	ENDOSULFAN SULFATE	.01U
(98P)	72-20-8	ENDRIN	.005U
(99P)	7421-93-4	ENDRIN ALDEHYDE	.01U
(100P)	76-44-8	HEPTACHLOR	.005U
(101P)	1024-57-3	HEPTACHLOR EPOXIDE	.005U
(102P)	319-84-6	ALPHA-BHC	.005U
(103P)	319-85-7	BETA-BHC	.005U
(104P)	319-86-8	DELTA-BHC	.005U
(105P)	58-89-9	GAMMA-BHC (LINDANE)	.005U
106P	53469-21-9	PCB-1242	.05U
107P	11097-69-1	PCB-1254	.1U
108P	11104-28-2	PCB-1221	.1U
109P	11141-16-5	PCB-1232	.05U
110P	12672-29-6	PCB-1248	.1U
111P	11096-82-5	PCB-1260	.1U
112P	12674-11-2	PCB-1016	.2U
113P	8001-35-2	TOXAPHENE	.05U