

**PELA**

**TECHNICAL MEMORANDUM NO. 3  
FOR REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
CITY DISPOSAL CORPORATION LANDFILL  
(DUNN LANDFILL)**

(PELA Reference No. 495201)

**Appendix B.**

**Results of Analyses of Soil Samples and  
Ground-Water Samples - Technical Report C**

**Volume II of II**

CA1889-CA1892, CA1907-CA1908

CA1910, CA2144-CA2148

CA2152-CA2153, CA2266, CA2282

February, 1990

Technical Report  
for  
CITY DISPOSAL CORPORATION LANDFILL

VOLUME II OF II

<i>Chain of Custody Data Required for ETC Data Management Summary Reports</i>						
<i>ETC Sample No.</i>	<i>Company</i>	<i>Facility</i>	<i>Sample Point</i>	<i>Date</i>	<i>Time</i>	<i>Elapsed Hours</i>
CA1889-CA1892, CA1907-CA1908, CA1910, CA2144-CA2148 CA2152-CA2153, CA2266, CA2282	WASTE MANAGEMENT, INC					405

Swep T. Davis

*President*



ETC

PESTICIDE/PCB DATA

140  
12. K-75  
656.1



ETC

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173 12-18-51

656.2





ETC

QC SUMMARY

2E  
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

	EPA SAMPLE NO.	S1 (DBC)#	OTHER	TOT OUT
01	QC70030G	95		0
02	CA1907G	61		0
03	CA1907GS	87		0
04	CA1907GR	77		0
05	CA2139G	70		0
06	CA2140G	63		0
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ADVISORY  
QC LIMITS  
(24-154)

S1 (DBC) = Dibutylchloroendate

\* Column to be used to flag recovery values

\* Values outside QC limits

D Surrogates diluted out

2E  
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

	EPA SAMPLE NO.	S1 (DBC)#	OTHER	TOT OUT
01	QC70049G	210 *		1
02	CA2271GS	0 *		1
03	CA2271GR	145		0
04	CA2147G	0 *		1
05	CA2148G	0 *		1
06				
07				
08				
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ADVISORY  
QC LIMITS  
(24-154)

S1 (DBC) = Dibutylchloroendate

# Column to be used to flag recovery values

\* Values outside QC limits

D Surrogates diluted out

2E  
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

	EPA SAMPLE NO.	S1 (DBC)#	OTHER	TOT OUT
01	QC70050G	253 *		1
02	CA1889G	258 *		1
03	CA1890G	295 *		1
04	CA1892G	253 *		1
05	CA1908G	81		0
06	CA2141G	90		0
07	CA2142G	284 *		1
08	CA2143G	104		0
09	CA2149G	413 *		1
10	CA2151G	100		0
11	CA1891G	112		0
12	CA2144G	93		0
13	CA2145G	149		0
14	CA2146G	87		0
15	CA2152G	354 *		1
16				
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30				

ADVISORY  
QC LIMITS  
(24-154)

S1 (DBC) = Dibutylchloroendate

- # Column to be used to flag recovery values
- \* Values outside QC limits
- D Surrogates diluted out

3E  
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: CA1907GS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC(Lindane)	.213	0.000	.187	88	156-123
Heptachlor	.213	0.000	.173	81	140-131
Aldrin	.213	0.000	.192	90	140-120
Dieldrin	.532	0.000	.487	92	152-126
Endrin	.532	0.000	.369	69	156-121
4,4'-DDT	.532	0.000	.520	98	138-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD   REC.
gamma-BHC(Lindane)	.213	.183	86	2	15   156-123
Heptachlor	.213	.169	79	2	20   140-131
Aldrin	.213	.191	90	1	22   140-120
Dieldrin	.532	.447	84	9	18   152-126
Endrin	.532	.376	71	2	21   156-121
4,4'-DDT	.532	.489	92	6	27   138-127

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

\* Values outside of limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

Comments:

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3E  
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: CA2271GS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC(Lindane)	.200	0.000	.342	171 *	56-123
Heptachlor	.200	0.000	.278	139 *	40-131
Aldrin	.200	0.000	.305	152 *	40-120
Dieldrin	.500	0.000	.970	194 *	52-126
Endrin	.500	0.000	.896	179 *	56-121
4,4'-DDT	.500	0.000	1.098	220 *	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	MSD % RPD #	QC LIMITS RPD REC.
gamma-BHC(Lindane)	.200	.266	133 *	25 *	15 56-123
Heptachlor	.200	.240	120	15	20 40-131
Aldrin	.200	.251	125 *	20	22 40-120
Dieldrin	.500	.758	152 *	25 *	18 52-126
Endrin	.500	.730	146 *	20	21 56-121
4,4'-DDT	.500	.837	167 *	27	27 38-127

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

\* Values outside of limits

RPD: 2 out of 6 outside limits

Spike Recovery: 11 out of 12 outside limits

Comments:

4C  
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ETCNJ Contract:  
 Lab Code: Case No.: SAS No.: SDG No.:  
 Lab Sample ID: QC70050G Lab File ID: >HA546  
 Matrix: (soil/water) WATER Level: (low/med) LOW  
 Date Extracted: 10/12/89 Extraction: (SepF/Cont/Sonc) SEPF  
 Date Analyzed (1): 11/15/89 Date Analyzed (2): 11/28/89  
 Time Analyzed (1): 1135 Time Analyzed (2): 0942  
 Instrument ID (1): HA Instrument ID (2): KB  
 GC Column ID (1): 2250/2401 GC Column ID (2): 3%SP2100

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01		CA1889G	11/15/89	
02		CA1890G	11/15/89	
03		CA1892G	11/15/89	
04		CA1908G	11/15/89	11/28/89
05		CA2141G	11/15/89	
06		CA2142G	11/15/89	
07		CA2143G	11/15/89	
08		CA2149G	11/15/89	
09		CA2151G	11/15/89	
10		CA1891G	11/15/89	
11		CA2144G	11/15/89	
12		CA2145G	11/15/89	
13		CA2146G	11/15/89	
14		CA2152G	11/15/89	
15				
16				
17				
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19				
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24				
25				
26				

Comments: \_\_\_\_\_

4C  
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ETCNJ	Contract:		
Lab Code:	Case No.:	SAS No.:	SDG No.:
Lab Sample ID: QC70030G	Lab File ID: >JA495		
Matrix: (soil/water) WATER	Level:(low/med) LOW		
Date Extracted: 09/27/89	Extraction:(SepF/Cont/Sonc) SEPF		
Date Analyzed (1): 11/08/89	Date Analyzed (2): <del>07/21/89</del> <sup>11/21/89</sup>		
Time Analyzed (1): 0947	Time Analyzed (2): 0252		
Instrument ID (1): JA	Instrument ID (2): KB		
GC Column ID (1): 2250/2401	GC Column ID (2): 3%SP2100		

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

#	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01		CA1907G	11/08/89	11/21/89
02		CA1907GS	11/08/89	
03		CA1907GR	11/08/89	
04		CA2139G	11/08/89	
05		CA2140G	11/08/89	11/21/89
06				
07				
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26				

Comments: \_\_\_\_\_



4C  
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ETCNJ	Contract:		
Lab Code:	Case No.:	SAS No.:	SDG No.:
Lab Sample ID: QC70049G	Lab File ID: <del>KB000</del> 11/16/89		
Matrix: (soil/water) WATER	Level: (low/med) LOW		
Date Extracted: 10/13/89	Extraction: (SepF/Cont/Sonc) SEPF		
Date Analyzed (1): 11/16/89	Date Analyzed (2):		
Time Analyzed (1): 1955	Time Analyzed (2):		
Instrument ID (1): KB	Instrument ID (2):		
GC Column ID (1): 3%SP-2100	GC Column ID (2):		

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

#	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01		CA2271GS	11/16/89	
02		CA2271GR	11/16/89	
03		CA2147G	11/16/89	
04		CA2148G	11/16/89	
05		CA2271G	11/16/89	
06				
07				
08				
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Comments: \_\_\_\_\_



ETC

SAMPLE DATA

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA1889G

Sample wt/vol: 920.0 (g/mL) ML

Lab File ID: >HA547

Level: (low/med) LOW

Date Received: 10/07/89

% Moisture: not dec. dec.

Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) SEPF

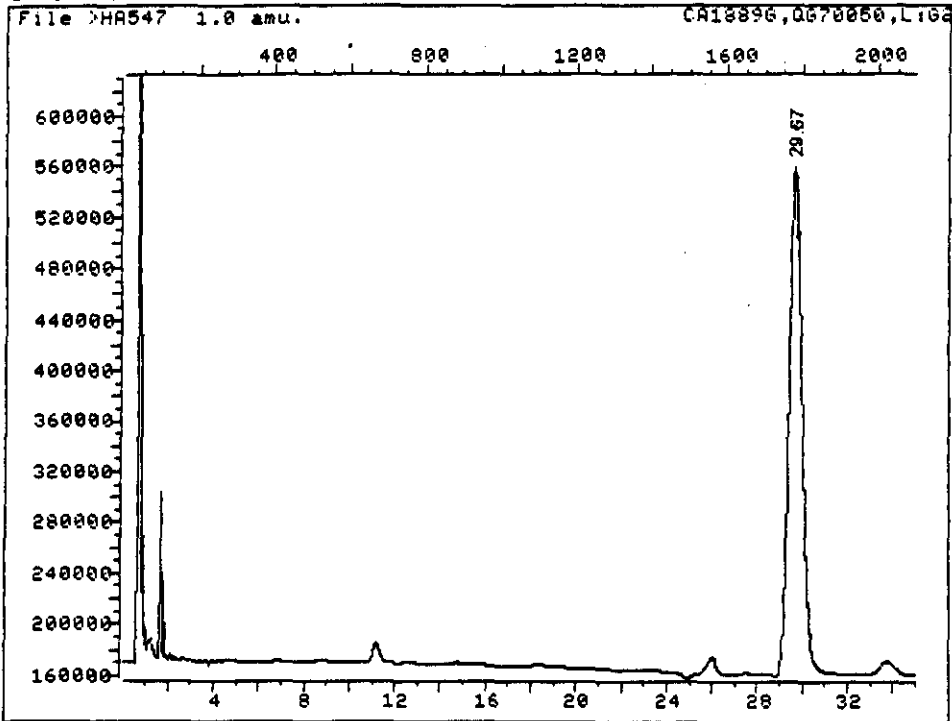
Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.054	IU
319-65-7	beta-BHC	.054	IU
319-86-8	delta-BHC	.054	IU
58-89-9	gamma-BHC(Lindane)	.054	IU
76-44-8	Heptachlor	.054	IU
309-00-2	Aldrin	.054	IU
1024-57-3	Heptachlor epoxide	.054	IU
959-98-8	Endosulfan I	.054	IU
60-57-1	Dieldrin	.110	IU
72-55-9	4,4'-DDE	.110	IU
72-20-8	Endrin	.110	IU
33213-65-9	Endosulfan II	.110	IU
72-54-8	4,4'-DDD	.110	IU
1031-07-8	Endosulfan sulfate	.110	IU
50-29-3	4,4'-DDT	.110	IU
72-43-5	Methoxychlor	.540	IU
53494-70-5	Endrin ketone	.110	IU
5103-71-9	alpha-Chlordane	.054	IU
5103-74-2	gamma-Chlordane	.054	IU
8001-35-2	Toxaphene	12.200	IU
12674-11-2	Aroclor-1016	.540	IU
11104-28-2	Aroclor-1221	.540	IU
11141-16-5	Aroclor-1232	.540	IU
53469-21-9	Aroclor-1242	.540	IU
12672-29-6	Aroclor-1248	.540	IU
11097-69-1	Aroclor-1254	1.100	IU
11096-82-5	Aroclor-1260	1.100	IU

CHROMATOGRAM



Data File: >HA547::U4                    Quant Output File: ^HA547::AQ  
Name:                                        Instrument ID: HA  
Misc: CA1889G,QG70050,L:G2,920,10

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891115 15:12  
Injected at: 891115 12:20

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA547::AQ  
 Data File: >HA547::U4  
 Name:  
 Misc: CA1889G, QG70050, L:G2,920,10

Quant Rev: 7      Quant Time: 891115 15:12  
 Injected at: 891115 12:20  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.67	1778	398851	.258	UG/ML	100
# Compound uses ESTD <i>11/27/89</i>						

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA1890G

Sample wt/vol: 930.0 (g/mL) ML

Lab File ID: >HA548

Level: (low/med) LOW

Date Received: 10/07/89

% Moisture: not dec. dec.

Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) SEPF

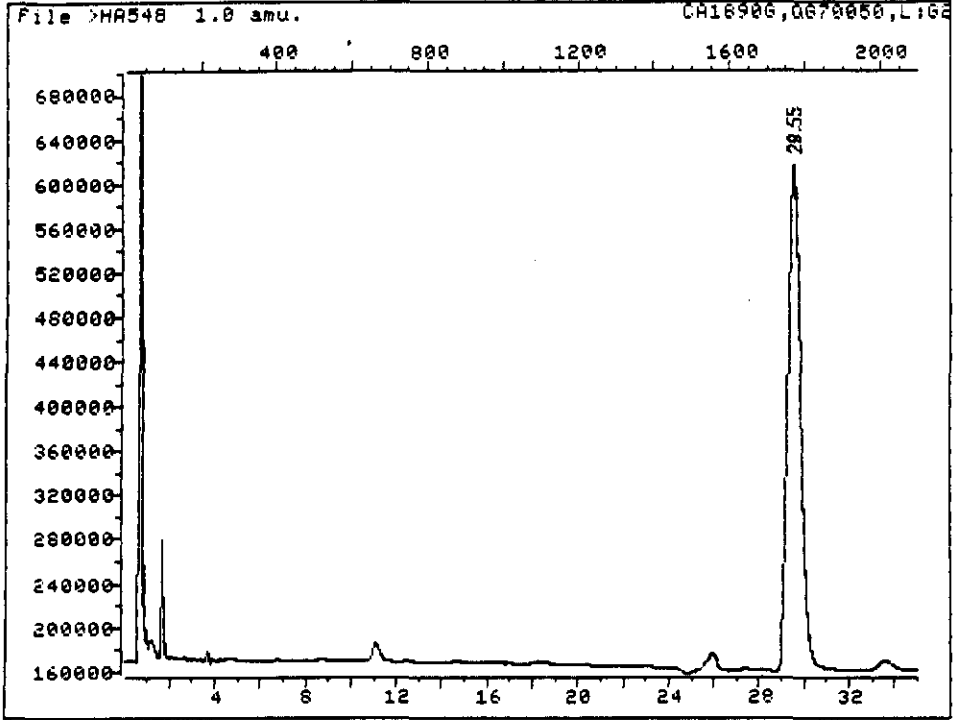
Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.054	IU
319-65-7	beta-BHC	.054	IU
319-86-8	delta-BHC	.054	IU
58-89-9	gamma-BHC(Lindane)	.054	IU
76-44-8	Heptachlor	.054	IU
309-00-2	Aldrin	.054	IU
1024-57-3	Heptachlor epoxide	.054	IU
959-98-8	Endosulfan I	.054	IU
60-57-1	Dieldrin	.110	IU
72-55-9	4,4'-DDE	.110	IU
72-20-8	Endrin	.110	IU
33213-65-9	Endosulfan II	.110	IU
72-54-8	4,4'-DDD	.110	IU
1031-07-8	Endosulfan sulfate	.110	IU
50-29-3	4,4'-DDT	.110	IU
72-43-5	Methoxychlor	.540	IU
53494-70-5	Endrin ketone	.110	IU
5103-71-9	alpha-Chlordane	.054	IU
5103-74-2	gamma-Chlordane	.054	IU
8001-35-2	Toxaphene	2.200	IU
12674-11-2	Aroclor-1016	.540	IU
11104-28-2	Aroclor-1221	.540	IU
11141-16-5	Aroclor-1232	.540	IU
53469-21-9	Aroclor-1242	.540	IU
12672-29-6	Aroclor-1248	.540	IU
11097-69-1	Aroclor-1254	1.100	IU
11096-82-5	Aroclor-1260	1.100	IU

CHROMATOGRAM



Data File: >HA548::U4

Quant Output File: ^HA548::A0

Name:

Instrument ID: HA

Misc: CA1890G,QG70050,L:G2,930,10

Id File: I050IP::US

Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ

Last Calibration: 891115 15:07

Operator ID: KT8582

Quant Time: 891115 15:14

Injected at: 891115 13:05

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA548::AQ  
 Data File: >HA548::U4  
 Name:  
 Misc: CA1890G,QG70050,L:G2,930,10

Quant Rev: 7      Quant Time: 891115 15:14  
 Injected at: 891115 13:05  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: 1050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.55	1771	457155	.295	UG/ML	100

*11/27/87*

# Compound uses ESTD



10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA1891G

Sample wt/vol: 830.0 (g/mL) ML

Lab File ID: >HA558

Level: (low/med) LOW

Date Received: 10/11/89

% Moisture: not dec. dec.

Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) SEPF

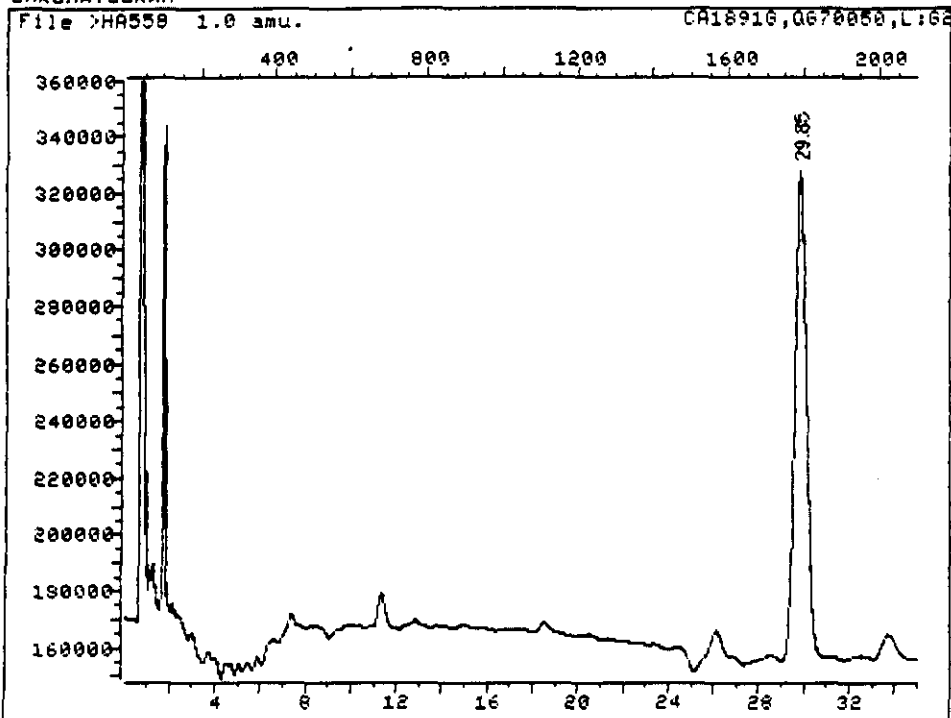
Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	1.060	IU
319-65-7	beta-BHC	1.060	IU
319-86-8	delta-BHC	1.060	IU
58-89-9	gamma-BHC(Lindane)	1.060	IU
76-44-8	Heptachlor	1.060	IU
309-00-2	Aldrin	1.060	IU
1024-57-3	Heptachlor epoxide	1.060	IU
959-98-8	Endosulfan I	1.060	IU
60-57-1	Dieldrin	1.120	IU
72-55-9	4,4'-DDE	1.120	IU
72-20-8	Endrin	1.120	IU
33213-65-9	Endosulfan II	1.120	IU
72-54-8	4,4'-DDD	1.120	IU
1031-07-8	Endosulfan sulfate	1.120	IU
50-29-3	4,4'-DDT	1.120	IU
72-43-5	Methoxychlor	1.600	IU
53494-70-5	Endrin ketone	1.120	IU
5103-71-9	alpha-Chlordane	1.060	IU
5103-74-2	gamma-Chlordane	1.060	IU
8001-35-2	Toxaphene	12.400	IU
12674-11-2	Aroclor-1016	1.600	IU
11104-28-2	Aroclor-1221	1.600	IU
11141-16-5	Aroclor-1232	1.600	IU
53469-21-9	Aroclor-1242	1.600	IU
12672-29-6	Aroclor-1248	1.600	IU
11097-69-1	Aroclor-1254	11.200	IU
11096-82-5	Aroclor-1260	11.200	IU

CHROMATOGRAM



Data File: >HA558::U4 Quant Output File: ^HA558::AQ  
Name: Instrument ID: HA  
Misc: CA1891G,Q670050,L:G2,830,10

Id File: 1050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891115 21:24  
Injected at: 891115 20:41

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA558::AQ  
 Data File: >HA558::U4  
 Name:  
 Misc: CA1891G,Q670050,L:G2,830,10

Quant Rev: 7      Quant Time: 891115 21:24  
 Injected at: 891115 20:41  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: 1050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.85	1789	172609	.112	UG/ML	100

*11/27/89*

# Compound uses ESTD

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA1892G

Sample wt/vol: 940.0 (g/mL) ML

Lab File ID: >HA549

Level: (low/med) LOW

Date Received: 10/07/89

% Moisture: not dec. dec.

Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) SEPF

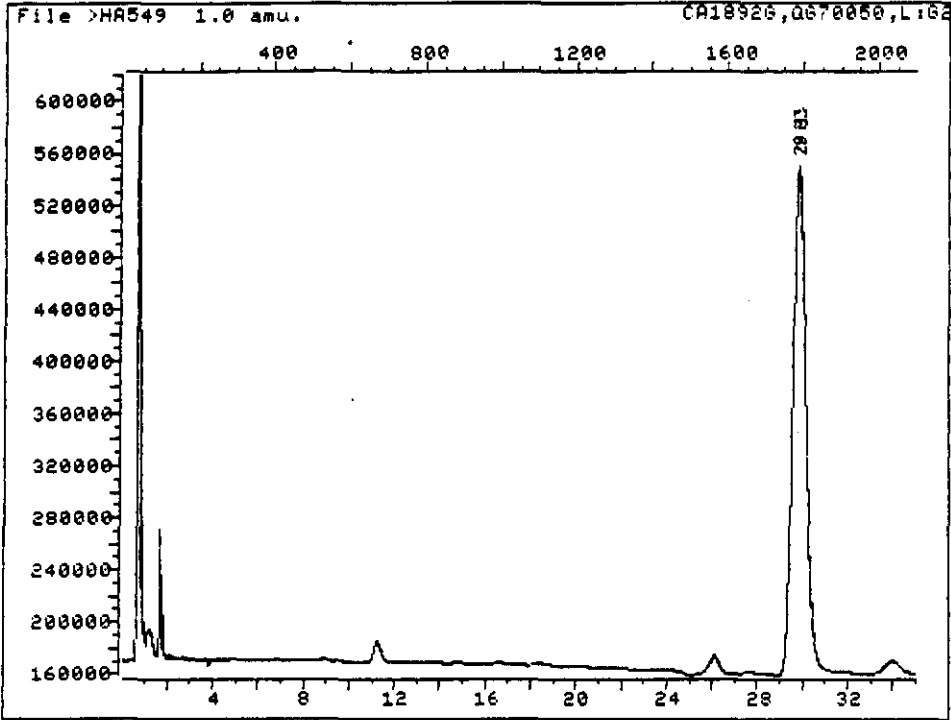
Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.053	IU
319-65-7	beta-BHC	.053	IU
319-86-8	delta-BHC	.053	IU
58-89-9	gamma-BHC(Lindane)	.053	IU
76-44-8	Heptachlor	.053	IU
309-00-2	Aldrin	.053	IU
1024-57-3	Heptachlor epoxide	.053	IU
959-98-8	Endosulfan I	.053	IU
60-57-1	Dieldrin	.110	IU
72-55-9	4,4'-DDE	.110	IU
72-20-8	Endrin	.110	IU
33213-65-9	Endosulfan II	.110	IU
72-54-8	4,4'-DDO	.110	IU
1031-07-8	Endosulfan sulfate	.110	IU
50-29-3	4,4'-DDT	.110	IU
72-43-5	Methoxychlor	.530	IU
53494-70-5	Endrin ketone	.110	IU
5103-71-9	alpha-Chlordane	.053	IU
5103-74-2	gamma-Chlordane	.053	IU
8001-35-2	Toxaphene	12.100	IU
12674-11-2	Aroclor-1016	.530	IU
11104-28-2	Aroclor-1221	.530	IU
11141-16-5	Aroclor-1232	.530	IU
53469-21-9	Aroclor-1242	.530	IU
12672-29-6	Aroclor-1248	.530	IU
11097-69-1	Aroclor-1254	1.100	IU
11096-82-5	Aroclor-1260	1.100	IU

CHROMATOGRAM



Data File: >HA549::U4

Quant Output File: ^HA549::AQ

Name:

Instrument ID: HA

Misc: CA18926,Q670050,L:G2,940,10

Id File: I050IP::US

Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ

Last Calibration: 891115 15:07

Operator ID: KT8582

Quant Time: 891115 15:16

Injected at: 891115 13:51

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA549::AQ  
 Data File: >HA549::U4  
 Name:  
 Misc: CA1892G, QG70050, L:G2,940,10

Quant Rev: 7      Quant Time: 891115 15:16  
 Injected at: 891115 13:51  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: 1050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.83	1788	391363	.253	UG/ML	100

11/27/87

# Compound uses ESTD

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA1907G

Sample wt/vol: 940.0 (g/mL) ML

Lab File ID: >JA498

Level: (low/med) LDW

Date Received: 10/07/89

% Moisture: not dec. dec.

Date Extracted: ~~07/27/89~~ <sup>10/11/89</sup> <sub>11/01/89</sub>

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 11/08/89

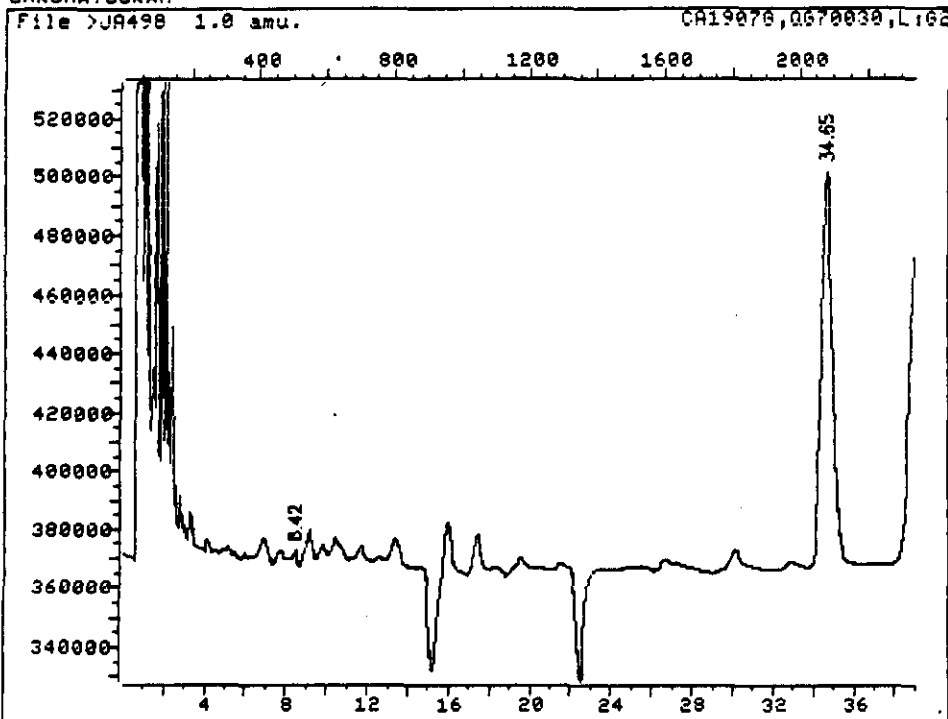
GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.053	IU
319-65-7	beta-BHC	.053	IU
319-86-8	delta-BHC	.053	IU
58-89-9	gamma-BHC(Lindane)	.053	IU
76-44-8	Heptachlor	.053	IU
309-00-2	Aldrin	.053	IU
1024-57-3	Heptachlor epoxide	.053	IU
959-98-8	Endosulfan I	.053	IU
60-57-1	Dieldrin	.110	IU
72-55-9	4,4'-DDE	.110	IU
72-20-8	Endrin	.110	IU
33213-65-9	Endosulfan II	.110	IU
72-54-8	4,4'-DDD	.110	IU
1031-07-8	Endosulfan sulfate	.110	IU
50-29-3	4,4'-DDT	.110	IU
72-43-5	Methoxychlor	.530	IU
53494-70-5	Endrin ketone	.110	IU
5103-71-9	alpha-Chlordane	.053	IU
5103-74-2	gamma-Chlordane	.053	IU
8001-35-2	Toxaphene	2.100	IU
12674-11-2	Aroclor-1016	.530	IU
11104-28-2	Aroclor-1221	.530	IU
11141-16-5	Aroclor-1232	.530	IU
53469-21-9	Aroclor-1242	.530	IU
12672-29-6	Aroclor-1248	.530	IU
11097-69-1	Aroclor-1254	1.100	IU
11096-82-5	Aroclor-1260	1.100	IU

CHROMATOGRAM



Data File: >JA498

Quant Output File: ^JA498::U6

Name:

Instrument ID: JA

Misc: CA19076, QG70030, L:G2, 940, 10

Id File: I048IP::US

Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ

Last Calibration: 891108 16:21

Operator ID: YY6148

Quant Time: 891108 16:40

Injected at: 891108 12:02



QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA498::U6  
 Data File: >JA498::U4  
 Name:  
 Misc: CA1907G,QG70030,L:G2,940,10

Quant Rev: 7      Quant Time: 891108 16:40  
 Injected at: 891108 12:02  
 Dilution Factor: 1.00000  
 Instrument ID: JA

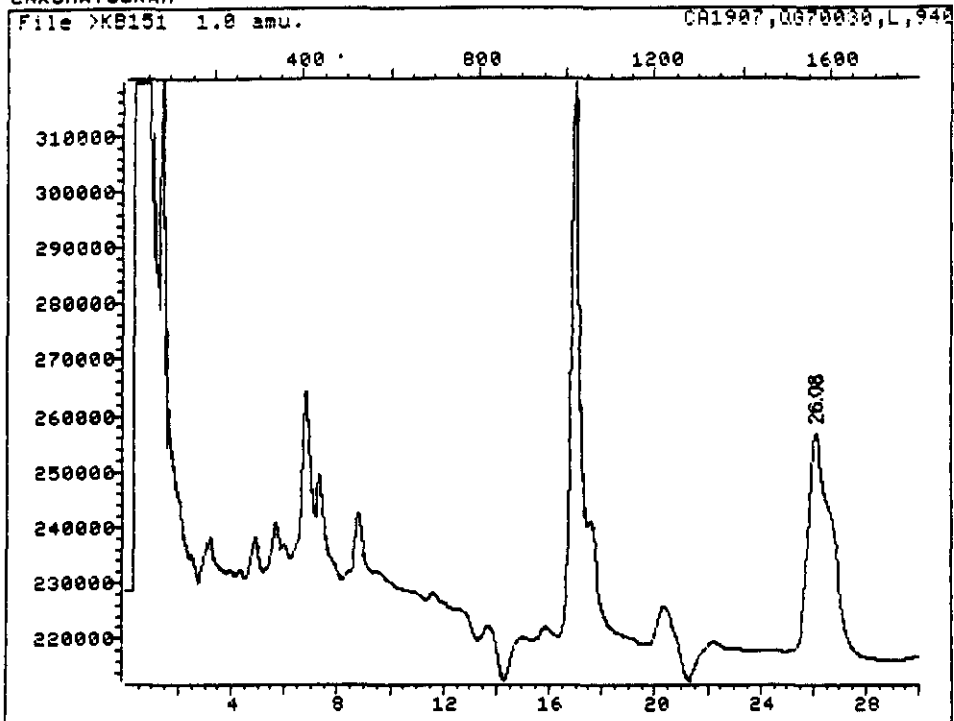
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891108 16:21

Compound	R.T.	Scan#	Height	Conc	Units	q
<del>3) #Beta-BHC not confirmed</del>	<del>8.42</del>	<del>585</del>	<del>5312</del>	<del>.346</del>	<del>UG/ML</del>	<del>100</del>
19) #Dibutylchloroendate	34.65	2079	134913	.0615	UG/ML	100

*kd 11/21/99*

# Compound uses ESTD

CHROMATOGRAM



Data File: >KB151::U2  
Name:  
Misc: CA1907,QG70030,L,940,10

Quant Output File: ^KB151::AQ  
Instrument ID: KA

Id File: I048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891121 00:44

Operator ID: KT8582  
Quant Time: 891121 04:33  
Injected at: 891121 04:02

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB151::AQ  
 Data File: >KB151::U2  
 Name:  
 Misc: CA1907, QG70030, L, 940, 10

Quant Rev: 7      Quant Time: 891121 04:33  
 Injected at: 891121 04:02  
 Dilution Factor: 1.00000  
 Instrument ID: KA

ID File: I048IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891121 00:44

Compound	R.T.	Scan#	Height	Conc	Units	g
19) #Dibutylchloroendate	26.08	1565	39104	.0502	UG/ML	100

# Compound uses ESTD

*KA 11/21/87*

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA1908G

Sample wt/vol: 850.0 (g/mL) ML

Lab File ID: >HA550

Level: (low/med) LOW

Date Received: 10/07/89

% Moisture: not dec. dec.

Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) SEPF

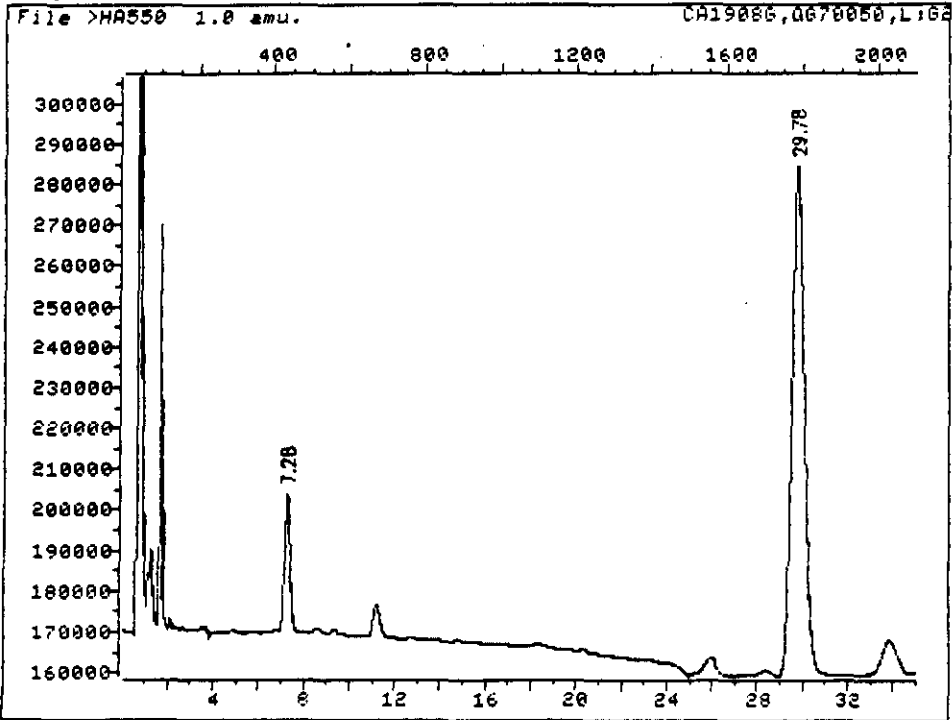
Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
319-64-6	alpha-BHC	.059	IU
319-65-7	beta-BHC	.059	IU
319-86-8	delta-BHC	.059	IU
58-89-9	gamma-BHC(Lindane)	.059	IU
76-44-8	Heptachlor	.059	IU
309-00-2	Aldrin	.059	IU
1024-57-3	Heptachlor epoxide	.059	IU
959-98-8	Endosulfan I	.059	IU
60-57-1	Dieldrin	.120	IU
72-55-9	4,4'-DDE	.120	IU
72-20-8	Endrin	.120	IU
33213-65-9	Endosulfan II	.120	IU
72-54-8	4,4'-DDD	.120	IU
1031-07-8	Endosulfan sulfate	.120	IU
50-29-3	4,4'-DDT	.120	IU
72-43-5	Methoxychlor	.590	IU
53494-70-5	Endrin ketone	.120	IU
5103-71-9	alpha-Chlordane	.059	IU
5103-74-2	gamma-Chlordane	.059	IU
8001-35-2	Toxaphene	12.400	IU
12674-11-2	Aroclor-1016	.590	IU
11104-28-2	Aroclor-1221	.590	IU
11141-16-5	Aroclor-1232	.590	IU
53469-21-9	Aroclor-1242	.590	IU
12672-29-6	Aroclor-1248	.590	IU
11097-69-1	Aroclor-1254	1.200	IU
11096-82-5	Aroclor-1260	1.200	IU

CHROMATOGRAM



Data File: >HA550::U4

Quant Output File: ^HA550::AQ

Name:

Instrument ID: HA

Misc: CA1908G,0670050,L:G2,850,10

Id File: I050IP::US

Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ

Last Calibration: 891115 15:07

Operator ID: KT8582

Quant Time: 891115 15:20

Injected at: 891115 14:36

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA550::AQ  
 Data File: >HA550::U4  
 Name:  
 Misc: CA1908G, QG70050, L:G2, 850, 10

Quant Rev: 7      Quant Time: 891115 15:20  
 Injected at: 891115 14:36  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.9%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

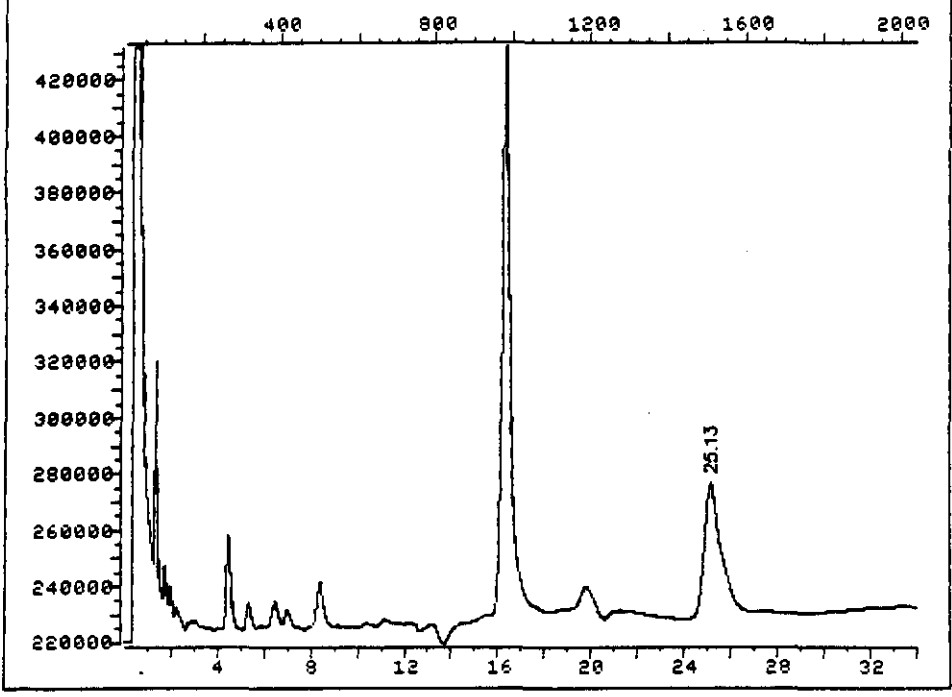
Compound	R.T.	Scan#	Height	Conc	Units	q
<del>3) #Beta-BHC not confirmed</del>	<del>7.28</del>	<del>435</del>	<del>33984</del>	<del>.0126</del>	<del>UG/ML</del>	<del>100</del>
19) #Dibutylchloroendate	29.78	1785	125377	.0810	UG/ML	100

*nd 4/27/89*

# Compound uses ESTD

CHROMATOGRAM

File >KB201 1.0 amu. CA1908G, QG70050, L:G2



Data File: >KB201::U2

Quant Output File: ^KB201::AQ

Name:

Instrument ID:

Misc: CA1908G, QG70050, L:G2, 850, 10

KA  
KB 11/21/89

Id File: I0761C::US

Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ

Last Calibration: 891128 00:29

Operator ID: KT8582

Quant Time: 891128 10:56

Injected at: 891128 10:22

QUANT REPORT

Page 1

Operator ID: KT8582                      Quant Rev: 7      Quant Time: 891128 10:56  
 Output File: ^KB201::AQ                      Injected at: 891128 10:22  
 Data File: >KB201::U2                      Dilution Factor: 1.00000  
 Name:    Instrument ID: ~~KA~~ <sup>11/23/99</sup>  
 Misc: CA19086,QG70050,L:G2,850,10                      KB

ID File: 1076IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891128 00:29

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	25.13	1508	47872	.0779	UG/ML	100

# Compound uses ESTD

*KA 11/23/99*



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA2144G

Sample wt/vol: 970.0 (g/mL) ML

Lab File ID: >HA559

Level: (low/med) LOW

Date Received: 10/11/89

% Moisture: not dec. dec.

Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) SEPF

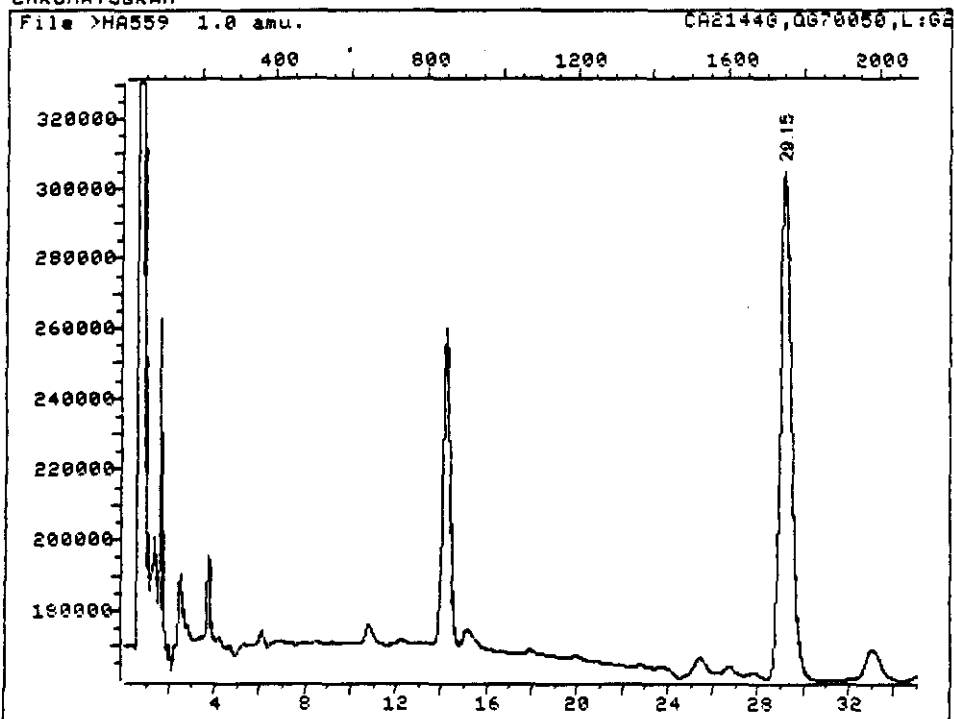
Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.052	IU
319-65-7	beta-BHC	.052	IU
319-86-8	delta-BHC	.052	IU
58-89-9	gamma-BHC(Lindane)	.052	IU
76-44-8	Heptachlor	.052	IU
309-00-2	Aldrin	.052	IU
1024-57-3	Heptachlor epoxide	.052	IU
959-98-8	Endosulfan I	.052	IU
60-57-1	Dieldrin	.100	IU
72-55-9	4,4'-DDE	.100	IU
72-20-8	Endrin	.100	IU
33213-65-9	Endosulfan II	.100	IU
72-54-8	4,4'-DDD	.100	IU
1031-07-8	Endosulfan sulfate	.100	IU
50-29-3	4,4'-DDT	.100	IU
72-43-5	Methoxychlor	.520	IU
53494-70-5	Endrin ketone	.100	IU
5103-71-9	alpha-Chlordane	.052	IU
5103-74-2	gamma-Chlordane	.052	IU
8001-35-2	Toxaphene	2.100	IU
12674-11-2	Aroclor-1016	.520	IU
11104-28-2	Aroclor-1221	.520	IU
11141-16-5	Aroclor-1232	.520	IU
53469-21-9	Aroclor-1242	.520	IU
12672-29-6	Aroclor-1248	.520	IU
11097-69-1	Aroclor-1254	.1	IU
11096-82-5	Aroclor-1260	.1	IU

CHROMATOGRAM



Data File: >HA559::U4 Quant Output File: ^HA559::AQ  
Name: Instrument ID: HA  
Misc: CA21446,0670050,L:G2,970,10

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891115 22:10  
Injected at: 891115 21:26

QUANT REPORT

Page 1

Operator ID: KT8582  
Output File: ^HA559::AQ  
Data File: >HA559::U4  
Name:  
Misc: CA2144G,QG70050,L:G2,970,10

Quant Rev: 7      Quant Time: 891115 22:10  
                  Injected at: 891115 21:26  
Dilution Factor: 1.00000  
Instrument ID: HA

ID File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.15	1747	144449	.0933	UG/ML	100

# Compound uses ESTD

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA2145G

Sample wt/vol: 890.0 (g/mL) ML

Lab File ID: >HA560

Level: (low/med) LOW

Date Received: 10/11/89

% Moisture: not dec. dec.

Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) SEPF

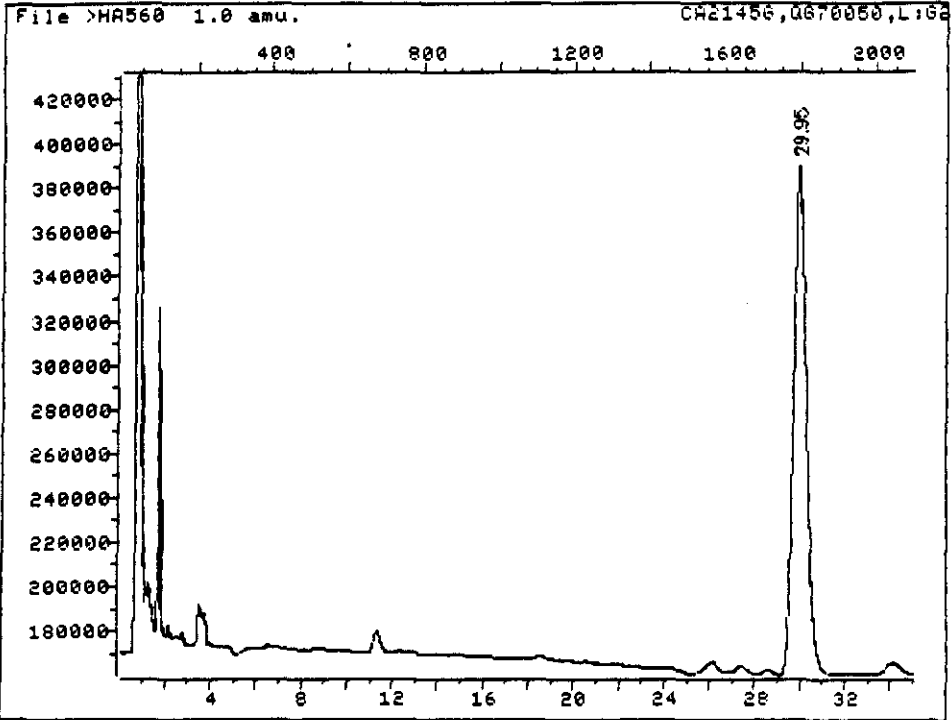
Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	1.056	1U
319-65-7	beta-BHC	1.056	1U
319-86-8	delta-BHC	1.056	1U
58-89-9	gamma-BHC(Lindane)	1.056	1U
76-44-8	Heptachlor	1.056	1U
309-00-2	Aldrin	1.056	1U
1024-57-3	Heptachlor epoxide	1.056	1U
959-98-8	Endosulfan I	1.056	1U
60-57-1	Dieldrin	1.110	1U
72-55-9	4,4'-DDE	1.110	1U
72-20-8	Endrin	1.110	1U
33213-65-9	Endosulfan II	1.110	1U
72-54-8	4,4'-DDD	1.110	1U
1031-07-8	Endosulfan sulfate	1.110	1U
50-29-3	4,4'-DDT	1.110	1U
72-43-5	Methoxychlor	1.560	1U
53494-70-5	Endrin ketone	1.110	1U
5103-71-9	alpha-Chlordane	1.056	1U
5103-74-2	gamma-Chlordane	1.056	1U
8001-35-2	Toxaphene	12.200	1U
12674-11-2	Aroclor-1016	1.560	1U
11104-28-2	Aroclor-1221	1.560	1U
11141-16-5	Aroclor-1232	1.560	1U
53469-21-9	Aroclor-1242	1.560	1U
12672-29-6	Aroclor-1248	1.560	1U
11097-69-1	Aroclor-1254	11.100	1U
11096-82-5	Aroclor-1260	11.100	1U

CHROMATOGRAM



Data File: >HA560::U4                    Quant Output File: ^HA560::AQ  
Name:                                        Instrument ID: HA  
Misc: CA2145G,QG70050,L:G2,890,10  
  
Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07  
  
Operator ID: KT8582  
Quant Time: 891115 22:59  
Injected at: 891115 22:16

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA560::AQ  
 Data File: >HA560::U4  
 Name:  
 Misc: CA2145G,QG70050,L:G2,890,10

Quant Rev: 7      Quant Time: 891115 22:59  
 Injected at: 891115 22:16  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.95	1795	229890	.149	UG/ML	100

24 11/27/99

# Compound uses ESTD

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA2146G

Sample wt/vol: 900.0 (g/mL) ML

Lab File ID: >HA561

Level: (low/med) LOW

Date Received: 10/11/89

% Moisture: not dec. dec.

Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) SEPF

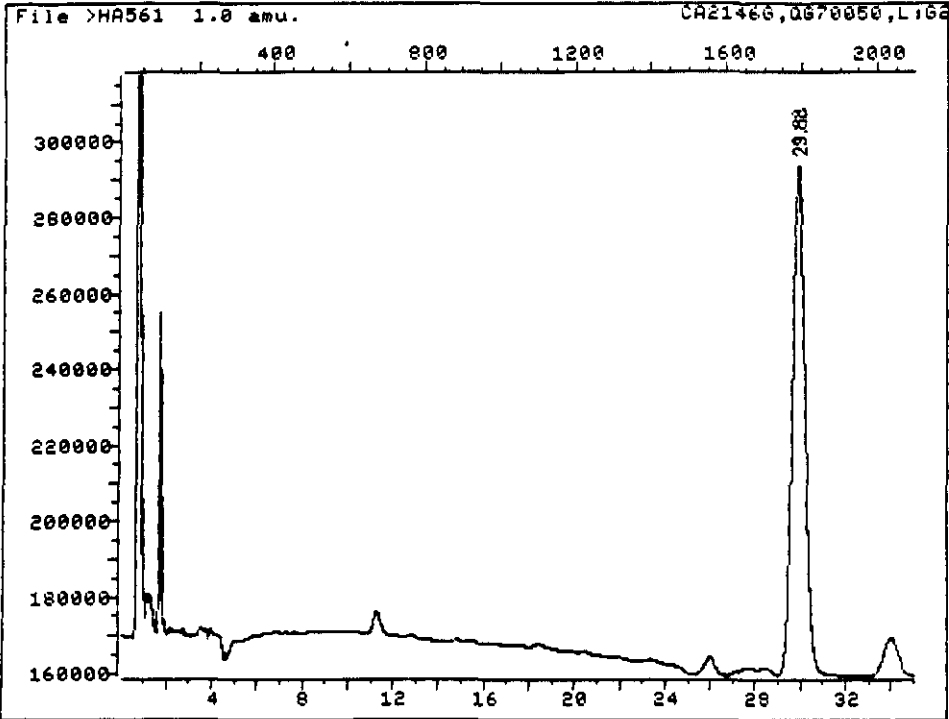
Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	1.056	1U
319-65-7	beta-BHC	1.056	1U
319-86-8	delta-BHC	1.056	1U
58-89-9	gamma-BHC(Lindane)	1.056	1U
76-44-8	Heptachlor	1.056	1U
309-00-2	Aldrin	1.056	1U
1024-57-3	Heptachlor epoxide	1.056	1U
959-98-8	Endosulfan I	1.056	1U
60-57-1	Dieldrin	1.110	1U
72-55-9	4,4'-DDE	1.110	1U
72-20-8	Endrin	1.110	1U
33213-65-9	Endosulfan II	1.110	1U
72-54-8	4,4'-DDD	1.110	1U
1031-07-8	Endosulfan sulfate	1.110	1U
50-29-3	4,4'-DDT	1.110	1U
72-43-5	Methoxychlor	1.560	1U
53494-70-5	Endrin ketone	1.110	1U
5103-71-9	alpha-Chlordane	1.056	1U
5103-74-2	gamma-Chlordane	1.056	1U
8001-35-2	Toxaphene	12.200	1U
12674-11-2	Aroclor-1016	1.560	1U
11104-28-2	Aroclor-1221	1.560	1U
11141-16-5	Aroclor-1232	1.560	1U
53469-21-9	Aroclor-1242	1.560	1U
12672-29-6	Aroclor-1248	1.560	1U
11097-69-1	Aroclor-1254	11.100	1U
11096-82-5	Aroclor-1260	11.100	1U

CHROMATOGRAM



Data File: >HA561::U4                    Quant Output File: ^HA561::AQ  
Name:                                        Instrument ID: HA  
Misc: CA2146G, QG70050, L:G2,900,10  
  
Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07  
  
Operator ID: KT8582  
Quant Time: 891115 23:45  
Injected at: 891115 23:01



QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA561::AQ  
 Data File: >HA561::U4  
 Name:  
 Misc: CA2146G, QG70050, L:G2, 900, 10

Quant Rev: 7      Quant Time: 891115 23:45  
 Injected at: 891115 23:01  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.88	1791	134017	.0866	UG/ML	100
				<i>mu 11/27/89</i>		
# Compound uses ESTD						

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA2147G

Sample wt/vol: 910.0 (g/mL) ML

Lab File ID: >KB102

Level: (low/med) LOW

Date Received: 10/12/89

% Moisture: not dec. dec.

Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 11/16/89

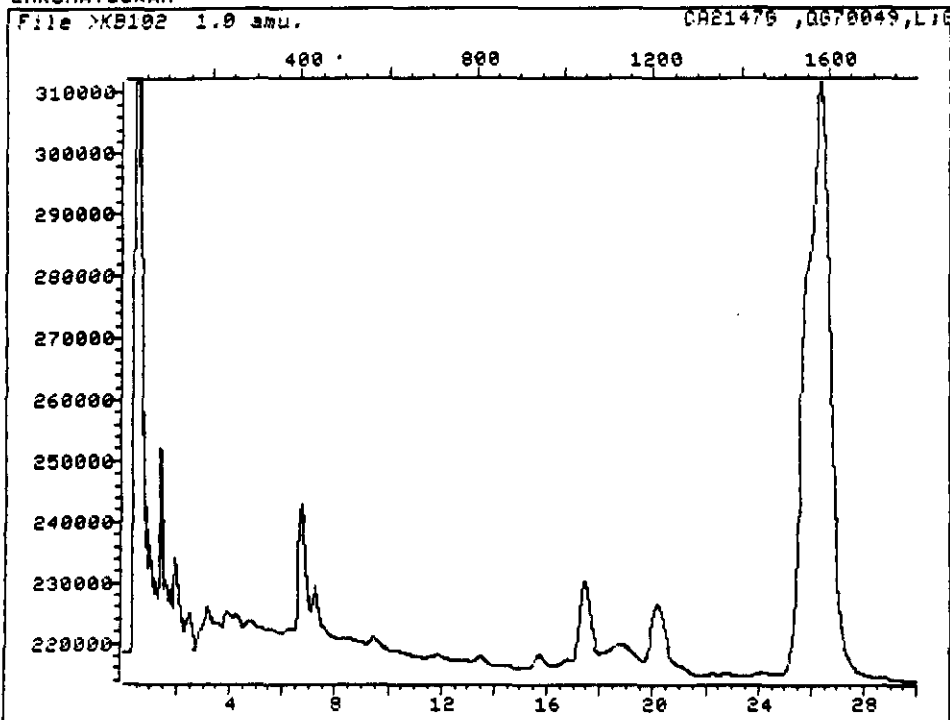
GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.055	IU
319-65-7	beta-BHC	.055	IU
319-86-8	delta-BHC	.055	IU
58-89-9	gamma-BHC (Lindane)	.055	IU
76-44-8	Heptachlor	.055	IU
309-00-2	Aldrin	.055	IU
1024-57-3	Heptachlor epoxide	.055	IU
959-98-8	Endosulfan I	.055	IU
60-57-1	Dieldrin	.110	IU
72-55-9	4,4'-DDE	.110	IU
72-20-8	Endrin	.110	IU
33213-65-9	Endosulfan II	.110	IU
72-54-8	4,4'-DDD	.110	IU
1031-07-8	Endosulfan sulfate	.110	IU
50-29-3	4,4'-DDT	.110	IU
72-43-5	Methoxychlor	.550	IU
53494-70-5	Endrin ketone	.110	IU
5103-71-9	alpha-Chlordane	.550	IU
5103-74-2	gamma-Chlordane	.550	IU
8001-35-2	Toxaphene	2.200	IU
12674-11-2	Aroclor-1016	.550	IU
11104-28-2	Aroclor-1221	.550	IU
11141-16-5	Aroclor-1232	.550	IU
53469-21-9	Aroclor-1242	.550	IU
12672-29-6	Aroclor-1248	.550	IU
11097-69-1	Aroclor-1254	1.100	IU
11096-82-5	Aroclor-1260	1.100	IU

CHROMATOGRAM



Data File: >KB102::U2 Quant Output File: ^KB102::AQ  
Name: Instrument ID: KA  
Misc: CA21476 ,QG70049,L:G2, 910,10 KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 20:42

Operator ID: YY6148  
Quant Time: 891116 22:12  
Injected at: 891116 21:41

*KA*  
*11/21/89*

QUANT REPORT

Page 1

Operator ID: YY6148  
Output File: ^KB102::AQ  
Data File: >KB102::U2  
Name:  
Misc: CA2147G ,QG70049,L:G2, 910,10

Quant Rev: 7      Quant Time: 891116 22:12  
                  Injected at: 891116 21:41  
Dilution Factor: 1.00000  
Instrument ID: ~~KA~~  
                  KB

ID File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 20:42

-----  
Compound                      R.T. Scan#    Height      Conc      Units    q

*11/21/89*

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA2148G

Sample wt/vol: 930.0 (g/mL) ML

Lab File ID: >KB103

Level: (low/med) LDW

Date Received: 10/12/89

% Moisture: not dec. dec.

Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF

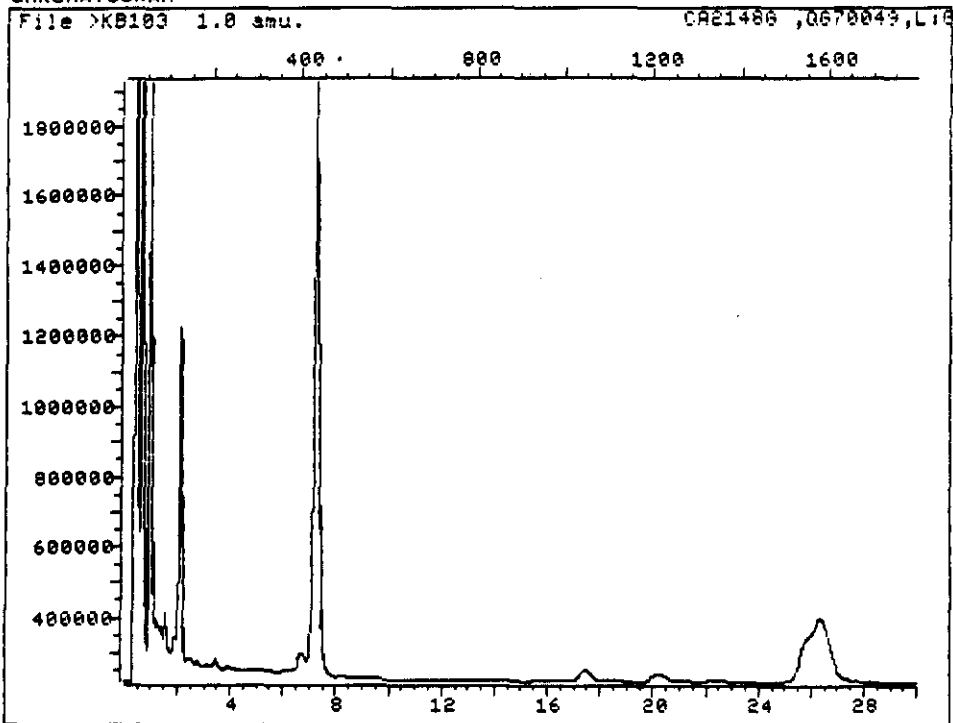
Date Analyzed: 11/16/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	0.054	1U
319-65-7	beta-BHC	0.054	1U
319-86-8	delta-BHC	0.054	1U
58-89-9	gamma-BHC(Lindane)	0.054	1U
76-44-8	Heptachlor	0.054	1U
309-00-2	Aldrin	0.054	1U
1024-57-3	Heptachlor epoxide	0.054	1U
959-98-8	Endosulfan I	0.054	1U
60-57-1	Dieldrin	0.110	1U
72-55-9	4,4'-DDE	0.110	1U
72-20-8	Endrin	0.110	1U
33213-65-9	Endosulfan II	0.110	1U
72-54-8	4,4'-DDD	0.110	1U
1031-07-8	Endosulfan sulfate	0.110	1U
50-29-3	4,4'-DDT	0.110	1U
72-43-5	Methoxychlor	0.540	1U
53494-70-5	Endrin ketone	0.110	1U
5103-71-9	alpha-Chlordane	0.540	1U
5103-74-2	gamma-Chlordane	0.540	1U
8001-35-2	Toxaphene	12.200	1U
12674-11-2	Aroclor-1016	0.540	1U
11104-28-2	Aroclor-1221	0.540	1U
11141-16-5	Aroclor-1232	0.540	1U
53469-21-9	Aroclor-1242	0.540	1U
12672-29-6	Aroclor-1248	0.540	1U
11097-69-1	Aroclor-1254	1.100	1U
11096-82-5	Aroclor-1260	1.100	1U

CHROMATOGRAM



Data File: >KB103::U2                    Quant Output File: ^KB103::AQ  
Name:                                        Instrument ID: KA  
Misc: CA21486 ,0670049,L:G2, 930,10                    KB  
  
Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 20:42  
  
Operator ID: YY6148  
Quant Time: 891116 22:47  
Injected at: 891116 22:16

*was*  
*11/21/89*

QUANT REPORT

Page 1

Operator ID: YY6148      Quant Rev: 7      Quant Time: 891116 22:47  
Output File: ^KB103::A0      Injected at: 891116 22:16  
Data File: >KB103::U2      Dilution Factor: 1.00000  
Name:      Instrument ID: KA  
Misc: CA2148G ,QG70049,L:G2, 930,10      KB

ID File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 20:42

Compound	R.T.	Scan#	Height	Conc	Units	q
----------	------	-------	--------	------	-------	---

*11/21/89*

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ Contract: \_\_\_\_\_

Lab Code: Case No.: SAS No.: SOG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA2152G

Sample wt/vol: 800.0 (g/mL) ML Lab File ID: >HA562

Level: (low/med) LDW Date Received: 10/11/89

% Moisture: not dec. dec. Date Extracted: 10/12/89

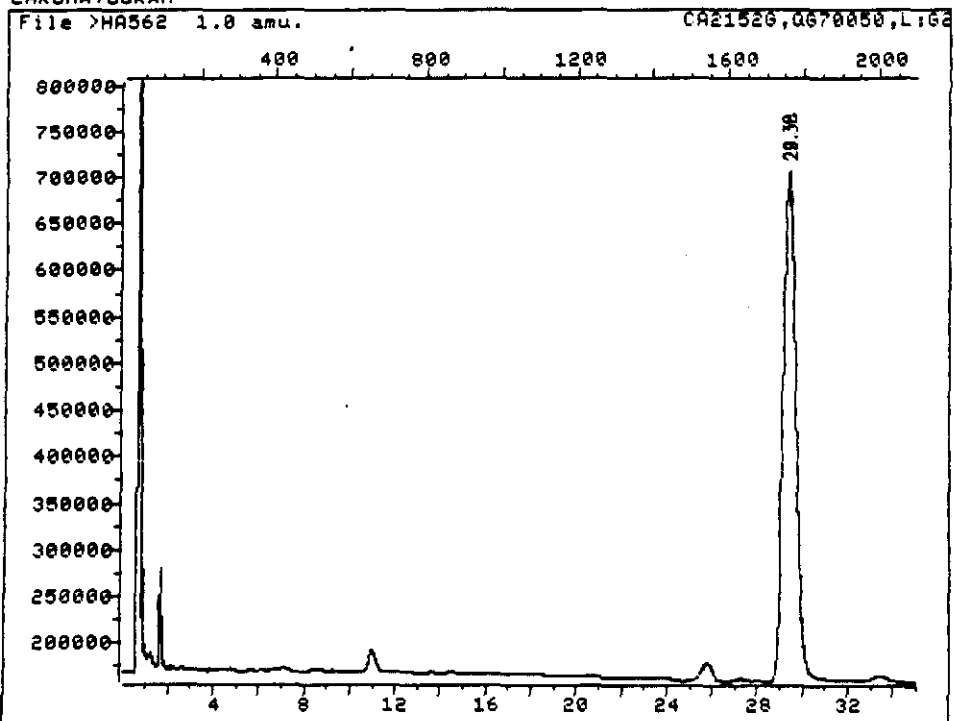
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/15/89

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	1.062	1U
319-65-7	beta-BHC	1.062	1U
319-86-8	delta-BHC	1.062	1U
58-89-9	gamma-BHC(Lindane)	1.062	1U
76-44-8	Heptachlor	1.062	1U
309-00-2	Aldrin	1.062	1U
1024-57-3	Heptachlor epoxide	1.062	1U
959-98-8	Endosulfan I	1.062	1U
60-57-1	Dieldrin	1.120	1U
72-55-9	4,4'-DDE	1.120	1U
72-20-8	Endrin	1.120	1U
33213-65-9	Endosulfan II	1.120	1U
72-54-8	4,4'-DDD	1.120	1U
1031-07-8	Endosulfan sulfate	1.120	1U
50-29-3	4,4'-DDT	1.120	1U
72-43-5	Methoxychlor	1.630	1U
53494-70-5	Endrin ketone	1.120	1U
5103-71-9	alpha-Chlordane	1.062	1U
5103-74-2	gamma-Chlordane	1.062	1U
8001-35-2	Toxaphene	12.500	1U
12674-11-2	Aroclor-1016	1.630	1U
11104-28-2	Aroclor-1221	1.630	1U
11141-16-5	Aroclor-1232	1.630	1U
53469-21-9	Aroclor-1242	1.630	1U
12672-29-6	Aroclor-1248	1.630	1U
11097-69-1	Aroclor-1254	1.300	1U
11096-82-5	Aroclor-1260	1.300	1U



CHROMATOGRAM



Data File: >HA562::U4                    Quant Output File: ^HA562::AQ  
Name:                                        Instrument ID: HA  
Misc: CA2152G,QG70050,L:G2,800,10

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891116 00:30  
Injected at: 891115 23:47

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA562::AQ  
 Data File: >HA562::U4  
 Name:  
 Misc: CA2152G, QG70050, L:G2,800,10

Quant Rev: 7      Quant Time: 891116 00:30  
 Injected at: 891115 23:47  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.38	1761	547780	.354	UG/ML	100

*ms 11/27/89*

# Compound uses ESTD



ETC

STANDARDS DATA

80  
 PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: HA

GC Column ID: 2250/2401

Dates of Analyses: 11/14/89 to 11/16/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION	CALIBRATION	CALIBRATION	% RSD
	FACTOR EVAL MIX A	FACTOR EVAL MIX B	FACTOR EVAL MIX C	(<= 10.0%)
ALDRIN	1894400.5	1945600.5	1822090.0	3.3
ENDRIN	486400.1	450560.0	460480.0	4.0
4,4'-DDT	371200.1	353920.0	325760.0	6.5
OBC	780850.1	762240.0	680000.0	7.2

(1)

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown  
 (percent breakdown expressed as total degradation)

	DATE	TIME	ENDRIN	4,4'-DDT	COMBINED
	ANALYZED	ANALYZED			(2)
INITIAL					
01) EVAL MIX B	11/15/89	0012	1.7	11.2	
02) EVAL MIX B	11/15/89	1522	17.6	5.7	
03) EVAL MIX B					
04) EVAL MIX B					
05) EVAL MIX B					
06) EVAL MIX B					
07) EVAL MIX B					
08) EVAL MIX B					
09) EVAL MIX B					
10) EVAL MIX B					
11) EVAL MIX B					
12) EVAL MIX B					
13) EVAL MIX B					
14) EVAL MIX B					

(2) See form instructions.

8E  
 PESTICIDE EVALUATION FOR STANDARDS SUMMARY  
 Evaluation of Retention Time Shift for Dibutylchlorodate

Lab Name:ETCNI

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: HA

GC Column ID:2250/2401

Dates of Analyses: 11/14/89 to 11/16/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01		EVALA	11/14/89	2326	0.01	
02		EVALB	11/15/89	0012	.1	
03		EVALC	11/15/89	0057	1.01	
04		INDA	11/15/89	0143	.31	
05		INDB	11/15/89	0228	0.01	
06		TOXAPH	11/15/89	0530	.31	
07		AR1016	11/15/89	0615	.51	
08		AR1221	11/15/89	0701	.41	
09		AR1232	11/15/89	0746	0.01	
10		AR1242	11/15/89	0832	.51	
11		AR1248	11/15/89	0918	.41	
12		AR1254	11/15/89	1003	.31	
13		AR1260	11/15/89	1049	.61	
14		QC70050G	11/15/89	1135	.71	
15		CA1889G	11/15/89	1220	.11	
16		CA1890G	11/15/89	1305	.51	
17		CA1892G	11/15/89	1351	.41	
18		CA1908G	11/15/89	1436	.31	
19		EVALB	11/15/89	1522	.41	
20		CA2141G	11/15/89	1607	.81	
21		CA2142G	11/15/89	1653	.31	
22		CA2143G	11/15/89	1739	.21	
23		CA2149G	11/15/89	1824	0.01	
24		CA2151G	11/15/89	1910	.81	
25		INDA	11/15/89	1955	1.21	
26		CA1891G	11/15/89	2041	.51	
27		CA2144G	11/15/89	2126	1.91	
28		CA2145G	11/15/89	2216	.81	
29		CA2146G	11/15/89	2301	.61	
30		CA2152G	11/15/89	2347	1.11	
31		EVALB	11/16/89	0032	1.01	
32		QC70050GS	11/16/89	0117	.11	
33		QC70055G	11/16/89	0203	.51	
34		CA2150G	11/16/89	0249	1.01	
35		QC70055GS	11/16/89	0334	.31	
36		INDA	11/16/89	0420	1.31	
37		INDB	11/16/89	0506	1.61	
38						

\* Values outside of QC limits (2.0% for packed columns,  
 0.3% for capillary columns)

709

80  
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: ETCNJ Contract:  
 Lab Code: Case No.: SAS No.: SOG No.:  
 Instrument ID: JA GC Column ID: 2250/2401  
 Dates of Analyses: 11/07/89 to 11/08/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION	CALIBRATION	CALIBRATION	% RSD ( $\leq 10.0\%$ )
	FACTOR EVAL MIX A	FACTOR EVAL MIX B	FACTOR EVAL MIX C	
ALDRIN	3328000.5	3205140.5	2982410.0	5.5
ENDRIN	1152000.2	1148800.0	1047685.0	5.3
4,4'-DDT	336000.1	346240.0	355840.0	2.9
DBC	1088000.2	1063040.0	970565.0	5.9

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown  
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01 EVAL MIX B	11/07/89	1501	11.1	20.4	
02 EVAL MIX B	11/08/89	0344	0.0	14.3	
03 EVAL MIX B	11/08/89	1634	5.8	19.9	
04 EVAL MIX B					
05 EVAL MIX B					
06 EVAL MIX B					
07 EVAL MIX B					
08 EVAL MIX B					
09 EVAL MIX B					
10 EVAL MIX B					
11 EVAL MIX B					
12 EVAL MIX B					
13 EVAL MIX B					
14 EVAL MIX B					

(2) See form instructions.

8E  
 PESTICIDE EVALUATION FOR STANDARDS SUMMARY  
 Evaluation of Retention Time Shift for Dibutylchlorodate

Lab Name:ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: JA

GC Column ID:2250/2401

Dates of Analyses: 11/07/89 to 11/08/89

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	11/07/89	1416	0.0	
02	EVALB	11/07/89	1501	.0	
03	EVALC	11/07/89	1546	.0	
04	INDA	11/07/89	1630	0.0	
05	INDB	11/07/89	1715	0.0	
06	TOXAPH	11/07/89	1801	0.0	
07	AR1016	11/07/89	1846	0.0	
08	AR1221	11/07/89	1931	.0	
09	AR1232	11/07/89	2016	.0	
10	AR1242	11/07/89	2101	.1	
11	AR1248	11/07/89	2146	.1	
12	AR1254	11/07/89	2230	.1	
13	AR1260	11/07/89	2315	.1	
14	QC70048G	11/08/89	0000	.0	
15	CA1895G	11/08/89	0045	.0	
16	CA1896G	11/08/89	0130	.0	
17	CA1897G	11/08/89	0215	.1	
18	CA2136G	11/08/89	0259	.1	
19	EVALB	11/08/89	0344	0.0	
20	CA2137G	11/08/89	0429	.1	
21	CA2138G	11/08/89	0514	.1	
22	QC70048GS	11/08/89	0559	.2	
23	QC70030G	11/08/89	0947	.0	
24	QC70030GS	11/08/89	1032	.1	
25	INDA	11/08/89	1117	.2	
26	CA1907G	11/08/89	1202	.1	
27	CA1907GS	11/08/89	1247	.1	
28	CA1907GR	11/08/89	1332	.1	
29	CA2139G	11/08/89	1505	.0	
30	CA2140G	11/08/89	1550	.1	
31	EVALB	11/08/89	1634	.1	
32	INDA	11/08/89	1719	.1	
33	INDB	11/08/89	1804	.1	
34					
35					
36					
37					
38					

\* Values outside of QC limits (2.0% for packed columns,  
 0.3% for capillary columns)

711

8D  
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: ETCNJ Contract:  
 Lab Code: Case No.: SAS No.: SDG No.:  
 Instrument ID: KB GC Column ID: 3%SP-2100  
 Dates of Analyses: 11/16/89 to 11/17/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	% RSD ( $\leq$ 10.0%)
ALDRIN	960000.2	992000.2	1069440.0	5.6
ENDRIN	499200.1	563200.0	602565.0	9.4
4,4'-DDT	217600.0	217600.0	217280.0	.1 (1)
DDC	304000.1	332800.0	326720.0	4.7

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown  
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01 EVAL MIX B	11/16/89	1217			6.7
02 EVAL MIX B	11/16/89	2252			10.6
03 EVAL MIX B	11/17/89	0444			12.4
04 EVAL MIX B					
05 EVAL MIX B					
06 EVAL MIX B					
07 EVAL MIX B					
08 EVAL MIX B					
09 EVAL MIX B					
10 EVAL MIX B					
11 EVAL MIX B					
12 EVAL MIX B					
13 EVAL MIX B					
14 EVAL MIX B					

(2) See form instructions.



8E  
 PESTICIDE EVALUATION FOR STANDARDS SUMMARY  
 Evaluation of Retention Time Shift for Dibutylchlorodate

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP-2100

Dates of Analyses: 11/16/89 to 11/17/89

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	11/16/89	1142	0.0	
02	EVALB	11/16/89	1217	.1	
03	EVALC	11/16/89	1252	.1	
04	INDA	11/16/89	1328	.1	
05	INDB	11/16/89	1403	.1	
06	TOXAPH	11/16/89	1438	.2	
07	CHLORD	11/16/89	1513	.2	
08	AR1016	11/16/89	1549	.3	
09	AR1221	11/16/89	1624	.2	
10	AR1232	11/16/89	1659	.3	
11	AR1242	11/16/89	1735	.1	
12	AR1248	11/16/89	1810	.2	
13	AR1254	11/16/89	1845	.4	
14	AR1260	11/16/89	1920	.5	
15	QC70049G	11/16/89	1955	.5	
16	CA2271GS	11/16/89	2031		*
17	CA2271GR	11/16/89	2106	.4	
18	CA2147G	11/16/89	2141		*
19	CA2148G	11/16/89	2216		*
20	EVALB	11/16/89	2252	.4	
21	CA2271G	11/16/89	2327	.7	
22	<del>QC70049GS</del>	<del>11/17/89</del>	<del>0002</del>		* <i>UNFR</i>
23	<del>QC70054G</del>	<del>11/17/89</del>	<del>0037</del>		* <i>UNFR</i>
24	<del>CA2357GS</del>	<del>11/17/89</del>	<del>0113</del>		* <i>UNFR</i>
25	<del>CA2357GR</del>	<del>11/17/89</del>	<del>0148</del>	.9	* <i>UNFR</i>
26	INDA	11/17/89	0223	.6	
27	CA2357G	11/17/89	0258		* <i>UNFR</i>
28	CA2358G	11/17/89	0334	.7	* <i>UNFR</i>
29	<del>QC70054GS</del>	<del>11/17/89</del>	<del>0409</del>		* <i>UNFR</i>
30	EVALB	11/17/89	0444	.6	
31	INDA	11/17/89	0519	.7	
32	INDB	11/17/89	0554	.8	
33					
34					
35					
36					
37					
38					

\* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

713

8D  
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP2100

Dates of Analyses: 11/20/89 to 11/21/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	% RSD ( $\leq 10.0\%$ )
ALDRIN	1171200.2	1172480.3	1239690.0	3.3
ENDRIN	595200.1	638720.0	654085.0	4.9
4,4'-DDT	297600.1	266240.0	260800.0	7.2
DBC	396800.1	405120.0	385600.0	2.5

(1)

(1) If  $> 10.0\%$  RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown  
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01 EVAL MIX B	11/20/89	2210			14.3
02 EVAL MIX B	11/21/89	0327			12.9
03 EVAL MIX B					
04 EVAL MIX B					
05 EVAL MIX B					
06 EVAL MIX B					
07 EVAL MIX B					
08 EVAL MIX B					
09 EVAL MIX B					
10 EVAL MIX B					
11 EVAL MIX B					
12 EVAL MIX B					
13 EVAL MIX B					
14 EVAL MIX B					

(2) See form instructions.

8E  
 PESTICIDE EVALUATION FOR STANDARDS SUMMARY  
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name:ETCNI

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID:3%SP2100

Dates of Analyses: 11/20/89 to 11/21/89

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	11/20/89	2135	0.0	
02	EVALB	11/20/89	2210	.1	
03	EVALC	11/20/89	2245	.1	
04	INDA	11/20/89	2320	.1	
05	INDB	11/20/89	2356	.1	
06	QC70048	11/21/89	0031	.2	
07	CA1895	11/21/89	0106	.8	
08	CA1896	11/21/89	0141	.1	
09	CA1897	11/21/89	0217	.2	
10	QC70030	11/21/89	0252	.1	
11	EVALB	11/21/89	0327	0.0	
12	CA1907	11/21/89	0402	.1	
13	CA2140	11/21/89	0437	.3	
14	INDA	11/21/89	0513	.1	
15	INDB	11/21/89	0548	.1	
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					

\* Values outside of QC limits (2.0% for packed columns,  
 0.3% for capillary columns)

80  
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: ETCNJ Contract: \_\_\_\_\_  
 Lab Code: Case No.: SAS No.: SDG No.:  
 Instrument ID: KB GC Column ID: 3%SP-2100  
 Dates of Analyses: 11/27/89 to 11/28/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION	CALIBRATION	CALIBRATION	% RSD ( $\leq$ 10.0%)
	FACTOR EVAL MIX A	FACTOR EVAL MIX B	FACTOR EVAL MIX C	
ALDRIN	918600.2	930560.3	976000.0	3.2
ENDRIN	483200.1	536320.0	532800.0	5.7
4,4'-DDT	211200.0	196480.0	236160.0	9.3
DDC	294400.1	317440.0	299200.0	4.0

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown  
(percent breakdown expressed as total degradation)

	DATE	TIME	ENDRIN	4,4'-DDT	COMBINED
	ANALYZED	ANALYZED			(2)
INITIAL					
01	EVAL MIX B	11/27/89	2017		6.9
02	EVAL MIX B	11/28/89	0329		9.2
03	EVAL MIX B	11/28/89	1219		5.9
04	EVAL MIX B				
05	EVAL MIX B				
06	EVAL MIX B				
07	EVAL MIX B				
08	EVAL MIX B				
09	EVAL MIX B				
10	EVAL MIX B				
11	EVAL MIX B				
12	EVAL MIX B				
13	EVAL MIX B				
14	EVAL MIX B				

(2) See form instructions.

8E  
 PESTICIDE EVALUATION FOR STANDARDS SUMMARY  
 Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name:ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID:3%SP-2100

Dates of Analyses: 11/27/89 to 11/28/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01		EVALA	11/27/89	1938	0.01	
02		EVALB	11/27/89	2017	0.01	
03		EVALC	11/27/89	2056	.11	
04		INDA	11/27/89	2136	0.01	
05		INDB	11/27/89	2215	.11	
06		AR1254	11/27/89	2254	0.01	
07		AR1260	11/27/89	2333	.11	
08		QC70076G	11/28/89	0013		*
09		CA1369G	11/28/89	0052		*
10		CA1370G	11/28/89	0131		*
11		CA2103G	11/28/89	0210		*
12		QC70057G	11/28/89	0250	0.01	
13		EVALB	11/28/89	0329	.11	
14		CA2346G	11/28/89	0408	.21	
15		CA2347G	11/28/89	0448	.21	
16		CA2343G	11/28/89	0527	.21	
17		CA2344G	11/28/89	0606	.11	
18		CA2342G	11/28/89	0824	.31	
19		INDA	11/28/89	0903	.31	
20		QC70050G	11/28/89	0942	1.91	
21		CA1980G	11/28/89	1022	.31	
22		QC70055G	11/28/89	1101	.31	
23		CA2150G	11/28/89	1140	.31	
24		EVALB	11/28/89	1219	.41	
25		INDA	11/28/89	1259	.31	
26		INDB	11/28/89	1338	.31	
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						

\* Values outside of QC limits (2.0% for packed columns,  
 0.3% for capillary columns)

717

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: HA

GC Column ID: 2250/2401

DATE(S) OF FROM: 11/15/89	DATE OF ANALYSIS 11/15/89
ANALYSIS TO: 11/15/89	TIME OF ANALYSIS 1955
TIME(S) OF FROM: 0143	EPA SAMPLE NO.
ANALYSIS TO: 1049	(STANDARD) INDA

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	4.65	4.26	5.04	3400980				
beta-BHC	7.15	6.58	7.72	1349120				
delta-BHC	8.23	7.63	8.83	1827840				
gamma-BHC	6.05	5.67	6.43	2588160	6.25	2894080	Y	11.8
Heptachlor	7.43	7.00	7.87	2462720	7.67	2759680	Y	12.1
Aldrin	8.88	8.40	9.37	1885440	9.13	2097920	Y	11.3
Hept. epoxide	12.65	12.11	13.19	1633280	12.93	1859840	Y	13.9
Endosulfan I	14.88	14.32	15.45	1483520	15.18	1644800	Y	10.9
Dieldrin	17.00	16.39	17.61	1288320	17.33	1438080	Y	11.6
4,4'-DDE	16.60	15.86	17.34	1342720				
Endrin	19.13	18.36	19.91	534400				
Endosulfan II	21.20	20.57	21.83	1199360	21.53	1336330	Y	11.4
4,4'-DDD	21.10	20.36	21.84	1017600				
Endo.sulfate	26.57	25.72	27.42	899200				
4,4'-DDT	23.03	22.41	23.66	791680	23.37	908170	Y	14.7
Methoxychlor	30.85	30.01	31.69	350850	31.30	386180	Y	10.1
Endrin ketone	30.90	29.77	32.03	906880				
la. Chlordane	14.63	13.93	15.34	1608960				
lg. Chlordane	13.72	13.01	14.42	1649460				
Toxaphene	23.67	23.43	23.90	20352				
Aroclor-1016	7.45	7.38	7.52	348162				
Aroclor-1221	4.23	4.19	4.28	98048				
Aroclor-1232	4.27	4.22	4.31	88960				
Aroclor-1242	7.45	7.38	7.52	149248				
Aroclor-1248	13.08	12.95	13.21	107744				
Aroclor-1254	17.58	17.41	17.76	83264				
Aroclor-1260	22.77	22.54	22.99	96704				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: HA

GC Column ID: 2250/2401

DATE(S) OF FROM: 11/15/89	DATE OF ANALYSIS 11/16/89
ANALYSIS TO: 11/15/89	TIME OF ANALYSIS 0420
TIME(S) OF FROM: 0143	EPA SAMPLE NO.
ANALYSIS TO: 1049	(STANDARD) INDA

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	4.65	4.26	5.04	3400980				
beta-BHC	7.15	6.58	7.72	1349120				
delta-BHC	8.23	7.63	8.83	1827840				
gamma-BHC	6.05	5.67	6.43	2588160	6.28	2776320	Y	7.3
Heptachlor	7.43	7.00	7.87	2462720	7.70	2638080	Y	7.1
Aldrin	8.88	8.40	9.37	1885440	9.18	2004480	Y	6.3
Hept. epoxide	12.65	12.11	13.19	1633280	12.98	1816320	Y	11.2
Endosulfan I	14.88	14.32	15.45	1483520	15.23	1584640	Y	6.8
Dieldrin	17.00	16.39	17.61	1288320	17.37	1387520	Y	7.7
4,4'-DDE	16.60	15.86	17.34	1342720				
Endrin	19.13	18.36	19.91	534400				
Endosulfan II	21.20	20.57	21.83	1199360	21.58	1290890	Y	7.6
4,4'-DDD	21.10	20.36	21.84	1017600				
Endo.sulfate	26.57	25.72	27.42	899200				
4,4'-DDT	23.03	22.41	23.66	791680	23.42	856970	Y	8.2
Methoxychlor	30.85	30.01	31.69	350850	31.37	367876	Y	4.9
Endrin ketone	30.90	29.77	32.03	906880				
alpha-Chlordane	14.63	13.93	15.34	1608960				
gamma-Chlordane	13.72	13.01	14.42	1649460				
Toxaphene	23.67	23.43	23.90	20352				
Aroclor-1016	7.45	7.38	7.52	348162				
Aroclor-1221	4.23	4.19	4.28	98048				
Aroclor-1232	4.27	4.22	4.31	88960				
Aroclor-1242	7.45	7.38	7.52	149248				
Aroclor-1248	13.08	12.95	13.21	107744				
Aroclor-1254	17.58	17.41	17.76	83264				
Aroclor-1260	22.77	22.54	22.99	96704				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D.

Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: HA

GC Column ID: 2250/2401

DATE(S) OF FROM: 11/15/89	DATE OF ANALYSIS 11/16/89
ANALYSIS TO: 11/15/89	TIME OF ANALYSIS 0506
TIME(S) OF FROM: 0143	EPA SAMPLE NO.
ANALYSIS TO: 1049	(STANDARD) INDB

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	4.65	4.26	5.04	3400980	4.83	3466260	Y	1.9
beta-BHC	7.15	6.58	7.72	1349120	7.42	1402880	Y	4.0
delta-BHC	8.23	7.63	8.83	1827840	8.52	1894400	Y	3.6
gamma-BHC	6.05	5.67	6.43	2588160				
Heptachlor	7.43	7.00	7.87	2462720				
Aldrin	8.88	8.40	9.37	1885440				
Hept. epoxide	12.65	12.11	13.19	1633280				
Endosulfan I	14.88	14.32	15.45	1483520				
Dieldrin	17.00	16.39	17.61	1288320				
4,4'-DDE	16.60	15.86	17.34	1342720	16.95	1417600	Y	5.6
Endrin	19.13	18.36	19.91	534400	19.50	549130	Y	2.8
Endosulfan II	21.20	20.57	21.83	1199360				
4,4'-DDD	21.10	20.36	21.84	1017600	21.45	1073290	Y	5.5
Endo.sulfate	26.57	25.72	27.42	899200	26.97	934410	Y	3.9
4,4'-DDT	23.03	22.41	23.66	791680				
Methoxychlor	30.85	30.01	31.69	350850				
Endrin ketone	30.90	29.77	32.03	906880	31.43	933770	Y	3.0
alpha-Chlordane	14.63	13.93	15.34	1608960	14.97	1696000	Y	5.4
gamma-Chlordane	13.72	13.01	14.42	1649460	14.05	1725440	Y	4.6
Toxaphene	23.67	23.43	23.90	20352				
Aroclor-1016	7.45	7.38	7.52	348162				
Aroclor-1221	4.23	4.19	4.28	98048				
Aroclor-1232	4.27	4.22	4.31	88960				
Aroclor-1242	7.45	7.38	7.52	149248				
Aroclor-1248	13.08	12.95	13.21	107744				
Aroclor-1254	17.58	17.41	17.76	83264				
Aroclor-1260	22.77	22.54	22.99	96704				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.



9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: JA

GC Column ID: 2250/2401

DATE(S) OF FROM: 11/07/89	DATE OF ANALYSIS 11/08/89
ANALYSIS TO: 11/07/89	TIME OF ANALYSIS 1117
TIME(S) OF FROM: 1630	EPA SAMPLE NO.
ANALYSIS TO: 2315	(STANDARD) INDA

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	5.33	5.30	5.37	5725461				
beta-BHC	8.43	8.40	8.47	2091520				
delta-BHC	9.77	9.73	9.80	2933781				
gamma-BHC	7.05	7.02	7.08	4193301	7.03	4459541	Y	6.3
Heptachlor	8.80	8.77	8.83	3737621	8.78	3933461	Y	5.2
Aldrin	10.60	10.55	10.65	3197580	10.57	3389180	Y	6.0
Hept. epoxide	15.07	15.02	15.12	2711060	15.03	2824980	Y	4.2
Endosulfan I	17.65	17.62	17.68	2430720	17.63	2542080	Y	4.6
Dieldrin	20.08	20.03	20.13	2092160	20.05	2190690	Y	4.7
4,4'-DDE	19.70	19.66	19.74	2192650				
Endrin	22.40	22.33	22.47	1216640				
Endosulfan II	24.78	24.73	24.83	1895690	24.75	1965450	Y	3.7
4,4'-DDD	24.67	24.60	24.74	1671690				
Endo. sulfate	30.48	30.38	30.59	856320				
4,4'-DDT	26.85	26.80	26.90	994560	26.82	991360	Y	.3
Methoxychlor	36.28	36.18	36.39	386690	36.22	386562	Y	.0
Endrin ketone	35.77	35.63	35.91	1266560				
alpha-Chlordane	17.38	17.31	17.45	2580480				
gamma-Chlordane	16.33	16.26	16.40	2630400				
Toxaphene	27.28	27.01	27.56	29120				
Aroclor-1016	8.88	8.79	8.97	489474				
Aroclor-1221	4.90	4.85	4.95	150656				
Aroclor-1232	8.88	8.79	8.97	138368				
Aroclor-1242	8.87	8.78	8.96	213632				
Aroclor-1248	15.53	15.38	15.69	139008				
Aroclor-1254	20.68	20.48	20.89	117696				
Aroclor-1260	26.60	26.33	26.87	134821				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: JA

GC Column ID: 2250/2401

DATE(S) OF FROM: 11/07/89	DATE OF ANALYSIS 11/08/89
ANALYSIS TO: 11/07/89	TIME OF ANALYSIS 1719
TIME(S) OF FROM: 1630	EPA SAMPLE NO.
ANALYSIS TO: 2315	(STANDARD) INDA

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	5.33	5.30	5.37	5725461				
beta-BHC	8.43	8.40	8.47	2091520				
delta-BHC	9.77	9.73	9.80	2933781				
gamma-BHC	7.05	7.02	7.08	4193301	7.03	4547861	Y	8.5
Heptachlor	8.80	8.77	8.83	3737621	8.80	3989781	Y	6.7
Aldrin	10.60	10.55	10.65	3197580	10.58	3477360	Y	8.7
Hept. epoxide	15.07	15.02	15.12	2711060	15.05	2693140	Y	.7
Endosulfan I	17.65	17.62	17.68	2430720	17.65	2613781	Y	7.5
Dieldrin	20.08	20.03	20.13	2092160	20.07	2249610	Y	7.5
4,4'-DDE	19.70	19.66	19.74	2192650				
Endrin	22.40	22.33	22.47	1216640				
Endosulfan II	24.78	24.73	24.83	1895690	24.77	2003850	Y	5.7
4,4'-DDD	24.67	24.60	24.74	1671690				
Endo.sulfate	30.48	30.38	30.59	856320				
4,4'-DDT	26.85	26.80	26.90	994560	26.83	1039360	Y	4.5
Methoxychlor	36.28	36.18	36.39	386690	36.23	390402	Y	1.0
Endrin ketone	35.77	35.63	35.91	1266560				
alpha-Chlordane	17.38	17.31	17.45	2580480				
gamma-Chlordane	16.33	16.26	16.40	2630400				
Toxaphene	27.28	27.01	27.56	29120				
Aroclor-1016	8.88	8.79	8.97	489474				
Aroclor-1221	4.90	4.85	4.95	150656				
Aroclor-1232	8.88	8.79	8.97	138368				
Aroclor-1242	8.87	8.78	8.96	213632				
Aroclor-1248	15.53	15.38	15.69	139008				
Aroclor-1254	20.68	20.48	20.89	117696				
Aroclor-1260	26.60	26.33	26.87	134821				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: JA

GC Column ID: 2250/2401

DATE(S) OF FROM: 11/07/89	DATE OF ANALYSIS 11/08/89
ANALYSIS TO: 11/07/89	TIME OF ANALYSIS 1804
TIME(S) OF FROM: 1630	EPA SAMPLE NO.
ANALYSIS TO: 2315	(STANDARD) INDB

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	5.33	5.30	5.37	5725461	5.32	6278441	Y	9.7
beta-BHC	8.43	8.40	8.47	2091520	8.42	2246400	Y	7.4
delta-BHC	9.77	9.73	9.80	2933781	9.75	3189781	Y	8.7
gamma-BHC	7.05	7.02	7.08	4193301				
Heptachlor	8.80	8.77	8.83	3737621				
Aldrin	10.60	10.55	10.65	3197580				
Hept. epoxide	15.07	15.02	15.12	2711060				
Endosulfan I	17.65	17.62	17.68	2430720				
Dieldrin	20.08	20.03	20.13	2092160				
4,4'-DDE	19.70	19.66	19.74	2192650	19.68	2359690	Y	7.6
Endrin	22.40	22.33	22.47	1216640	22.37	1235850	Y	1.6
Endosulfan II	24.78	24.73	24.83	1895690				
4,4'-DDD	24.67	24.60	24.74	1671690	24.63	1782410	Y	6.6
Endo. sulfate	30.48	30.38	30.59	856320	30.43	859520	Y	.4
4,4'-DDT	26.85	26.80	26.90	994560				
Methoxychlor	36.28	36.18	36.39	386690				
Endrin ketone	35.77	35.63	35.91	1266560	35.70	1301130	Y	2.7
la. Chlordane	17.38	17.31	17.45	2580480	17.35	2768660	Y	7.3
lg. Chlordane	16.33	16.26	16.40	2630400	16.30	2846740	Y	8.2
Toxaphene	27.28	27.01	27.56	29120				
Aroclor-1016	8.88	8.79	8.97	489474				
Aroclor-1221	4.90	4.85	4.95	150656				
Aroclor-1232	8.88	8.79	8.97	138368				
Aroclor-1242	8.87	8.78	8.96	213632				
Aroclor-1248	15.53	15.38	15.69	139008				
Aroclor-1254	20.68	20.48	20.89	117696				
Aroclor-1260	26.60	26.33	26.87	134821				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP2100

DATE(S) OF FROM: 11/20/89	DATE OF ANALYSIS 11/21/89
ANALYSIS TO: 11/20/89	TIME OF ANALYSIS 0513
TIME(S) OF FROM: 2320	EPA SAMPLE NO.
ANALYSIS TO: 2356	(STANDARD) INDA

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.68	2.65	2.72	1605120				
beta-BHC	2.92	2.89	2.95	1469080				
delta-BHC	3.35	3.31	3.39	1016320				
gamma-BHC	3.25	3.22	3.28	1605120	3.25	1667840	N	3.9
Heptachlor	5.67	5.63	5.70	1818880	5.68	1792000	N	1.5
Aldrin	7.12	7.05	7.19	1249280	7.12	1268880	N	1.6
Hept. epoxide	8.75	8.66	8.84	1131520	8.75	1130240	N	.1
Endosulfan I	10.62	10.51	10.72	867840	10.62	872960	N	.6
Dieldrin	12.08	11.96	12.20	876160	12.08	887680	N	1.3
4,4'-DDE	12.38	12.35	12.42	923520				
Endrin	13.08	13.05	13.12	609690				
Endosulfan II	13.32	13.18	13.45	707200	13.32	722560	N	2.2
4,4'-DDD	14.60	14.45	14.75	552320				
Endo. sulfate	15.93	15.77	16.09	600960				
4,4'-DDT	17.38	17.35	17.42	616320	17.40	651520	N	5.7
Methoxychlor	21.82	21.60	22.03	552450	21.82	580996	N	5.2
Endrin ketone	18.52	18.48	18.55	557440				
a. Chlordane	10.83	10.80	10.87	1205760				
g. Chlordane	9.90	9.86	9.94	1297920				
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP2100

DATE(S) OF FROM: 11/20/89	DATE OF ANALYSIS 11/21/89
ANALYSIS TO: 11/20/89	TIME OF ANALYSIS 0548
TIME(S) OF FROM: 2320	EPA SAMPLE NO.
ANALYSIS TO: 2356	(STANDARD) INDB

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.68	2.65	2.72	1605120	2.70	1610240	N	.3
beta-BHC	2.92	2.89	2.95	1469080	2.92	1490440	N	1.5
delta-BHC	3.35	3.31	3.39	1016320	3.37	1022720	N	.6
gamma-BHC	3.25	3.22	3.28	1605120				
Heptachlor	5.67	5.63	5.70	1818880				
Aldrin	7.12	7.05	7.19	1249280				
Hept. epoxide	8.75	8.66	8.84	1131520				
Endosulfan I	10.62	10.51	10.72	867840				
Dieldrin	12.08	11.96	12.20	876160				
4,4'-DDE	12.38	12.35	12.42	923520	12.40	919680	N	.4
Endrin	13.08	13.05	13.12	609690	13.10	625290	N	2.6
Endosulfan II	13.32	13.18	13.45	707200				
4,4'-DDD	14.60	14.45	14.75	552320	14.60	533760	N	3.4
Endo. sulfate	15.93	15.77	16.09	600960	15.93	604160	N	.5
4,4'-DDT	17.38	17.35	17.42	616320				
Methoxychlor	21.82	21.60	22.03	552450				
Endrin ketone	18.52	18.48	18.55	557440	18.53	555520	N	.3
o. Chlordane	10.83	10.80	10.87	1205760	10.85	1180160	N	2.1
p. Chlordane	9.90	9.86	9.94	1297920	9.92	1271040	N	2.1
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP-2100

DATE(S) OF FROM: 11/16/89	DATE OF ANALYSIS 11/17/89
ANALYSIS TO: 11/16/89	TIME OF ANALYSIS 0223
TIME(S) OF FROM: 1328	EPA SAMPLE NO.
ANALYSIS TO: 1920	(STANDARD) INDA

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.63	2.56	2.70	1559040				
beta-BHC	2.95	2.78	2.92	1416620				
delta-BHC	3.28	3.21	3.35	988160				
gamma-BHC	3.18	3.13	3.24	1543680	3.22	1451520	Y	6.0
Heptachlor	5.55	5.45	5.65	1478400	5.60	1452800	Y	1.7
Aldrin	6.97	6.85	7.08	1107200	7.03	1090560	Y	1.5
Hept. epoxide	8.58	8.45	8.72	939520	8.65	922880	Y	1.8
Endosulfan I	10.43	10.30	10.57	725760	10.50	718080	Y	1.1
Dieldrin	11.88	11.72	12.04	740480	11.97	723840	Y	2.2
4,4'-DDE	12.18	11.97	12.40	824960				
Endrin	12.88	12.67	13.10	562560				
Endosulfan II	13.10	12.94	13.26	597760	13.18	582400	Y	2.5
4,4'-DDD	14.38	14.17	14.60	496000				
Endo. sulfate	15.70	15.45	15.95	488960				
4,4'-DDT	17.17	17.01	17.33	556160	17.25	551040	Y	1.7
Methoxychlor	21.57	21.39	21.75	516994	21.65	510850	Y	1.1
Endrin ketone	18.27	17.98	18.55	513280				
alpha-Chlordane	10.65	10.44	10.86	1024000				
gamma-Chlordane	9.72	9.50	9.93	1096960				
Toxaphene	13.78	13.65	13.92	18688				
Aroclor-1016	4.88	4.83	4.93	393346				
Aroclor-1221	2.73	2.71	2.76	122004				
Aroclor-1232	4.87	4.82	4.92	88960				
Aroclor-1242	4.87	4.82	4.92	145280				
Aroclor-1248	8.98	8.89	9.07	105472				
Aroclor-1254	10.57	10.46	10.67	75145				
Aroclor-1260	15.90	15.74	16.06	85632				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP-2100

DATE(S) OF FROM: 11/16/89	DATE OF ANALYSIS 11/17/89
ANALYSIS TO: 11/16/89	TIME OF ANALYSIS 0519
TIME(S) OF FROM: 1328	EPA SAMPLE NO.
ANALYSIS TO: 1920	(STANDARD) INDA

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.63	2.56	2.70	1559040				
beta-BHC	2.85	2.78	2.92	1416620				
delta-BHC	3.28	3.21	3.35	988160				
gamma-BHC	3.18	3.13	3.24	1543680	3.22	1433600	Y	7.1
Heptachlor	5.55	5.45	5.65	1478400	5.62	1438720	Y	2.7
Aldrin	6.97	6.85	7.08	1107200	7.03	1080320	Y	2.4
Hept. epoxide	8.58	8.45	8.72	939520	8.67	919040	Y	2.2
Endosulfan I	10.43	10.30	10.57	725760	10.52	712960	Y	1.8
Dieldrin	11.88	11.72	12.04	740480	11.98	719360	Y	2.9
4,4'-DDE	12.18	11.97	12.40	824960				
Endrin	12.88	12.67	13.10	562560				
Endosulfan II	13.10	12.94	13.26	597760	13.20	577280	Y	3.4
4,4'-DDD	14.38	14.17	14.60	496000				
Endo. sulfate	15.70	15.45	15.95	488960				
4,4'-DDT	17.17	17.01	17.33	556160	17.27	541440	Y	2.6
Methoxychlor	21.57	21.39	21.75	516994	21.68	507906	Y	1.8
Endrin ketone	18.27	17.98	18.55	513280				
la. Chlordane	10.65	10.44	10.86	1024000				
lg. Chlordane	9.72	9.50	9.93	1096960				
Toxaphene	13.78	13.65	13.92	18688				
Aroclor-1016	4.88	4.83	4.93	393346				
Aroclor-1221	2.73	2.71	2.76	122004				
Aroclor-1232	4.87	4.82	4.92	88960				
Aroclor-1242	4.87	4.82	4.92	145280				
Aroclor-1248	8.98	8.89	9.07	105472				
Aroclor-1254	10.57	10.46	10.67	75145				
Aroclor-1260	15.90	15.74	16.06	85632				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP-2100

DATE(S) OF FROM: 11/16/89	DATE OF ANALYSIS 11/17/89
ANALYSIS TO: 11/16/89	TIME OF ANALYSIS 0554
TIME(S) OF FROM: 1328	EPA SAMPLE NO.
ANALYSIS TO: 1920	(STANDARD) INDB

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.63	2.56	2.70	1559040	2.67	1446400	Y	7.2
beta-BHC	2.85	2.78	2.92	1416620	2.88	1359020	Y	4.1
delta-BHC	3.28	3.21	3.35	988160	3.32	933120	Y	5.6
gamma-BHC	3.18	3.13	3.24	1543680				
Heptachlor	5.55	5.45	5.65	1478400				
Aldrin	6.97	6.85	7.08	1107200				
Hept. epoxide	8.58	8.45	8.72	939520				
Endosulfan I	10.43	10.30	10.57	725760				
Dieldrin	11.88	11.72	12.04	740480				
4,4'-DDE	12.18	11.97	12.40	824960	12.28	812800	Y	1.5
Endrin	12.88	12.67	13.10	562560	12.98	529280	Y	5.9
Endosulfan II	13.10	12.94	13.26	597760				
4,4'-DDD	14.38	14.17	14.60	496000	14.48	496000	Y	0.0
Endo. sulfate	15.70	15.45	15.95	488960	15.82	474880	Y	2.9
4,4'-DDT	17.17	17.01	17.33	556160				
Methoxychlor	21.57	21.39	21.75	516994				
Endrin ketone	18.27	17.98	18.55	513280	18.40	503040	Y	2.0
alpha-Chlordane	10.65	10.44	10.86	1024000	10.75	1020160	Y	.4
gamma-Chlordane	9.72	9.50	9.93	1096960	9.82	1090560	Y	.6
Toxaphene	13.78	13.65	13.92	18688				
Aroclor-1016	4.88	4.83	4.93	393346				
Aroclor-1221	2.73	2.71	2.76	122004				
Aroclor-1232	4.87	4.82	4.92	88960				
Aroclor-1242	4.87	4.82	4.92	145280				
Aroclor-1248	8.98	8.89	9.07	105472				
Aroclor-1254	10.57	10.46	10.67	75145				
Aroclor-1260	15.90	15.74	16.06	85632				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.



9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP-2100

DATE(S) OF FROM: 11/27/89	DATE OF ANALYSIS 11/28/89
ANALYSIS TO: 11/27/89	TIME OF ANALYSIS 0903
TIME(S) OF FROM: 2136	EPA SAMPLE NO.
ANALYSIS TO: 2215	(STANDARD) INDA

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.55	2.51	2.59	1335040				
beta-BHC	2.75	2.72	2.78	1227200				
delta-BHC	3.17	3.13	3.20	857020				
gamma-BHC	3.08	3.03	3.13	1296640	3.07	1440000	N	11.1
Heptachlor	5.37	5.29	5.44	1387520	5.33	1354240	N	2.4
Aldrin	6.77	6.66	6.87	976220	6.72	997380	N	2.2
Hept. epoxide	8.33	8.25	8.42	888320	8.28	878080	N	1.2
Endosulfan I	10.15	10.05	10.25	675840	10.10	669440	N	.9
Dieldrin	11.58	11.48	11.69	669440	11.53	666880	N	.4
4,4'-DDE	11.88	11.81	11.95	735360				
Endrin	12.57	12.46	12.67	554880				
Endosulfan II	12.80	12.67	12.93	542720	12.73	542080	N	.1
4,4'-DDD	14.07	13.96	14.17	432000				
Endo. sulfate	15.37	15.26	15.47	486400				
4,4'-DDT	16.83	16.73	16.94	466560	16.78	465280	N	.3
Methoxychlor	21.17	21.05	21.28	430722	21.10	420866	N	2.3
Endrin ketone	17.90	17.79	18.01	451840				
alpha-Chlordane	10.37	10.30	10.44	945920				
gamma-Chlordane	9.45	9.38	9.52	1008640				
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP-2100

DATE(S) OF FROM: 11/27/89	DATE OF ANALYSIS 11/28/89
ANALYSIS TO: 11/27/89	TIME OF ANALYSIS 1259
TIME(S) OF FROM: 2136	EPA SAMPLE NO.
ANALYSIS TO: 2215	(STANDARD) INDA

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT (Y/N)	%D
		FROM	TO					
alpha-BHC	2.55	2.51	2.59	1335040				
beta-BHC	2.75	2.72	2.78	1227200				
delta-BHC	3.17	3.13	3.20	857020				
gamma-BHC	3.08	3.03	3.13	1296640	3.05	1441280	N	11.2
Heptachlor	5.37	5.29	5.44	1387520	5.32	1411840	N	1.8
Aldrin	6.77	6.66	6.87	976220	6.70	1013220	N	3.8
Hept. epoxide	8.33	8.25	8.42	888320	8.28	915200	N	3.0
Endosulfan I	10.15	10.05	10.25	675840	10.08	679680	N	.6
Dieldrin	11.58	11.48	11.69	669440	11.52	684160	N	2.2
4,4'-DDE	11.88	11.81	11.95	735360				
Endrin	12.57	12.46	12.67	554880				
Endosulfan II	12.80	12.67	12.93	542720	12.72	556160	N	2.5
4,4'-DDD	14.07	13.96	14.17	432000				
Endo.sulfate	15.37	15.26	15.47	486400				
4,4'-DDT	16.83	16.73	16.94	466560	16.77	481920	N	3.3
Methoxychlor	21.17	21.05	21.28	430722	21.10	438658	N	1.8
Endrin ketone	17.90	17.79	18.01	451840				
a. Chlordane	10.37	10.30	10.44	945920				
g. Chlordane	9.45	9.38	9.52	1008640				
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9  
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: KB

GC Column ID: 3%SP-2100

DATE(S) OF FROM: 11/27/89	DATE OF ANALYSIS 11/28/89
ANALYSIS TO: 11/27/89	TIME OF ANALYSIS 1338
TIME(S) OF FROM: 2136	EPA SAMPLE NO.
ANALYSIS TO: 2215	(STANDARD) INDB

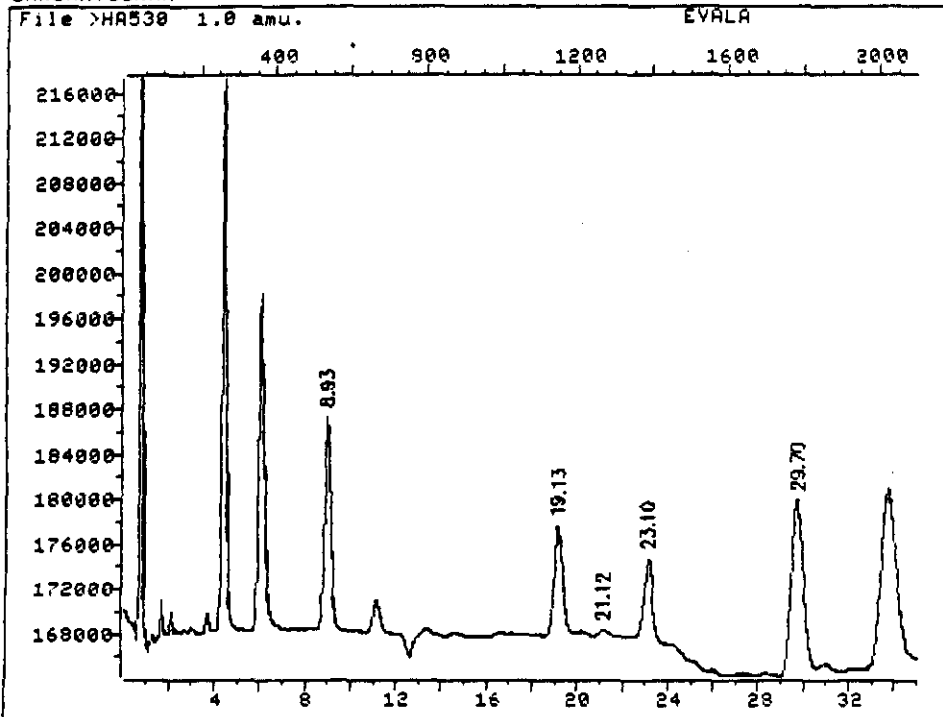
COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.55	2.51	2.59	1335040	2.53	1505280	N	12.8
beta-BHC	2.75	2.72	2.78	1227200	2.75	1336380	N	8.9
delta-BHC	3.17	3.13	3.20	857020	3.17	946440	N	10.4
gamma-BHC	3.08	3.03	3.13	1296640				
Heptachlor	5.37	5.29	5.44	1387520				
Aldrin	6.77	6.66	6.87	976220				
Hept. epoxide	8.33	8.25	8.42	888320				
Endosulfan I	10.15	10.05	10.25	675840				
Dieldrin	11.58	11.48	11.69	669440				
4,4'-ODE	11.88	11.81	11.95	735360	11.85	761600	N	3.6
Endrin	12.57	12.46	12.67	554880	12.52	604800	N	9.0
Endosulfan II	12.80	12.67	12.93	542720				
4,4'-DDD	14.07	13.96	14.17	432000	14.02	435200	N	.7
Endo. sulfate	15.37	15.26	15.47	486400	15.32	508800	N	4.6
4,4'-DDT	16.83	16.73	16.94	466560				
Methoxychlor	21.17	21.05	21.28	430722				
Endrin ketone	17.90	17.79	18.01	451840	17.85	466560	N	3.3
alpha-Chlordane	10.37	10.30	10.44	945920	10.33	957440	N	1.2
gamma-Chlordane	9.45	9.38	9.52	1008640	9.42	1027840	N	1.9
Toxaphene								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.  
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

CHROMATOGRAM



Data File: >HA530::U4  
Name:  
Misc: EVALA

Quant Output File: ^HA530::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 13:19  
Injected at: 891114 23:26

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA530::AQ  
 Data File: >HA530::U4  
 Name:  
 Misc: EUALA

Quant Rev: 7      Quant Time: 891115 13:19  
 Injected at: 891114 23:26  
 Dilution Factor: 1.00000  
 Instrument ID: HA

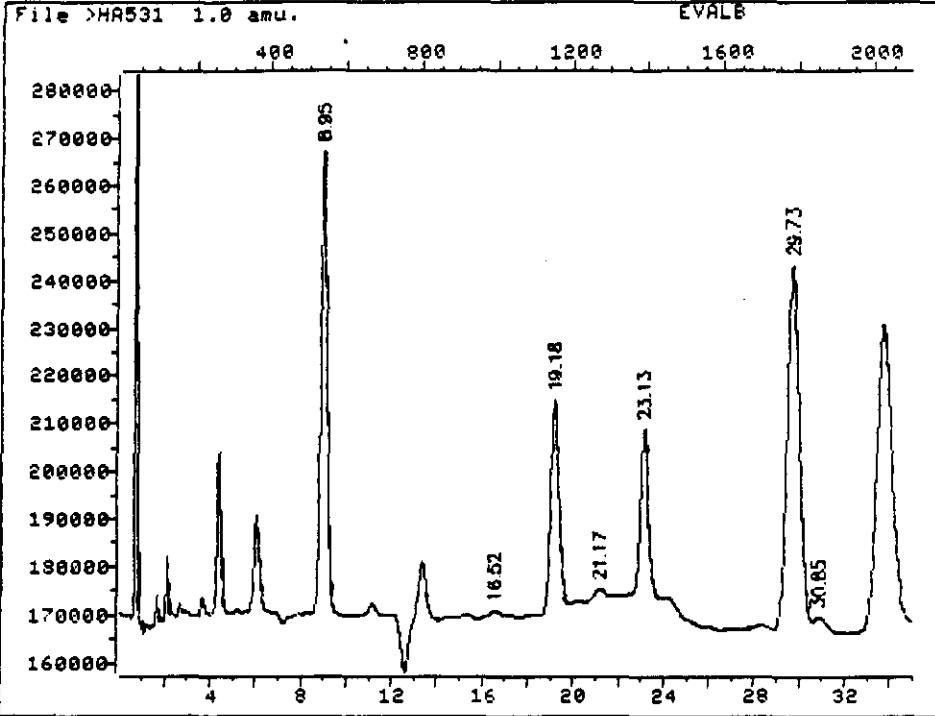
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	8.93	534	18944	.00502	UG/ML	100
13) #Endrin	19.13	1146	9728	.00910	UG/ML	100
14) #4,4'-DDD	21.12	1265	512	.000252	UG/ML	100
16) #4,4'-DDT	23.10	1384	7424	.00469	UG/ML	100
19) #Dibutylchlorodate	29.70	1780	15617	.0101	UG/ML	100

*nd* 11/27/89

# Compound uses ESTD

CHROMATOGRAM



Data File: >HA531::U4  
Name:  
Misc: EVALB

Quant Output File: ^HA531::AQ  
Instrument ID: HA

Id File: I0501P::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 13:21  
Injected at: 891115 00:12

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA531::AQ  
 Data File: >HA531::U4  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891115 13:21  
 Injected at: 891115 00:12  
 Dilution Factor: 1.00000  
 Instrument ID: HA

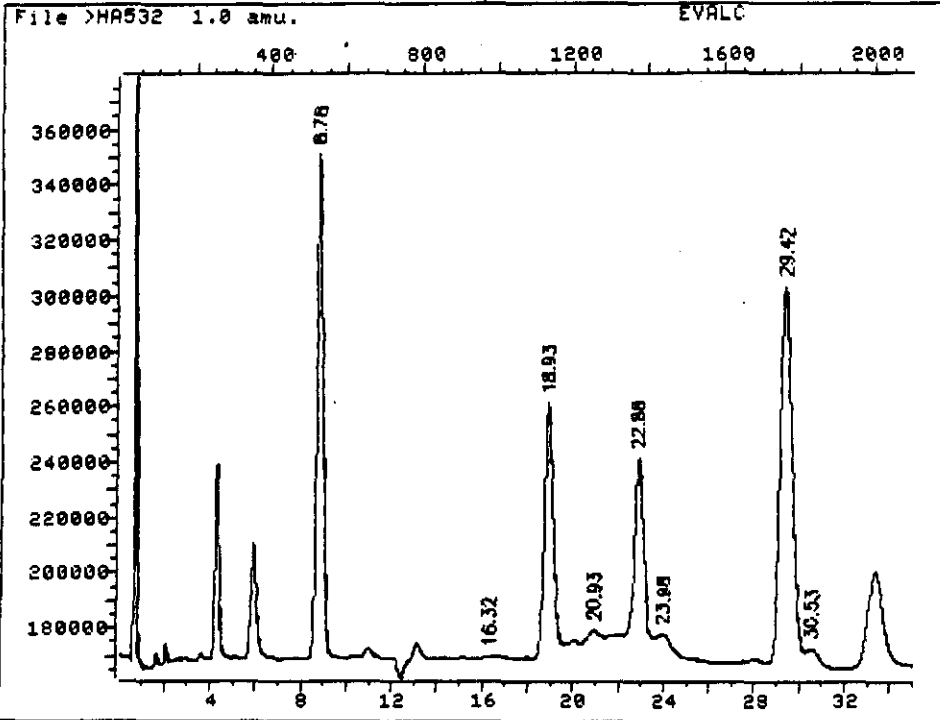
ID File: 10501P::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	8.95	535	97280	.0258	UG/ML	100
11) #4,4'-DDE	16.52	989	1728	.000643	UG/ML	100
13) #Endrin	19.18	1149	45056	.0422	UG/ML	100
14) #4,4'-DDD	21.17	1268	2752	.00135	UG/ML	100
16) #4,4'-DDT	23.13	1386	35392	.0224	UG/ML	100
19) #Dibutylchlorodate	29.73	1782	76224	.0493	UG/ML	100
20) #Endrin ketone	30.85	1849	768	.000423	UG/ML	100

11/27/89

# Compound uses ESTD

CHROMATOGRAM



Data File: >HA532::U4  
Name:  
Misc: EVALC

Quant Output File: ^HA532::AQ  
Instrument ID: HA

Id File: I0501P::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 13:23  
Injected at: 891115 00:57



QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA532::AQ  
 Data File: >HA532::U4  
 Name:  
 Misc: EVALC

Quant Rev: 7      Quant Time: 891115 13:23  
 Injected at: 891115 00:57  
 Dilution Factor: 1.00000  
 Instrument ID: HA

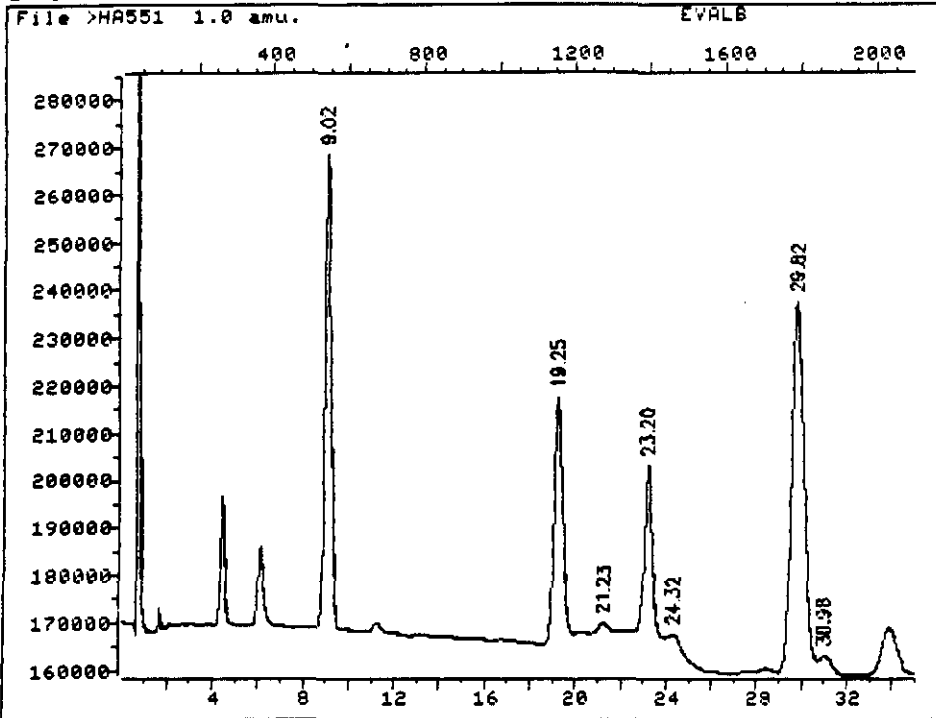
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	8.78	525	182209	.0483	UG/ML	100
11) #4,4'-DDE	16.32	977	960	.000357	UG/ML	100
13) #Endrin	18.93	1134	92096	.0862	UG/ML	100
14) #4,4'-DDD	20.93	1254	4352	.00214	UG/ML	100
16) #4,4'-DDT	22.88	1371	65152	.0411	UG/ML	100
17) #Endrin aldehyde	23.98	1437	9216	.00777	UG/ML	100
19) #Dibutylchloroendate	29.42	1763	136000	.0879	UG/ML	100
20) #Endrin ketone	30.53	1830	6912	.00381	UG/ML	100

*md 11/27/89*

# Compound uses ESTD

CHROMATOGRAM



Data File: >HA551::U4  
Name:  
Misc: EVALB

Quant Output File: ^HA551::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891115 16:06  
Injected at: 891115 15:22

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA551::AQ  
 Data File: >HA551::U4  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891115 16:06  
 Injected at: 891115 15:22  
 Dilution Factor: 1.00000  
 Instrument ID: HA

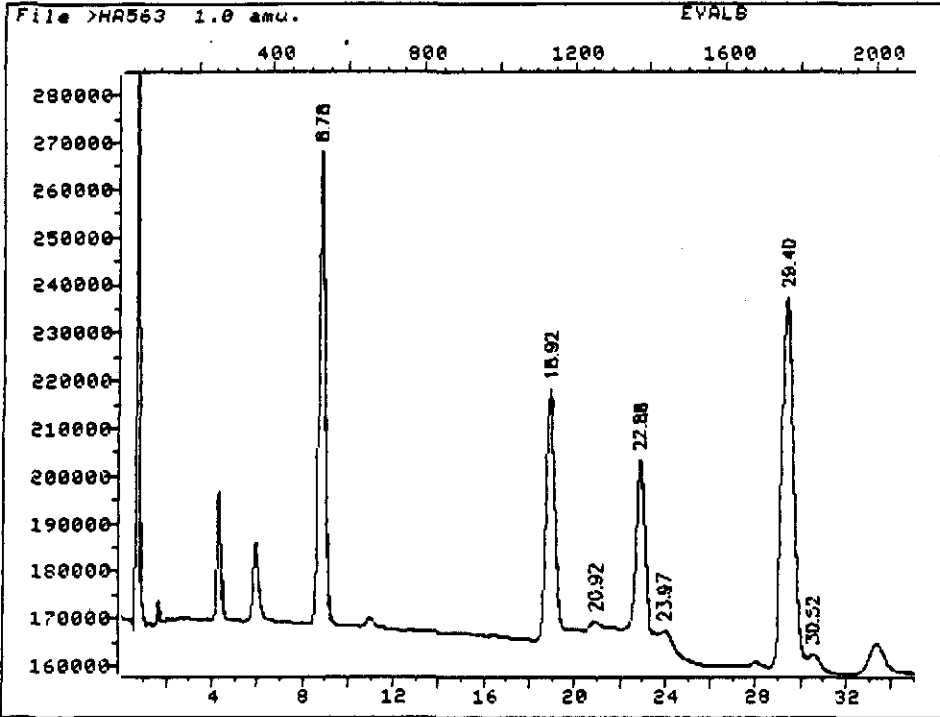
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	9.02	539	100160	.0266	UG/ML	100
13) #Endrin	19.25	1153	52096	.0487	UG/ML	100
14) #4,4'-DDD	21.23	1272	2176	.00107	UG/ML	100
16) #4,4'-DDT	23.20	1390	36224	.0229	UG/ML	100
17) #Endrin aldehyde	24.32	1457	7041	.00593	UG/ML	100
19) #Dibutylchlorendate	29.82	1787	77953	.0504	UG/ML	100
20) #Endrin ketone	30.98	1857	4096	.00226	UG/ML	100

11/27/89

# Compound uses ESTD

CHROMATOGRAM



Data File: >HA563::U4  
Name:  
Misc: EVALB

Quant Output File: ^HA563::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891116 01:16  
Injected at: 891116 00:32

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA563::AQ  
 Data File: >HA563::U4  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891116 01:16  
 Injected at: 891116 00:32  
 Dilution Factor: 1.00000  
 Instrument ID: HA

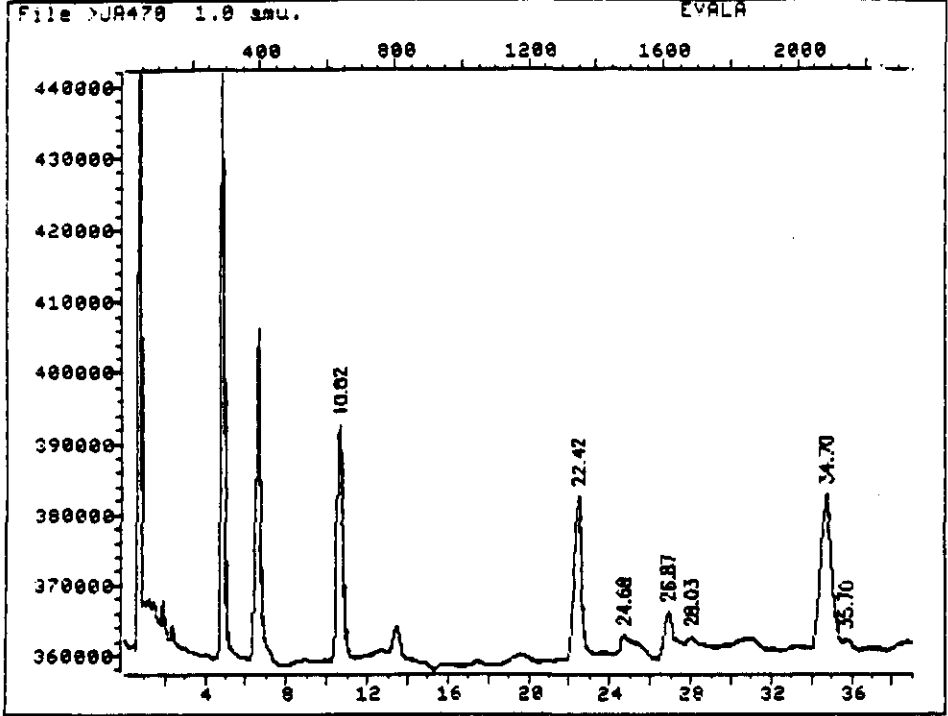
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	8.78	525	99520	.0264	UG/ML	100
13) #Endrin	18.92	1133	52800	.0494	UG/ML	100
14) #4,4'-DDD	20.92	1253	1920	.000943	UG/ML	100
16) #4,4'-DDT	22.88	1371	39233	.0248	UG/ML	100
17) #Endrin aldehyde	23.97	1436	6913	.00583	UG/ML	100
19) #Dibutylchlorodate	29.40	1762	78721	.0509	UG/ML	100
20) #Endrin ketone	30.52	1829	4096	.00226	UG/ML	100

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# Compound uses ESTD

CHROMATOGRAM



Data File: >JA470  
Name:  
Misc: EVALA

Quant Output File: ^JA470::U4  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:27  
Injected at: 891107 14:16

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA470::U4  
 Data File: >JA470::U4  
 Name:  
 Misc: EVALA

Quant Rev: 7      Quant Time: 891108 15:27  
                   Injected at: 891107 14:16  
 Dilution Factor: 1.00000  
 Instrument ID: JA

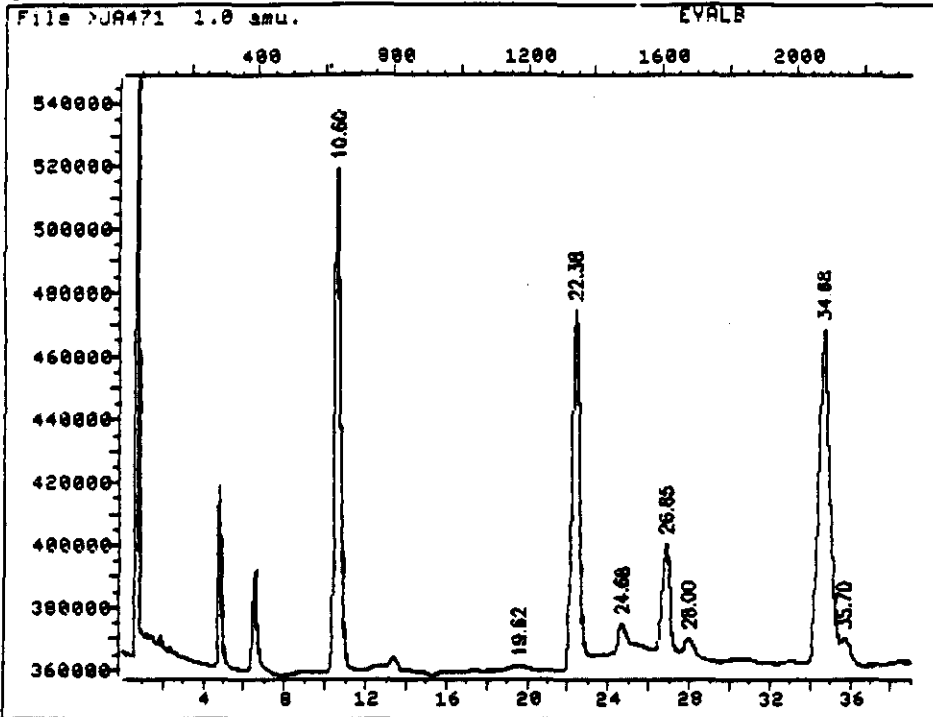
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	10.62	637	33280	.00566	UG/ML	100
13) #Endrin	22.42	1345	23040	.0117	UG/ML	100
14) #4,4'-DDD	24.68	1481	2688	.000881	UG/ML	100
16) #4,4'-DDT	26.87	1612	6720	.00861	UG/ML	100
17) #Endrin aldehyde	28.03	1682	1216	.000764	UG/ML	100
19) #Dibutylchloroendate	34.70	2082	21760	.0115	UG/ML	100
20) #Endrin ketone	35.70	2142	448	.000445	UG/ML	100

*nd 11/21/89*

\* Compound uses ESTD

CHROMATOGRAM



Data File: >JA471  
Name:  
Misc: EVALB

Quant Output File: ^JA471::U3  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:29  
Injected at: 891107 15:01



QUANT REPORT

Page 1

Operator ID: YY6148 .  
 Output File: ^JA471::U3  
 Data File: >JA471::U4  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891108 15:29  
 Injected at: 891107 15:01  
 Dilution Factor: 1.00000  
 Instrument ID: JA

ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	10.60	636	160257	.0273	UG/ML	100
11) #4,4'-DDE	19.62	1177	1307M	.000346	UG/ML	100
13) #Endrin	22.38	1343	114880	.0581	UG/ML	100
14) #4,4'-DDD	24.68	1481	7576M	.00248	UG/ML	100
16) #4,4'-DDT	26.85	1611	34624	.0217	UG/ML	100
17) #Endrin aldehyde	28.00	1680	6080	.00382	UG/ML	100
19) #Dibutylchloroendate	34.68	2081	106304	.0562	UG/ML	100
20) #Endrin ketone	35.70	2142	8320	.00826	UG/ML	100

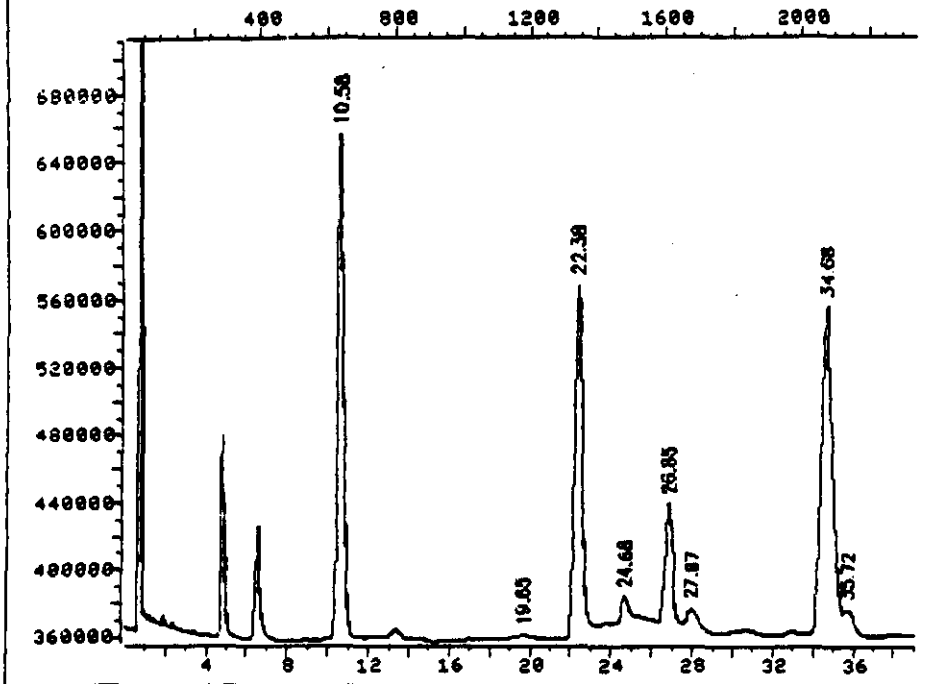
*MA 11/21/89*

# Compound uses ESTD

CHROMATOGRAM

File >JA472 1.0 au.

EVALC



Date File: >JA472

Quant Output File: ^JA472::U6

Name:

Instrument ID: JA

Misc: EVALC

Id File: 1048IP::US

Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ

Last Calibration: 891030 15:01

Operator ID: YY6148

Quant Time: 891108 15:31

Injected at: 891107 15:46

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA472::U6  
 Data File: >JA472::U4  
 Name:  
 Misc: EVALC

Quant Rev: 7      Quant Time: 891108 15:31  
                   Injected at: 891107 15:46  
 Dilution Factor: 1.00000  
 Instrument ID: JA

ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	10.58	635	298241	.0508	UG/ML	100
11) #4,4'-DDE	19.65	1179	704	.000186	UG/ML	100
13) #Endrin	22.38	1343	209537	.106	UG/ML	100
14) #4,4'-DDD	24.68	1481	16128	.00529	UG/ML	100
16) #4,4'-DDT	26.85	1611	71168	.0389	UG/ML	100
17) #Endrin aldehyde	27.97	1678	14528	.00913	UG/ML	100
19) #Dibutylchlorodate	34.68	2081	194113	.103	UG/ML	100
20) #Endrin ketone	35.72	2143	15808	.0157	UG/ML	100

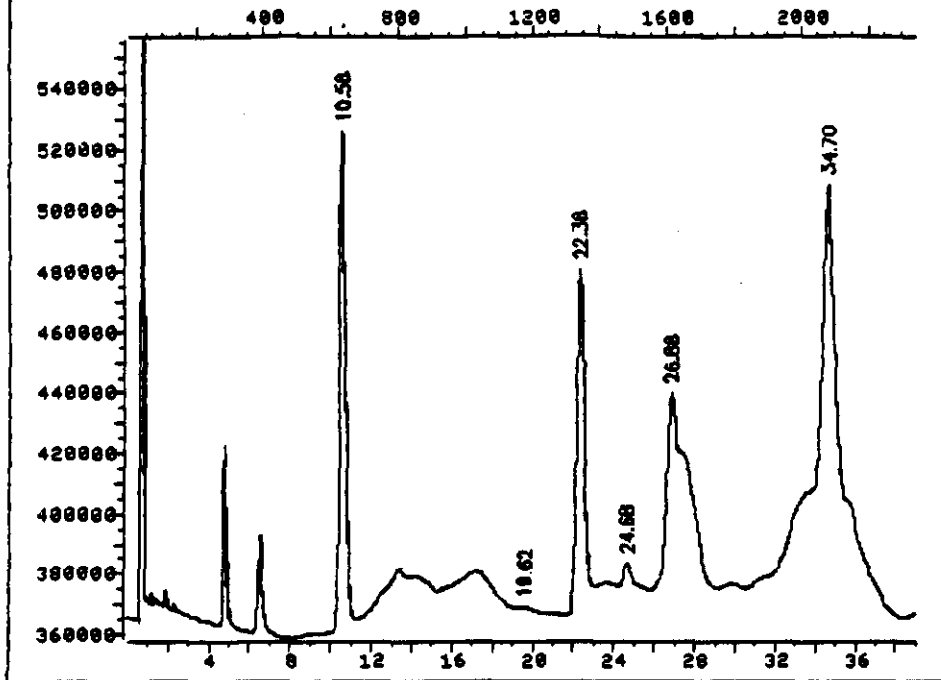
*Ed 11/21/89*

# Compound uses ESTD

CHROMATOGRAM

File >JA491 1.0 au.

EVALB



Data File: >JA491  
Name:  
Misc: EVALB

Quant Output File: ^JA491::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:33  
Injected at: 891108 03:44

QUANT REPORT

Page 1

Operator ID: YY614E  
 Output File: ^JA491::U6  
 Data File: >JA491::U4  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891108 15:33  
 Injected at: 891108 03:44  
 Dilution Factor: 1.00000  
 Instrument ID: JA

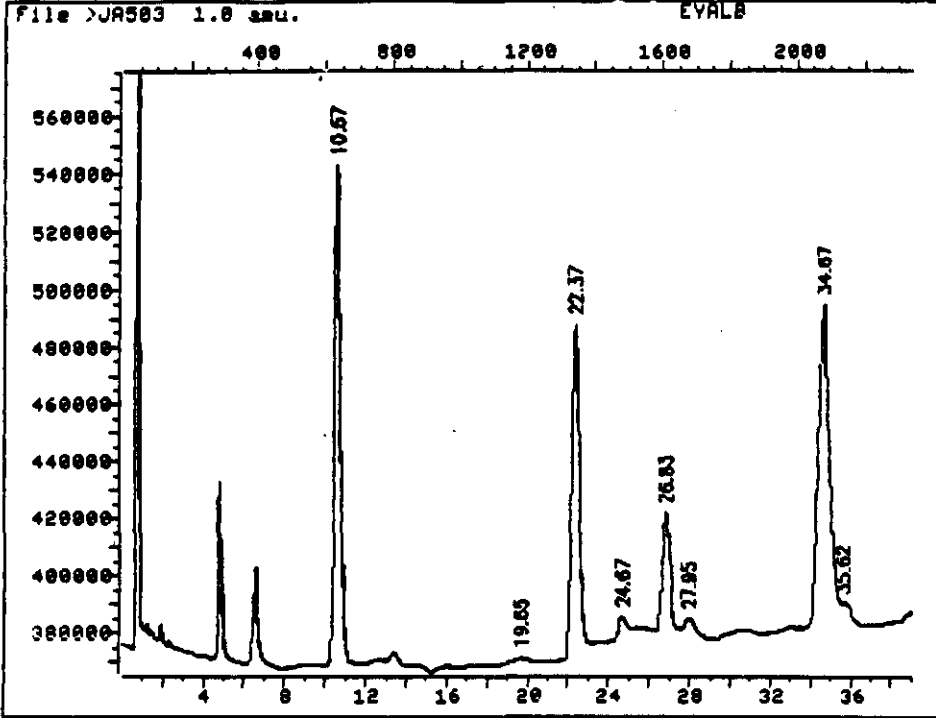
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	10.58	635	166081	.0283	UG/ML	100
11) #4,4'-DDE	19.62	1177	1728	.000457	UG/ML	100
13) #Endrin	22.38	1343	114048	.0577	UG/ML	100
14) #4,4'-DDD	24.68	1481	9152	.00300	UG/ML	100
16) #4,4'-DDT	26.88	1613	65216	.0361	UG/ML	100
19) #Dibutylchloroendate	34.70	2082	115073	.0609	UG/ML	100

*24 11/21/89*

\* Compound uses ESTD

CHROMATOGRAM



Data File: >JA503

Name:

Misc: EVALB

Quant Output File: ^JA503::U5

Instrument ID: JA

Id File: I048IP::US

Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ

Last Calibration: 891108 16:21

Operator ID: YY6148

Quant Time: 891108 17:15

Injected at: 891108 16:34

QUANT REPORT

Operator ID: YY6148  
 Output File: ^JA503::U5  
 Data File: >JA503::U4  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891108 17:15  
                   Injected at: 891108 16:34  
 Dilution Factor: 1.00000  
 Instrument ID: JA

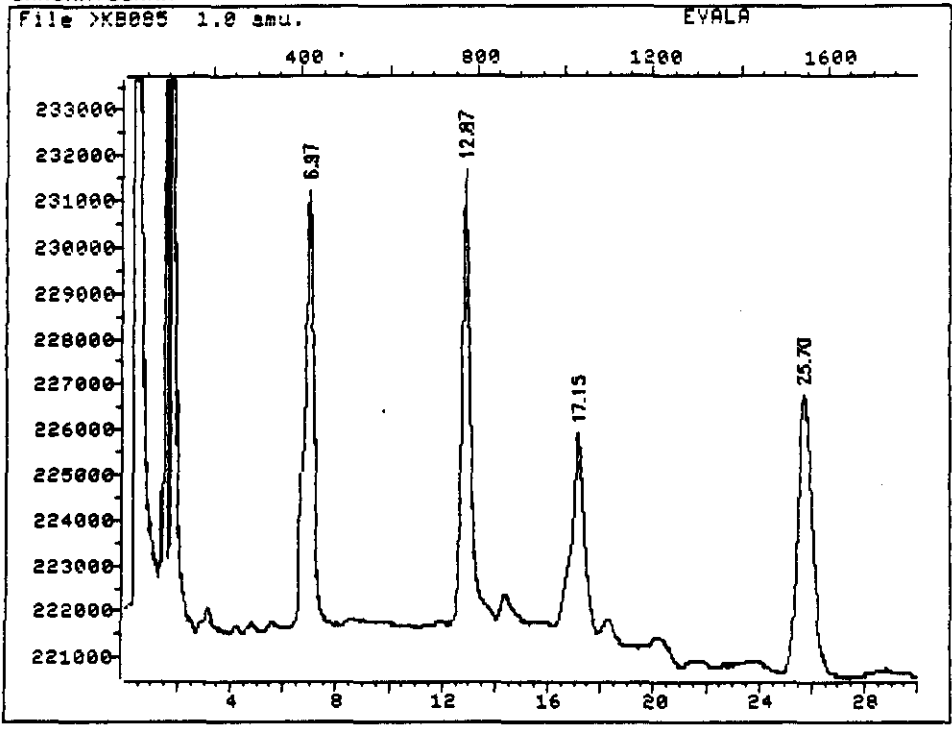
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891108 16:21

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	10.57	634	174593	.0273	UG/ML	100
11) #4,4'-DDE	19.65	1179	1856	.000423	UG/ML	100
13) #Endrin	22.37	1342	117568	.0483	UG/ML	100
14) #4,4'-DDD	24.67	1480	8384	.00251	UG/ML	100
16) #4,4'-DDT	26.83	1610	41216	.0207	UG/ML	100
17) #Endrin aldehyde	27.95	1677	6784	.00400	UG/ML	100
19) #Dibutylchlorodate	34.67	2080	113280	.0516	UG/ML	100
20) #Endrin ketone	35.62	2137	512	.000202	UG/ML	100

*rel 11/21/89*

\* Compound uses ESTD

CHROMATOGRAM



Data File: >KB085::U2  
Name:  
Misc: EVALA

Quant Output File: ^KB085::AQ  
Instrument ID: KA  
KB

Id File: 1049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 08:24

Operator ID: YY6148  
Quant Time: 891116 14:27  
Injected at: 891116 11:42

*Handwritten:* 11/21/89



QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB085::AQ  
 Data File: >KB085::U2  
 Name:  
 Misc: EUALA

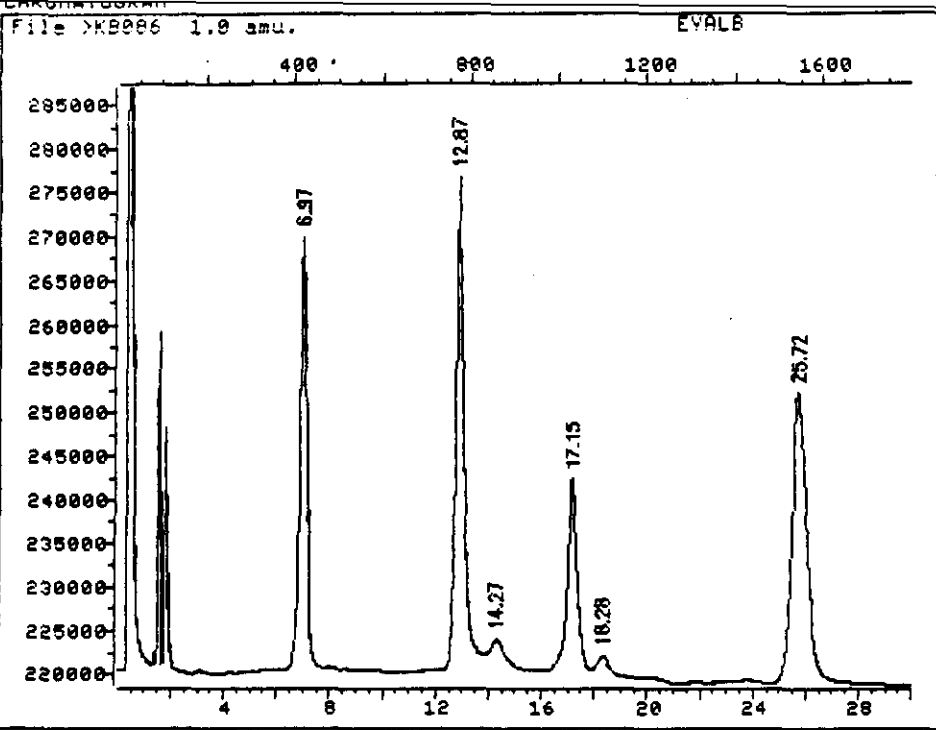
Quant Rev: 7      Quant Time: 891116 14:27  
 Injected at: 891116 11:42  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                     KB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 08:24

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	6.97	418	9600	.00408	UG/ML	100
13) #Endrin	12.87	772	9984	.00936	UG/ML	100
16) #4,4'-DDT	17.15	1029	4352	.00423	UG/ML	100
19) #Dibutylchlorodate	25.70	1542	6080	.00867	UG/ML	100

# Compound uses ESTD

*WVW*  
 11/21/89



Data File: >KB086::U2  
 Name:  
 Misc: EVALB

Quant Output File: ^KB086::AQ  
 Instrument ID: KA  
 KB

Id File: 1049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 08:24

Operator ID: YY6148  
 Quant Time: 891116 14:29  
 Injected at: 891116 12:17

*Handwritten signature*  
 11/21/89

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB086::AQ  
 Data File: >KB086::U2  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891116 14:29  
                   Injected at: 891116 12:17  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
                   KB

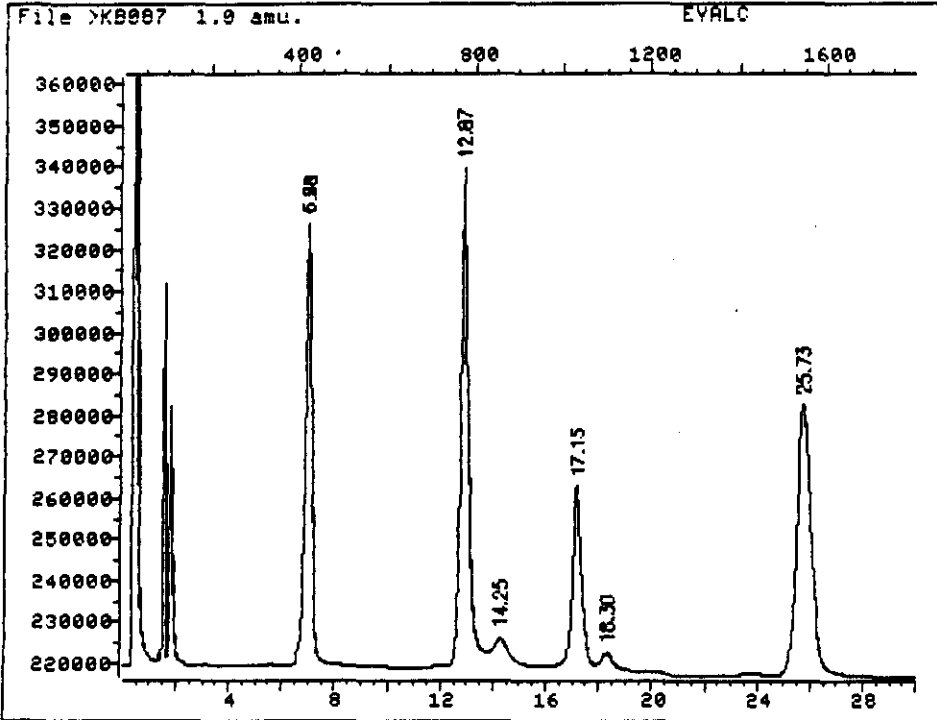
ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 08:24

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	6.97	418	49600	.0211	UG/ML	100
13) #Endrin	12.87	772	56320	.0528	UG/ML	100
14) #4,4'-DDD	14.27	856	3328	.00369	UG/ML	100
16) #4,4'-DDT	17.15	1029	21760	.0212	UG/ML	100
19) #Dibutylchloroendate	25.72	1543	33280	.0474	UG/ML	100
20) #Endrin ketone	18.28	1097	2240	.00225	UG/ML	100

# Compound uses ESTD

*11/21/89*

CHROMATOGRAM



Data File: >KB087::U2  
Name:  
Misc: EVALC

Quant Output File: ^KB087::AQ  
Instrument ID: KA  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 08:24

*www*  
*11/21/89*

Operator ID: YY6148  
Quant Time: 891116 14:31  
Injected at: 891116 12:52

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB087::AQ  
 Data File: >KB087::U2  
 Name:  
 Misc: EVALC

Quant Rev: 7      Quant Time: 891116 14:31  
                   Injected at: 891116 12:52  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   KB

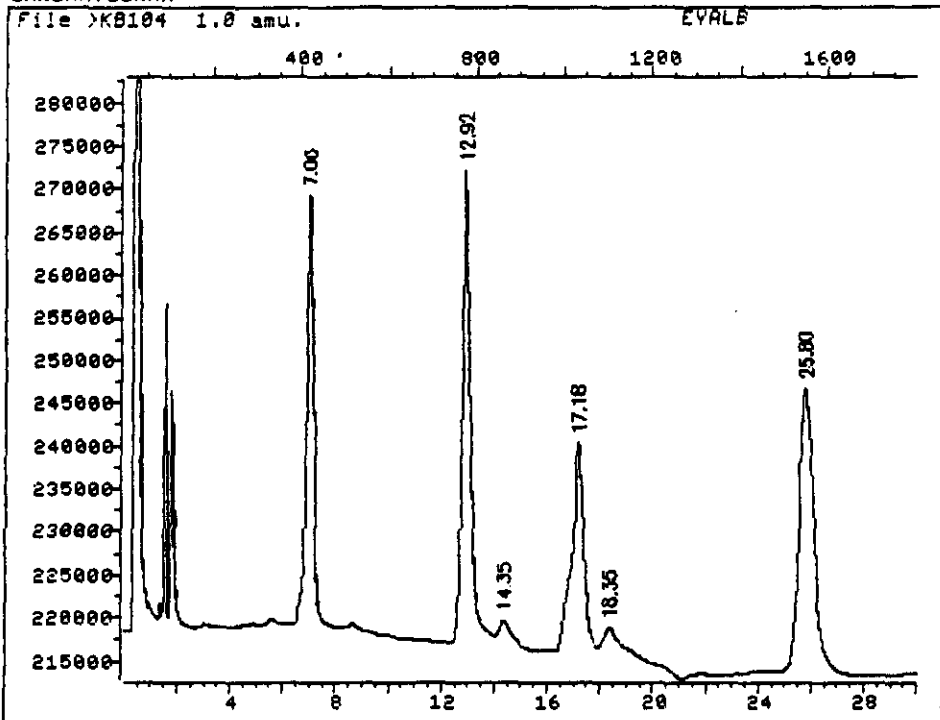
ID File: 10491P::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 08:24

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	6.98	419	106944	.0455	UG/ML	100
13) #Endrin	12.87	772	120513	.113	UG/ML	100
14) #4,4'-DDD	14.25	855	6592	.00732	UG/ML	100
16) #4,4'-DDT	17.15	1029	43456	.0423	UG/ML	100
17) #Endrin aldehyde	14.25	855	6272	.00629	UG/ML	100
19) #Dibutylchloroendate	25.73	1544	65344	.0932	UG/ML	100
20) #Endrin ketone	18.30	1098	4224	.00425	UG/ML	100

# Compound uses ESTD

*11/21/89*

CHROMATOGRAM



Data File: >KB104::U2  
Name:  
Misc: EVALB

Quant Output File: ^KB104::AQ  
Instrument ID: ~~KA~~  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 20:42

Operator ID: YY6148  
Quant Time: 891116 23:22  
Injected at: 891116 22:52

*um*  
11/21/89

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB104::AQ  
 Data File: >KB104::U2  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891116 23:22  
 Injected at: 891116 22:52  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
 (CB)

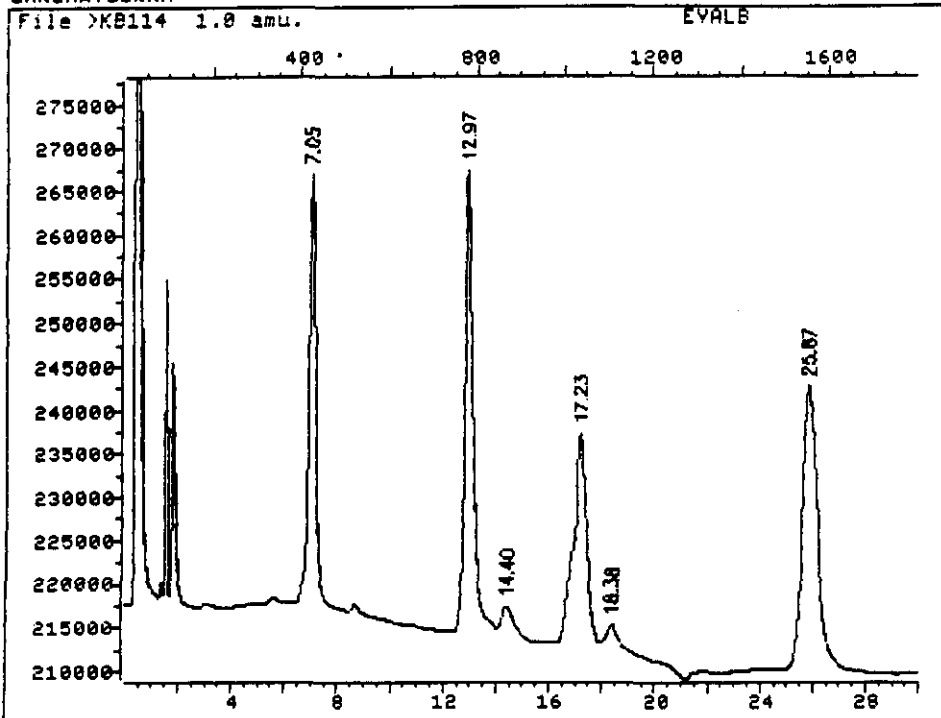
ID File: I0491P::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 20:42

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	7.00	420	50048	.0226	UG/ML	100
13) #Endrin	12.92	775	55040	.0489	UG/ML	100
14) #4,4'-DDD	14.35	861	3328	.00335	UG/ML	100
16) #4,4'-DDT	17.18	1031	24000	.0216	UG/ML	100
17) #Endrin aldehyde	14.35	861	3072	.00306	UG/ML	100
19) #Dibutylchlorodate	25.80	1548	32768	.0497	UG/ML	100
20) #Endrin ketone	18.35	1101	3008	.00293	UG/ML	100

# Compound uses ESTD

*WA*  
*11/21/89*

CHROMATOGRAM



Data File: >KB114::U2  
Name:  
Misc: EVALB

Quant Output File: ^KB114::AQ  
Instrument ID: KA  
RB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 20:42

11/21/89

Operator ID: YY6148  
Quant Time: 891117 05:15  
Injected at: 891117 04:44



QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB114::AQ  
 Data File: >KB114::U2  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891117 05:15  
                   Injected at: 891117 04:44  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
                   KB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 20:42

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	7.05	423	49664	.0224	UG/ML	100
13) #Endrin	12.97	778	52928	.0470	UG/ML	100
14) #4,4'-DDD	14.40	864	4032	.00406	UG/ML	100
16) #4,4'-DDT	17.23	1034	24128	.0217	UG/ML	100
17) #Endrin aldehyde	14.40	864	3648	.00363	UG/ML	100
19) #Dibutylchlorodate	25.87	1552	32512	.0493	UG/ML	100
20) #Endrin ketone	18.38	1103	3264	.00318	UG/ML	100

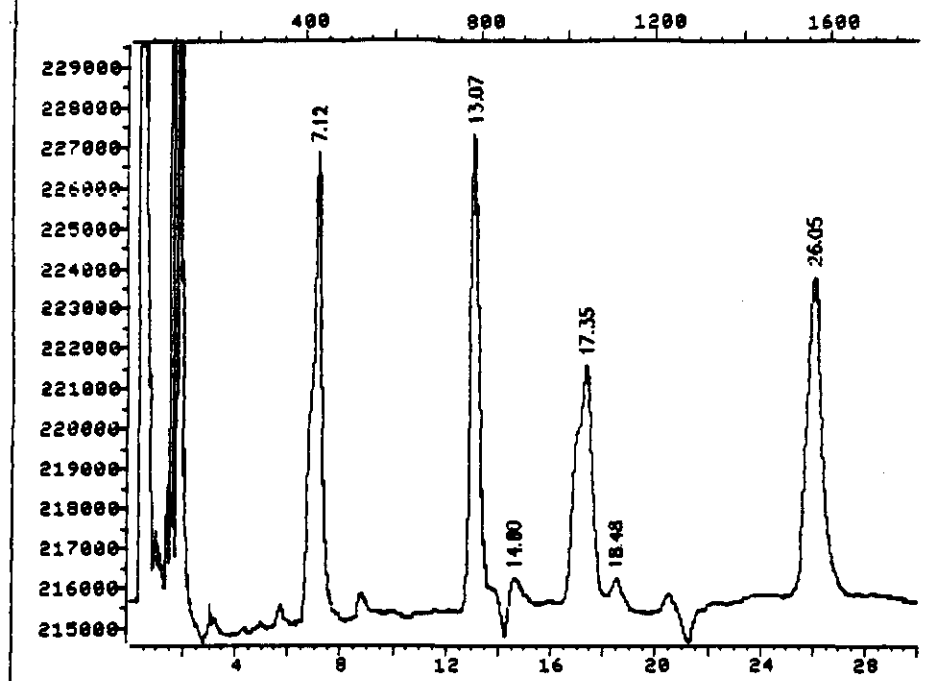
# Compound uses ESTD

*11/21/89*

CHROM-TOGRAM

File >KB140 1.0 au.

EVALA



Data File: >KB140::U2

Quant Output File: ^KB140::AQ

Name:

Instrument ID: KA

Misc: EVALA

Id File: 1048IC::US

Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ

Last Calibration: 891121 00:44

Operator ID: KT8582

Quant Time: 891121 14:33

Injected at: 891120 21:35

Operator ID: KT8582  
Output File: ^KB140::AQ  
Data File: >KB140::U2  
Name:  
Misc: EVALA

Quant Rev: 7      Quant Time: 891121 14:33  
                  Injected at: 891120 21:35  
Dilution Factor: 1.00000  
Instrument ID: KA

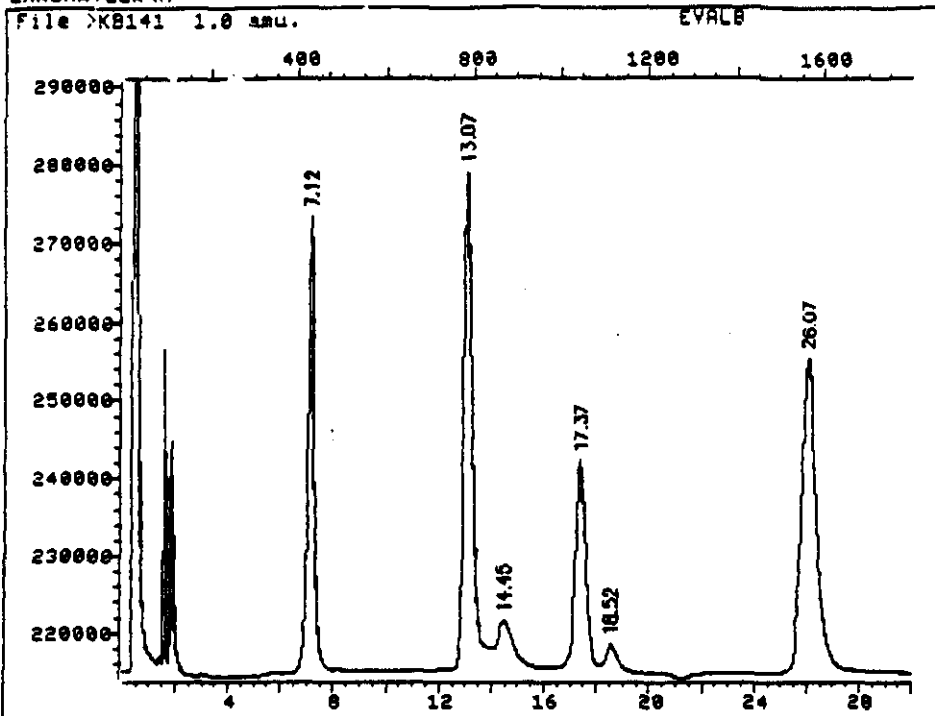
ID File: I048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891121 00:44

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	7.12	427	11712	.00469	UG/ML	100
13) #Endrin	13.07	784	11904	.00976	UG/ML	100
14) #4,4'-DDD	14.60	876	1472	.00133	UG/ML	100
16) #4,4'-DDT	17.35	1041	5952	.00483	UG/ML	100
17) #Endrin aldehyde	14.60	876	1472	.00130	UG/ML	100
19) #Dibutylchloroendate	26.05	1563	7936	.0102	UG/ML	100
20) #Endrin ketone	18.48	1109	896	.000804	UG/ML	100

# Compound uses ESTD

*red 11/21/89*

CHROMATOGRAM



Data File: >KB141::U2

Quant Output File: ^KB141::AQ

Name:

Instrument ID: KA

Misc: EVALB

Id File: I048IC::US

Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ

Last Calibration: 891121 00:44

Operator ID: KT8582

Quant Time: 891121 14:34

Injected at: 891120 22:10

Operator ID: KT8582  
Output File: ^KB141::AQ  
Data File: >KB141::U2  
Name:  
Misc: EUALB

Quant Rev: 7      Quant Time: 891121 14:34  
                  Injected at: 891120 22:10  
Dilution Factor: 1.00000  
Instrument ID: KA

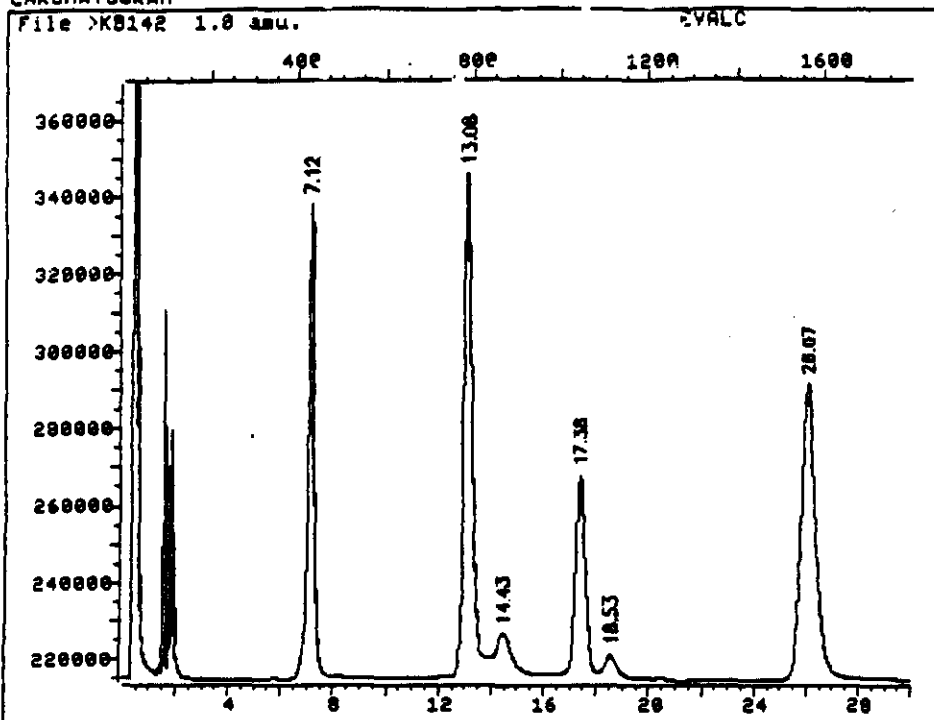
ID File: I048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891121 00:44

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	7.12	427	58624	.0235	UG/ML	100
13) #Endrin	13.07	784	63872	.0524	UG/ML	100
14) #4,4'-DDD	14.45	867	5824	.00527	UG/ML	100
16) #4,4'-DDT	17.37	1042	26624	.0216	UG/ML	100
17) #Endrin aldehyde	14.45	867	5568	.00493	UG/ML	100
19) #Dibutylchlorodate	26.07	1564	40512	.0520	UG/ML	100
20) #Endrin ketone	18.52	1111	3648	.00327	UG/ML	100

\* Compound uses ESTD

*red 11/21/79*

CHROMATOGRAM



Data File: >KB142::U2  
Name:  
Misc: EVALC

Quant Output File: ^KB142::AQ  
Instrument ID: KA

Id File: I048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891121 00:44

Operator ID: KT8582  
Quant Time: 891121 14:36  
Injected at: 891120 22:45

QUANT REPORT

Operator ID: KT8582  
 Output File: ^KB142::AQ  
 Data File: >KB142::U2  
 Name:  
 Misc: EVALC

Quant Rev: 7      Quant Time: 891121 14:36  
                   Injected at: 891120 22:45  
 Dilution Factor: 1.00000  
 Instrument ID: KA

ID File: 1048IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891121 00:44

Compound	R.T.	Scan#	Height	Conc	Units	q
6) *Aldrin	7.12	427	123969	.0496	UG/ML	100
13) *Endrin	13.08	785	130817	.107	UG/ML	100
14) *4,4'-DDD	14.43	866	10560	.00956	UG/ML	100
16) *4,4'-DDT	17.38	1043	52160	.0423	UG/ML	100
17) *Endrin aldehyde	14.43	866	10176	.00900	UG/ML	100
19) *Dibutylchloroendate	26.07	1564	77120	.0989	UG/ML	100
20) *Endrin ketone	18.53	1112	6272	.00563	UG/ML	100

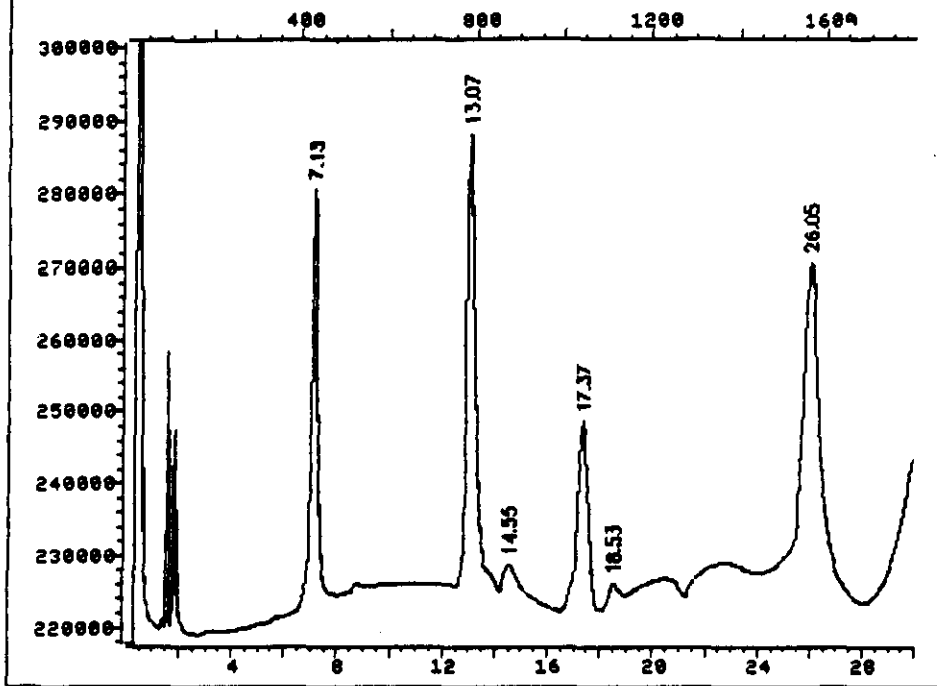
*Handwritten:* 11/21/89

\* Compound uses ESTD

CHROMATOGRAM

File >KB150 1.0 um.

EVALB



Data File: >KB150::U2  
Name:  
Misc: EVALB

Quant Output File: ^KB150::AQ  
Instrument ID: KA

Id File: I048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891121 00:44

Operator ID: KT8582  
Quant Time: 891121 03:58  
Injected at: 891121 03:27



Operator ID: KT8582  
Output File: ^KB150::IAQ  
Data File: >KB150::U2  
Name:  
Misc: EVALB

Quant Rev: 7      Quant Time: 891121 03:58  
                  Injected at: 891121 03:27  
Dilution Factor: 1.00000  
Instrument ID: KA

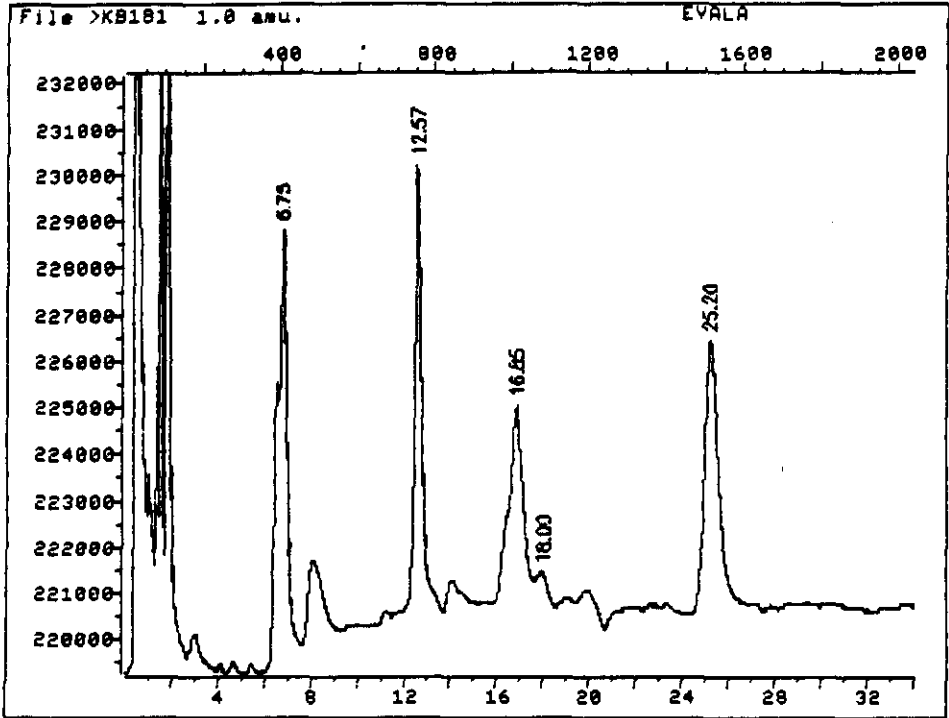
ID File: I048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891121 00:44

	Compound	R.T.	Scan#	Height	Conc	Units	q
6)	#Aldrin	7.13	428	58880	.0236	UG/ML	100
13)	#Endrin	13.07	784	62336	.0511	UG/ML	100
14)	#4,4'-DDD	14.55	873	4992	.00452	UG/ML	100
16)	#4,4'-DDT	17.37	1042	26432	.0214	UG/ML	100
17)	#Endrin aldehyde	14.55	873	4416	.00391	UG/ML	100
19)	#Dibutylchlorodate	26.05	1563	44864	.0576	UG/ML	100
20)	#Endrin ketone	18.53	1112	3712	.00333	UG/ML	100

\* Compound uses ESTD

rd 11/21/89

CHROMATOGRAM



Data File: >KB181::U2  
Name:  
Misc: EVALA

Quant Output File: ^KB181::AQ  
Instrument ID: KA  
KA

Id File: I076IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891128 00:29

*Handwritten:*  
4/28/99

Operator ID: KT8582  
Quant Time: 891128 00:31  
Injected at: 891127 19:38

Operator ID: KT8582  
 Output File: ^KB181::AQ  
 Data File: >KB181::U2  
 Name:  
 Misc: EVALA

Quant Rev: 7    Quant Time: 891128 00:31  
 Injected at: 891127 19:38  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   KB

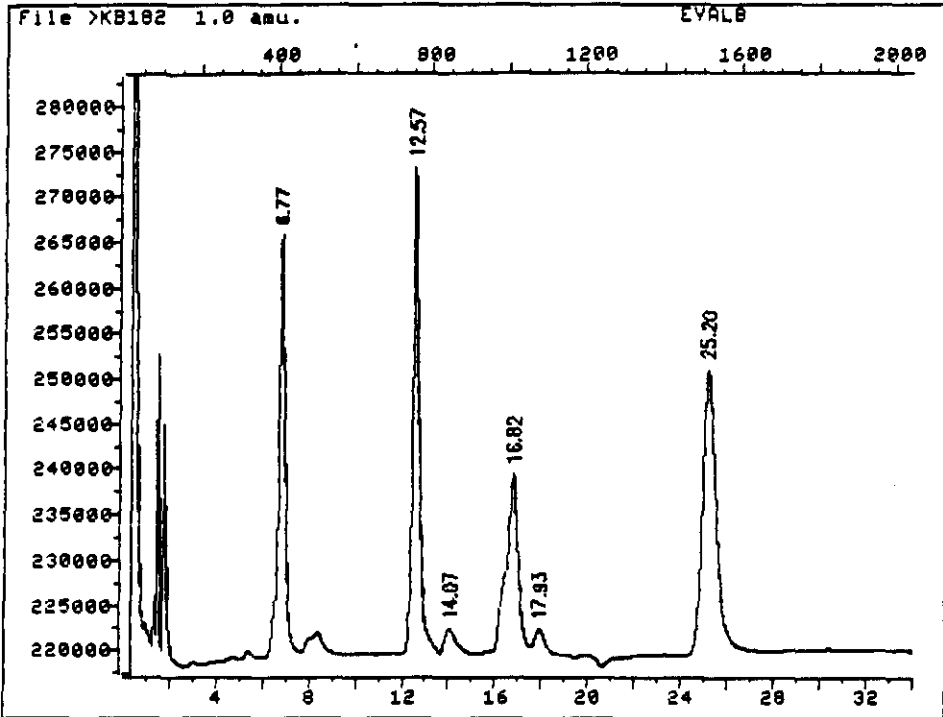
ID File: I076IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891128 00:29

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	6.75	405	9186	.00470	UG/ML	100
13) #Endrin	12.57	754	9664	.00871	UG/ML	100
16) #4,4'-DDT	16.85	1011	4224	.00453	UG/ML	100
19) #Dibutylchlorodate	25.20	1512	5888	.00958	UG/ML	100
20) #Endrin ketone	18.00	1080	768	.000850	UG/ML	100

# Compound uses ESTD

*11/28/89*

CHROMATOGRAM



Data File: >KB182::U2  
Name:  
Misc: EVALB

Quant Output File: ^KB182::AQ  
Instrument ID: KA  
KB

Id File: 10761C::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891128 00:29

*Handwritten:* 4/28/89

Operator ID: KT8582  
Quant Time: 891128 00:32  
Injected at: 891127 20:17

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB182::AQ  
 Data File: >KB182::U2  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891128 00:32  
 Injected at: 891127 20:17  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   KB

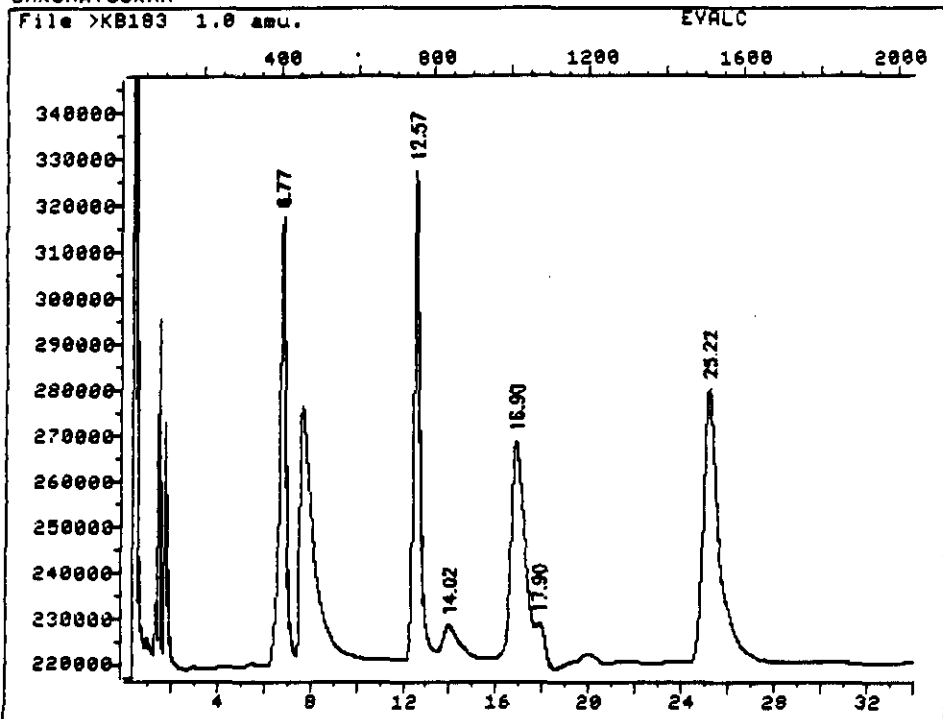
ID File: I076IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891128 00:29

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	6.77	406	46528	.0238	UG/ML	100
13) #Endrin	12.57	754	53632	.0483	UG/ML	100
14) #4,4'-DDD	14.07	844	2624	.00304	UG/ML	100
16) #4,4'-DDT	16.82	1009	19648	.0211	UG/ML	100
19) #Dibutylchlorodate	25.20	1512	31744	.0517	UG/ML	100
20) #Endrin ketone	17.93	1076	2816	.00312	UG/ML	100

# Compound uses ESTD

*11/28/89*

CHROMATOGRAM



Data File: >KB183::U2  
Name:  
Misc: EVALC

Quant Output File: ^KB183::AQ  
Instrument ID: KA  
KC

Id File: I076IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891128 00:29

Operator ID: KT8582  
Quant Time: 891128 00:33  
Injected at: 891127 20:56

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB183::AQ  
 Data File: >KB183::U2  
 Name:  
 Misc: EVALC

Quant Rev: 7      Quant Time: 891128 00:33  
 Injected at: 891127 20:56  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   KB

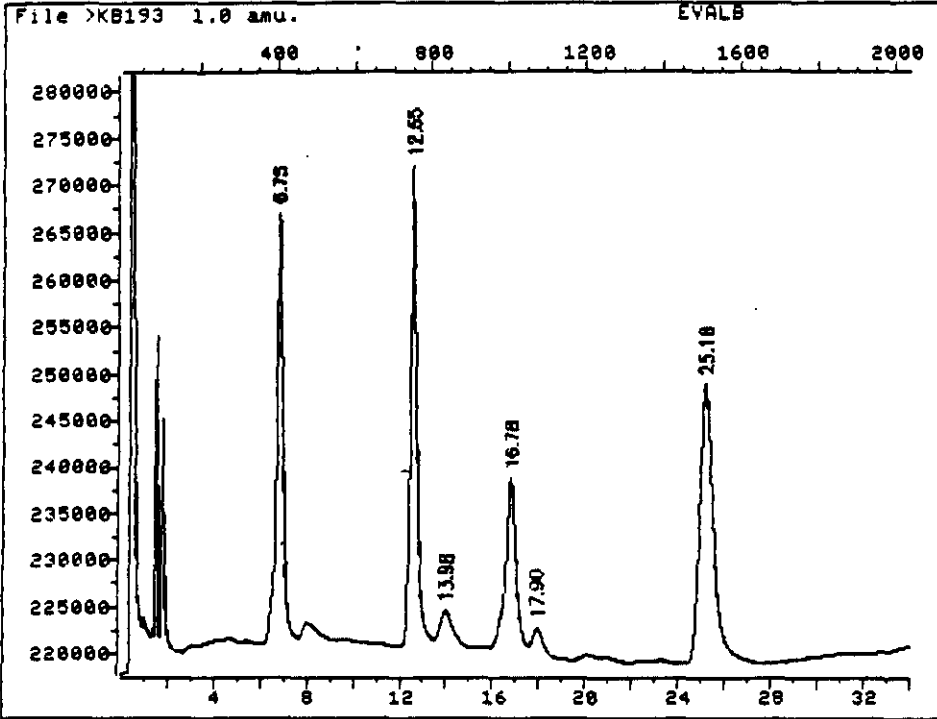
ID File: I076IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891128 00:29

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	6.77	406	97600	.0500	UG/ML	100
13) #Endrin	12.57	754	106560	.0960	UG/ML	100
14) #4,4'-DDD	14.02	841	6720	.00778	UG/ML	100
16) #4,4'-DDT	16.90	1014	47232	.0506	UG/ML	100
19) #Dibutylchlorodate	25.22	1513	59840	.0974	UG/ML	100
20) #Endrin ketone	17.90	1074	9984	.0110	UG/ML	100

# Compound uses ESTD

*11/28/89*

CHROMATOGRAM



Data File: >KB193::U2  
Name:  
Misc: EVALB

Quant Output File: ^KB193::AQ  
Instrument ID: KA  
KB

Id File: I076IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891128 00:29

*Handwritten:* ul 2/8/89

Operator ID: KT8582  
Quant Time: 891128 04:04  
Injected at: 891128 03:29



QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB193::AQ  
 Date File: >KB193::U2  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891128 04:04  
 Injected at: 891128 03:29  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
 KB

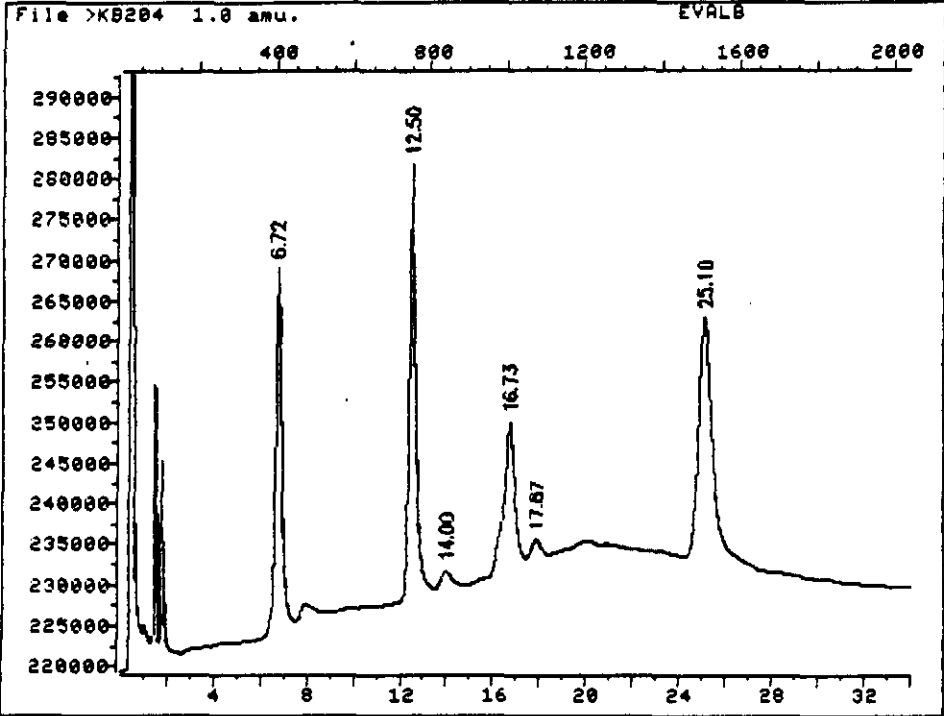
ID File: 10761C::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891128 00:29

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	6.75	405	45952	.0235	UG/ML	100
13) #Endrin	12.55	753	51328	.0463	UG/ML	100
14) #4,4'-DDD	13.98	839	3840	.00444	UG/ML	100
16) #4,4'-DDT	16.78	1007	18176	.0195	UG/ML	100
19) #Dibutylchloroendate	25.18	1511	30016	.0489	UG/ML	100
20) #Endrin ketone	17.90	1074	3200	.00354	UG/ML	100

# Compound uses ESTD

*11/28/89*

CHROMATOGRAM



Data File: >KB204::U2  
Name:  
Misc: EVALB

Quant Output File: ^KB204::AQ  
Instrument ID: KA  
K13

Id File: I076IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891128 00:29

Operator ID: KT8582  
Quant Time: 891128 12:54  
Injected at: 891128 12:19

*Handwritten:* 11/28/99

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB204::AQ  
 Data File: >KB204::U2  
 Name:  
 Misc: EVALB

Quant Rev: 7      Quant Time: 891128 12:54  
 Injected at: 891128 12:19  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   CO

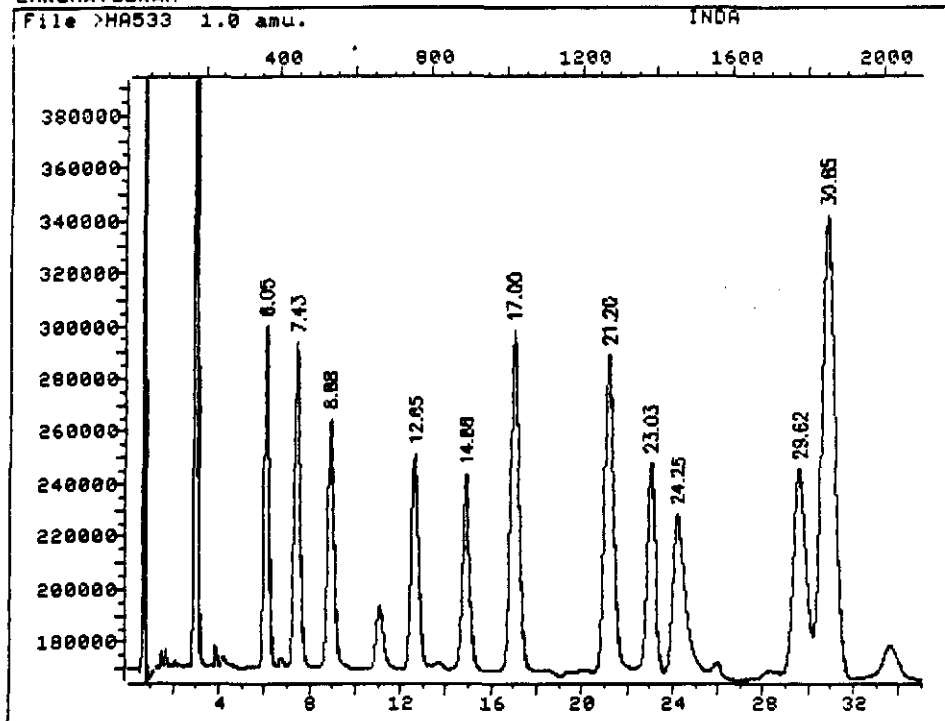
ID File: 10761C::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891128 00:29

Compound	R.T.	Scan#	Height	Conc	Units	q
6) #Aldrin	6.72	403	45632	.0234	UG/ML	100
13) #Endrin	12.50	750	53888	.0486	UG/ML	100
14) #4,4'-DDD	14.00	840	2304	.00267	UG/ML	100
16) #4,4'-DDT	16.73	1004	19136	.0205	UG/ML	100
19) #Dibutylchlorodate	25.10	1506	29440	.0479	UG/ML	100
20) #Endrin ketone	17.87	1072	2240	.00248	UG/ML	100

# Compound uses ESTD

*11/28/29*

CHROMATOGRAM



Data File: >HA533::U4  
Name:  
Misc: INDA

Quant Output File: ^HA533::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891114 08:52

Operator ID: KT8582  
Quant Time: 891115 13:13  
Injected at: 891115 01:43

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA533::AQ  
 Data File: >HA533::U4  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891115 13:13  
                   Injected at: 891115 01:43  
 Dilution Factor: 1.00000  
 Instrument ID: HA

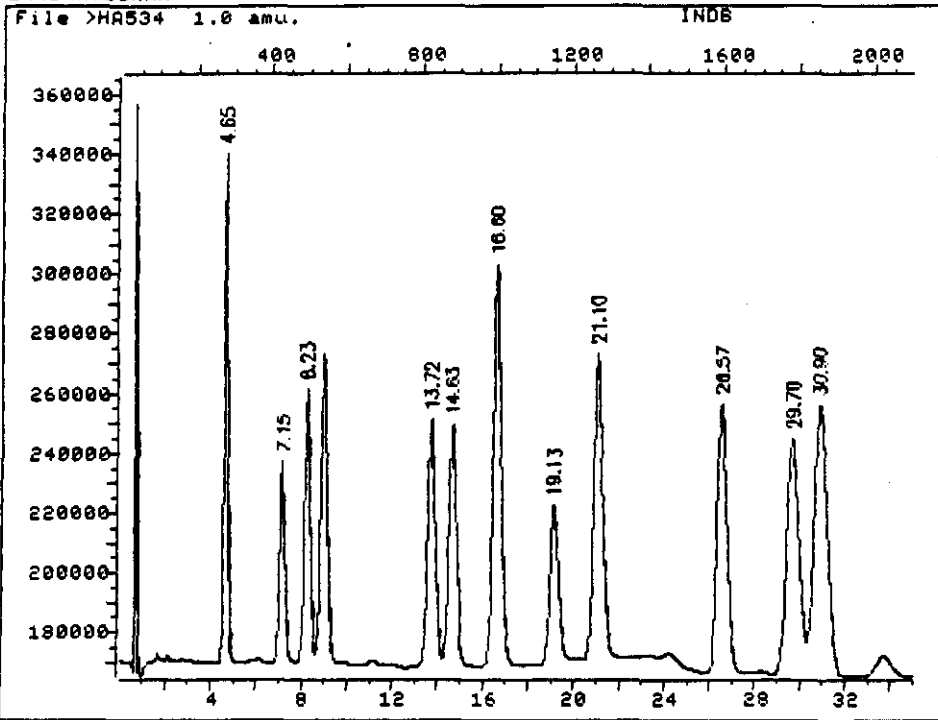
ID File: 1050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891114 08:52

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	6.05	361	129408	.0177	UG/ML	100
4) #Heptachlor	7.43	444	123136	.0184	UG/ML	100
6) #Aldrin	8.88	531	94272	.0182	UG/ML	100
7) #Heptachlor epoxide	12.65	757	81664	.0184	UG/ML	100
10) #Endosulfan I	14.88	891	74176	.0188	UG/ML	100
12) #Dieldrin	17.00	1018	128832	.0369	UG/ML	100
15) #Endosulfan II	21.20	1270	119936	.0380	UG/ML	100
16) #4,4'-DDT	23.03	1380	79168	.0364	UG/ML	100
17) #Endrin aldehyde	24.25	1453	59328	.0373	UG/ML	100
19) #Dibutylchlorodate	29.62	1775	77376	.0422	UG/ML	100
21) #Methoxychlor	30.85	1849	175425	.185	UG/ML	100

# Compound uses ESTD

11/27/87

CHROMATOGRAM



Data File: >HA534::U4  
Name:  
Misc: INDB

Quant Output File: ^HA534::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891114 08:52

Operator ID: KT8582  
Quant Time: 891115 13:15  
Injected at: 891115 02:28

QUANT REPORT

Page 1

ID: KT8582  
 File: ^HA534::AQ  
 e: >HA534::U4

Quant Rev: 7      Quant Time: 891115 13:15  
 Injected at: 891115 02:28  
 Dilution Factor: 1.00000  
 Instrument ID: HA

DB

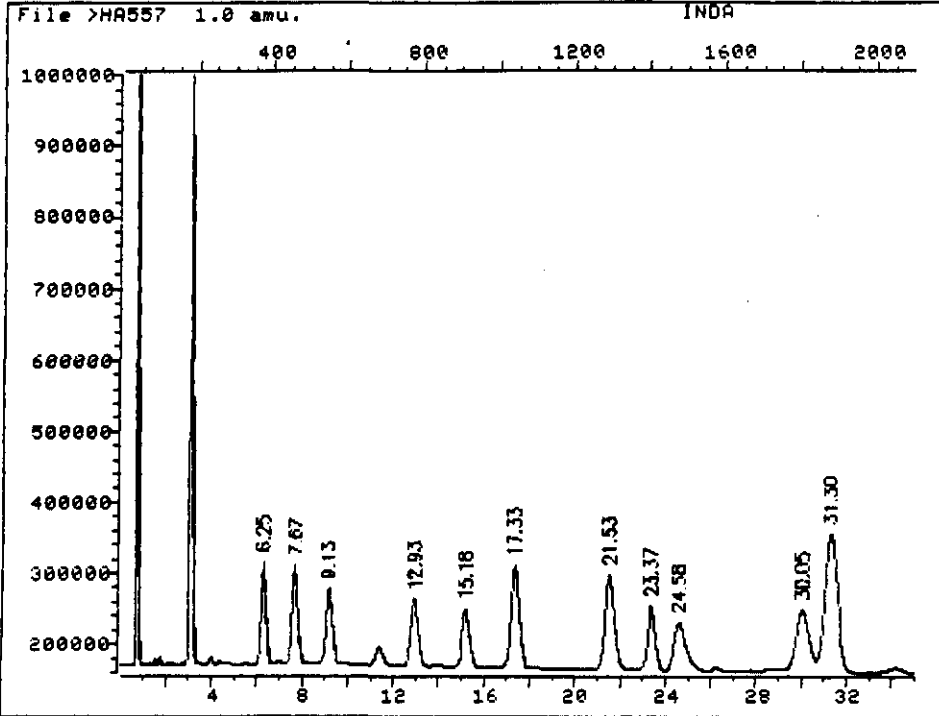
I050IP::US  
 TB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 ibration: 891114 08:52

Compound	R.T.	Scan#	Height	Conc	Units	q
o-ha-BHC	4.65	277	170049	.0203	UG/ML	100
ta-BHC	7.15	427	67456	.0217	UG/ML	100
ta-BHC	8.23	492	91392	.0208	UG/ML	100
ma-Chlordane	13.72	821	82473	.0215	UG/ML	100
na-Chlordane	14.63	876	80448	.0217	UG/ML	100
DE	16.60	994	134272	.0430	UG/ML	100
in	19.13	1146	53440	.0430	UG/ML	100
DD	21.10	1264	101760	.0429	UG/ML	100
dosulfan sulfate	26.57	1592	89920	.0439	UG/ML	100
butylchloredate	29.70	1780	78912	.0431	UG/ML	100
in ketone	30.90	1852	90688	.0427	UG/ML	100

Ad 11/27/89

and uses ESTD

CHROMATOGRAM



Data File: >HA557::U4  
Name:  
Misc: INDA

Quant Output File: ^HA557::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891115 20:39  
Injected at: 891115 19:55



QUANT REPORT

erator ID: KT8582  
 put File: ^HA557::AQ  
 s File: >HA557::U4  
 c: INDA

Quant Rev: 7      Quant Time: 891115 20:39  
                   Injected at: 891115 19:55  
                   Dilution Factor: 1.00000  
                   Instrument ID: HA

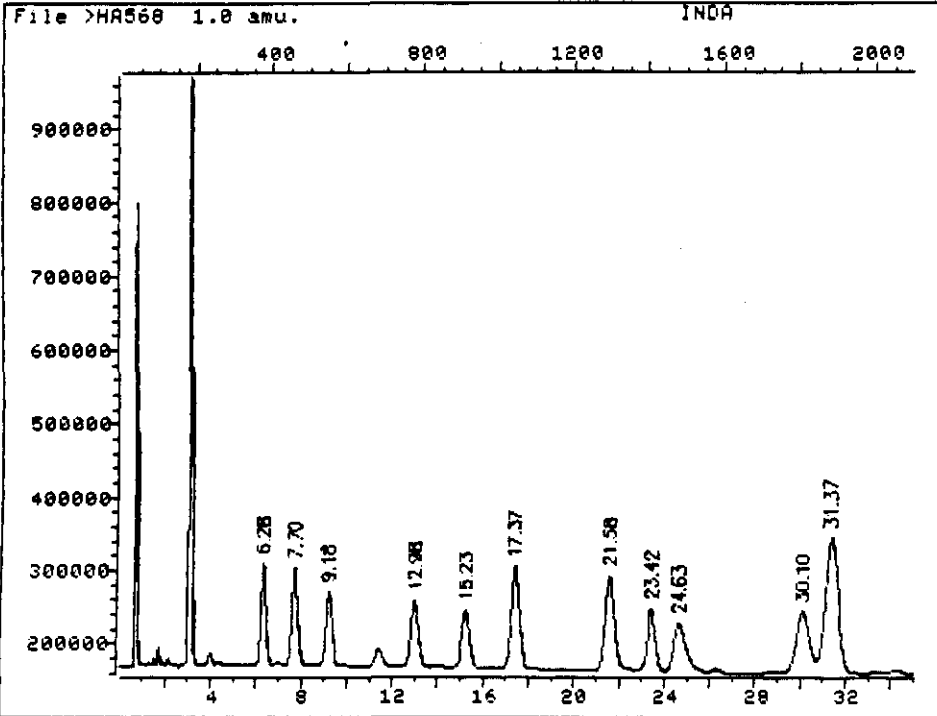
File: I050IP::US  
 le: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 t Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
) #Gamma-BHC	6.25	373	144704M	.0280	UG/ML	
) #Heptachlor	7.67	458	137984M	.0280	UG/ML	
) #Aldrin	9.13	546	104896M	.0278	UG/ML	
) #Heptachlor epoxide	12.93	774	92992M	.0285	UG/ML	
#Endosulfan I	15.18	909	82240M	.0277	UG/ML	
#Dieldrin	17.33	1038	143808	.0558	UG/ML	100
) #Endosulfan II	21.53	1290	133633	.0557	UG/ML	100
) #4,4'-DDT	23.37	1400	90817	.0574	UG/ML	100
) #Endrin aldehyde	24.58	1473	67457	.0569	UG/ML	100
) #Dibutylchlorodate	30.05	1801	84865	.0548	UG/ML	100
#Methoxychlor	31.30	1876	193090	.275	UG/ML	100

24 11/27/89

Compound uses ESTD

CHROMATOGRAM



Data File: >HA568::U4  
Name:  
Misc: INDA

Quant Output File: ^HA568::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891116 05:04  
Injected at: 891116 04:20

QUANT REPORT

Operator ID: KT8582  
 Output File: ^HA568::AQ  
 Data File: >HA568::U4  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891116 05:04  
 Injected at: 891116 04:20  
 Dilution Factor: 1.00000  
 Instrument ID: HA

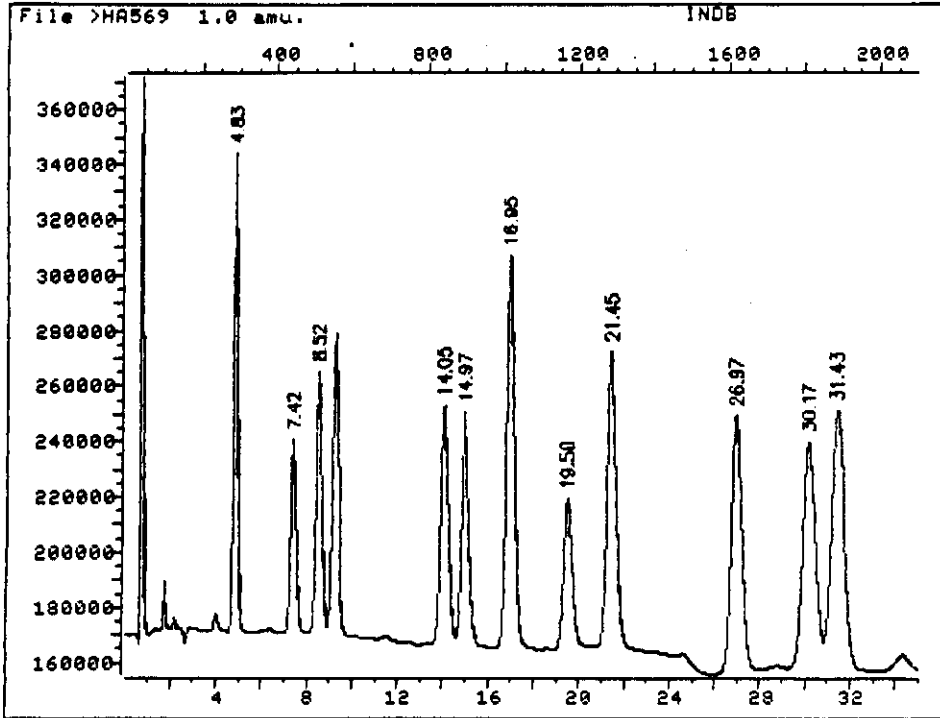
ID File: 1050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	6.28	375	138816M	.0268	UG/ML	
4) #Heptachlor	7.70	460	131904M	.0268	UG/ML	
6) #Aldrin	9.18	549	100224M	.0266	UG/ML	
7) #Heptachlor epoxide	12.98	777	90816	.0278	UG/ML	100
10) #Endosulfan I	15.23	912	79232	.0267	UG/ML	100
12) #Dieldrin	17.37	1040	138752	.0538	UG/ML	100
15) #Endosulfan II	21.58	1293	129089	.0538	UG/ML	100
16) #4,4'-DDT	23.42	1403	85697	.0541	UG/ML	100
17) #Endrin aldehyde	24.63	1476	64833	.0546	UG/ML	100
19) #Dibutylchlorodate	30.10	1804	82433	.0533	UG/ML	100
21) #Methoxychlor	31.37	1880	183938	.262	UG/ML	100

*24 1/27/89*

# Compound uses ESTD

CHROMATOGRAM



Data File: >HA569::U4  
Name:  
Misc: INDB

Quant Output File: ^HA569::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891116 05:49  
Injected at: 891116 05:06

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA569::AQ  
 Data File: >HA569::U4  
 Name:  
 Misc: INDB

Quant Rev: 7      Quant Time: 891116 05:49  
 Injected at: 891116 05:06  
 Dilution Factor: 1.00000  
 Instrument ID: HA

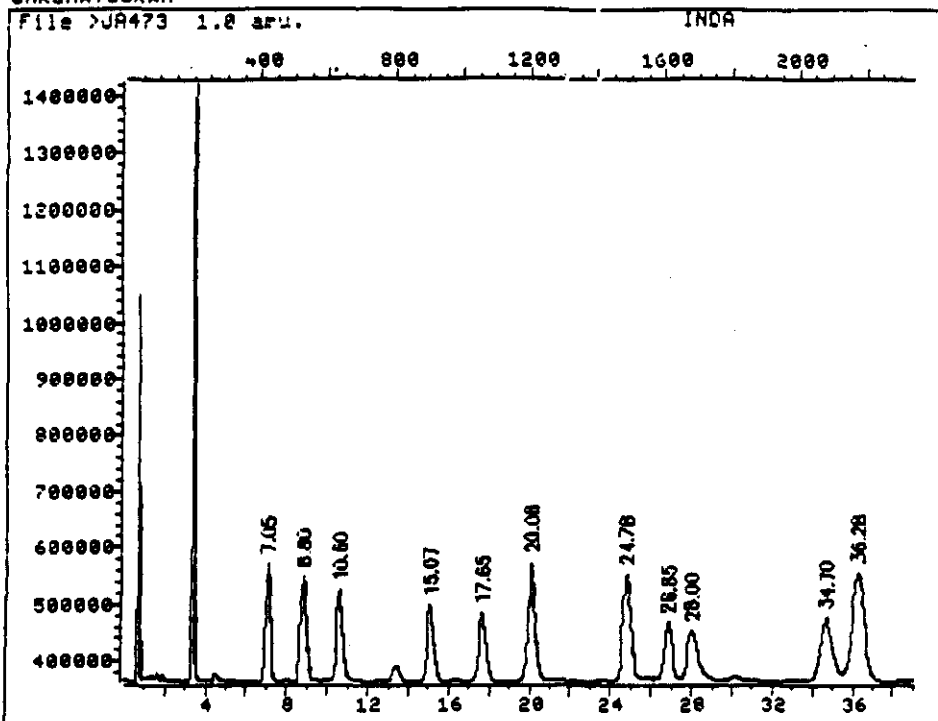
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
1) #Alpha-BHC	4.83	288	173313M	.0255	UG/ML	
3) #Beta-BHC	7.42	443	70144M	.0260	UG/ML	
5) #Delta-BHC	8.52	509	94720M	.0259	UG/ML	
8) #gamma-Chlordane	14.05	841	86272	.0262	UG/ML	100
9) #alpha-Chlordane	14.97	896	84800	.0264	UG/ML	100
11) #4,4'-DDE	16.95	1015	141760	.0528	UG/ML	100
13) #Endrin	19.50	1168	54913	.0514	UG/ML	100
14) #4,4'-DDD	21.45	1285	107329	.0527	UG/ML	100
18) #Endosulfan sulfate	26.97	1616	93441	.0520	UG/ML	100
19) #Dibutylchlorodate	30.17	1808	81729	.0528	UG/ML	100
20) #Endrin ketone	31.43	1884	93377	.0515	UG/ML	100

as # 1/7/89

# Compound uses ESTD

CHROMATOGRAM



Data File: >JA473  
Name:  
Misc: INDA

Quant Output File: ^JA473::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:22  
Injected at: 891107 16:30

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA473::U6  
 Data File: >JA473::U4  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891108 15:22  
 Injected at: 891107 16:30  
 Dilution Factor: 1.00000  
 Instrument ID: JA

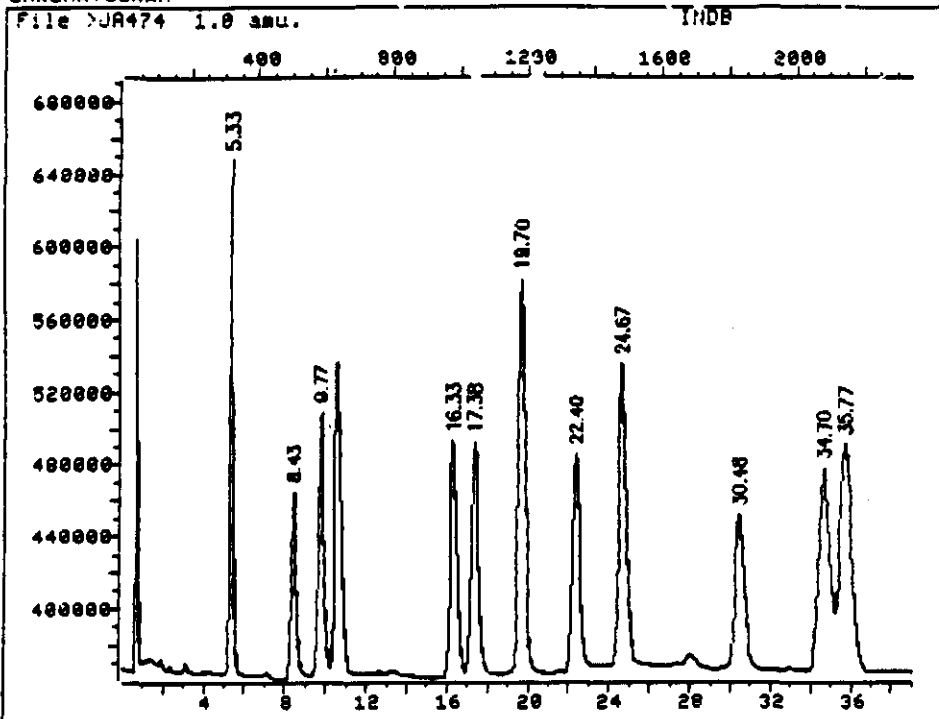
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	7.05	423	209665	.0296	UG/ML	100
4) #Heptachlor	8.80	528	186881	.0322	UG/ML	100
6) #Aldrin	10.60	636	159879	.0272	UG/ML	100
7) #Heptachlor epoxide	15.07	904	135553	.0288	UG/ML	100
10) #Endosulfan I	17.65	1059	121536	.0295	UG/ML	100
12) #Dieldrin	20.08	1205	209216	.0557	UG/ML	100
15) #Endosulfan II	24.78	1487	189569	.0751	UG/ML	100
16) #4,4'-DDT	26.85	1611	99456	.0522	UG/ML	100
17) #Endrin aldehyde	28.00	1680	84864	.0533	UG/ML	100
19) #Dibutylchlorodate	34.70	2082	109760	.0581	UG/ML	100
21) #Methoxychlor	36.28	2177	193345	.312	UG/ML	100

\* Compound uses ESTD

ad 11/31/89

CHROMATOGRAM



Data File: >JA474  
Name:  
Misc: INDB

Quant Output File: ^JA474::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:24  
Injected at: 891107 17:15



QUANT REPORT

Operator ID: YY6148  
 Output File: ^JA474::U6  
 Data File: >JA474::U4  
 Name:  
 Misc: INDB

Quant Rev: 7      Quant Time: 891108 15:24  
 Injected at: 891107 17:15  
 Dilution Factor: 1.00000  
 Instrument ID: JA

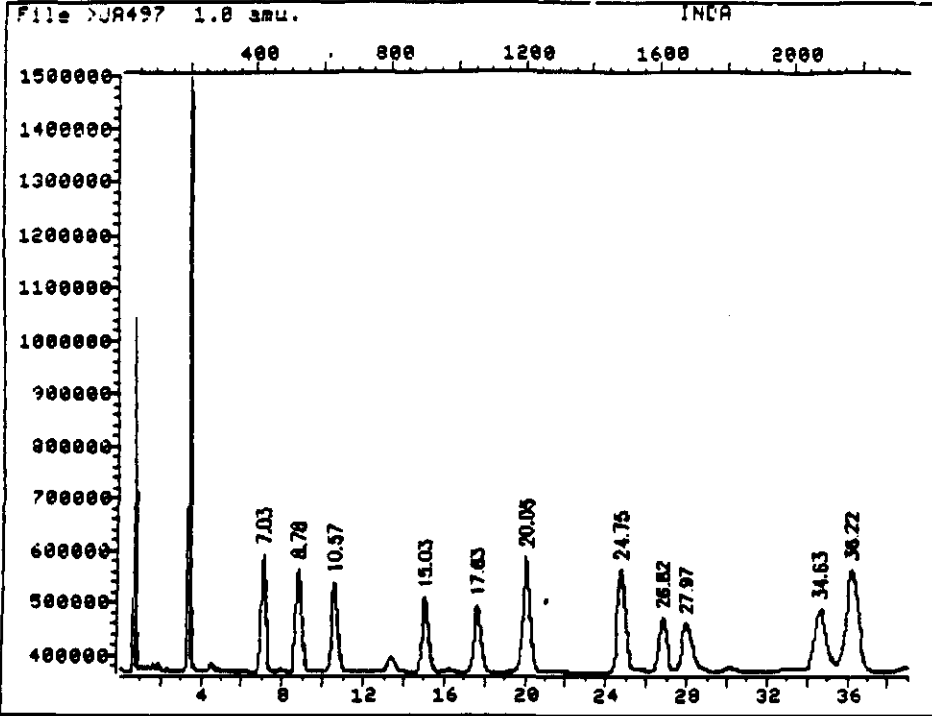
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
1) #Alpha-BHC	5.33	320	286273	.0345	UG/ML	100
3) #Beta-BHC	8.43	506	104576	.0411	UG/ML	100
5) #Delta-BHC	9.77	586	146689	.0318	UG/ML	100
8) #gamma-Chlordane	16.33	980	131520	.0312	UG/ML	100
9) #alpha-Chlordane	17.38	1043	129024	.0373	UG/ML	100
11) #4,4'-DDE	19.70	1182	219265	.0580	UG/ML	100
13) #Endrin	22.40	1344	121664	.0615	UG/ML	100
14) #4,4'-DDD	24.67	1480	167169	.0548	UG/ML	100
18) #Endosulfan sulfate	30.48	1829	85632	.0596	UG/ML	100
19) #Dibutylchlorodate	34.70	2082	112576	.0595	UG/ML	100
20) #Endrin ketone	35.77	2146	126656	.126	UG/ML	100

*red 11/21/89*

\* Compound uses ESTD

CHROMATOGRAM



Data File: >JA497  
Name:  
Misc: INDA

Quant Output File: ^JA497::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 L INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:26  
Injected at: 891108 11:17

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA497::U6  
 Date File: >JA497::U4  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891108 15:26  
                   Injected at: 891108 11:17  
 Dilution Factor: 1.00000  
 Instrument ID: JA

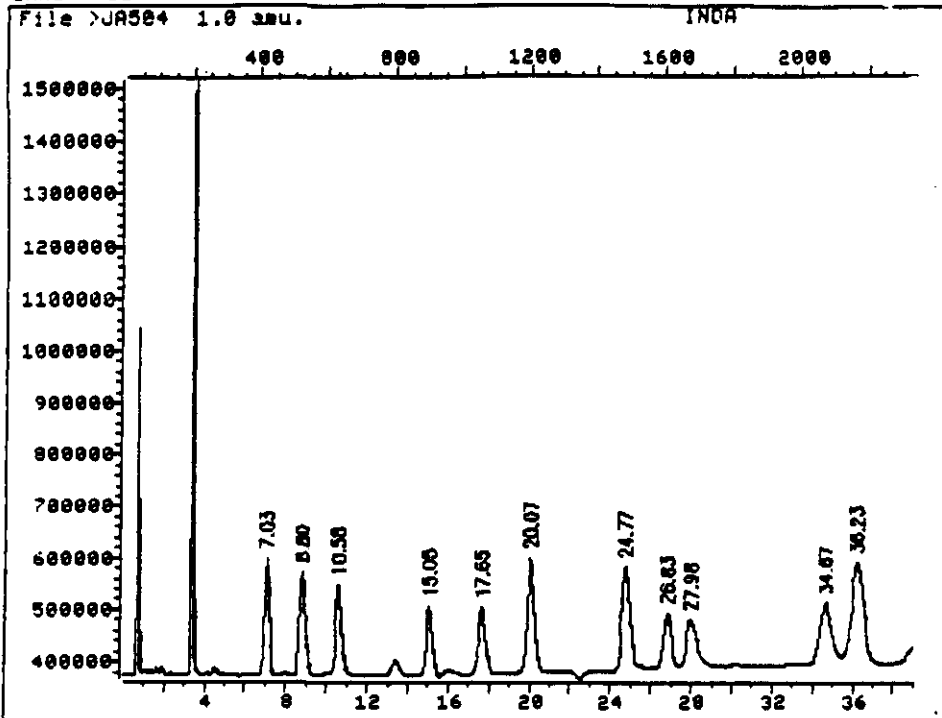
ID File: 1048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	7.03	422	222977	.0314	UG/ML	100
4) #Heptachlor	8.78	527	196673	.0339	UG/ML	100
6) #Aldrin	10.57	634	169459	.0288	UG/ML	100
7) #Heptachlor epoxide	15.03	902	141249	.0301	UG/ML	100
10) #Endosulfan I	17.63	1058	127104	.0308	UG/ML	100
12) #Dieldrin	20.05	1203	219069	.0584	UG/ML	100
15) #Endosulfan II	24.75	1485	196545	.0779	UG/ML	100
16) #4,4'-DDT	26.82	1609	99136	.0521	UG/ML	100
17) #Endrin aldehyde	27.97	1678	88128	.0554	UG/ML	100
19) #Dibutylchloroendate	34.63	2078	113984	.0603	UG/ML	100
21) #Methoxychlor	36.22	2173	193281	.312	UG/ML	100

*kd 11/21/89*

\* Compound uses ESTD

CHROMATOGRAM



Data File: >JA504  
Name:  
Misc: INDA

Quant Output File: ^JA504::U5  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891108 16:21

Operator ID: YY6148  
Quant Time: 891108 18:00  
Injected at: 891108 17:19

-QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA504::U5  
 Data File: >JA504::U4  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891108 18:00  
 Injected at: 891108 17:19  
 Dilution Factor: 1.00000  
 Instrument ID: JA

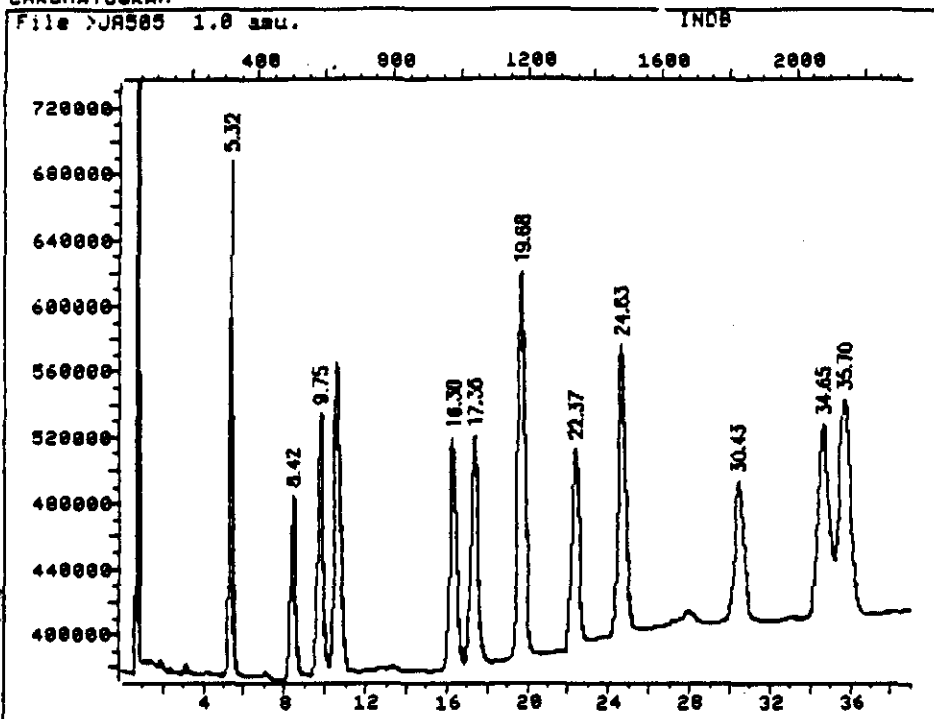
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891108 16:21

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	7.03	422	227393	.0271	UG/ML	100
4) #Heptachlor	8.80	528	199489	.0267	UG/ML	100
6) #Aldrin	10.58	635	173868	.0272	UG/ML	100
7) #Heptachlor epoxide	15.05	903	134657	.0248	UG/ML	100
10) #Endosulfan I	17.65	1059	130689	.0269	UG/ML	100
12) #Dieldrin	20.07	1204	224961	.0538	UG/ML	100
15) #Endosulfan II	24.77	1486	200385	.0529	UG/ML	100
16) #4,4'-DDT	26.83	1610	103936	.0523	UG/ML	100
17) #Endrin aldehyde	27.98	1679	88576	.0522	UG/ML	100
19) #Dibutylchloroendate	34.67	2080	116033	.0529	UG/ML	100
21) #Methoxychlor	36.23	2174	195201	.252	UG/ML	100

*11/2/89*

\* Compound uses ESTD

CHROMATOGRAM



Data File: >JA505  
Name:  
Misc: INDB

Quant Output File: ^JA505::U5  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891108 16:21

Operator ID: YY6148  
Quant Time: 891108 18:44  
Injected at: 891108 18:04

QUANT REPORT

Operator ID: YY6148  
 Output File: ^JA505::U5  
 Data File: >JA505::U4  
 Name:  
 Misc: IN08

Quant Rev: 7      Quant Time: 891108 18:44  
                   Injected at: 891108 18:04  
                   Dilution Factor: 1.00000  
                   Instrument ID: JA

ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891108 16:21

Compound	R.T.	Scan#	Height	Conc	Units	q
1) #Alpha-BHC	5.32	319	313922	1.25	UG/ML	100
3) #Beta-BHC	8.42	505	112320	7.31	UG/ML	100
5) #Delta-BHC	9.75	585	159489	.0272	UG/ML	100
8) #gamma-Chlordane	16.30	978	142337	.0271	UG/ML	100
9) #alpha-Chlordane	17.35	1041	138433	.0268	UG/ML	100
11) #4,4'-ODE	19.68	1181	235969	.0538	UG/ML	100
13) #Endrin	22.37	1342	123585	.0508	UG/ML	100
14) #4,4'-DDD	24.63	1478	178241	.0533	UG/ML	100
18) #Endosulfan sulfate	30.43	1826	85952	.0502	UG/ML	100
19) #Dibutylchlorodate	34.65	2079	117697	.0536	UG/ML	100
20) #Endrin ketone	35.70	2142	130113	.0514	UG/ML	100

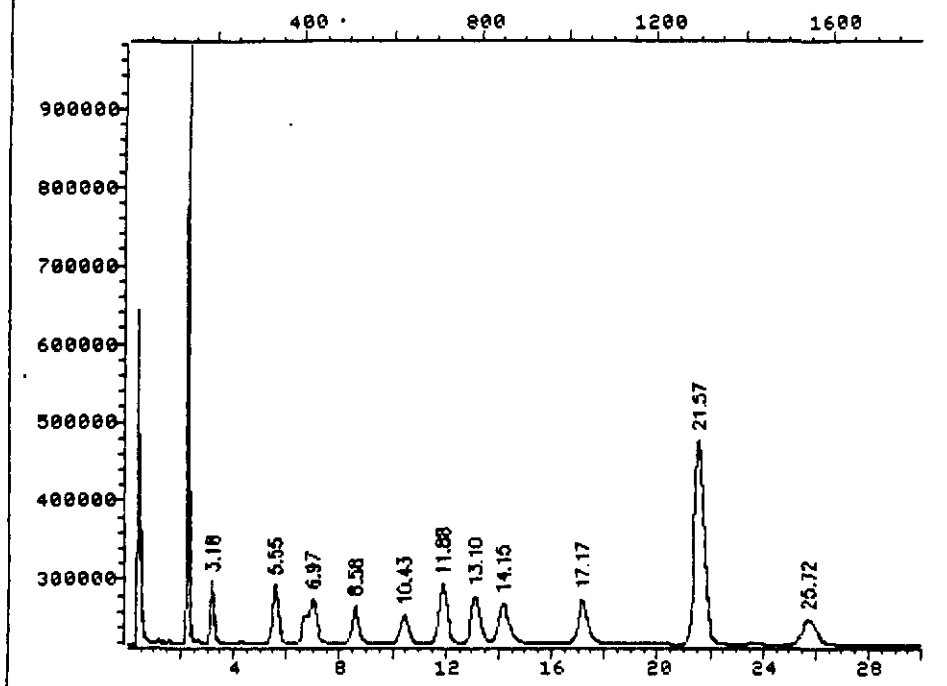
KA 11/01/89

\* Compound uses ESTD

CHROMATOGRAM

File >KB088 1.0 amu.

INDA



Data File: >KB088::U2  
Name:  
Misc: INDA

Quant Output File: ^KB088::AQ  
Instrument ID: KA  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 08:24

11/21/89

Operator ID: YY6148  
Quant Time: 891116 14:34  
Injected at: 891116 13:28



QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB088::AQ  
 Data File: >KB088::U2  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891116 14:34  
 Injected at: 891116 13:28  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   KB

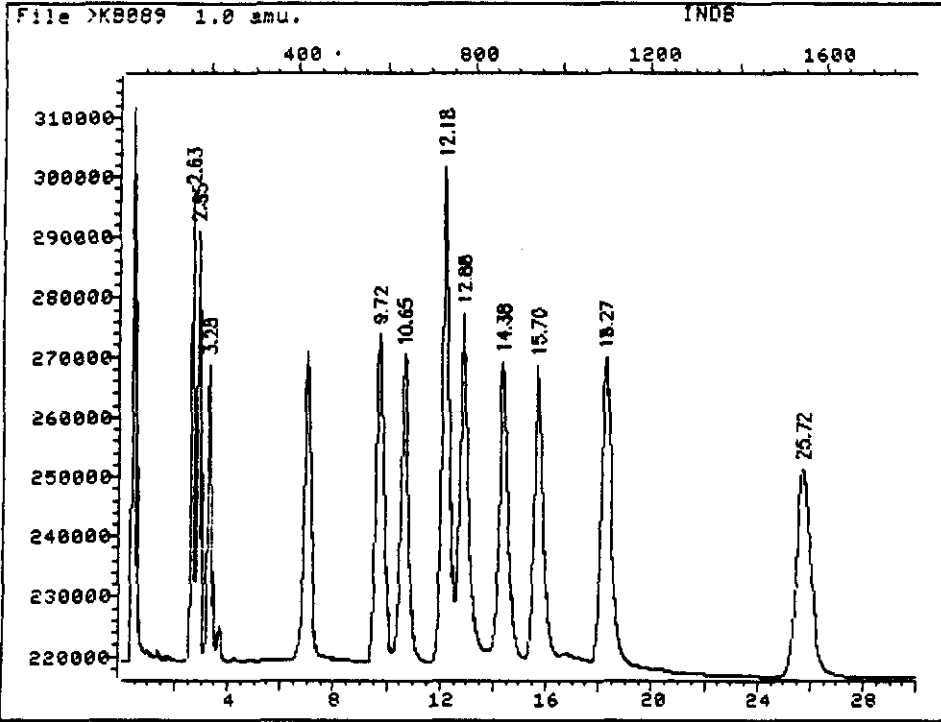
ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 08:24

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	3.18	191	77184	.0232	UG/ML	100
4) #Heptachlor	5.55	333	73920	.0243	UG/ML	100
6) #Aldrin	6.97	418	55360	.0235	UG/ML	100
7) #Heptachlor epoxide	8.58	515	46976	.0248	UG/ML	100
10) #Endosulfan I	10.43	626	36288	.0245	UG/ML	100
12) #Dieldrin	11.88	713	74048	.0509	UG/ML	100
15) #Endosulfan II	13.10	786	59776	.0504	UG/ML	100
16) #4,4'-DDT	17.17	1030	55616	.0541	UG/ML	100
17) #Endrin aldehyde	14.15	849	50240	.0504	UG/ML	100
19) #Dibutylchloroendate	25.72	1543	32960	.0470	UG/ML	100
21) #Methoxychlor	21.57	1294	258497	.280	UG/ML	100

# Compound uses ESTD

*u/2/85*

CHROMATOGRAM



Data File: >KB089::U2  
Name:  
Misc: INDB

Quant Output File: ^KB089::AQ  
Instrument ID: KA  
FB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 08:24

*11/21/98*

Operator ID: YY6148  
Quant Time: 891116 14:37  
Injected at: 891116 14:03

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB089::AQ  
 Data File: >KB089::U2  
 Name:  
 Misc: INDB

Quant Rev: 7      Quant Time: 891116 14:37  
 Injected at: 891116 14:03  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
 K/B

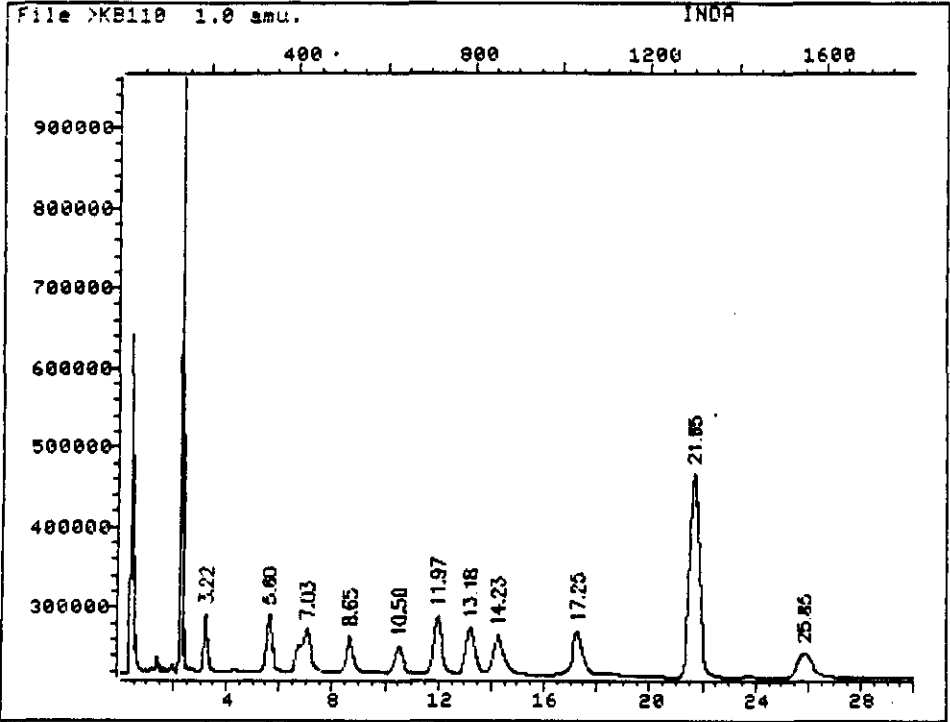
ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 08:24

Compound	R.T.	Scan#	Height	Conc	Units	q
1) #Alpha-BHC	2.63	158	77952	.0223	UG/ML	100
3) #Beta-BHC	2.85	171	70831	.0234	UG/ML	100
5) #Delta-BHC	3.28	197	49408	.0231	UG/ML	100
8) #gamma-Chlordane	9.72	583	54848	.0255	UG/ML	100
9) #alpha-Chlordane	10.65	639	51200	.0254	UG/ML	100
11) #4,4'-DDE	12.18	731	82496	.0527	UG/ML	100
13) #Endrin	12.88	773	56256	.0528	UG/ML	100
14) #4,4'-DDD	14.38	863	49600	.0550	UG/ML	100
18) #Endosulfan sulfate	15.70	942	48896	.0551	UG/ML	100
19) #Dibutylchlorodate	25.72	1543	34496	.0492	UG/ML	100
20) #Endrin ketone	18.27	1096	51328	.0516	UG/ML	100

# Compound uses ESTD

*u/21/89*

CHROMATOGRAM



Data File: >KB110::U2  
Name:  
Misc: INDA

Quant Output File: ^KB110::AQ  
Instrument ID: KA  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 20:42

Operator ID: YY6148  
Quant Time: 891117 02:54  
Injected at: 891117 02:23

4/21/89

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB110::AQ  
 Data File: >KB110::U2  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891117 02:54  
 Injected at: 891117 02:23  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
 KB

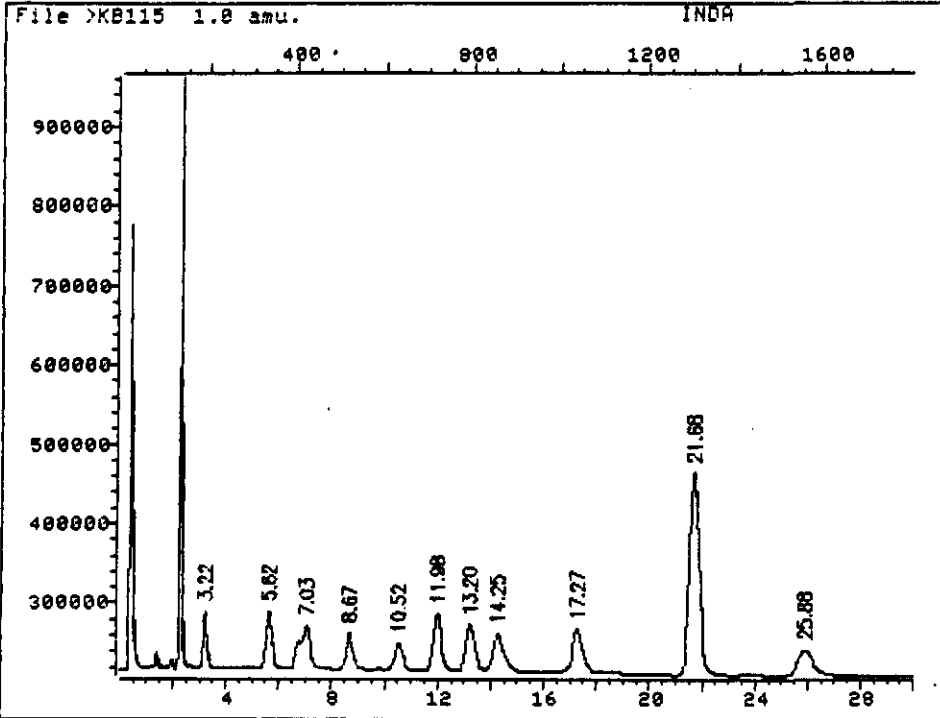
ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 20:42

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	3.22	193	72576	.0235	UG/ML	100
4) #Heptachlor	5.60	336	72640	.0246	UG/ML	100
6) #Aldrin	7.03	422	54528	.0246	UG/ML	100
7) #Heptachlor epoxide	8.65	519	46144	.0246	UG/ML	100
10) #Endosulfan I	10.50	630	35904	.0247	UG/ML	100
12) #Dieldrin	11.97	718	72384	.0489	UG/ML	100
15) #Endosulfan II	13.18	791	58240	.0487	UG/ML	100
16) #4,4'-DDT	17.25	1035	55104	.0495	UG/ML	100
17) #Endrin aldehyde	14.23	854	48512	.0483	UG/ML	100
19) #Dibutylchlorodate	25.85	1551	32064	.0486	UG/ML	100
21) #Methoxychlor	21.65	1299	255425	.247	UG/ML	100

# Compound uses ESTD

*11/21/89*

CHROMATOGRAM



Data File: >KB115::U2  
Name:  
Misc: INDA

Quant Output File: ^KB115::AQ  
Instrument ID: KA  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 20:42

*11/2/89*

● Operator ID: YY6148  
Quant Time: 891117 05:50  
Injected at: 891117 05:19

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB115::AQ  
 Data File: >KB115::U2  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891117 05:50  
 Injected at: 891117 05:19  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
 KB

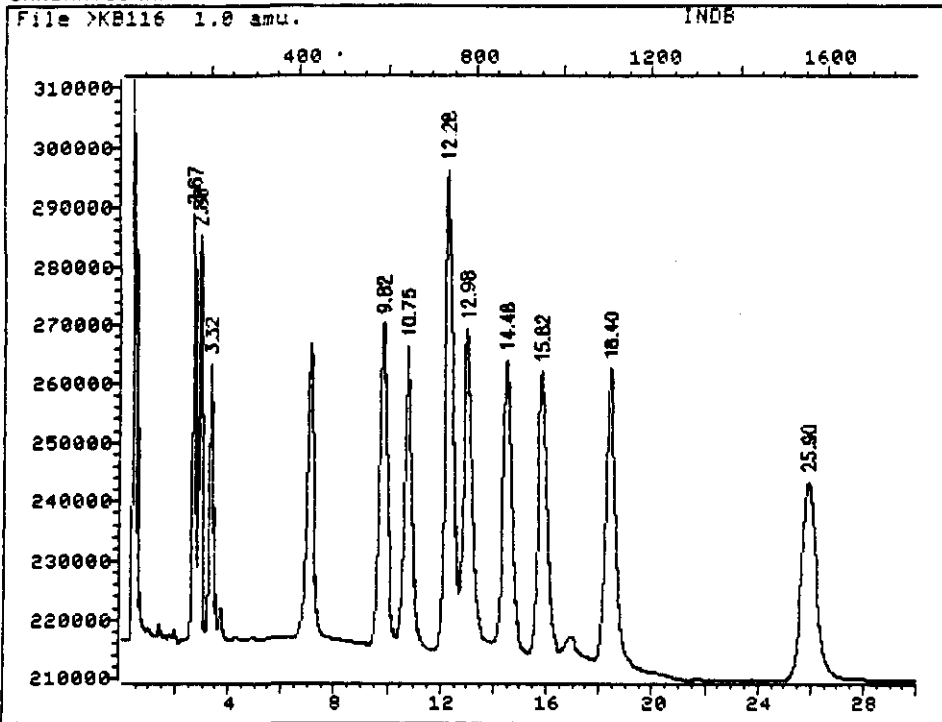
ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 20:42

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	3.22	193	71680	.0232	UG/ML	100
4) #Heptachlor	5.62	337	71936	.0243	UG/ML	100
6) #Aldrin	7.03	422	54016	.0244	UG/ML	100
7) #Heptachlor epoxide	8.67	520	45952	.0245	UG/ML	100
10) #Endosulfan I	10.52	631	35648	.0246	UG/ML	100
12) #Dieldrin	11.98	719	71936	.0486	UG/ML	100
15) #Endosulfan II	13.20	792	57728	.0483	UG/ML	100
16) #4,4'-DDT	17.27	1036	54144	.0487	UG/ML	100
17) #Endrin aldehyde	14.25	855	48064	.0478	UG/ML	100
19) #Dibutylchlorodate	25.88	1553	31680	.0481	UG/ML	100
21) #Methoxychlor	21.68	1301	253953	.246	UG/ML	100

# Compound uses ESTD

*11/21/89*

CHROMATOGRAM



Data File: >KB116::U2  
Name:  
Misc: INDB

Quant Output File: ^KB116::AQ  
Instrument ID: KA  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 20:42

11/2/89

Operator ID: YY6148  
Quant Time: 891117 06:25  
Injected at: 891117 05:54



QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB116::AQ  
 Data File: >KB116::U2  
 Name:  
 Misc: INDB

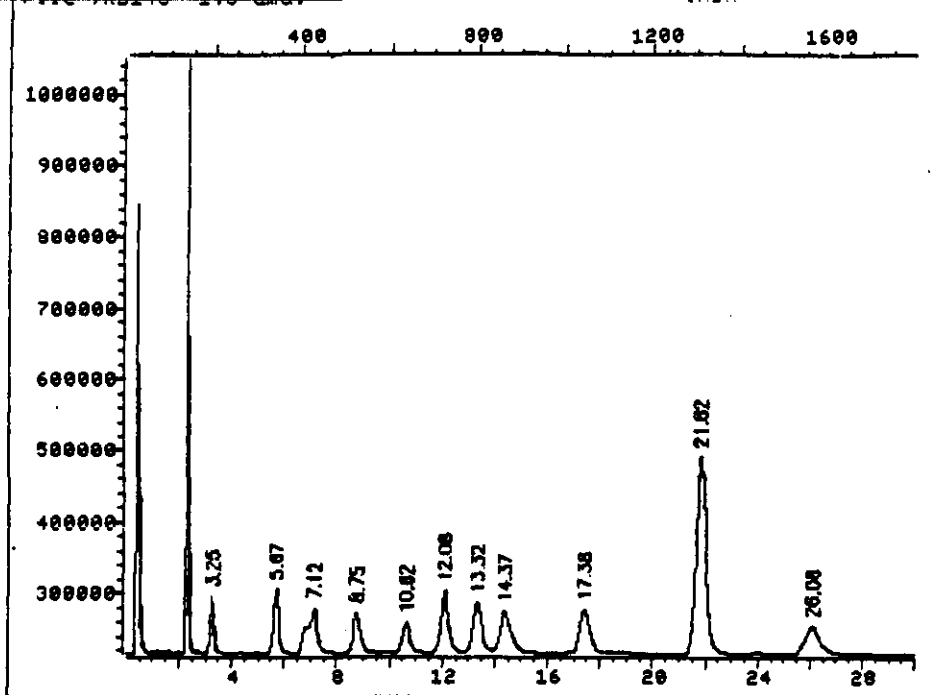
Quant Rev: 7      Quant Time: 891117 06:25  
 Injected at: 891117 05:54  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   GB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 20:42

Compound	R.T.	Scan#	Height	Conc	Units	q
1) #Alpha-BHC	2.67	160	72320	.0232	UG/ML	100
3) #Beta-BHC	2.88	173	67951	.0240	UG/ML	100
5) #Delta-BHC	3.32	199	46656	.0236	UG/ML	100
8) #gamma-Chlordane	9.82	589	54528	.0249	UG/ML	100
9) #alpha-Chlordane	10.75	645	51008	.0249	UG/ML	100
11) #4,4'-DDE	12.28	737	81280	.0493	UG/ML	100
13) #Endrin	12.98	779	52928	.0470	UG/ML	100
14) #4,4'-DDD	14.48	869	49600	.0500	UG/ML	100
18) #Endosulfan sulfate	15.82	949	47488	.0486	UG/ML	100
19) #Dibutylchlorodate	25.90	1554	33536	.0509	UG/ML	100
20) #Endrin ketone	18.40	1104	50304	.0490	UG/ML	100

# Compound uses ESTD

*11/21/89*



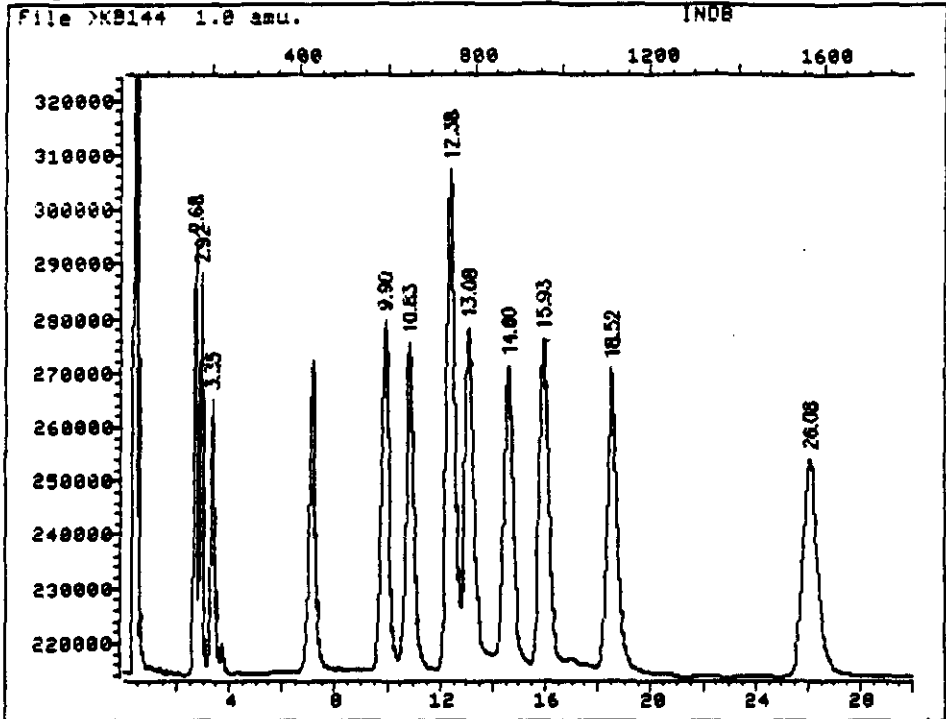
Data File: >KB143::U2  
Name:  
Misc: INDA

Quant Output File: ^KB143::AQ  
Instrument ID: KA

Id File: I048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891117 13:02

Operator ID: KT8582  
Quant Time: 891120 23:51  
Injected at: 891120 23:20

CHROMATOGRAM



Data File: >KB144::U2  
Name:  
Misc: INDB

Quant Output File: ^KB144::AQ  
Instrument ID: KA

Id File: 1048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891117 13:02

Operator ID: KT8582  
Quant Time: 891121 00:26  
Injected at: 891120 23:56

Operator ID: KT8582  
Output File: ^KB144::AQ  
Data File: >KB144::U2  
Name:  
Misc: INDB

Quant Rev: 7      Quant Time: 891121 00:26  
                  Injected at: 891120 23:56  
Dilution Factor: 1.00000  
Instrument ID: KA

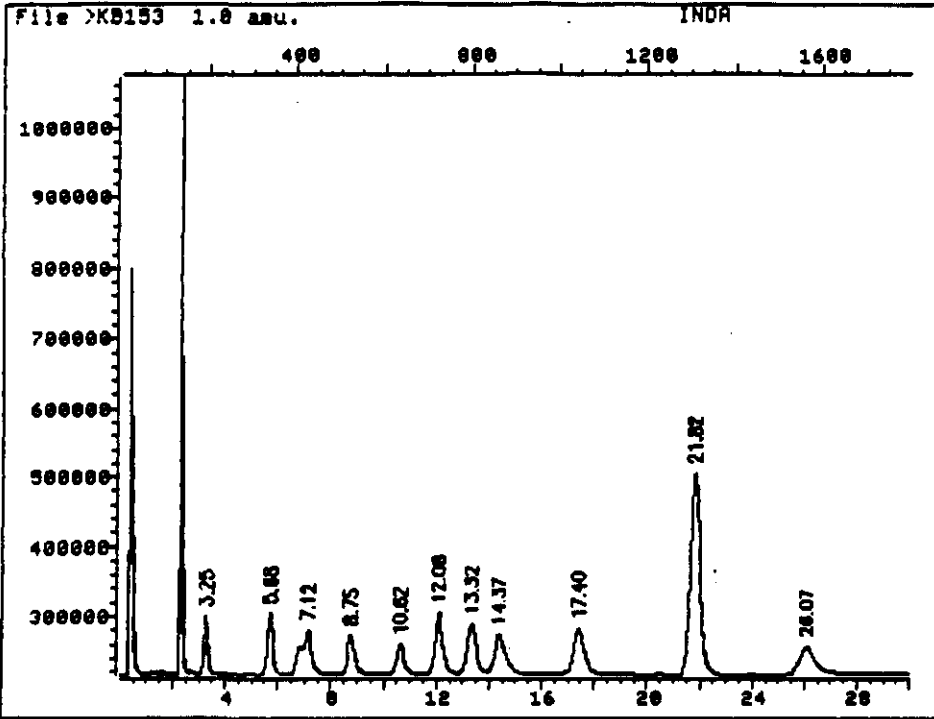
ID File: I048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891117 13:02

Compound	R.T.	Scan#	Height	Conc	Units	q
1) #Alpha-BHC	2.68	161	80256	.0273	UG/ML	100
3) #Beta-BHC	2.92	175	73454	.0267	UG/ML	100
5) #Delta-BHC	3.35	201	50816	.0273	UG/ML	100
8) #gamma-Chlordane	9.90	594	64896	.0293	UG/ML	100
9) #alpha-Chlordane	10.83	650	60288	.0290	UG/ML	100
11) #4,4'-DDE	12.38	743	92352	.0560	UG/ML	100
13) #Endrin	13.08	785	60969	.0573	UG/ML	100
14) #4,4'-DDD	14.60	876	55232	.0549	UG/ML	100
18) #Endosulfan sulfate	15.93	956	60096	.0621	UG/ML	100
19) #Dibutylchlorendate	26.08	1565	40320	.0631	UG/ML	100
20) #Endrin ketone	18.52	1111	55744	.0551	UG/ML	100

# Compound uses ESTD

*24 11/2/89*

CHROMATOGRAM



Date File: >KB153::U2  
Name:  
Misc: INDA

Quant Output File: ^KB153::AQ  
Instrument ID: KA

Id File: 1048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891121 00:44

Operator ID: KT8582  
Quant Time: 891121 05:44  
Injected at: 891121 05:13

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB153::AQ  
 Data File: >KB153::U2  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891121 05:44  
 Injected at: 891121 05:13  
 Dilution Factor: 1.00000  
 Instrument ID: KA

ID File: I048IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891121 00:44

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	3.25	195	83392	.0260	UG/ML	100
4) #Heptachlor	5.68	341	89600	.0246	UG/ML	100
6) #Aldrin	7.12	427	63444	.0254	UG/ML	100
7) #Heptachlor epoxide	8.75	525	56512	.0250	UG/ML	100
10) #Endosulfan I	10.62	637	43648	.0251	UG/ML	100
12) #Dieldrin	12.08	725	88768	.0507	UG/ML	100
15) #Endosulfan II	13.32	799	72256	.0511	UG/ML	100
16) #4,4'-DDT	17.40	1044	65152	.0529	UG/ML	100
17) #Endrin aldehyde	14.37	862	56128	.0497	UG/ML	100
19) #Dibutylchlorodate	26.07	1564	40064	.0514	UG/ML	100
21) #Methoxychlor	21.82	1309	290498	.263	UG/ML	100

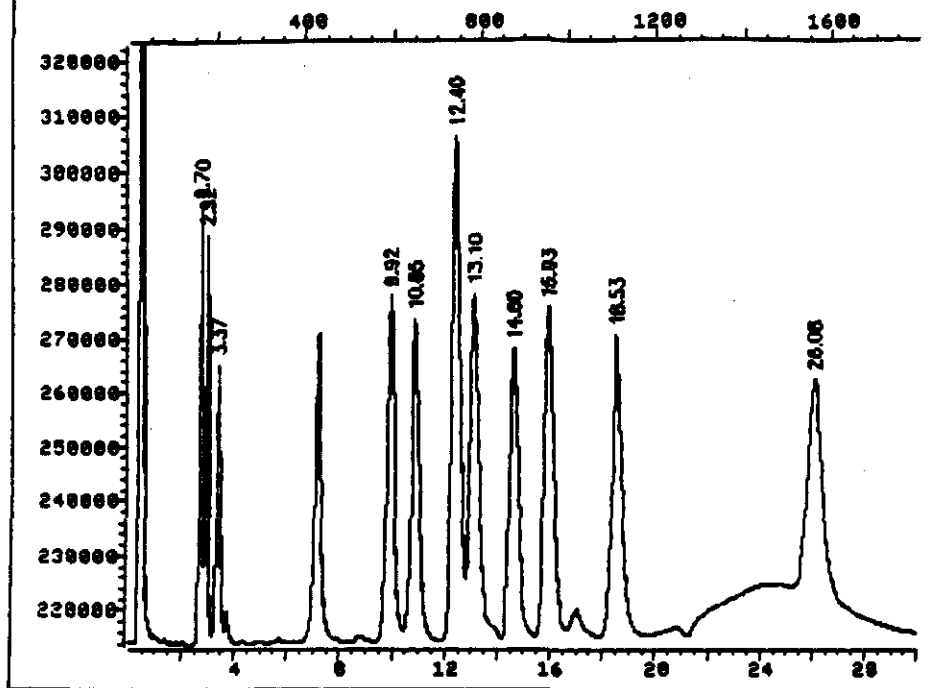
\* Compound uses ESTD

*KA 11/21/89*

CHROMATOGRAM

File >KB154 1.0 auu.

INDB



Date File: >KB154::U2  
Name:  
Misc: INDB

Quant Output File: ^KB154::AQ  
Instrument ID: KA

Id File: 1048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891121 00:44

Operator ID: KT8582  
Quant Time: 891121 06:19  
Injected at: 891121 05:48

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB154::AQ  
 Data File: >KB154::U2  
 Name:  
 Misc: INDB

Quant Rev: 7      Quant Time: 891121 06:19  
 Injected at: 891121 05:48  
 Dilution Factor: 1.00000  
 Instrument ID: KA

ID File: I048IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891121 00:44

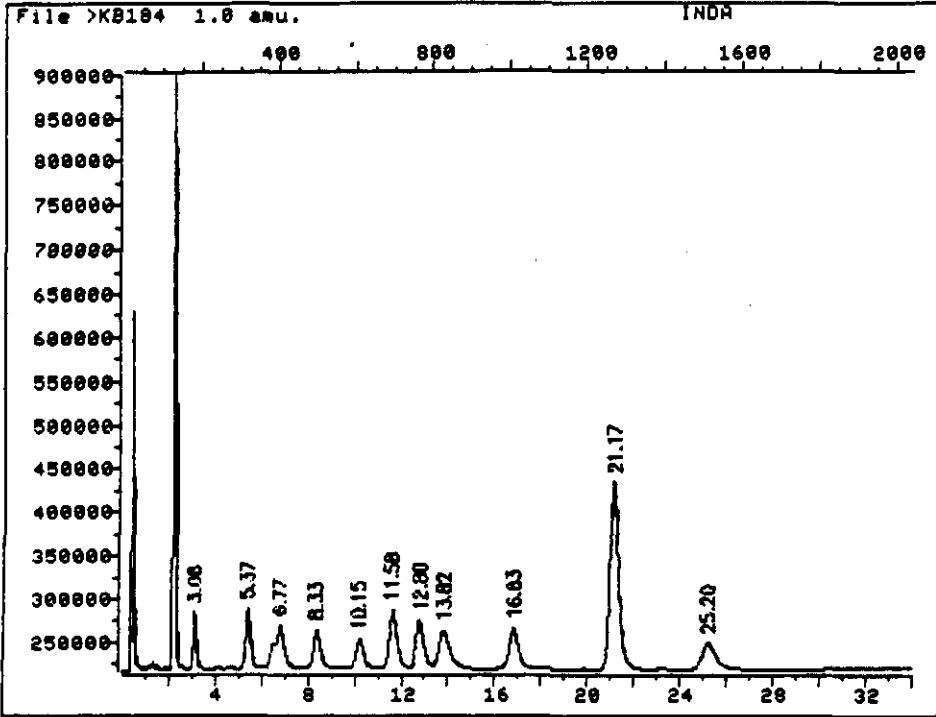
Compound	R.T.	Scan#	Height	Conc	Units	q
1) #Alpha-BHC	2.70	162	80512	.0251	UG/ML	100
3) #Beta-BHC	2.92	175	74522	.0254	UG/ML	100
5) #Delta-BHC	3.37	202	51136	.0252	UG/ML	100
8) #gamma-Chlordane	9.92	595	63552	.0245	UG/ML	100
9) #alpha-Chlordane	10.85	651	59008	.0245	UG/ML	100
11) #4,4'-DDE	12.40	744	91968	.0498	UG/ML	100
13) #Endrin	13.10	786	62529	.0513	UG/ML	100
14) #4,4'-DDD	14.60	876	53376	.0483	UG/ML	100
18) #Endosulfan sulfate	15.93	956	60416	.0503	UG/ML	100
19) #Dibutylchlorodate	26.08	1565	42048	.0539	UG/ML	100
20) #Endrin ketone	18.53	1112	55552	.0498	UG/ML	100

*and 11/21/89*

\* Compound uses ESTD



CHROMATOGRAM



Data File: >KB184::U2  
Name:  
Misc: INDA

Quant Output File: ^KB184::AQ  
Instrument ID: KA  
KB

Id File: 1076IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891122 15:26

4/28/89

Operator ID: KT8582  
Quant Time: 891128 00:20  
Injected at: 891127 21:36

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB184::AQ  
 Data File: >KB184::U2  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891128 00:20  
 Injected at: 891127 21:36  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
 KB

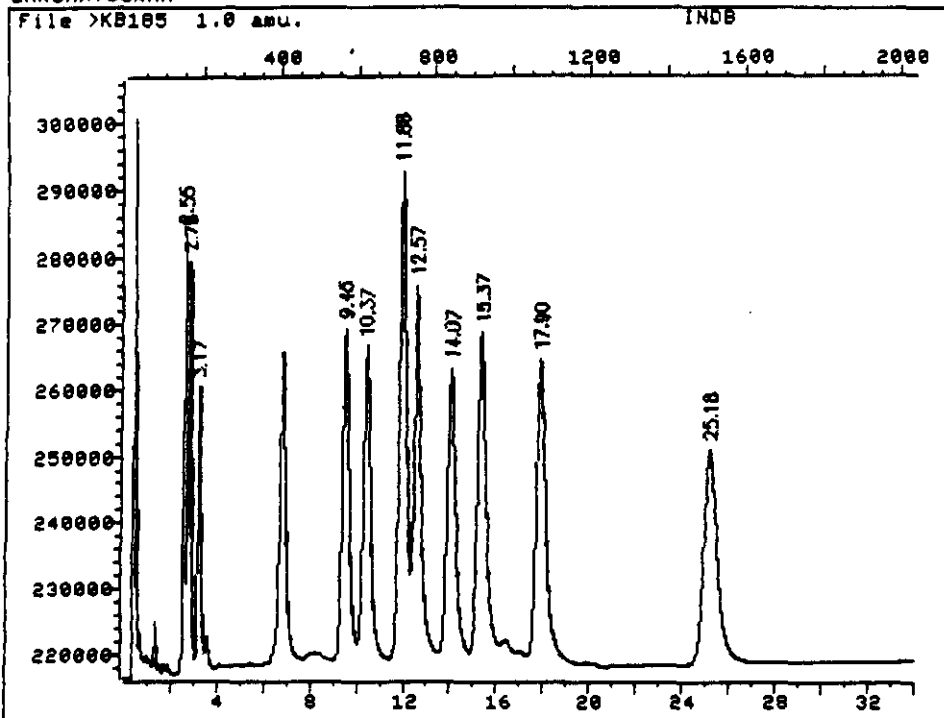
ID File: I076IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891122 15:26

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	3.08	185	64832	.0250	UG/ML	100
4) #Heptachlor	5.37	322	69376	.0235	UG/ML	100
6) #Aldrin	6.77	406	48811	.0225	UG/ML	100
7) #Heptachlor epoxide	8.33	500	44416	.0236	UG/ML	100
10) #Endosulfan I	10.15	609	33792	.0237	UG/ML	100
12) #Dieldrin	11.58	695	66944	.0458	UG/ML	100
15) #Endosulfan II	12.80	768	54272	.0468	UG/ML	100
16) #4,4'-DDT	16.83	1010	46656	.0447	UG/ML	100
17) #Endrin aldehyde	13.82	829	42880	.0444	UG/ML	100
19) #Dibutylchlorodate	25.20	1512	30720	.0493	UG/ML	100
21) #Methoxychlor	21.17	1270	215361	.235	UG/ML	100

\* Compound uses ESTD

*11/28/89*

CHROMATOGRAM



Data File: >KB185::U2  
Name:  
Misc: INDB

Quant Output File: ^KB185::AQ  
Instrument ID: KA

Id File: 1076IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891122 15:26

KB  
4/28/89

Operator ID: KT8582  
Quant Time: 891128 00:21  
Injected at: 891127 22:15

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB185::AQ  
 Data File: >KB185::U2  
 Name:  
 Misc: INDB

Quant Rev: 7      Quant Time: 891128 00:21  
 Injected at: 891127 22:15  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
 KB

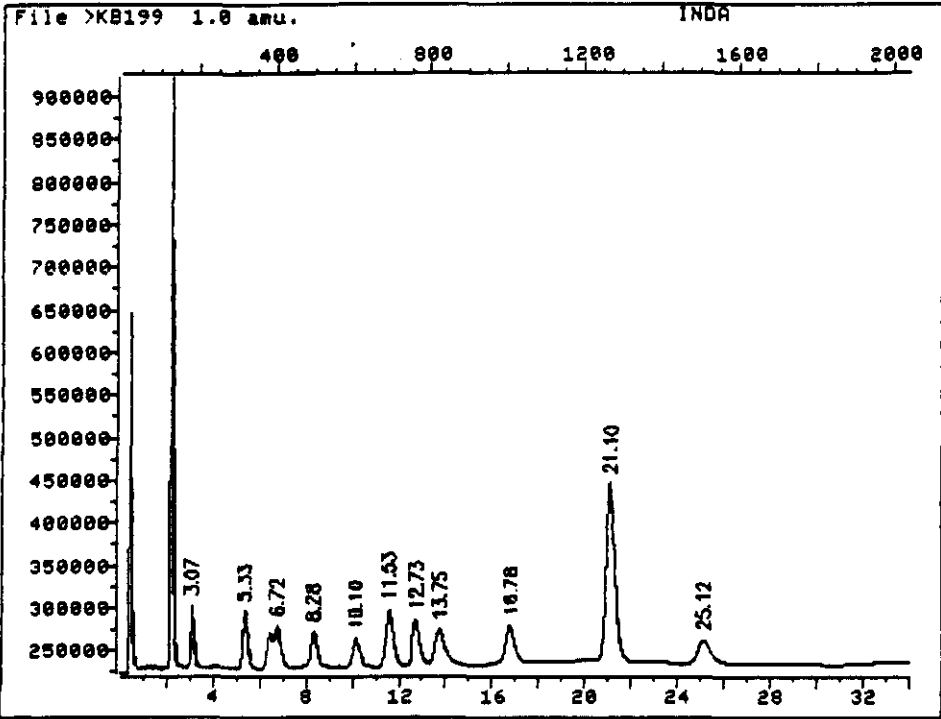
ID File: 1076IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891122 15:26

Compound	R.T.	Scan#	Height	Conc	Units	q
1) #Alpha-BHC	2.55	153	66752	.0260	UG/ML	100
3) #Beta-BHC	2.75	165	61360	.0253	UG/ML	100
5) #Delta-BHC	3.17	190	42851	.0256	UG/ML	100
8) #gamma-Chlordane	9.45	567	50432	.0229	UG/ML	100
9) #alpha-Chlordane	10.37	622	47296	.0232	UG/ML	100
11) #4,4'-DDE	11.88	713	73536	.0451	UG/ML	100
13) #Endrin	12.57	754	55488	.0625	UG/ML	100
14) #4,4'-DDD	14.07	844	43200	.0418	UG/ML	100
18) #Endosulfan sulfate	15.37	922	48640	.0492	UG/ML	100
19) #Dibutylchlorodate	25.18	1511	32576	.0523	UG/ML	100
20) #Endrin ketone	17.90	1074	45184	.0468	UG/ML	100

\* Compound uses ESTD

*4/28/89*

CHROMATOGRAM



Data File: >KB199::U2  
Name:  
Misc: INDA

Quant Output File: ^KB199::AQ  
Instrument ID: KA  
KB

Id File: I076IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891128 00:29

Operator ID: KT8582  
Quant Time: 891128 09:39  
Injected at: 891128 09:03

*11/28/89*

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB199::AQ  
 Data File: >KB199::U2  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891128 09:39  
 Injected at: 891128 09:03  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
 KD

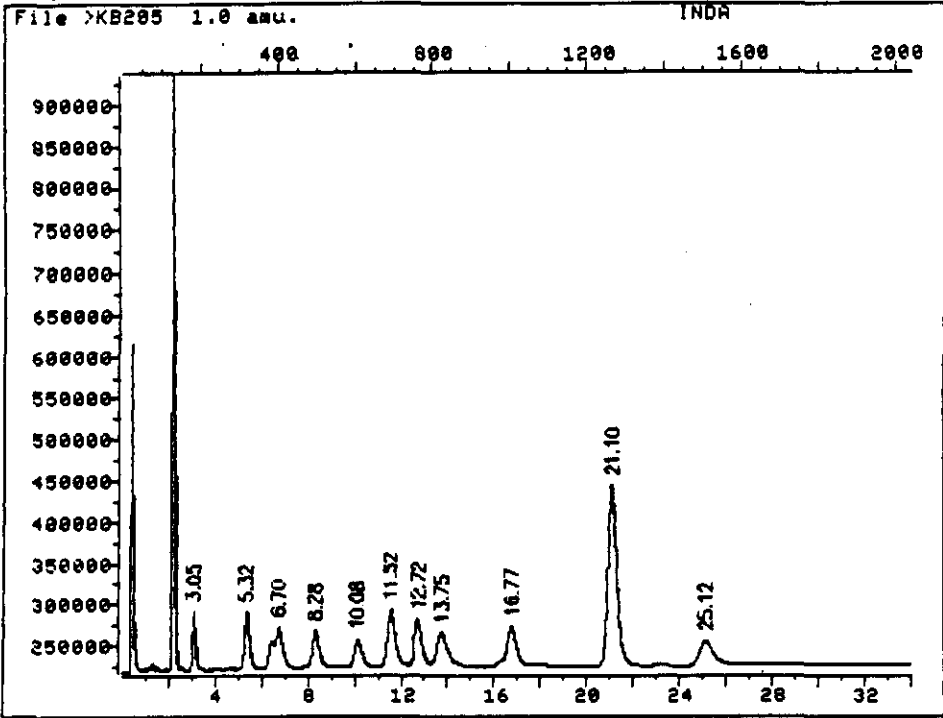
ID File: I0761C::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891128 00:29

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	3.07	184	72000	.0278	UG/ML	100
4) #Heptachlor	5.33	320	67712	.0244	UG/ML	100
6) #Aldrin	6.72	403	49869	.0255	UG/ML	100
7) #Heptachlor epoxide	8.28	497	43904	.0247	UG/ML	100
10) #Endosulfan I	10.10	606	33472	.0248	UG/ML	100
12) #Dieldrin	11.53	692	66688	.0498	UG/ML	100
15) #Endosulfan II	12.73	764	54208	.0499	UG/ML	100
16) #4,4'-DDT	16.78	1007	46528	.0499	UG/ML	100
17) #Endrin aldehyde	13.75	825	41152	.0480	UG/ML	100
19) #Dibutylchlorodate	25.12	1507	28416	.0463	UG/ML	100
21) #Methoxychlor	21.10	1266	210433	.244	UG/ML	100

# Compound uses ESTD

*4/28/89*

CHROMATOGRAM



Data File: >KB205::U2  
Name:  
Misc: INDA

Quant Output File: ^KB205::AQ  
Instrument ID: KA  
K3

Id File: 1076IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891128 00:29

*11/28/89*

Operator ID: KT8582  
Quant Time: 891128 13:33  
Injected at: 891128 12:59

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB205::AQ  
 Data File: >KB205::U2  
 Name:  
 Misc: INDA

Quant Rev: 7      Quant Time: 891128 13:33  
 Injected at: 891128 12:59  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
 123

ID File: 1076IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891128 00:29

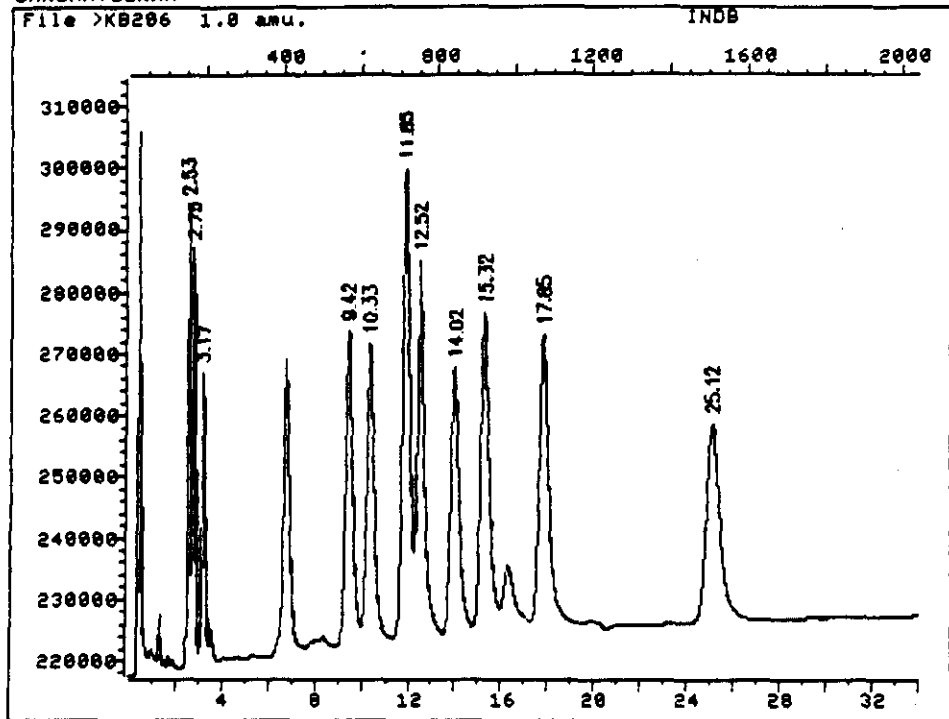
Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	3.05	183	72064	.0278	UG/ML	100
4) #Heptachlor	5.32	319	70592	.0254	UG/ML	100
6) #Aldrin	6.70	402	50661	.0259	UG/ML	100
7) #Heptachlor epoxide	8.28	497	45760	.0258	UG/ML	100
10) #Endosulfan I	10.08	605	33984	.0251	UG/ML	100
12) #Dieldrin	11.52	691	68416	.0511	UG/ML	100
15) #Endosulfan II	12.72	763	55616	.0512	UG/ML	100
16) #4,4'-DDT	16.77	1006	48192	.0516	UG/ML	100
17) #Endrin aldehyde	13.75	825	41024	.0478	UG/ML	100
19) #Dibutylchlorodate	25.12	1507	30208	.0492	UG/ML	100
21) #Methoxychlor	21.10	1266	219329	.255	UG/ML	100

# Compound uses ESTD

*u/28/85*



CHROMATOGRAM



Data File: >KB206::U2  
Name:  
Misc: INDB

Quant Output File: ^KB206::AQ  
Instrument ID: KA  
KS

Id File: I0761C::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891128 00:29

Operator ID: KT8582  
Quant Time: 891128 14:13  
Injected at: 891128 13:38

*KS*  
*11/28/89*

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB206::AQ  
 Data File: >KB206::U2  
 Name:  
 Misc: INDB

Quant Rev: 7      Quant Time: 891128 14:13  
 Injected at: 891128 13:38  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
 (KB)

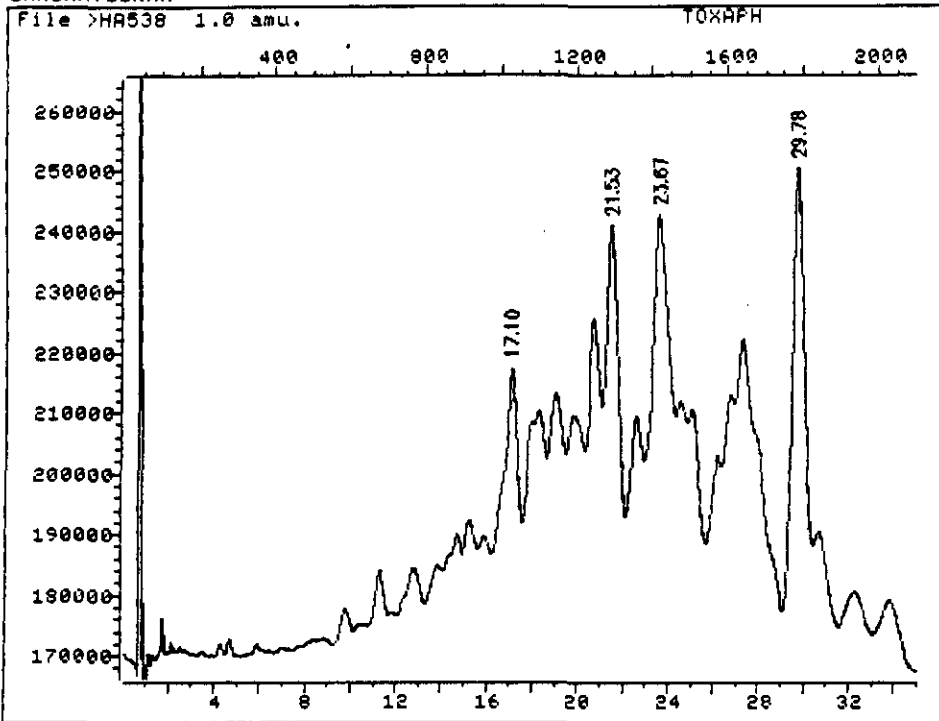
ID File: I0761C::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891128 00:29

Compound	R.T.	Scan#	Height	Conc	Units	q
1) #Alpha-BHC	2.53	152	75264	.0282	UG/ML	100
3) #Beta-BHC	2.75	165	66819	.0272	UG/ML	100
5) #Delta-BHC	3.17	190	47322	.0276	UG/ML	100
8) #gamma-Chlordane	9.42	565	51392	.0255	UG/ML	100
9) #alpha-Chlordane	10.33	620	47872	.0253	UG/ML	100
11) #4,4'-DDE	11.85	711	76160	.0518	UG/ML	100
13) #Endrin	12.52	751	60480	.0545	UG/ML	100
14) #4,4'-DDD	14.02	841	43520	.0504	UG/ML	100
18) #Endosulfan sulfate	15.32	919	50880	.0523	UG/ML	100
19) #Dibutylchloroendate	25.12	1507	32384	.0527	UG/ML	100
20) #Endrin ketone	17.85	1071	46656	.0516	UG/ML	100

\* Compound uses ESTD

*11/28/85*

CHROMATOGRAM



Data File: >HA538::U4  
Name:  
Misc: TOXAPH

Quant Output File: ^HA538::AQ  
Instrument ID: HA

Id File: 10501P::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 14:30  
Injected at: 891115 05:30

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA538::AQ  
 Data File: >HA538::U4  
 Name:  
 Misc: TOXAPH

Quant Rev: 7      Quant Time: 891115 14:30  
 Injected at: 891115 05:30  
 Dilution Factor: 1.00000  
 Instrument ID: HA

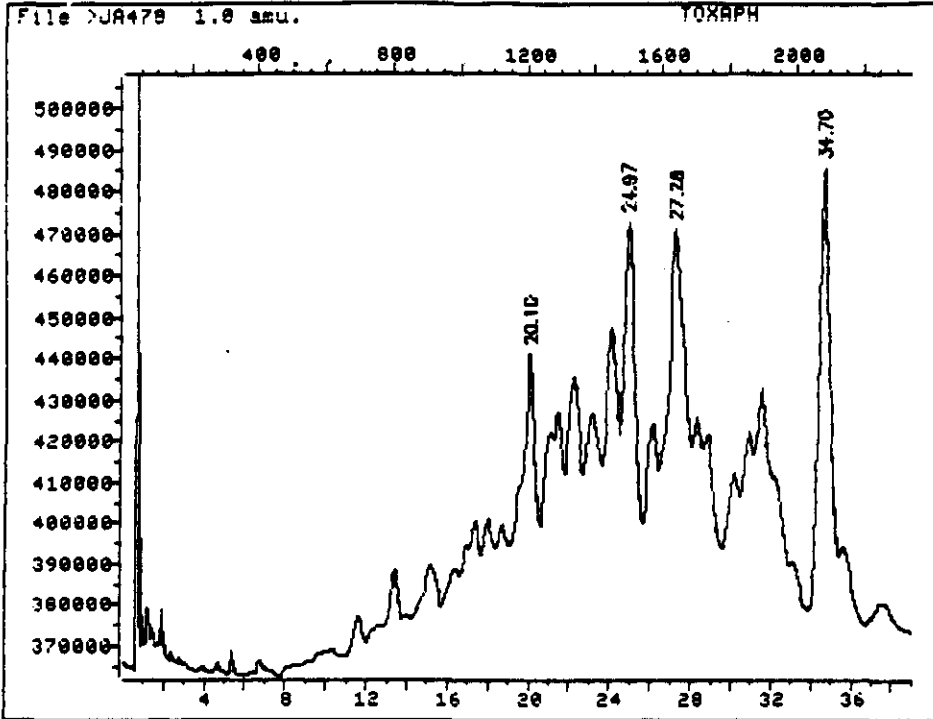
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.78	1785	72960	.0471	UG/ML	100
22) #Toxaphene	23.67	1418	40704	.755	UG/ML	100
23) #Toxaphene-2	21.53	1290	48064	1.97	UG/ML	100
24) #Toxaphene-3	17.10	1024	30592	.897	UG/ML	100

*11/27/89*

# Compound uses ESTD

CHROMATOGRAM



Data File: >JA478  
Name:  
Misc: TOXAPH

Quant. Output File: ^JA478::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:35  
Injected at: 891107 18:01

Operator ID: YY6148  
Output File: ^JA478::U6  
Data File: >JA478::U4  
Name:  
Misc: TOXAPH

Quant Rev: 7      Quant Time: 891108 15:35  
                  Injected at: 891107 18:01  
Dilution Factor: 1.00000  
Instrument ID: JA

ID File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

	Compound	R.T.	Scan#	Height	Conc	Units	q
19)	#Dibutylchloroendate	34.70	2082	106816	.0565	UG/ML	100
22)	#Toxaphene	27.28	1637	58240	.721	UG/ML	100
23)	#Toxaphene-2	24.97	1498	72960	1.41	UG/ML	100
24)	#Toxaphene-3	20.10	1206	46656	1.01	UG/ML	100

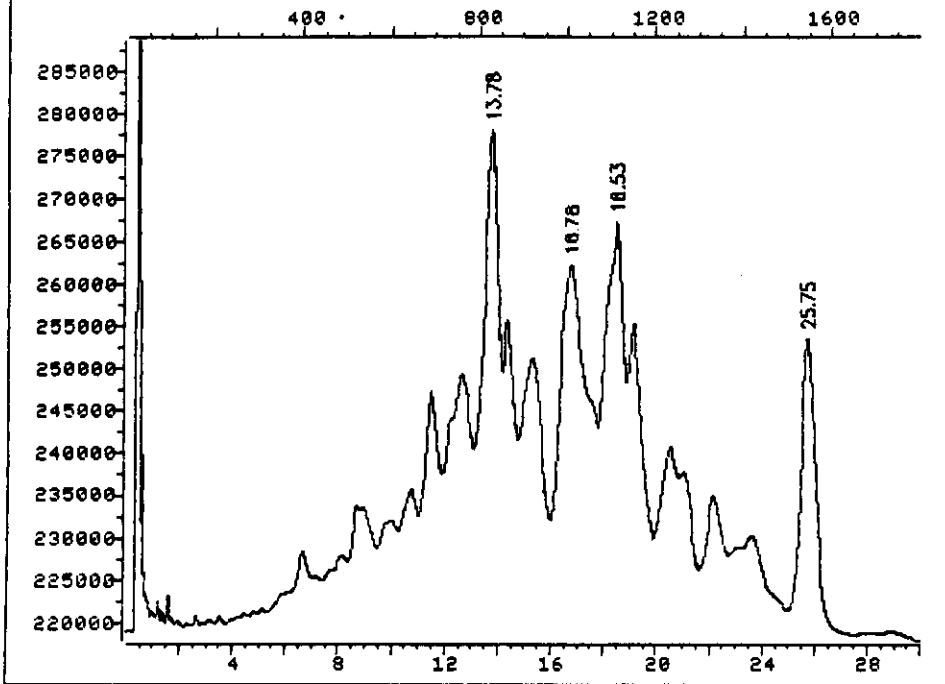
\* Compound uses ESTD

*red 11/21/89*

CHROMATOGRAM

File >KB090 1.0 amu.

TOXAPH



Data File: >KB090::U2  
Name:  
Misc: TOXAPH

Quant Output File: ^KB090::AQ  
Instrument ID: KA  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 08:24

Operator ID: YY6148  
Quant Time: 891116 16:55  
Injected at: 891116 14:38

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB090::AQ  
 Data File: >KB090::U2  
 Name:  
 Misc: TOXAPH

Quant Rev: 7      Quant Time: 891116 16:55  
 Injected at: 891116 14:38  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   KB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 08:24

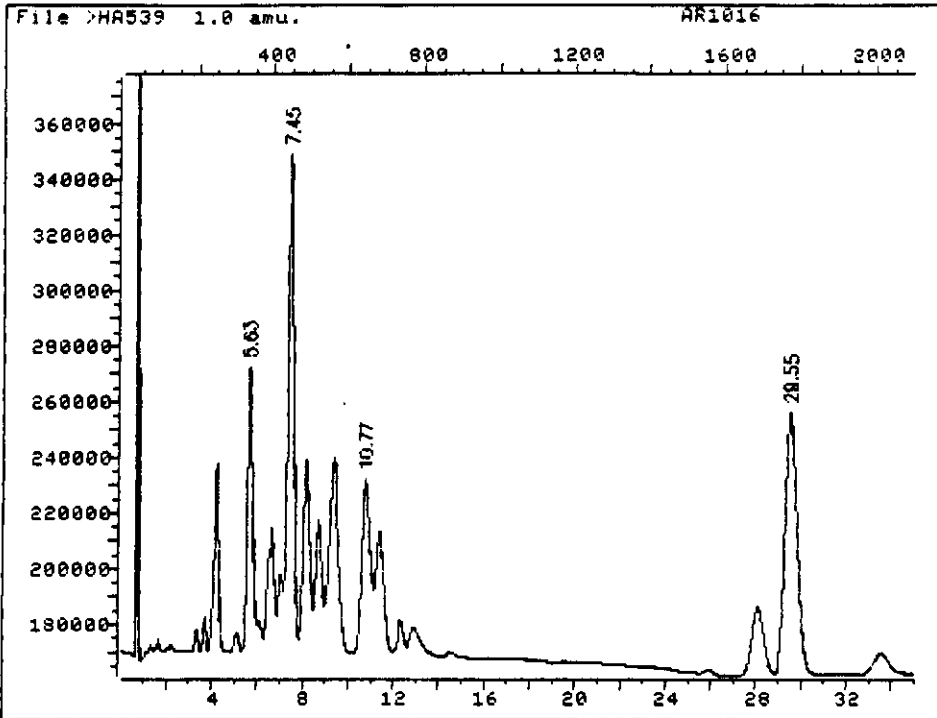
Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	25.75	1545	34496	.0492	UG/ML	100
22) #Toxaphene	13.78	827	37376	37376.00	NO CALIB100	
23) #Toxaphene-2	16.78	1007	30336	30336.00	NO CALIB100	
24) #Toxaphene-3	18.53	1112	30976	30976.00	NO CALIB100	

# Compound uses ESTD

*W*  
 11/21/89



CHROMATOGRAM



Data File: >HA539::U4  
Name:  
Misc: AR1016

Quant Output File: ^HA539::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 14:32  
Injected at: 891115 06:15

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA539::AQ  
 Data File: >HA539::U4  
 Name:  
 Misc: AR1016

Quant Rev: 7      Quant Time: 891115 14:32  
                   Injected at: 891115 06:15  
 Dilution Factor: 1.00000  
 Instrument ID: HA

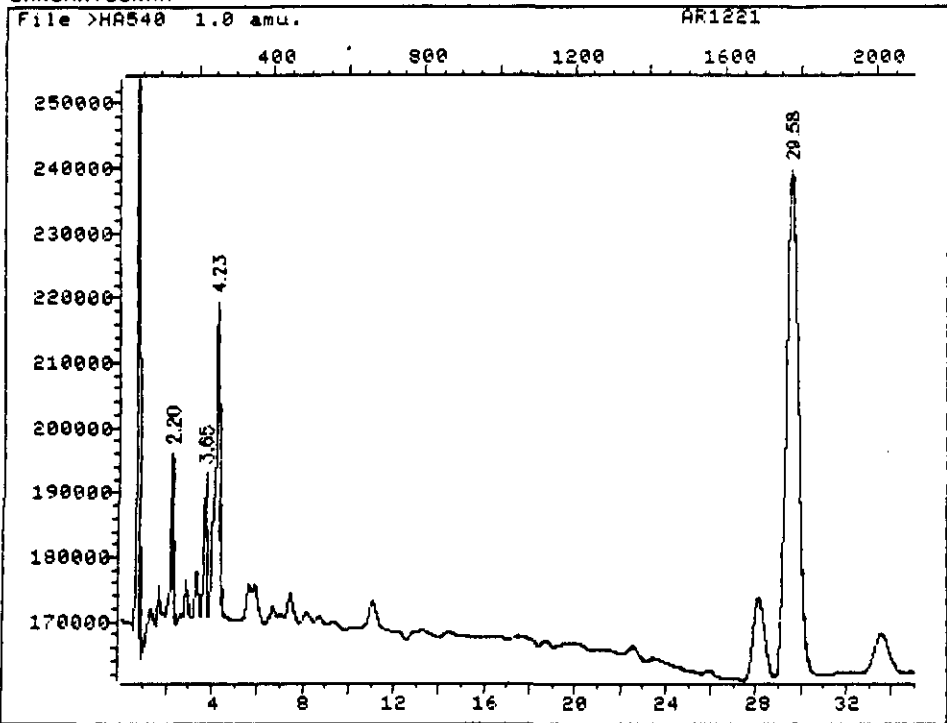
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.55	1771	93761	.0606	UG/ML	100
25) #Aroclor 1016	7.45	445	174081	.226	UG/ML	100
26) #AR 1016-2	5.63	336	101888	.226	UG/ML	100
27) #AR 1016-3	10.77	644	62592	.203	UG/ML	100

# Compound uses ESTD

704 11/21/89

CHROMATOGRAM



Data File: >HA540::U4  
Name:  
Misc: AR1221

Quant Output File: ^HA540::AQ  
Instrument ID: HA

Id File: I0501P::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 14:34  
Injected at: 891115 07:01

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA540::AQ  
 Data File: >HA540::U4  
 Name:  
 Misc: AR1221

Quant Rev: 7      Quant Time: 891115 14:34  
                   Injected at: 891115 07:01  
 Dilution Factor: 1.00000  
 Instrument ID: HA

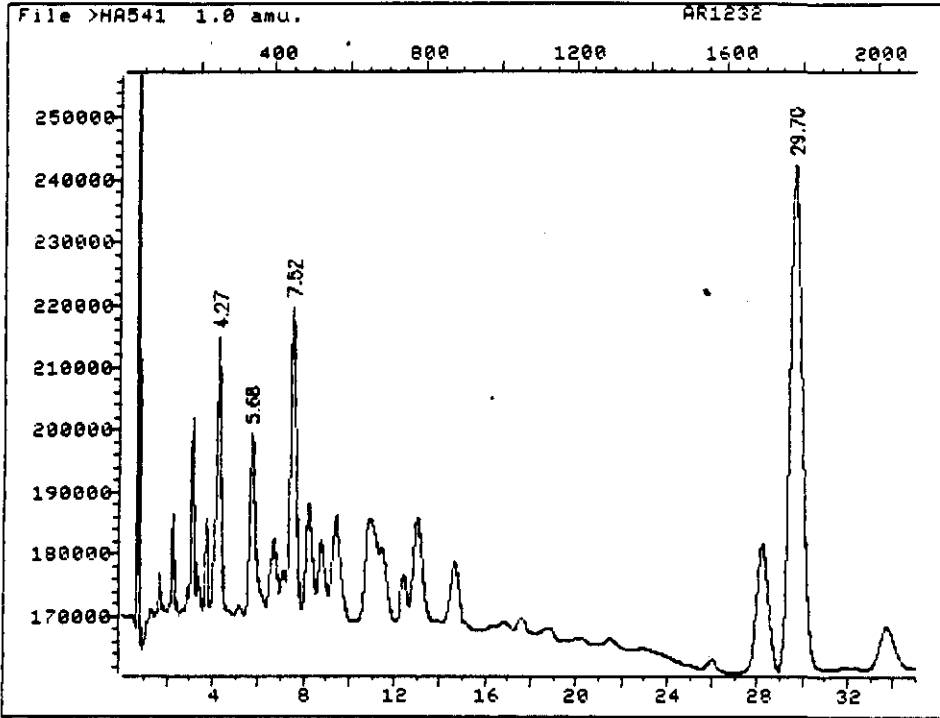
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.58	1773	78209	.0505	UG/ML	100
28) #Aroclor 1221	4.23	252	49024	.211	UG/ML	100
29) #AR 1221-2	2.20	130	26496	.187	UG/ML	100
30) #AR 1221-3	3.65	217	22370	.571	UG/ML	100

*Ad 11/27/89*

# Compound uses ESTD

CHROMATOGRAM



Data File: >HA541::U4  
Name:  
Misc: AR1232

Quant Output File: ^HA541::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 14:36  
Injected at: 891115 07:46

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA541::AQ  
 Data File: >HA541::U4  
 Name:  
 Misc: AR1232

Quant Rev: 7      Quant Time: 891115 14:36  
                   Injected at: 891115 07:46  
 Dilution Factor: 1.00000  
 Instrument ID: HA

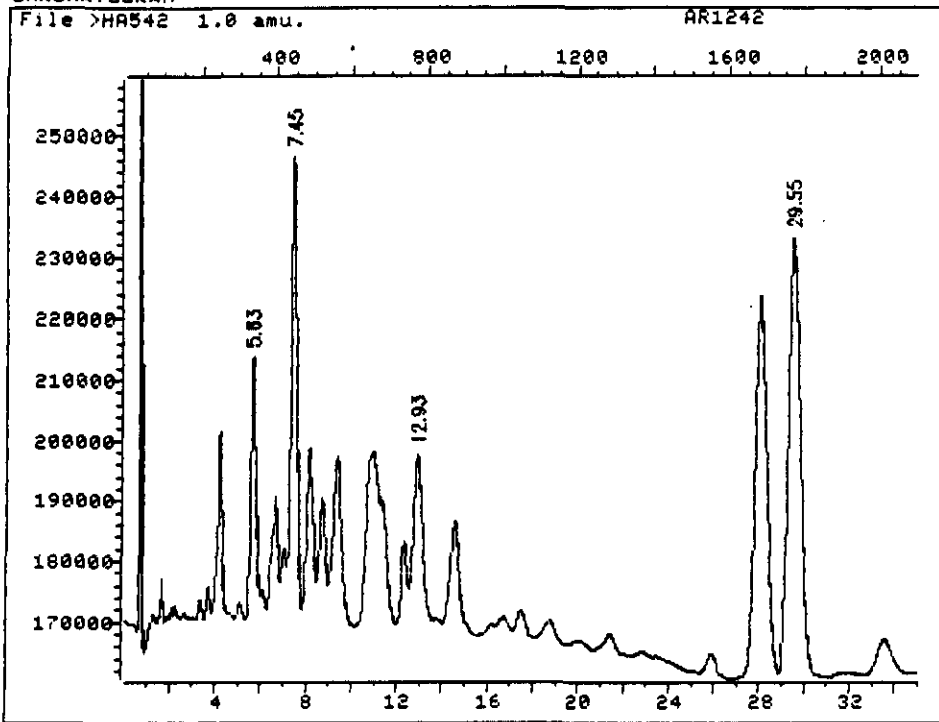
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.70	1780	81089	.0524	UG/ML	100
31) #Aroclor 1232	4.27	254	44480	.199	UG/ML	100
32) #AR 1232-2	5.68	339	29056	.205	UG/ML	100
33) #AR 1232-3	7.52	449	48768	.617	UG/ML	100

*and 11/27/87*

# Compound uses ESTD

CHROMATOGRAM



Data File: >HA542::U4  
Name:  
Misc: AR1242

Quant Output File: ^HA542::AQ  
Instrument ID: HA

Id File: 1050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 14:37  
Injected at: 891115 08:32

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA542::AQ  
 Data File: >HA542::U4  
 Name:  
 Misc: AR1242

Quant Rev: 7      Quant Time: 891115 14:37  
                   Injected at: 891115 08:32  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

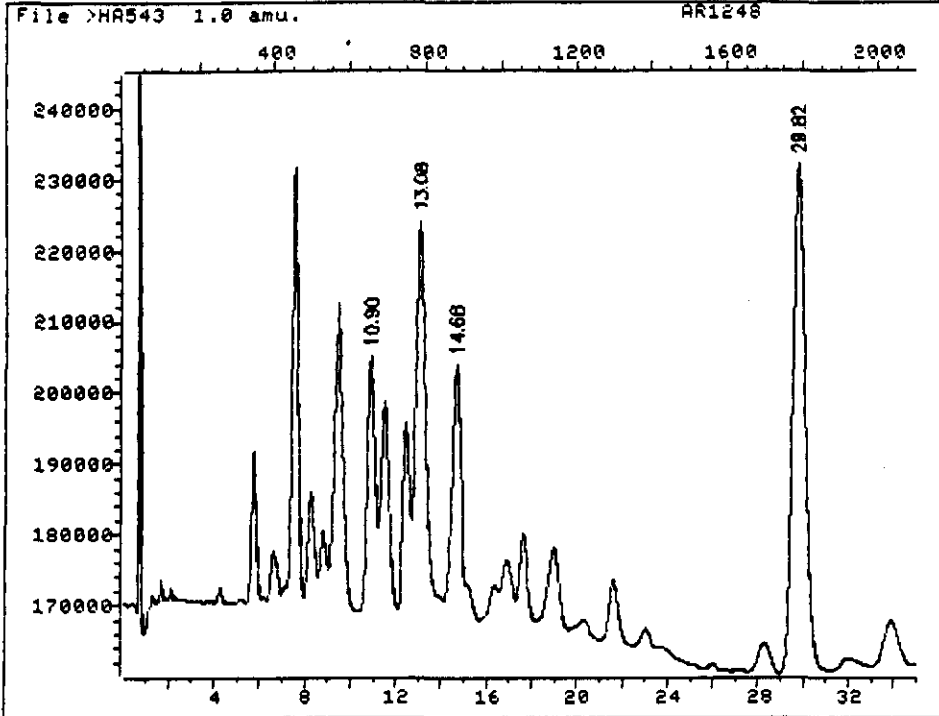
Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.55	1771	71873	.0464	UG/ML	100
34) #Aroclor 1242	7.45	445	74624	.230	UG/ML	100
35) #AR 1242-2	5.63	336	43392	.105	UG/ML	100
36) #AR 1242-3	12.93	774	27865	.164	UG/ML	100

*Ad n/27/89*

# Compound uses ESTD



CHROMATOGRAM



Data File: >HA543::U4  
Name:  
Misc: AR1248

Quant Output File: ^HA543::AQ  
Instrument ID: HA

Id File: 1050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 14:39  
Injected at: 891115 09:18

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA543::AQ  
 Data File: >HA543::U4  
 Name:  
 Misc: AR1248

Quant Rev: 7      Quant Time: 891115 14:39  
 Injected at: 891115 09:18  
 Dilution Factor: 1.00000  
 Instrument ID: HA

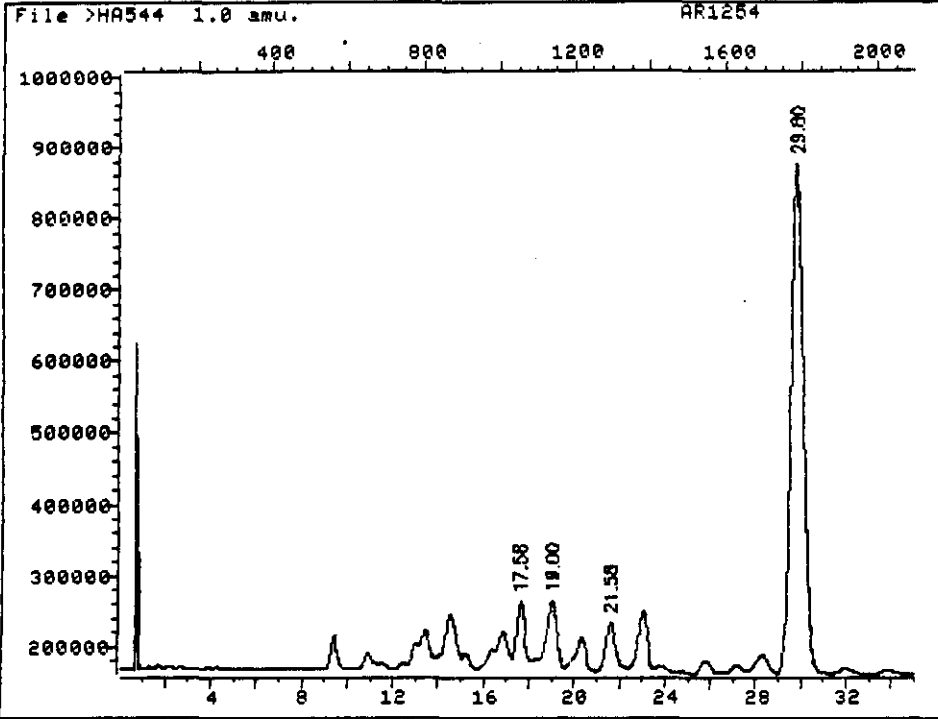
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.82	1787	71873	.0464	UG/ML	100
37) #Aroclor 1248	13.08	783	53872	.226	UG/ML	100
38) #AR 1248-2	10.90	652	35904	.188	UG/ML	100
39) #AR 1248-3	14.68	879	35968	.228	UG/ML	100

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# Compound uses ESTD

CHROMATOGRAM



Data File: >HA544::U4  
Name:  
Misc: AR1254

Quant Output File: ^HA544::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 14:40  
Injected at: 891115 10:03

Operator ID: KT8582  
 Output File: ^HA544::AQ  
 Data File: >HA544::U4  
 Name:  
 Misc: AR1254

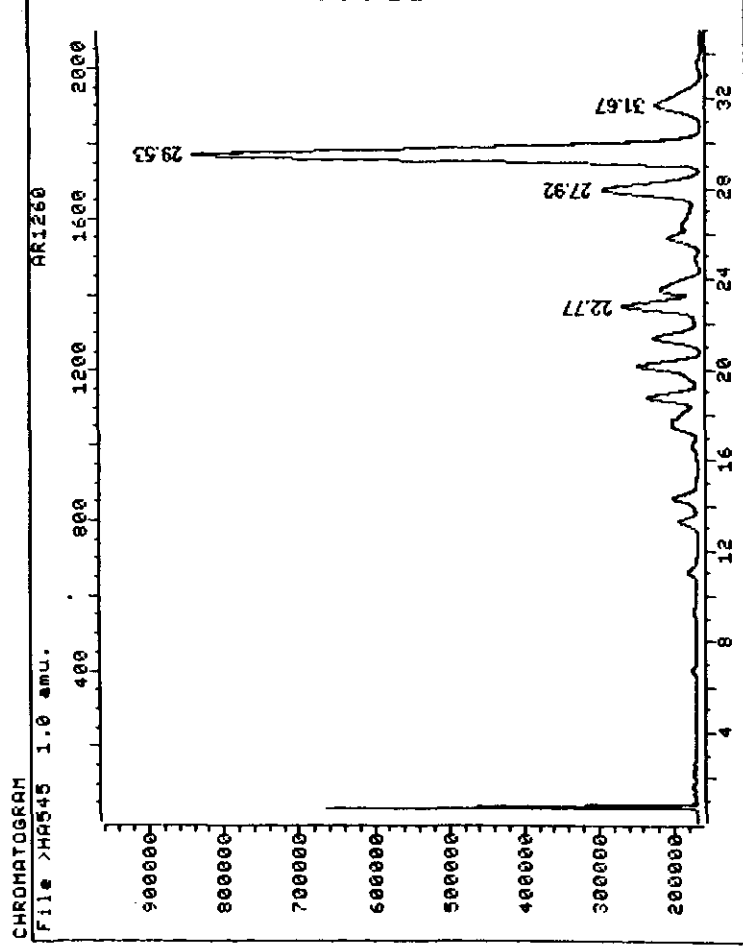
Quant Rev: 7      Quant Time: 891115 14:40  
                   Injected at: 891115 10:03  
 Dilution Factor: 1.00000  
 Instrument ID: HA

ID File: 1050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.80	1786	714629	.462	UG/ML	100
40) #Aroclor 1254	17.58	1053	83264	.466	UG/ML	100
41) #AR 1254-2	19.00	1138	93952	.674	UG/ML	100
42) #AR 1254-3	21.58	1293	67968	.336	UG/ML	100

*and 11/27/89*

# Compound uses ESTD



Data File: >HA545::U4  
Name:  
Misc: AR1260

Quant Output File: ^HA545::AQ  
Instrument ID: HA

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 13:19

Operator ID: KT8582  
Quant Time: 891115 14:42  
Injected at: 891115 10:49

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^HA545::AQ  
 Data File: >HA545::U4  
 Name:  
 Misc: AR1260

Quant Rev: 7      Quant Time: 891115 14:42  
                   Injected at: 891115 10:49  
 Dilution Factor: 1.00000  
 Instrument ID: HA

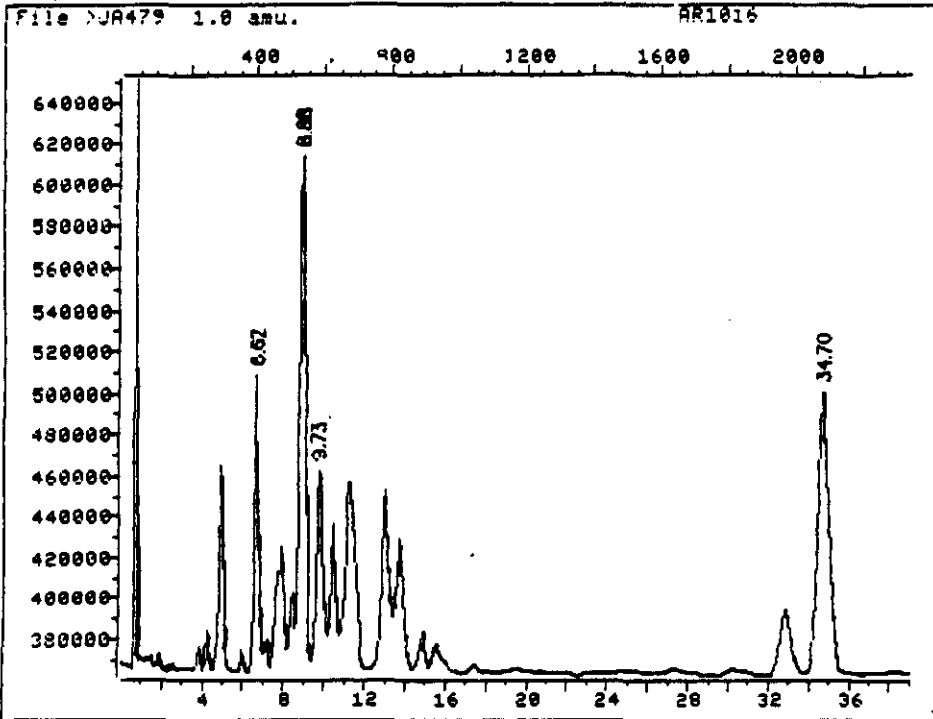
ID File: 1050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 13:19

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.53	1770	675781	.437	UG/ML	100
43) #Aroclor 1260	22.77	1364	96704	.291	UG/ML	100
44) #AR 1260-2	27.92	1673	127936	.518	UG/ML	100
45) #AR 1260-3	31.67	1898	60353	.248	UG/ML	100

*24 1/27/87*

# Compound uses ESTD

CHROMATOGRAM



Data File: >JA479  
Name:  
Misc: AR1016

Quant Output File: ^JA479::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:36  
Injected at: 891107 18:46

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA479::U6  
 Data File: >JA479::U4  
 Name:  
 Misc: AR1016

Quant Rev: 7      Quant Time: 891108 15:36  
 Injected at: 891107 18:46  
 Dilution Factor: 1.00000  
 Instrument ID: JA

ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

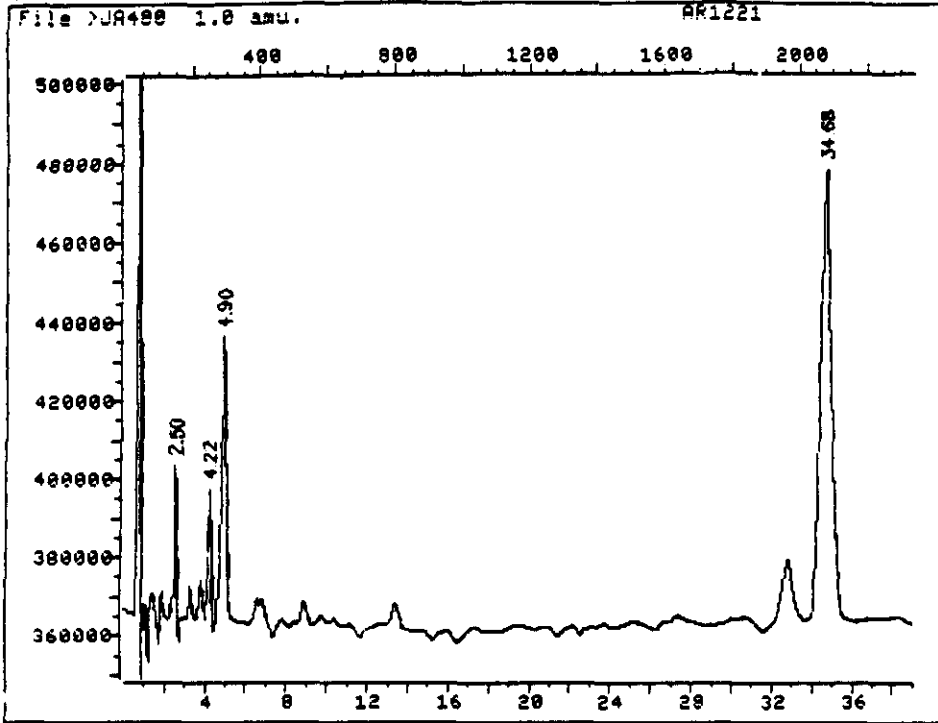
Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	34.70	2082	136833	.0724	UG/ML	100
25) #Aroclor 1016	8.98	533	244737	.292	UG/ML	100
26) #AR 1016-2	9.73	584	92864	.194	UG/ML	100
27) #AR 1016-3	6.62	397	144577	.465	UG/ML	100

*and 11/21/87*

# Compound uses ESTD



CHROMATOGRAM



Data File: >JA480  
Name:  
Misc: AR1221

Quant Output File: ^JA480::U6  
Instrument ID: JA

Id File: 1048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:38  
Injected at: 891107 19:31

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA480::U6  
 Data File: >JA480::U4  
 Name:  
 Misc: AR1221

Quant Rev: 7      Quant Time: 991108 15:38  
                   Injected at: 991107 19:31  
 Dilution Factor: 1.00000  
 Instrument ID: JA

ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	34.68	2081	114158	.0604	UG/ML	100
28) #Aroclor 1221	4.90	294	75328	.328	UG/ML	100
29) #AR 1221-2	4.22	253	36544	.275	UG/ML	100
30) #AR 1221-3	2.50	150	45452	.426	UG/ML	100

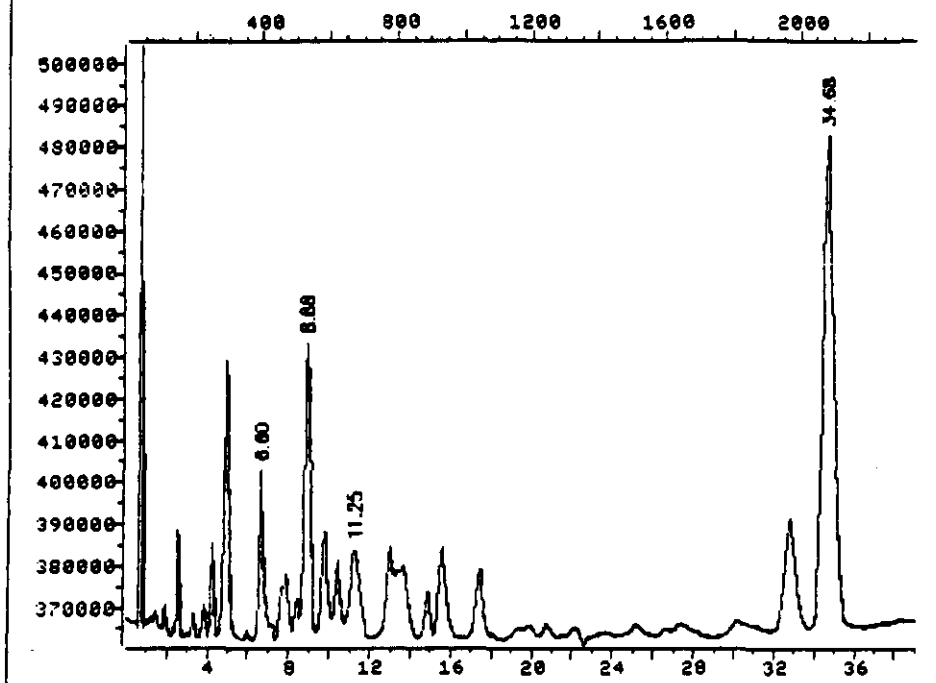
# Compound uses ESTD

*Rev 11/01/87*

CHROMATOGRAM

File >JA481 1.0 amu.

AR1232



Data File: >JA481  
Name:  
Misc: AR1232

Quant Output File: ^JA481::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFS/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:40  
Injected at: 891107 20:16

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA481::U6  
 Data File: >JA481::U4  
 Name:  
 Misc: AR1232

Quant Rev: 7      Quant Time: 891108 15:40  
 Injected at: 891107 20:16  
 Dilution Factor: 1.00000  
 Instrument ID: JA

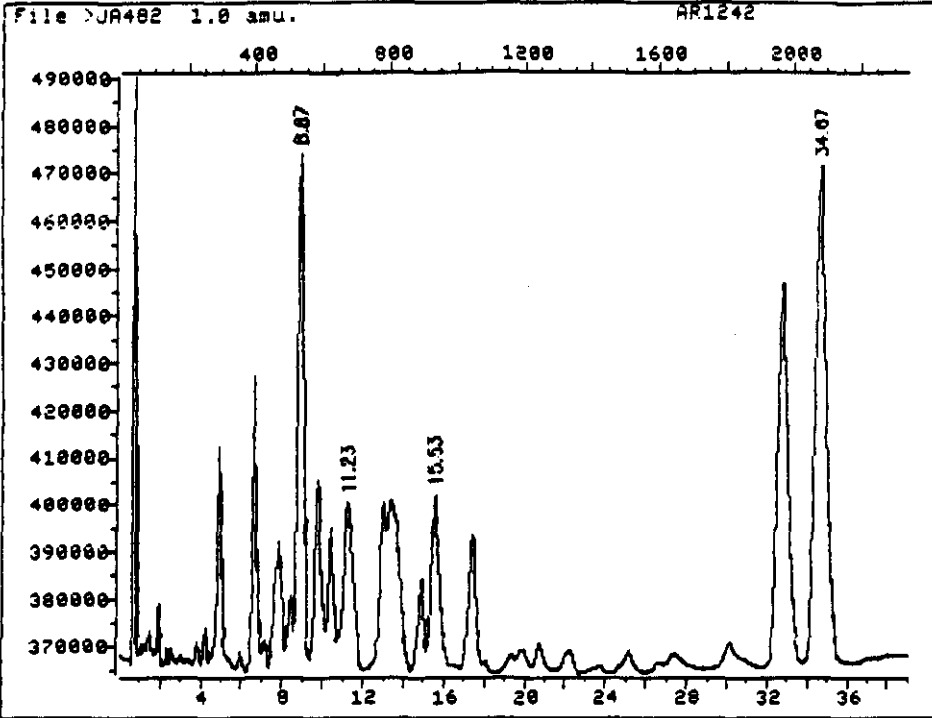
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	34.68	2081	117696	.0623	UG/ML	100
31) #Aroclor 1232	9.88	533	69184	.277	UG/ML	100
32) #AR 1232-2	6.60	396	40768	.288	UG/ML	100
33) #AR 1232-3	11.25	675	21120	.245	UG/ML	100

*24 11/22/77*

\* Compound uses ESTD

CHROMATOGRAM



Data File: >JA482  
Name:  
Misc: AR1242

Quant Output File: ^JA482::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:42  
Injected at: 891107 21:01

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA482::U6  
 Data File: >JA482::U4  
 Name:  
 Misc: AR1242

Quant Rev: 7      Quant Time: 891108 15:42  
                   Injected at: 891107 21:01  
 Dilution Factor: 1.00000  
 Instrument ID: JA

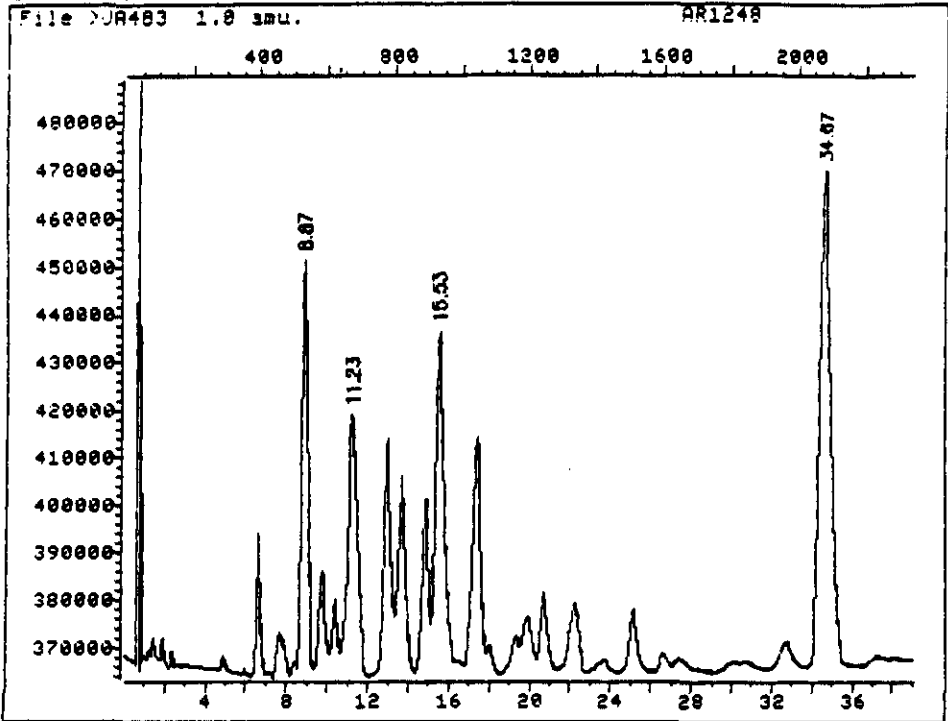
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchlorodate	34.67	2080	104896	.0555	UG/ML	100
34) #Aroclor 1242	8.87	532	106816	.291	UG/ML	100
35) #AR 1242-2	11.23	674	35392	.274	UG/ML	100
36) #AR 1242-3	15.53	932	36352	.380	UG/ML	100

# Compound uses ESTD

*24 11/21/89*

CHROMATOGRAM



Data File: >JA483  
Name:  
Misc: AR1248

Quant Output File: ^JA483::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:43  
Injected at: 891107 21:46

QUANT REPORT

Page 1

Operator ID: YY6148  
Output File: ^JA483::U6  
Data File: >JA483::U4  
Name:  
Misc: AR1248

Quant Rev: 7      Quant Time: 891108 15:43  
                  Injected at: 891107 21:46  
Dilution Factor: 1.00000  
Instrument ID: JA

ID File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

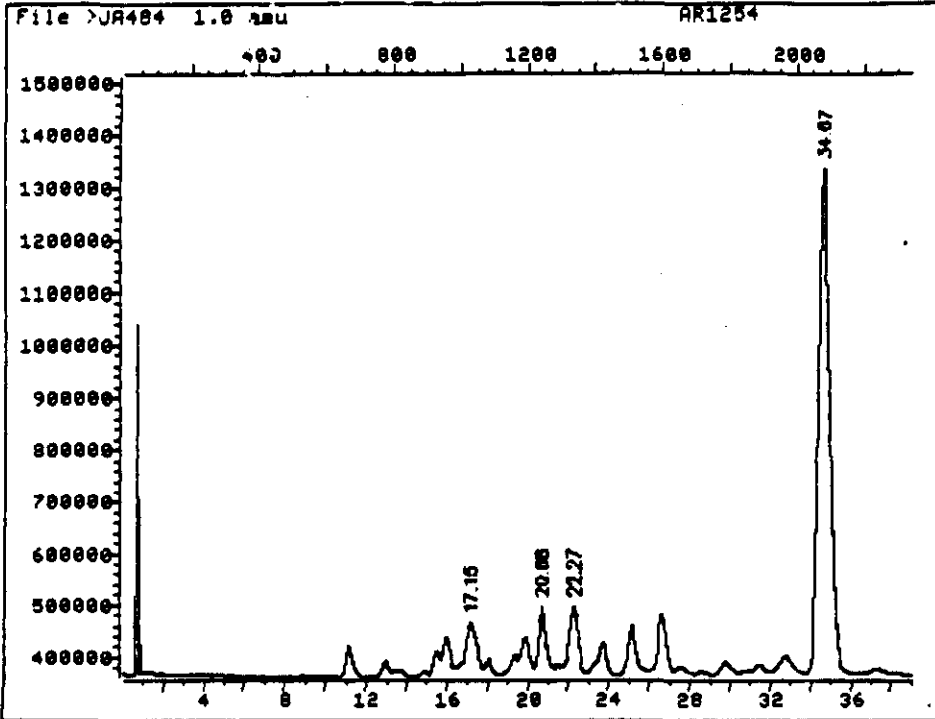
Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	34.67	2080	103872	.0549	UG/ML	100
37) #Aroclor 1248	15.53	932	69504	.283	UG/ML	100
38) #AR 1248-2	11.23	674	54976	.323	UG/ML	100
39) #AR 1248-3	8.87	532	86669	.453	UG/ML	100

# Compound uses ESTD

*744 11/21/87*



CHROMATOGRAM



Data File: >JA484  
Name:  
Misc: AR1254

Quant Output File: ^JA484::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:46  
Injected at: 891107 22:30

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA484::U6  
 Data File: >JA484::U4  
 Name:  
 Misc: AR1254

Quant Rev: 7      Quant Time: 891108 15:46  
 Injected at: 891107 22:30  
 Dilution Factor: 1.00000  
 Instrument ID: JA

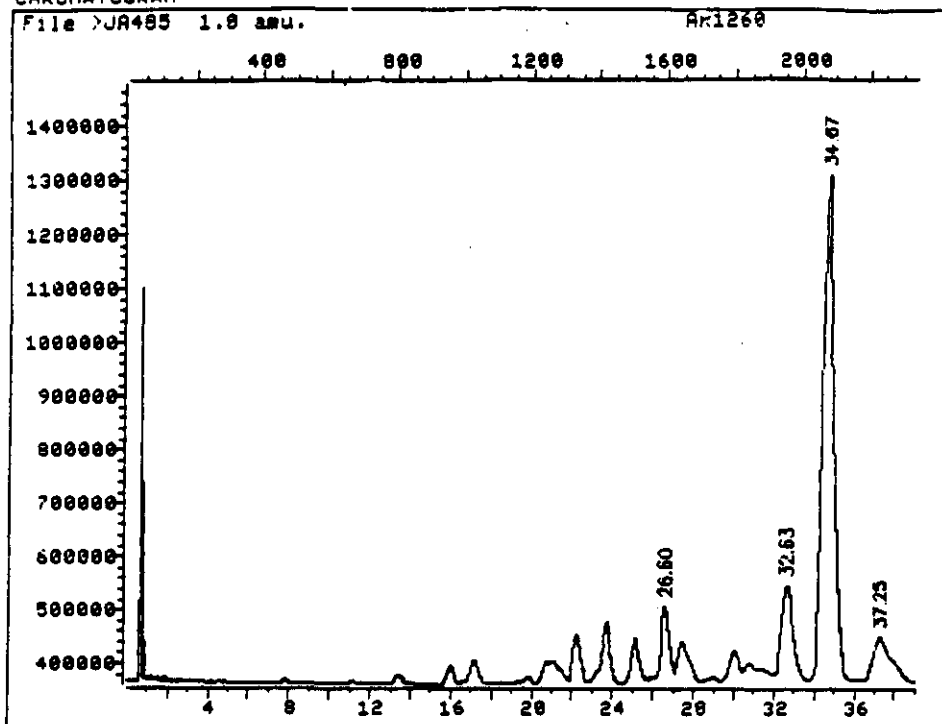
ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	34.67	2080	969988	.513	UG/ML	100
40) #Aroclor 1254	20.68	1241	117696	.554	UG/ML	100
41) #AR 1254-2	22.27	1336	126784	.565	UG/ML	100
42) #AR 1254-3	17.15	1029	88320	.521	UG/ML	100

*Red 11/21/89*

# Compound uses ESTD

CHROMATOGRAM



Data File: >JA485  
Name:  
Misc: AR1260

Quant Output File: ^JA485::U6  
Instrument ID: JA

Id File: I048IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891030 15:01

Operator ID: YY6148  
Quant Time: 891108 15:47  
Injected at: 891107 23:15

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA485::U6  
 Data File: >JA485::U4  
 Name:  
 Misc: AR1260

Quant Rev: 7      Quant Time: 891108 15:47  
 Injected at: 891107 23:15  
 Dilution Factor: 1.00000  
 Instrument ID: JA

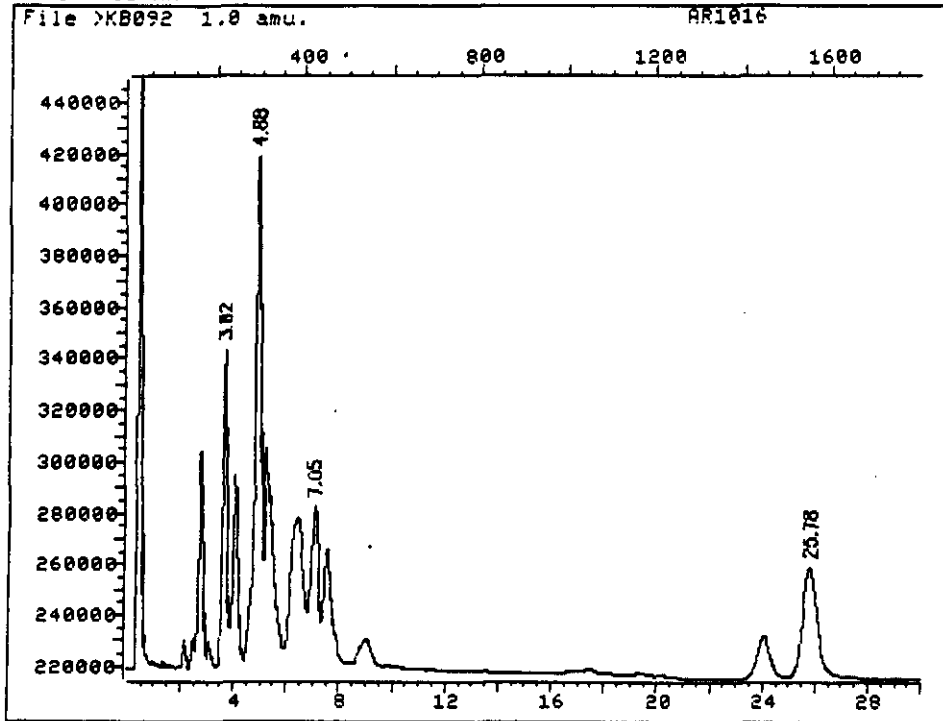
ID File: I0481P::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891030 15:01

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchlorodate	34.67	2080	938308	.496	UG/ML	100
43) #Aroclor 1260	26.60	1596	134821	.437	UG/ML	100
44) #AR 1260-2	32.63	1958	177089	.876	UG/ML	100
45) #AR 1260-3	37.25	2235	80256	.575	UG/ML	100

*11/2/87*

# Compound uses ESTD

CHROMATOGRAM



Data File: >KB092::U2  
Name:  
Misc: AR1016

Quant Output File: ^KB092::AQ  
Instrument ID: ~~KA~~  
KB

Id File: 1049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 08:24

*11/21/97*

Operator ID: YY6148  
Quant Time: 891116 17:01  
Injected at: 891116 15:49

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB092::AQ  
 Data File: >KB092::U2  
 Name:  
 Misc: AR1016

Quant Rev: 7      Quant Time: 891116 17:01  
                   Injected at: 891116 15:49  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   KB

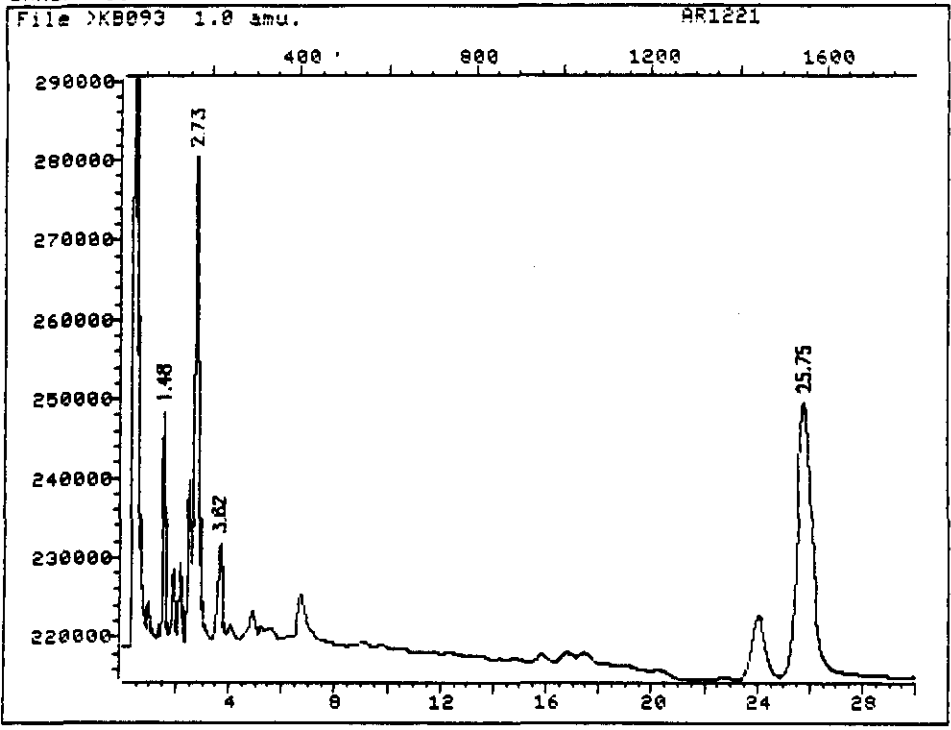
ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 08:24

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	25.78	1547	42560	.0607	UG/ML	100
25) #Aroclor 1016	4.88	293	196673	196673.0	NO CALIB100	
26) #AR 1016-2	3.62	217	123201	123201.0	NO CALIB100	
27) #AR 1016-3	7.05	423	52225	52225.00	NO CALIB100	

# Compound uses ESTD

*u/u*  
 4/21/89

CHROMATOGRAM



Data File: >KB093::U2  
Name:  
Misc: AR1221

Quant Output File: ^KB093::AQ  
Instrument ID: ~~KA~~  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 08:24

Operator ID: YY6148  
Quant Time: 891116 16:59  
Injected at: 891116 16:24

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB093::AQ  
 Data File: >KB093::U2  
 Name:  
 Misc: AR1221

Quant Rev: 7      Quant Time: 891116 16:59  
 Injected at: 891116 16:24  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
 KB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 08:24

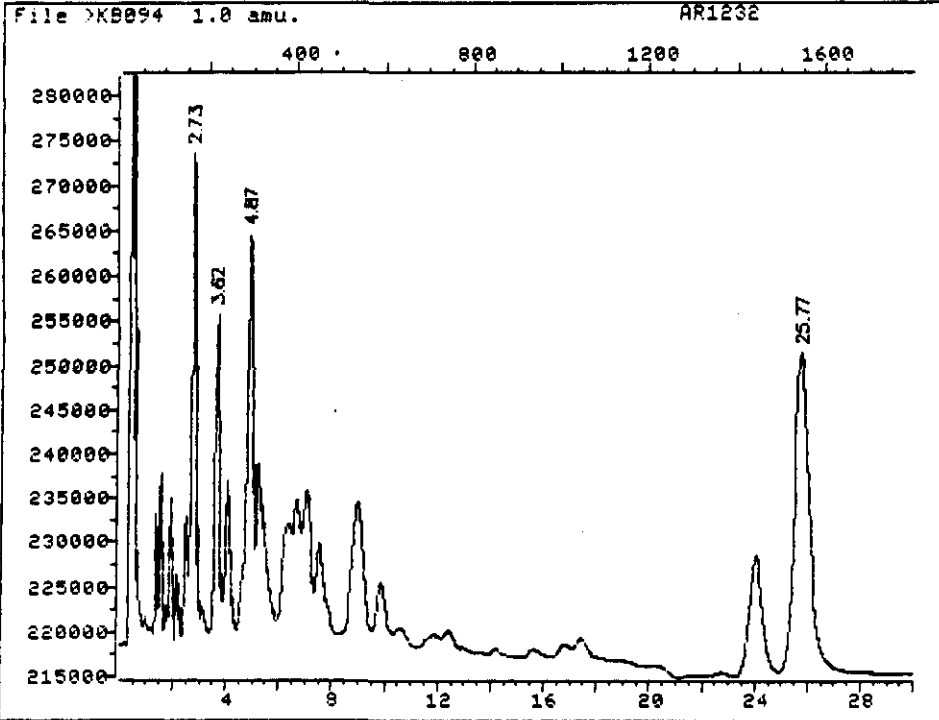
Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	25.75	1545	34432	.0491	UG/ML	100
28) #Aroclor 1221	2.73	164	61002	61002.00	NO CALIB	100
29) #AR 1221-2	1.48	89	28224	28224.00	NO CALIB	100
30) #AR 1221-3	3.62	217	12160	12160.00	NO CALIB	100

# Compound uses ESTD

*11/21/89*



CHROMATOGRAM



Data File: >KB094::U2  
Name:  
Misc: AR1232

Quant Output File: ^KB094::AQ  
Instrument ID: KA  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 17:15

*curr*  
*11/21/89*

Operator ID: YY6148  
Quant Time: 891116 20:13  
Injected at: 891116 16:59

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB094::AQ  
 Data File: >KB094::U2  
 Name:  
 Misc: AR1232

Quant Rev: 7      Quant Time: 891116 20:13  
 Injected at: 891116 16:59  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
 CB

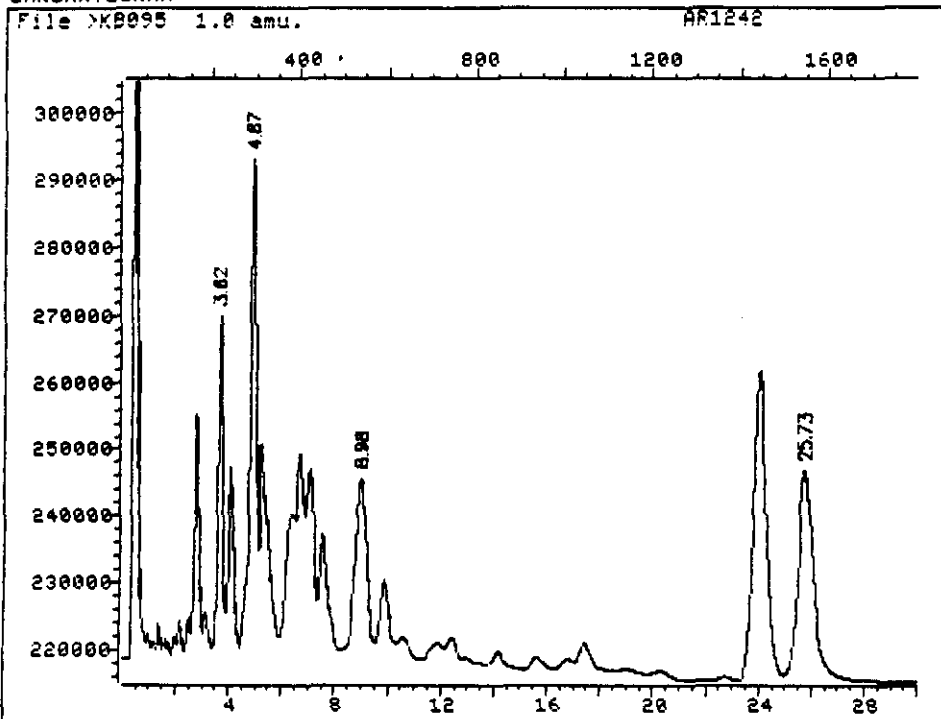
ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 17:15

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	25.77	1546	35712	.0542	UG/ML	100
31) #Aroclor 1232	4.87	292	44480	44480.00	NO CALIB100	
32) #AR 1232-2	2.73	164	54061	54061.00	NO CALIB100	
33) #AR 1232-3	3.62	217	35776	35776.00	NO CALIB100	

# Compound uses ESTD

LM  
 11/21/89

CHROMATOGRAM



Data File: >KB095::U2  
Name:  
Misc: AR1242

Quant Output File: ^KB095::AQ  
Instrument ID: ~~KA~~  
KCB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 17:15

*11/21/89*

Operator ID: YY6148  
Quant Time: 891116 20:15  
Injected at: 891116 17:35

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB095::AQ  
 Data File: >KB095::U2  
 Name:  
 Misc: AR1242

Quant Rev: 7      Quant Time: 891116 20:15  
 Injected at: 891116 17:35  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
 KCB

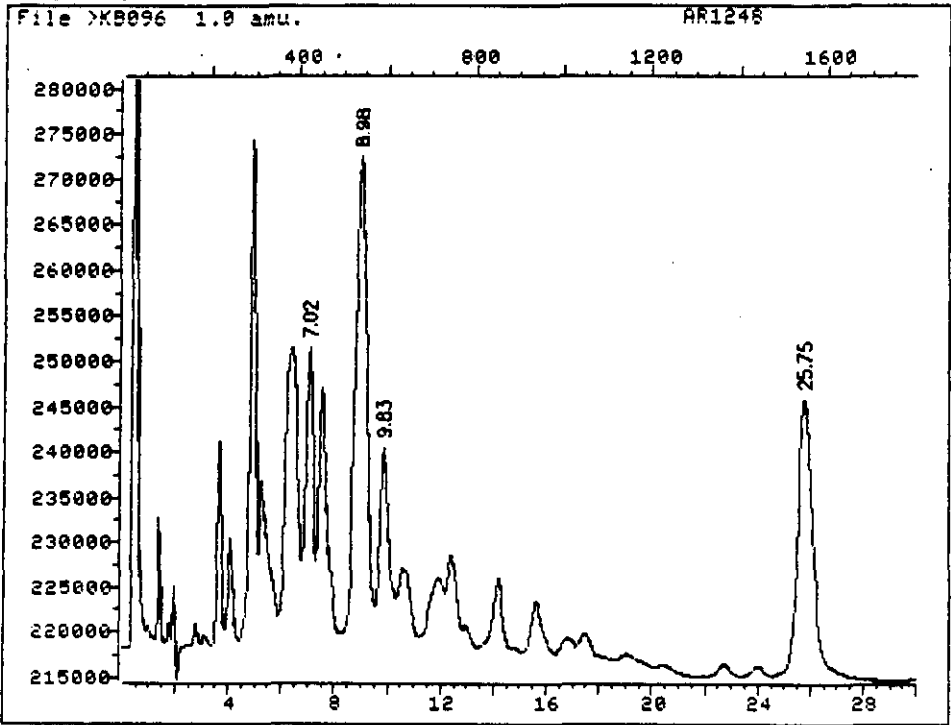
ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 17:15

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchlorodate	25.73	1544	30592	.0464	UG/ML	100
34) #Aroclor 1242	4.87	292	72640	72640.00	NO CALIB100	
35) #AR 1242-2	3.62	217	49536	49536.00	NO CALIB100	
36) #AR 1242-3	8.98	539	25600	25600.00	NO CALIB100	

# Compound uses ESTD

*11/21/89*

CHROMATOGRAM



Data File: >KB096::U2  
Name:  
Misc: AR1248

Quant Output File: ^KB096::AQ  
Instrument ID: ~~KA~~  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 17:15

*KA*  
11/21/89

Operator ID: YY6148  
Quant Time: 891116 20:18  
Injected at: 891116 18:10

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB096::AQ  
 Data File: >KB096::U2  
 Name:  
 Misc: AR1248

Quant Rev: 7      Quant Time: 891116 20:18  
 Injected at: 891116 18:10  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
 KB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 17:15

Compound	R.T.	Scan#	Height	Conc	Units	q.
19) #Dibutylchloroendate	25.75	1545	30592	.0464	UG/ML	100
37) #Aroclor 1248	8.98	539	52736	52736.00	NO CALIB100	
38) #AR 1248-2	7.02	421	26048	26048.00	NO CALIB100	
39) #AR 1248-3	9.83	590	17536	17536.00	NO CALIB100	

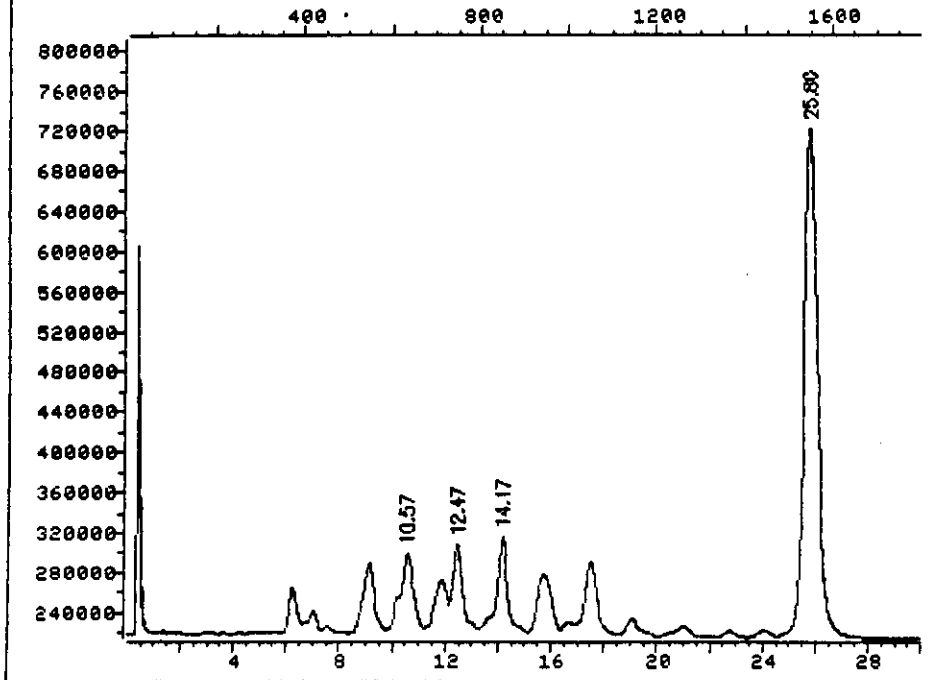
# Compound uses ESTD

*11/21/89*

CHROMATOGRAM

File >KB097 1.0 amu.

AR1254



Data File: >KB097::U2  
Name:  
Misc: AR1254

Quant Output File: ^KB097::AQ  
Instrument ID: ~~KA~~  
KB

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 17:15

*WA*  
*11/21/89*

Operator ID: YY6148  
Quant Time: 891116 20:21  
Injected at: 891116 18:45

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB097::AQ  
 Data File: >KB097::U2  
 Name:  
 Misc: AR1254

Quant Rev: 7      Quant Time: 891116 20:21  
 Injected at: 891116 18:45  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
                   KB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 17:15

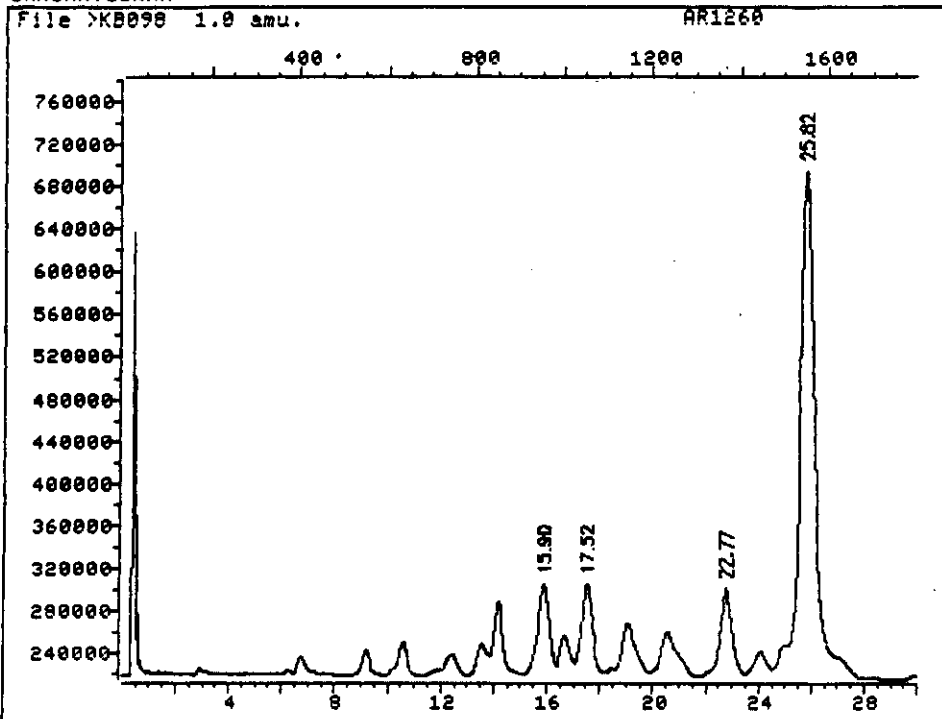
Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	25.80	1548	505475	.767	UG/ML	100
40) #Aroclor 1254	10.57	634	75145	75145.00	NO CALIB100	
41) #AR 1254-2	12.47	748	77888	77888.00	NO CALIB100	
42) #AR 1254-3	14.17	850	94784	94784.00	NO CALIB100	

# Compound uses ESTD

*WMT*  
*11/21/89*



CHROMATOGRAM



Data File: >KB098::U2  
Name:  
Misc: AR1260

Quant Output File: ^KB098::AQ  
Instrument ID: KA

103  
6/21/89

Id File: I049IP::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891116 17:15

Operator ID: YY6148  
Quant Time: 891116 20:24  
Injected at: 891116 19:20

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB098::AQ  
 Data File: >KB098::U2  
 Name:  
 Misc: AR1260

Quant Rev: 7      Quant Time: 891116 20:24  
 Injected at: 891116 19:20  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
 KB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 17:15

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchlorodate	25.82	1549	467577	.709	UG/ML	100
43) #Aroclor 1260	15.90	954	85632	85632.00	NO CALIB100	
44) #AR 1260-2	17.52	1051	84672	84672.00	NO CALIB100	
45) #AR 1260-3	22.77	1366	83520	83520.00	NO CALIB100	

# Compound uses ESTD

*11/21/89*



ETC

RAW QC DATA

876

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: QC70030G

Sample wt/vol: 1000. (g/mL) ML

Lab File ID: >JA495

Level: (low/med) LOW

Date Received: ~~07/21/89~~ <sup>10/11/89</sup> <sub>11/12/89</sub>

% Moisture: not dec. dec.

Date Extracted: ~~07/27/89~~ <sup>10/11/89</sup> <sub>11/12/89</sub>

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 11/08/89

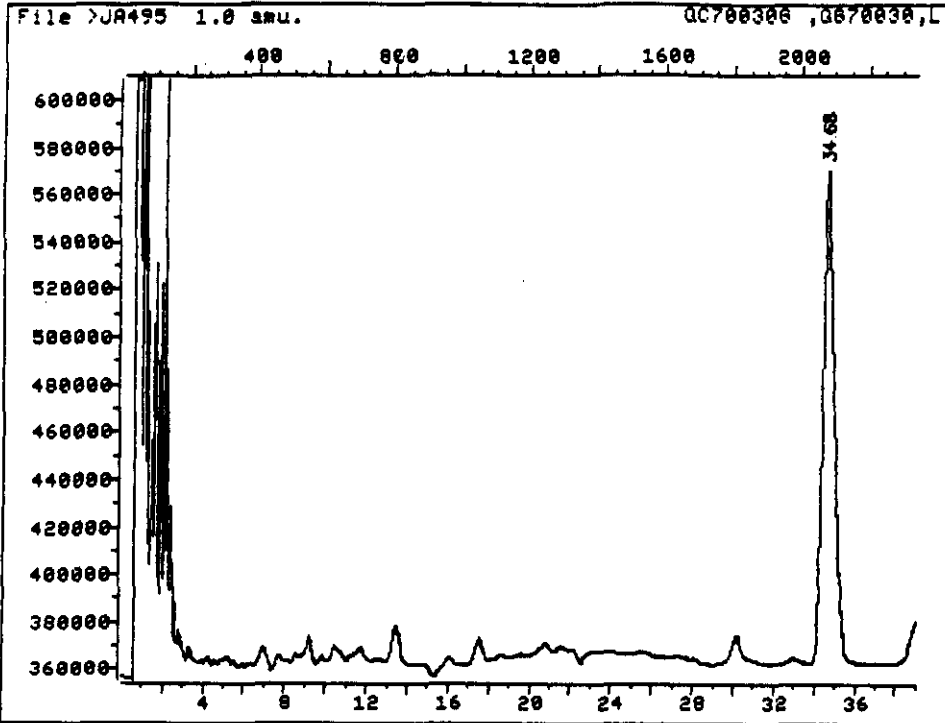
GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.050	IU
319-65-7	beta-BHC	.050	IU
319-86-8	delta-BHC	.050	IU
58-89-9	gamma-BHC(Lindane)	.050	IU
76-44-8	Heptachlor	.050	IU
309-00-2	Aldrin	.050	IU
1024-57-3	Heptachlor epoxide	.050	IU
959-98-8	Endosulfan I	.050	IU
60-57-1	Dieldrin	.100	IU
72-55-9	4,4'-DDE	.100	IU
72-20-8	Endrin	.100	IU
33213-65-9	Endosulfan II	.100	IU
72-54-8	4,4'-DDD	.100	IU
1031-07-8	Endosulfan sulfate	.100	IU
50-29-3	4,4'-DDT	.100	IU
72-43-5	Methoxychlor	.500	IU
53494-70-5	Endrin ketone	.100	IU
5103-71-9	alpha-Chlordane	.050	IU
5103-74-2	gamma-Chlordane	.050	IU
8001-35-2	Toxaphene	2	IU
12674-11-2	Aroclor-1016	.500	IU
11104-28-2	Aroclor-1221	.500	IU
11141-16-5	Aroclor-1232	.500	IU
53469-21-9	Aroclor-1242	.500	IU
12672-29-6	Aroclor-1248	.500	IU
11097-69-1	Aroclor-1254	1	IU
11096-82-5	Aroclor-1260	1	IU

CHROMATOGRAM



Data File: >JA495

Quant Output File: ^JA495::U6

Name:

Instrument ID: JA

Misc: QC700306 ,QG70030,L:G2,1000,10

Id File: I048IP::US

Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ

Last Calibration: 891108 16:21

Operator ID: YY6148

Quant Time: 891108 16:37

Injected at: 891108 09:47

QUANT REPORT

Page 1

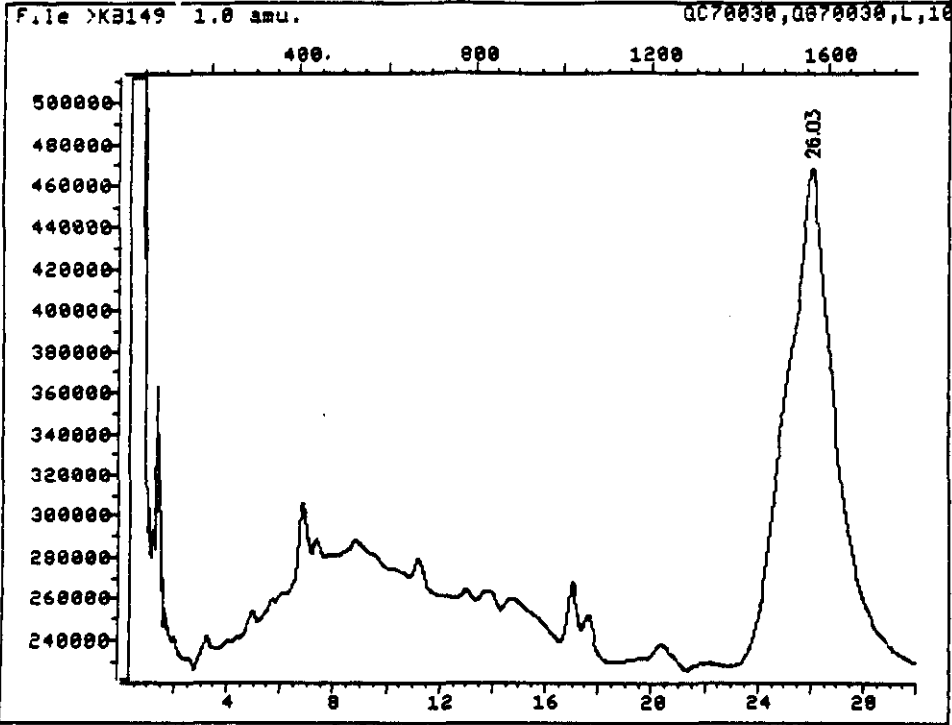
Operator ID: YY6148  
 Output File: ^JA495::U6  
 Data File: >JA495::U4  
 Name:  
 Misc: QC70030G ,QG70030,L:G2,1000,10

Quant Rev: 7      Quant Time: 891108 16:37  
 Injected at: 891108 09:47  
 Dilution Factor: 1.00000  
 Instrument ID: JA

ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891108 16:21

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	34.68	2081	208001	.0948	UG/ML	100
				<i>nd 11/21/89</i>		
# Compound uses ESTD						

CHROMATOGRAM



Data File: >KB149::U2  
Name:  
Misc: QC70030, QG70030, L, 1000, 10

Quant Output File: ^KB149::AQ  
Instrument ID: KA

Id File: I048IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891121 00:44

Operator ID: KT8582  
Quant Time: 891121 03:23  
Injected at: 891121 02:52

QUANT REPORT

Page 1

Operator ID: KT8582  
 Output File: ^KB149::AQ  
 Data File: >KB149::U2  
 Name:  
 Misc: QC70030, QG70030, L, 1000, 10

Quant Rev: 7      Quant Time: 891121 03:23  
                   Injected at: 891121 02:52  
 Dilution Factor: 1.00000  
 Instrument ID: KA

ID File: 1048IC::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891121 00:44

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	26.03	1562	168961	.217	UG/ML	100
# Compound uses ESTD						<i>11/21/87</i>



10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: QC70049G

Sample wt/vol: 1000. (g/mL) ML

Lab File ID: >KB099

Level: (low/med) LOW

Date Received: ~~10/12/89~~ 11/21/89

% Moisture: not dec. dec.

Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 11/16/89

GPC Cleanup: (Y/N) N pH:

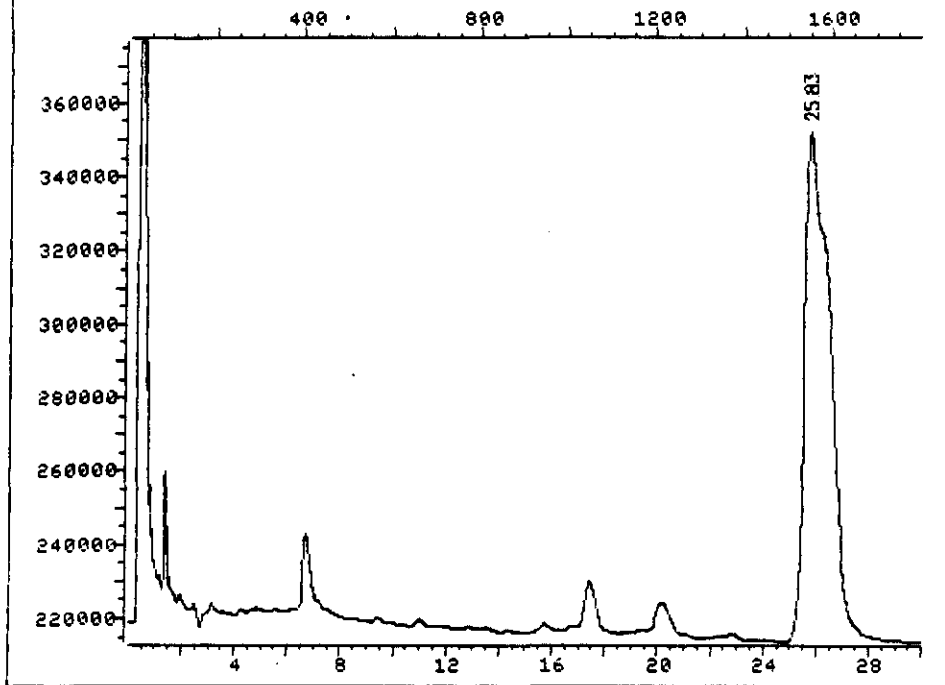
Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.050	IU
319-65-7	beta-BHC	.050	IU
319-86-8	delta-BHC	.050	IU
58-89-9	gamma-BHC(Lindane)	.050	IU
76-44-8	Heptachlor	.050	IU
309-00-2	Aldrin	.050	IU
1024-57-3	Heptachlor epoxide	.050	IU
959-98-8	Endosulfan I	.050	IU
60-57-1	Dieldrin	.100	IU
72-55-9	4,4'-DDE	.100	IU
72-20-8	Endrin	.100	IU
33213-65-9	Endosulfan II	.100	IU
72-54-8	4,4'-DDD	.100	IU
1031-07-8	Endosulfan sulfate	.100	IU
50-29-3	4,4'-DDT	.100	IU
72-43-5	Methoxychlor	.500	IU
53494-70-5	Endrin ketone	.100	IU
5103-71-9	alpha-Chlordane	.500	IU
5103-74-2	gamma-Chlordane	.500	IU
8001-35-2	Toxaphene	2	IU
12674-11-2	Aroclor-1016	.500	IU
11104-28-2	Aroclor-1221	.500	IU
11141-16-5	Aroclor-1232	.500	IU
53469-21-9	Aroclor-1242	.500	IU
12672-29-6	Aroclor-1248	.500	IU
11097-69-1	Aroclor-1254	1	IU
11096-82-5	Aroclor-1260	1	IU

CHROMATOGRAM

File >KB099 1.0 au.

QC700496,0670049,L10



Data File: >KB099::U2

Quant Output File: ^KB099::AQ

Name:

Instrument ID: KA

Misc: QC700496,0670049,L:G2,1000,10

KB

Id File: I049IP::US

Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ

Last Calibration: 891116 20:42

*WTT*  
*11/21/89*

Operator ID: YY6148

Quant Time: 891116 20:44

Injected at: 891116 19:55

QUANT REPORT

Page 1

Operator ID: YY6148      Quant Rev: 7      Quant Time: 891116 20:44  
 Output File: ^KB099::AQ      Injected at: 891116 19:55  
 Data File: >KB099::U2      Dilution Factor: 1.00000  
 Name:      Instrument ID: KA  
 Misc: QC70049G, QG70049, L:G2, 1000, 10      KB

ID File: 1049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 20:42

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	25.83	1550	138497	.210	UG/ML	100

# Compound uses ESTD

*was*  
 11/21/89

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: QC70050G

Sample wt/vol: 1000. (g/mL) ML

Lab File ID: >HA546

Level: (low/med) LOW

Date Received: 10/12/89

% Moisture: not dec. dec.

Date Extracted: 10/12/89

Extraction: (SepF/Cont/Sonc) SEPF

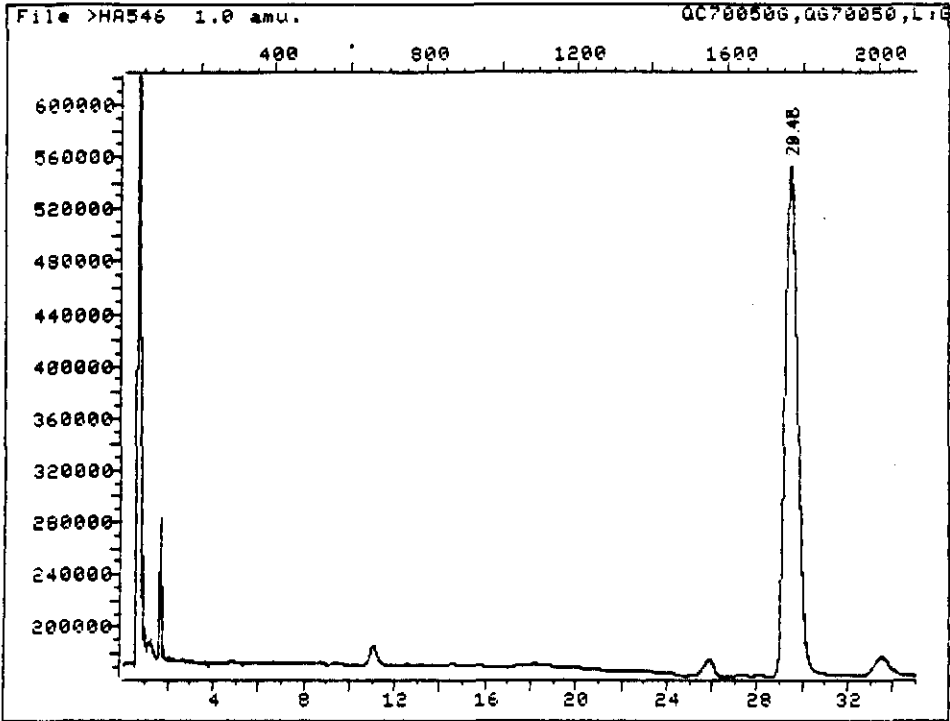
Date Analyzed: 11/15/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	1.050	10
319-65-7	beta-BHC	1.050	10
319-86-8	delta-BHC	1.050	10
58-89-9	gamma-BHC(Lindane)	1.050	10
76-44-8	Heptachlor	1.050	10
309-00-2	Aldrin	1.050	10
1024-57-3	Heptachlor epoxide	1.050	10
959-98-8	Endosulfan I	1.050	10
60-57-1	Dieldrin	1.100	10
72-55-9	4,4'-DDE	1.100	10
72-20-8	Endrin	1.100	10
33213-65-9	Endosulfan II	1.100	10
72-54-8	4,4'-DDD	1.100	10
1031-07-8	Endosulfan sulfate	1.100	10
50-29-3	4,4'-DDT	1.100	10
72-43-5	Methoxychlor	1.500	10
53494-70-5	Endrin ketone	1.100	10
5103-71-9	alpha-Chlordane	1.050	10
5103-74-2	gamma-Chlordane	1.050	10
8001-35-2	Toxaphene	12	10
12674-11-2	Aroclor-1016	1.500	10
11104-28-2	Aroclor-1221	1.500	10
11141-16-5	Aroclor-1232	1.500	10
53469-21-9	Aroclor-1242	1.500	10
12672-29-6	Aroclor-1248	1.500	10
11097-69-1	Aroclor-1254	1	10
11096-82-5	Aroclor-1260	1	10

CHROMATOGRAM



Data File: >HA546::U4                    Quant Output File: ^HA546::AQ  
Name:                                        Instrument ID: HA  
Misc: QC70050G,QG70050,L:G2,1000,10

Id File: I050IP::US  
Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
Last Calibration: 891115 15:07

Operator ID: KT8582  
Quant Time: 891115 15:10  
Injected at: 891115 11:35

QUANT REPORT

Page 1

Operator ID: KT8582                      Quant Rev: 7            Quant Time: 891115 15:10  
 Output File: ^HA546::AQ                      Injected at: 891115 11:35  
 Data File: >HA546::U4                      Dilution Factor: 1.00000  
 Name:    Instrument ID: HA  
 Misc: QC70050G, QG70050, L:G2, 1000, 10

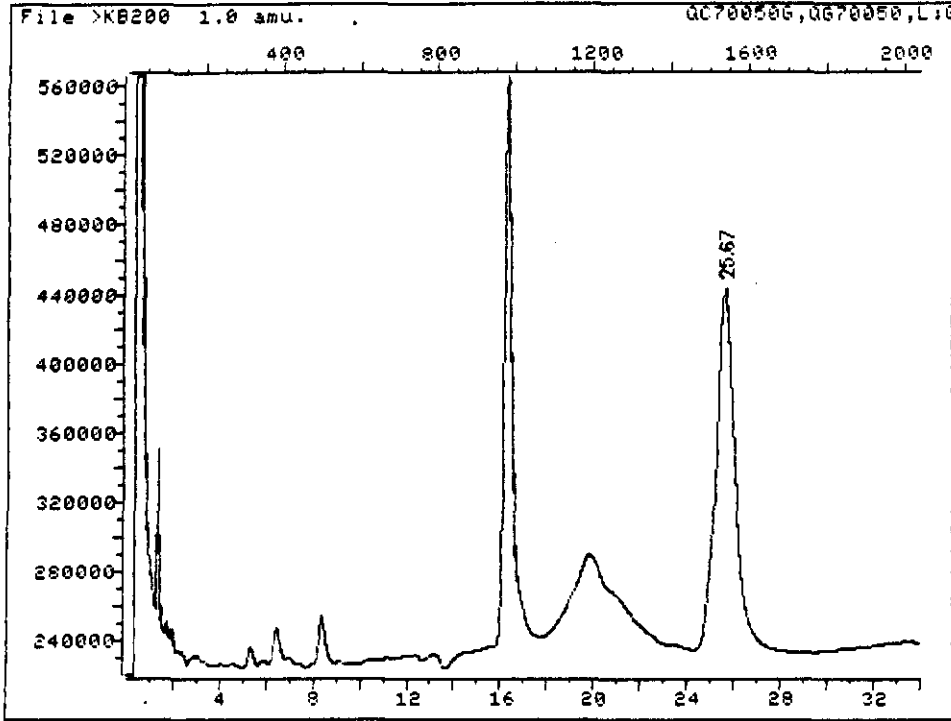
ID File: I050IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891115 15:07

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	29.48	1767	391107	.253	UG/ML	100

*nd 11/22/87*

# Compound uses ESTD

CHROMATOGRAM



Data File: >KB200::U2

Quant Output File: ^KB200::AQ

Name:

Instrument ID:

Misc: QC70050G,Q670050,L:G2,1000,10

KA  
KB

Id File: 1076IC::US

Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ

Last Calibration: 891128 00:29

Operator ID: KT8582

Quant Time: 891128 10:17

Injected at: 891128 09:42

QUANT REPORT

Page 1

Operator ID: KT8582                      Quant Rev: 7                      Quant Time: 891128 10:17  
Output File: ^KB200::AQ                      Injected at: 891128 09:42  
Data File: >KB200::U2                      Dilution Factor: 1.00000  
Name:    Instrument ID: ~~KA~~  
Misc: QC70050G, QG70050, L:G2, 1000, 10                      ~~KB~~

ID File: I076IC::US  
Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
Last Calibration: 891128 00:29

Compound	R.T.	Scan#	Height	Conc	Units	q
19) #Dibutylchloroendate	25.67	1540	207809	.338	UG/ML	100

# Compound uses ESTD

*ad 11/21/89*



10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA1907GS

Sample wt/vol: 940.0 (g/mL) ML

Lab File ID: >JA499

Level: (low/med) LOW

Date Received: 10/07/89

% Moisture: not dec. dec.

Date Extracted: ~~09/27/89~~ <sup>10/11/89</sup> 11/24/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 11/08/89

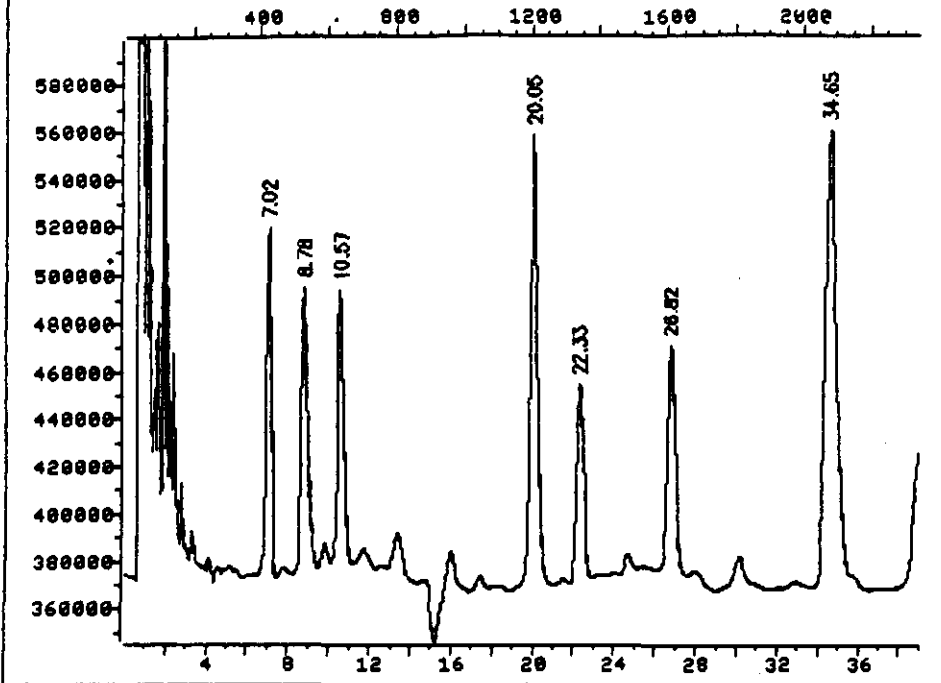
GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.053	U
319-65-7	beta-BHC	.053	U
319-86-8	delta-BHC	.053	U
58-89-9	gamma-BHC(Lindane)	.190	
76-44-8	Heptachlor	.170	
309-00-2	Aldrin	.190	
1024-57-3	Heptachlor epoxide	.053	U
959-98-8	Endosulfan I	.053	U
60-57-1	Dieldrin	.490	
72-55-9	4,4'-DDE	.110	U
72-20-8	Endrin	.370	
33213-65-9	Endosulfan II	.110	U
72-54-8	4,4'-DDD	.110	U
1031-07-8	Endosulfan sulfate	.110	U
50-29-3	4,4'-DDT	.520	
72-43-5	Methoxychlor	.530	U
53494-71-5	Endrin ketone	.110	U
5103-71-5	alpha-Chlordane	.053	U
5103-74-5	gamma-Chlordane	.053	U
8001-35-5	Toxaphene	2.100	U
12674-11-2	Aroclor-1016	.530	U
11104-28-2	Aroclor-1221	.530	U
11141-16-5	Aroclor-1232	.530	U
53469-21-9	Aroclor-1242	.530	U
12672-29-6	Aroclor-1248	.530	U
11097-69-1	Aroclor-1254	1.100	U
11096-82-5	Aroclor-1260	1.100	U

CHROMATOGRAM

File >JA499 1.8 au. CA19070S,0670030,L10



Data File: >JA499

Quant Output File: ^JA499::U6

Name:

Instrument ID: JA

Misc: CA19070S,0670030,L:G2,940,10

Id File: I048IP::US

Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ

Last Calibration: 891108 16:21

Operator ID: YY6148

Quant Time: 891108 16:42

Injected at: 891108 12:47

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA499::U6  
 Data File: >JA499::U4  
 Name:  
 Misc: CA1907GS, QG70030, L:G2, 940, 10

Quant Rev: 7      Quant Time: 891108 16:42  
 Injected at: 891108 12:47  
 Dilution Factor: 1.00000  
 Instrument ID: JA

ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891108 16:21

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	7.02	421	147137	.0175	UG/ML	100
4) #Heptachlor	8.78	527	121216	.0162	UG/ML	100
6) #Aldrin	10.57	634	115136	.0180	UG/ML	100
12) #Dieldrin	20.05	1203	191617	.0458	UG/ML	100
13) #Endrin	22.33	1340	84352	.0347	UG/ML	100
16) #4,4'-DDT	26.82	1609	97280	.0489	UG/ML	100
19) #Dibutylchlorodate	34.65	2079	192065	.0875	UG/ML	100

*AD 11/1/89*

\* Compound uses ESTD

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA2271GS

Sample wt/vol: 1000. (g/mL) ML

Lab File ID: >KB100

Level: (low/med) LOW

Date Received: ~~10/12/89~~ 11/12/89

% Moisture: not dec. dec.

Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF

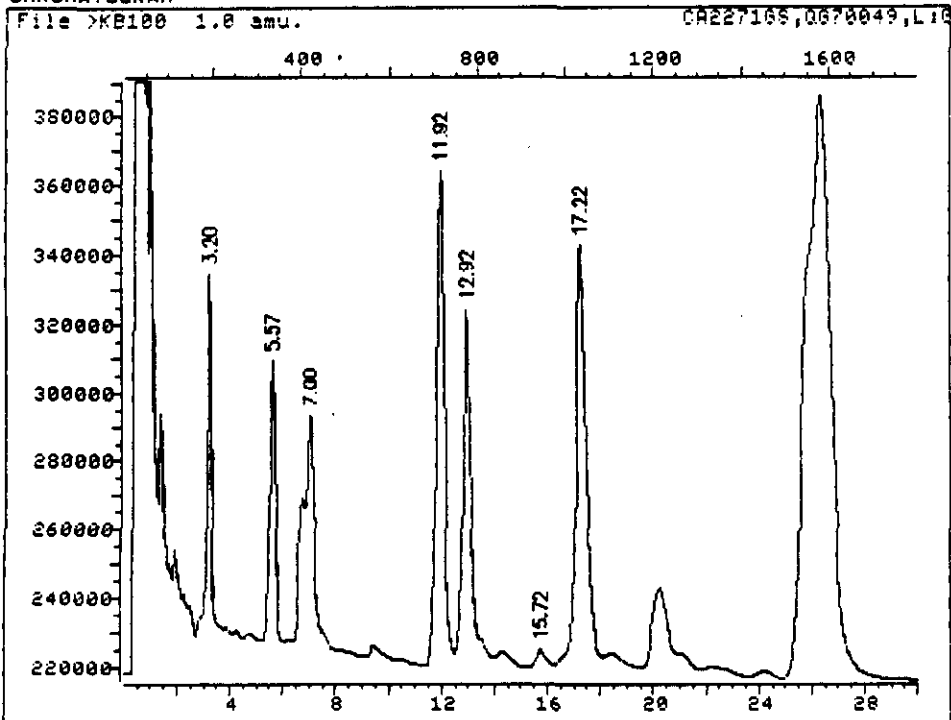
Date Analyzed: 11/16/89

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.050	IU
319-65-7	beta-BHC	.050	IU
319-86-8	delta-BHC	.050	IU
58-89-9	gamma-BHC(Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide	.050	IU
959-98-8	Endosulfan I	.050	IU
60-57-1	Dieldrin		
72-55-9	4,4'-DDE	.100	IU
72-20-8	Endrin		
33213-65-9	Endosulfan II	.100	IU
72-54-8	4,4'-DDD	.100	IU
1031-07-8	Endosulfan sulfate	.100	IU
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor	.500	IU
53494-70-5	Endrin ketone	.100	IU
5103-71-9	alpha-Chlordane	.500	IU
5103-74-2	gamma-Chlordane	.500	IU
8001-35-2	Toxaphene	12	IU
12674-11-2	Aroclor-1016	.500	IU
11104-28-2	Aroclor-1221	.500	IU
11141-16-5	Aroclor-1232	.500	IU
53469-21-9	Aroclor-1242	.500	IU
12672-29-6	Aroclor-1248	.500	IU
11097-69-1	Aroclor-1254	1	IU
11096-82-5	Aroclor-1260	1	IU

CHROMATOGRAM



Data File: >KB100::U2

Quant Output File: ^KB100::AQ

Name:

Instrument ID: KA

Misc: CA22716S, QG70049, L:G2, 1000, 10

KB

Id File: I049IP::US

Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ

11/21/89

Last Calibration: 891116 20:42

Operator ID: YY6148

Quant Time: 891116 21:02

Injected at: 891116 20:31

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB100::AQ  
 Data File: >KB100::U2  
 Name:  
 Misc: CA2271GS, QG70049, L:G2, 1000, 10

Quant Rev: 7      Quant Time: 891116 21:02  
 Injected at: 891116 20:31  
 Dilution Factor: 1.00000  
 Instrument ID: ~~KA~~  
 KB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 20:42

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	3.20	192	105665	.0342	UG/ML	100
4) #Heptachlor	5.57	334	82240	.0278	UG/ML	100
6) #Aldrin	7.00	420	67520	.0305	UG/ML	100
12) #Dieldrin	11.92	715	143681	.0970	UG/ML	100
13) #Endrin	12.92	775	100864	.0896	UG/ML	100
16) #4,4'-DDT	17.22	1033	122113	.110	UG/ML	100
<del>43) #Aroclor 1260</del>	<del>15.72</del>	<del>943</del>	<del>5856</del>	<del>.0295</del>	<del>UG/ML</del>	<del>100</del>
<del>44) #AR 1260-2</del>	<del>17.22</del>	<del>1033</del>	<del>120769</del>	<del>.713</del>	<del>UG/ML</del>	<del>100</del>

# Compound uses ESTD

*Handwritten:*  
 4/21/89

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA1907GR

Sample wt/vol: 940.0 (g/mL) ML

Lab File ID: >JA500

Level: (low/med) LOW

Date Received: 10/07/89

% Moisture: not dec. dec.

Date Extracted: ~~09/27/89~~ <sup>10/11/89</sup> 11/21/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 11/08/89

GPC Cleanup: (Y/N) N

pH:

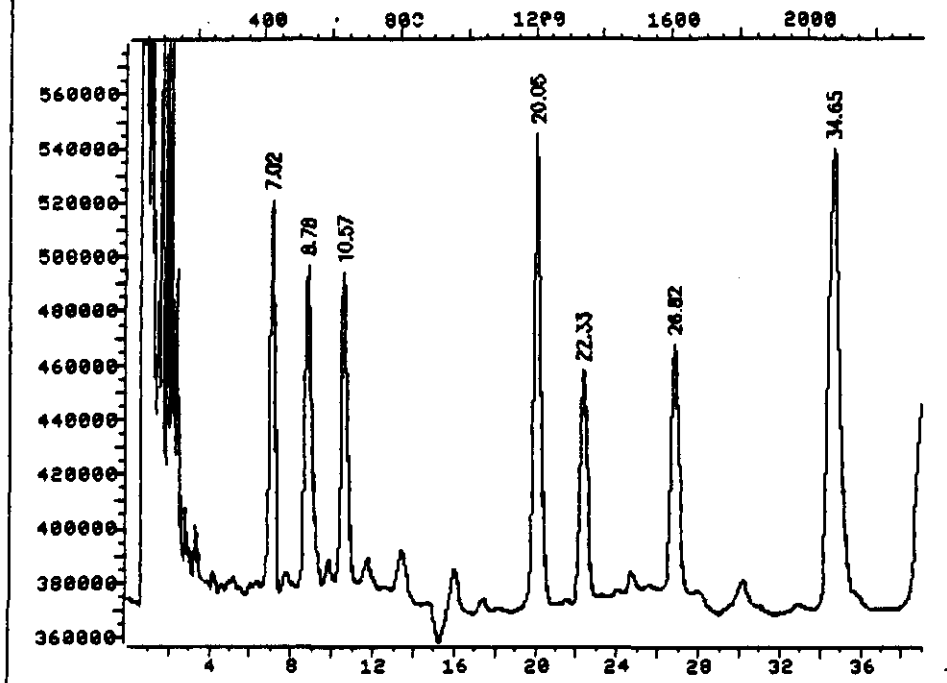
Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.053	U
319-65-7	beta-BHC	.053	U
319-86-8	delta-BHC	.053	U
58-89-9	gamma-BHC(Lindane)	.180	
76-44-8	Heptachlor	.170	
309-00-2	Aldrin	.190	
1024-57-3	Heptachlor epoxide	.053	U
959-98-8	Endosulfan I	.053	U
60-57-1	Dieldrin	.450	
72-55-9	4,4'-DDE	.110	U
72-20-8	Endrin	.380	
33213-65-9	Endosulfan II	.110	U
72-54-8	4,4'-DDD	.110	U
1031-07-8	Endosulfan sulfate	.110	U
50-29-3	4,4'-DDT	.490	
72-43-5	Methoxychlor	.530	U
53494-70-5	Endrin ketone	.110	U
5103-71-7	alpha-Chlordane	.053	U
5103-74-2	gamma-Chlordane	.053	U
8001-35-2	Toxaphene	2.100	U
12674-11-2	Aroclor-1016	.530	U
11104-28-2	Aroclor-1221	.530	U
11141-16-5	Aroclor-1232	.530	U
53469-21-9	Aroclor-1242	.530	U
12672-29-6	Aroclor-1248	.530	U
11097-69-1	Aroclor-1254	1.100	U
11096-82-5	Aroclor-1260	1.100	U

CHROMATOGRAM

File >JA500 1.0 au.

CA19076R, QG70030, L16



Data File: >JA500

Quant Output File: ^JA500::U6

Name:

Instrument ID: JA

Misc: CA19076R, QG70030, L:G2,940,10

Id File: I048IP::US

Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ

Last Calibration: 891108 16:21

Operator ID: YY6148

Quant Time: 891108 16:43

Injected at: 891108 13:32



QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^JA500::U6  
 Data File: >JA500::U4  
 Name:  
 Misc: CA1907GR,QG70030,L:G2,940,10

Quant Rev: 7      Quant Time: 891108 16:43  
 Injected at: 891108 13:32  
 Dilution Factor: 1.00000  
 Instrument ID: JA

ID File: I048IP::US  
 Title: IFB/PST/PCB 1.5%SP2250/1.95%SP2401 2UL INJ  
 Last Calibration: 891108 16:21

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	7.02	421	144321	.0172	UG/ML	100
4) #Heptachlor	8.78	527	118592	.0159	UG/ML	100
6) #Aldrin	10.57	634	114560	.0179	UG/ML	100
12) #Dieldrin	20.05	1203	175873	.0420	UG/ML	100
13) #Endrin	22.33	1340	86080	.0354	UG/ML	100
16) #4,4'-DDT	26.82	1609	91456	.0460	UG/ML	100
19) #Dibutylchlorodate	34.65	2079	169164	.0771	UG/ML	100

*2.11/1/89*

# Compound uses ESTD

ID  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA2271GR

Sample wt/vol: 1000. (g/mL) ML

Lab File ID: >KB101

Level: (low/med) LOW

Date Received: ~~10/12/89~~ <sup>11/2/89</sup>

% Moisture: not dec. dec.

Date Extracted: 10/13/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 11/16/89

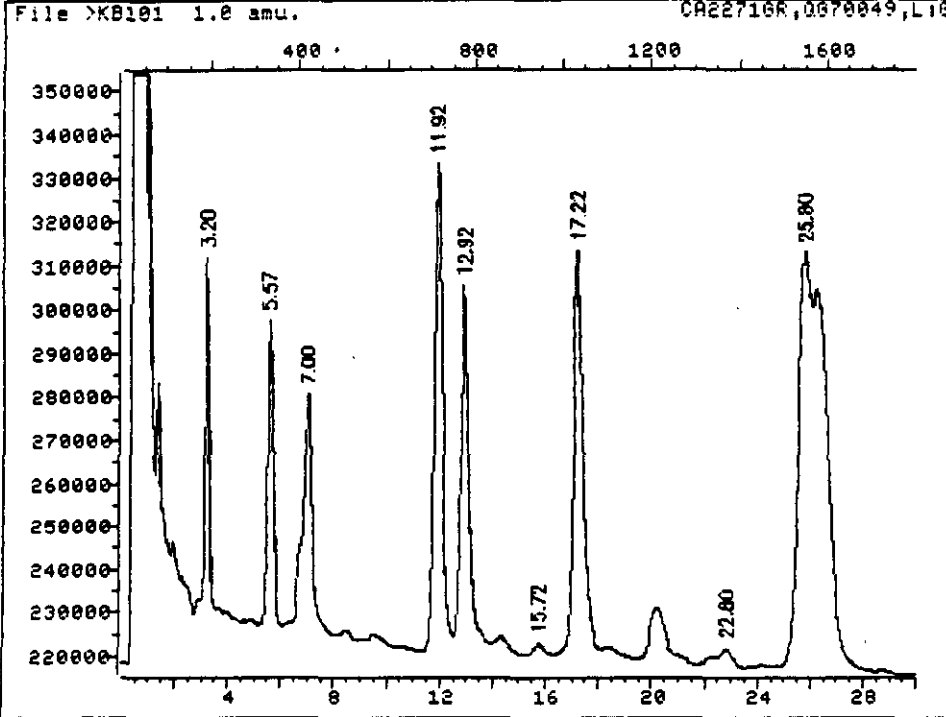
GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-64-6	alpha-BHC	.050	1U
319-65-7	beta-BHC	.050	1U
319-86-8	delta-BHC	.050	1U
58-89-9	gamma-BHC(Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide	.050	1U
959-98-8	Endosulfan I	.050	1U
60-57-1	Dieldrin		
72-55-9	4,4'-DDE	.100	1U
72-20-8	Endrin		
33213-65-9	Endosulfan II	.100	1U
72-54-8	4,4'-DDD	.100	1U
1031-07-8	Endosulfan sulfate	.100	1U
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor	.500	1U
53494-70-5	Endrin ketone	.100	1U
5103-71-9	alpha-Chlordane	.500	1U
5103-74-2	gamma-Chlordane	.500	1U
8001-35-2	Toxaphene	2	1U
12674-11-2	Aroclor-1016	.500	1U
11104-28-2	Aroclor-1221	.500	1U
11141-16-5	Aroclor-1232	.500	1U
53469-21-9	Aroclor-1242	.500	1U
12672-29-6	Aroclor-1248	.500	1U
11097-69-1	Aroclor-1254	1	1U
11096-82-5	Aroclor-1260	1	1U

CHROMATOGRAM



Data File: >KB101::U2

Quant Output File: ^KB101::AQ

Name:

Instrument ID: KA

Misc: CA2271GR,QG70049,L:G2,1000,10

KB

Id File: I049IP::US

Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ

Last Calibration: 891116 20:42

Operator ID: YY6148

Quant Time: 891116 21:37

Injected at: 891116 21:06

*11/21/89*

QUANT REPORT

Page 1

Operator ID: YY6148  
 Output File: ^KB101::AQ  
 Data File: >KB101::U2  
 Name:  
 Misc: CA2271GR, QG70049, L:G2, 1000, 10

Quant Rev: 7      Quant Time: 891116 21:37  
 Injected at: 891116 21:06  
 Dilution Factor: 1.00000  
 Instrument ID: KA  
 KB

ID File: I049IP::US  
 Title: IFB/PST/PCB 6' X 2 MM ID 3%SP-2100 2 UL INJ  
 Last Calibration: 891116 20:42

Compound	R.T.	Scan#	Height	Conc	Units	q
2) #Gamma-BHC	3.20	192	82128	.0266	UG/ML	100
4) #Heptachlor	5.57	334	71040	.0240	UG/ML	100
6) #Aldrin	7.00	420	55488	.0251	UG/ML	100
12) #Dieldrin	11.92	715	112257	.0758	UG/ML	100
13) #Endrin	12.92	775	82176	.0730	UG/ML	100
16) #4,4'-DDT	17.22	1033	93056	.0837	UG/ML	100
19) #Dibutylchlorodate	25.80	1548	95360	.145	UG/ML	100
<del>43) #Aroclor 1260</del>	<del>17.72</del>	<del>943</del>	<del>2688</del>	<del>.0197</del>	<del>UG/ML</del>	<del>100</del>
<del>44) #AR 1260 2</del>	<del>17.22</del>	<del>1033</del>	<del>92992</del>	<del>.549</del>	<del>UG/ML</del>	<del>100</del>
<del>45) #AR 1260 3</del>	<del>22.80</del>	<del>1368</del>	<del>4480</del>	<del>.0268</del>	<del>UG/ML</del>	<del>100</del>

# Compound uses ESTD

*11/21/89*



ETC

CHAIN OF CUSTODY



**CHAIN OF CUSTODY FORM (CC1)**

ORIGINAL Date Sealed 89/09/14 By: KC

Company: PELA Attn.: CLAYTON LINDSEY  
 Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150  
C/O HOLIDAY INN MADISON SMITH EAST  
 Address: 190// EXIT 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 405 (Optional Sample Point Descriptions)

Sample Point: WBL 0911016 11447 15  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Flit. (Y/N)	Observations	Observations
2	UDA	40	NONE	VOLATILES	N	✓	✓
1	TB	40	GC/MS	TRIP BLANK	N	✓	✓
2	EXT	1000	none	EXT/MS	N	✓	✓
2	EXT	1000	none	EXT/PST/PCB	N	✓	✓
1	MET	1000	HNO3	METALS	N	✓	✓
1		500	NaOH	Cyanide	N	✓	✓
1		125	N/A	Fluoride	N	✓	✓
1		125	N/A	PHSC	N	✓	✓
1		125	H2SO4	Phenol	N	✓	✓
1		125	N/A	NO2/NO3	N	✓	✓
1		125	N/A	Chloride	N	✓	✓
1		125	H2SO4	TOC	N	✓	✓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) JEFF ENGLAND Date: 86 Sep 89 Time: 0737  
 Signature: [Signature] Seal #: 0162709 Intact: 1  
 I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_  
 3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_  
 4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 Oct 89 Time: 1700  
 Signature: [Signature] Seal #: 0162710 Intact: 1

LAB USE ONLY Opened By: Rita [Signature] Date: 89-10-09 Time: 12:00  
 SHUTTLE # 153 TEMP. °C 70 SEAL # 0162710 COND. Intact 903

**ENVIRONMENTAL TESTING and CERTIFICATION**  
**FIELD PARAMETER FORM (CC2)**

ETC JOB # CA188.9  
 Sample Point 141 181 \_\_\_\_\_  
Source Code Sample Point I.D.

**FIELD PROCEDURES**

8/11/06 11447 115 \_\_\_\_\_ 160  
PURGE DATE (YY MM DD) START PURGE (2400 Hr Clock) ELAPSED HRS WATER VOL. IN CASING (Gallons) VOLUME PURGED (Gallons)

SAMPLING METHOD: private well

Sampler Type  A-Submersible Pump  D-Dipper/Bottle  
 B-ISCO  E-Bailer X-Other private well  
 C-Bladder Pump  F-Scoop/Shovel (SPECIFY OTHER)

Sampler Material  A-Teflon  C-PVC X-Other Faucet  
 B-Metal  D-Plastic (SPECIFY OTHER)

Tubing Material  A-Teflon  C-Polyethylene X-Other metal  
 B-Tygon  D-Silicon (SPECIFY OTHER)

Sample Composited  Y/N

Procedure/Proportions

**FIELD MEASUREMENTS**

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
 Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st <u>7.21</u> (STD) <small>ph</small>	1st <u>784</u> <small>spec. cond.</small>	<small>uniform at 25°C</small>	_____	_____	_____
2nd <u>7.23</u> (STD) <small>ph</small>	2nd <u>779</u> <small>spec. cond.</small>	<small>uniform at 25°C</small>	_____	_____	_____
3rd <u>7.22</u> (STD) <small>ph</small>	3rd <u>779</u> <small>spec. cond.</small>	<small>uniform at 25°C</small>	_____	_____	_____
4th <u>7.24</u> (STD) <small>ph</small>	4th <u>779</u> <small>spec. cond.</small>	<small>uniform at 25°C</small>	_____	_____	_____
_____ <small>Sample Temp (°C)</small>	_____ <small>Turbidity NTU</small>				

**FIELD COMMENTS**

Sample Appearance: Clear no odor  
 Weather Conditions: Sunny, 15 mph wind, 60°F  
 Other: well faucet located west side of farmhouse. Purged out 50 Gallon storage TANK

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JOPE ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6/20/06 [Signature]  
(Date) (Signature)



**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL Date Sealed 10-2-89 By: \_\_\_\_\_

Company: WYOT Attn: Clayton Lindsey  
Facility/Site: Town of Dumont (402) Phone: (608) 835-3733  
Address: \_\_\_\_\_

**SAMPLE IDENTIFICATION**

Facility: 4105 36 (Optional Sample Point Description)

Sample Point: W-B-L 891101016 11447 15  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock)Elapsed Hours (composite)

Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
1	P	250	∅	Bicarbonate, Carbamate, Sulfate, TDS	N	✓	full, clear
1	P	250	H <sub>2</sub> SO <sub>4</sub>	TKN, NH <sub>3</sub>	N	✓	

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 10-03-89 Time: 10:50  
Signature: Clayton Lindsey Seal #: 675, 674 Intact: ok

2. I have received these materials in good condition from the above person.  
Name: JEFF ENGLAND Signature: [Signature]  
Date: 6 Oct 89 Time: 1145 Remarks: ok

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 Oct 89 Time: 1930  
Signature: [Signature] Seal #: 00643 Intact: ok

LAB USE ONLY Opened By: Kelly Schell Date: 10-2-89 Time: \_\_\_\_\_  
SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 643 COND. Intact 905





# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
CS/82

ETC JOB # CA1889

Sample Point W B14

Source Code

Sample Point I.D.

## FIELD PROCEDURES

8.9.11.10.06

PURGE DATE  
(YY MM DD)

11417

START PURGE  
(2400 Hr Clock)

5

ELAPSED HRS

WATER VOL. IN CASING  
(Gallons)

6.0

VOLUME PURGED  
(Gallons)

SAMPLING METHOD: Private well

Sampler Type AIX

AIX

A-Submersible Pump  
B-ISCO  
C-Bladder Pump

D-Dipper/Bottle  
E-Bailer  
F-Scoop/Shovel

X-Other private well  
(SPECIFY OTHER)

Sampler Material X

A-Teflon  
B-Metal

C-PVC  
D-Plastic

X-Other Faucet  
(SPECIFY OTHER)

Tubing Material X

A-Teflon  
B-Tygon

C-Polyethylene  
D-Silicon

X-Other metal  
(SPECIFY OTHER)

Sample Compositing Y/N

Procedure/Proportions

## FIELD MEASUREMENTS

Well Elevation (ft/msl)         

Well Depth (ft)         

Depth to Ground water (ft)         

Sample Depth (non-well) (ft)         

Groundwater Elevation (ft msl)         

1st 7.21 (STD)                           

ph

1st          784                                    

spec. cond.

um/cm  
at 25 °C

(other parameter)

value

units

2nd 7.22 (STD)                           

ph

2nd          779                                    

spec. cond.

um/cm  
at 25 °C

(other parameter)

value

units

3rd 7.22 (STD)                           

ph

3rd          779                                    

spec. cond.

um/cm  
at 25 °C

(other parameter)

value

units

4th 7.24 (STD)                           

ph

4th          779                                    

spec. cond.

um/cm  
at 25 °C

(other parameter)

value

units

11.8 (°C)  
Sample Temp

                                                       
Turbidity NTU

## FIELD COMMENTS

Sample Appearance: clear NO ODOR

Weather Conditions: Sunny, Saph wind, 60° F

Other: well faucet, located west side of farmhouse, purged out  
50 Gallon storage tank

## FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JEFF ENGELAND

(Print)

Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6.25.09  
(Date)

          
(Signature)

A Subsidiary of Environmental Treatment and Technologies Corp.  
The Environmental Services Company

ORIGINAL

906



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
03/88

ETC JOB # CA1227  
 Sample Point W1814  
Source Code                      Sample Point I.D.

### FIELD PROCEDURES

PURGE DATE (YY MM DD) 3/9/10      START PURGE (2400 Hr Clock) 11447      ELAPSED HRS 1.5      WATER VOL IN CASING (Gallons)               VOLUME PURGED (Gallons) 1610

SAMPLING METHOD: Private well

Sampler Type AIX      A-Submersible Pump      D-Dipper/Bottle      X-Other Private well  
B-ISCO      E-Bailer      (SPECIFY OTHER)  
C-Bladder Pump      F-Scoop/Shovel

Sampler Material  A-Teflon      C-PVC      X-Other Faucet  
B-Metal      D-Plastic      (SPECIFY OTHER)

Tubing Material  A-Teflon      C-Polyethylene      X-Other Metal  
B-Tygon      D-Silicon      (SPECIFY OTHER)

Sample Composited  Y/N

Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl)               Well Depth (ft)           
 Depth to Ground water (ft)               Sample Depth (non-well) (ft)           
 Groundwater Elevation (ft msl)         

1st <u>7.21</u> (STD)      1st <u>724</u> um/cm <u>        </u> <u>        </u> <u>        </u> <small>ph      spec. cond.      at 25 °C      (other parameter)      value      units</small>
2nd <u>7.22</u> (STD)      2nd <u>779</u> um/cm <u>        </u> <u>        </u> <u>        </u> <small>ph      spec. cond.      at 25 °C      (other parameter)      value      units</small>
3rd <u>7.22</u> (STD)      3rd <u>779</u> um/cm <u>        </u> <u>        </u> <u>        </u> <small>ph      spec. cond.      at 25 °C      (other parameter)      value      units</small>
4th <u>7.24</u> (STD)      4th <u>779</u> um/cm <u>        </u> <u>        </u> <u>        </u> <small>ph      spec. cond.      at 25 °C      (other parameter)      value      units</small>
<u>18</u> (°C) <u>        </u> NTU <small>Sample Temp      Turbidity</small>

### FIELD COMMENTS

Sample Appearance: Clear NO ODOR  
 Weather Conditions: Sunny, Saph wind, 60° F  
 Other: well faucet located west side of farmhouse purged out  
20 gallon storage tank

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: Jessie E. ...      Employer: PSLA  
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

                        
(Date)      (Signature)



**CHAIN OF CUSTODY FORM (CC1)**

ORIGINAL Date Sealed 89/10/04 Ry: RW

Company: PELA Attn.: CLAYTON LINDSEY  
 Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150  
670 HOLIDAY INN MADISON SMITH EAST  
 Address: 190// EXIT 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 405 3b (Optional Sample Point Descriptions)

Sample Point: W-SW 891006 11603 8  
Source Code (from below) Your Sample Point ID (tell justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
2	VIA	40	NONE	VOLATILES	N	✓	✓
1	TB	40	GC/MS	TRIP BLANK			✓
3	EXT	1000	none	EXT/MS/GC	N	✓	✓
1	Me I	500	HNO3	METALS	N	✓	✓
1	UNL	500	<del>NONE</del>	<del>NONE</del> CYANIDE	N	✓	✓
1	UNL	125	NONE	CHLOR	N	✓	✓
1	FL	125	NONE	FLUORIDE	N	✓	✓
1	UNL	125	H2SO4	TOC	N	✓	✓
1	UNL	125	H2SO4	NO2/NO3	N	✓	✓
1	UNL	125	H2SO4	PHENOL	N	✓	✓

**CHAIN OF CUSTODY CHRONICLE**

- Shuttle Opened By: (print) Clayton Lindsey Date: 05 OCT 89 Time: 1322  
 Signature: [Signature] Seal #: 0160809 Intact: OK
  - I have received these materials in good condition from the above person.  
 Name: JEFF ENGLAND Signature: [Signature]  
 Date: 6 OCT 89 Time: 1300 Remarks: OK
  - I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_
  - Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 OCT 89 Time: 1730  
 Signature: [Signature] Seal #: 0160810 Intact: OK
- LAB USE ONLY Opened By: Ken Crawford Date: 89-10-09 Time: 12:15 908  
 SHUTTLE # 0 TEMP. °C 5 SEAL # 0160810 COND. Intact



ENVIRONMENTAL TESTING and CERTIFICATION

Seal No. 0160809 ETC Job # CA1890**CHAIN OF CUSTODY FORM (CC1)**ORIGINAL Date Sealed 89/10/04 By: RW

Company: PELA Attn.: CLAYTON LINDSEY  
 Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150  
C/O HOLIDAY INN MADISON SMITH EAST  
 Address: 19077 EXIT 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 405 3b  
Facility/Site Code (Optional Sample Point Descriptions)  
 Sample Point: W-SW 891016 1603 18  
Source Code (from below) Your Sample Point ID Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Filt. (Y/N)	Observations	Observations
1	CONC	125	NONE	PH/SCOND	N ✓	✓	✓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) Clayton Lindsey Date: 05 OCT 89 Time: 1322  
 Signature: Clayton Lindsey Seal #: 0160809 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: JEFF ENGLAND Signature: [Signature]  
 Date: 6 OCT 89 Time: 1300 Remarks: OK

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 OCT 89 Time: 1730  
 Signature: [Signature] Seal #: 0160810 Intact: OK

LAB USE ONLY Opened By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 SHUTTLE # \_\_\_\_\_ TEMP. °C \_\_\_\_\_ SEAL # \_\_\_\_\_ COND. 909



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA 1890

Sample Point W1 SW

Source Code

Sample Point I.D.

## FIELD PROCEDURES

89110106  
PURGE DATE  
(YY MM DD)

116013  
START PURGE  
(2400 Hr Clock)

18  
ELAPSED HRS

        
WATER VOL. IN CASING  
(Gallons)

140  
VOLUME PURGED  
(Gallons)

SAMPLING METHOD: private

Sampler Type  A-X A-Submersible Pump D-Dipper/Bottle  
B-ISCO E-Bailer X-Other Private well  
C-Bladder Pump F-Scoop/Shovel (SPECIFY OTHER)

Sampler Material  X A-Teflon C-PVC  
B-Metal D-Plastic X-Other Faucet  
(SPECIFY OTHER)

Tubing Material  X A-Teflon C-Polyethylene  
B-Tygon D-Silicon X-Other BRASS  
(SPECIFY OTHER)

Sample Composited  Y/N

Procedure/Proportions

## FIELD MEASUREMENTS

Well Elevation (ft/msl)       

Well Depth (ft)       

Depth to Ground water (ft)       

Sample Depth (non-well) (ft)       

Groundwater Elevation (ft msl)       

1st 720 (STD)         
pH

1st 683                
spec. cond. um/cm at 25°C

                      
(other parameter) value units

2nd 722 (STD)         
pH

2nd 688                
spec. cond. um/cm at 25°C

                      
(other parameter) value units

3rd 725 (STD)         
pH

3rd 690                
spec. cond. um/cm at 25°C

                      
(other parameter) value units

4th 727 (STD)         
pH

4th 695                
spec. cond. um/cm at 25°C

                      
(other parameter) value units

1140 (°C)  
Sample Temp

       NTU  
Turbidity

## FIELD COMMENTS

Sample Appearance: Clear no odor  
Weather Conditions: N/A inside temp 65°F  
Other: well sampled in the basement of a farmhouse. Purged 40 gallons had a 20 gallon holding tank

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JOFF ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6-23-89 (Date) [Signature] (Signature)



**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL

Date Sealed 10-2-89 By: \_\_\_\_\_

Company: WTFE Attn: Clayton Lindsey  
 Facility/Site: Town of Dunbar (409) Phone: (608) 835-3733  
 Address: \_\_\_\_\_

**SAMPLE IDENTIFICATION**

Facility: 41015 35 (Optional Sample Point Descriptions)

Sample Point: W-SIW 8911006 116103 18  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Filt. (Y/N)	Observations	Observations
1	P	250	φ	Bicarbonate, Carbonate, TDS, Sulfate	N	✓	full (clean)
1	P	250	H <sub>2</sub> SO <sub>4</sub>	TKN, NH <sub>3</sub>	N	✓	↓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 10-03-89 Time: 10:50  
 Signature: [Signature] Seal #: 674-675 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: JEFF ENGLAND Signature: [Signature]  
 Date: 6 OCT 89 Time: 1300 Remarks: OK

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 OCT 89 Time: 1930  
 Signature: [Signature] Seal #: 674-675 Intact: OK

LAB USE ONLY Opened By: Kelly Schick Date: 10-7-89 Time: \_\_\_\_\_  
 SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 673 COND. Intact 911



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA 1890  
 Sample Point W SW \_\_\_\_\_  
Source Code                      Sample Point I.D.

### FIELD PROCEDURES

PURGE DATE (YY MM DD) 891104G      START PURGE (2400 Hr Clock) 1161013      ELAPSED HRS 1.0      WATER VOL. IN CASING (Gallons) \_\_\_\_\_      VOLUME PURGED (Gallons) 40

SAMPLING METHOD: \_\_\_\_\_

Sampler Type  A-Submersible Pump    D-Dipper/Bottle  
 B-ISCO                      E-Bailer  
 C-Bladder Pump            F-Scoop/Shovel      X-Other private well (SPECIFY OTHER)

Sampler Material  A-Teflon                    C-PVC  
 B-Metal                    D-Plastic              X-Other brass (SPECIFY OTHER)

Tubing Material  A-Teflon                    C-Polyethylene  
 B-Tygon                    D-Silicon              X-Other brass (SPECIFY OTHER)

Sample Compositing  Y  N

Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl) \_\_\_\_\_      Well Depth (ft) \_\_\_\_\_  
 Depth to Ground water (ft) \_\_\_\_\_      Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st	<u>7.20</u> (STD) ph	1st	<u>683</u> spec. cond.	um/cm at 25 ° C	_____ (other parameter)	_____ value	_____ units
2nd	<u>7.22</u> (STD) ph	2nd	<u>688</u> spec. cond.	um/cm at 25 ° C	_____ (other parameter)	_____ value	_____ units
3rd	<u>7.23</u> (STD) ph	3rd	<u>690</u> spec. cond.	um/cm at 25 ° C	_____ (other parameter)	_____ value	_____ units
4th	<u>7.27</u> (STD) ph	4th	<u>695</u> spec. cond.	um/cm at 25 ° C	_____ (other parameter)	_____ value	_____ units

Sample Temp 14.0 (°C)      Turbidity \_\_\_\_\_ NTU

### FIELD COMMENTS

Sample Appearance: clear no odor  
 Weather Conditions: w/ 65°F inside temp  
 Other: well sampled into the basement of a farmhouse Purged 40 Gallons - had a 20 Gallon holding tank.

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND (Print)      Employer: PCLA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6/2/89 (Date)      [Signature] (Signature)



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA 1370  
 Sample Point W SW \_\_\_\_\_  
Source Code                      Sample Point I.D.

### FIELD PROCEDURES

PURGE DATE (YY MM DD) 391104G      START PURGE (2400 Hr Clock) 116103      ELAPSED HRS 110      WATER VOL. IN CASING (Gallons) \_\_\_\_\_      VOLUME PURGED (Gallons) 140

**SAMPLING METHOD:** \_\_\_\_\_

Sampler Type  A-Submersible Pump      D-Dipper/Bottle  
 B-SCO      E-Bailer  
 C-Bladder Pump      F-Scoop/Shovel      X-Other private well (SPECIFY OTHER)

Sampler Material  A-Teflon      C-PVC      X-Other Facet (SPECIFY OTHER)  
 B-Metal      D-Plastic

Tubing Material  A-Teflon      C-Polyethylene      X-Other SPASS (SPECIFY OTHER)  
 B-Tygon      D-Silicon

Sample Compositd  Y/N \_\_\_\_\_  
Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
 Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st <u>7.20</u> (STD) <u>1683</u> um/cm at 25°C <small>ph                      spec. cond.</small>	_____ (other parameter)	_____ value	_____ units
2nd <u>7.27</u> (STD) <u>1698</u> um/cm at 25°C <small>ph                      spec. cond.</small>	_____ (other parameter)	_____ value	_____ units
3rd <u>7.25</u> (STD) <u>1690</u> um/cm at 25°C <small>ph                      spec. cond.</small>	_____ (other parameter)	_____ value	_____ units
4th <u>7.27</u> (STD) <u>1695</u> um/cm at 25°C <small>ph                      spec. cond.</small>	_____ (other parameter)	_____ value	_____ units
<u>1140</u> (°C) <u>      </u> NTU <small>Sample Temp                      Turbidity</small>			

### FIELD COMMENTS

Sample Appearance: clear no odor  
 Weather Conditions: 46 65°F inside temp  
 Other: well sampled in the basement of a farmhouse Private well  
1.5 gal - 2.26 gallon hold in tank.

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF EUGAND (Print)      Employer: PCLA  
 I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.  
 \_\_\_\_\_  
(Date)                      signature





CHAIN OF CUSTODY FORM (CC1)

ORIGINAL Date Sealed 89/09/14 By: KC

Company: PELA Attn.: CLAYTON LINDSEY  
Facility/Site: CITY OF MADISON Phone: (414) 631 - 3150  
190// EXIT 12 AND 18 EAST, MADISON, WI 53704  
Address:

SAMPLE IDENTIFICATION

Facility: 405 Facility/Site Code  
Sample Point: WTH Source Code (from below) 09/09/89 Your Sample Point ID (left justify) 117310 Start Date (YY/MM/DD) 117310 Start Time (2400 hr. clock) 10 Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

SHUTTLE CONTENTS

No	Type	BOTTLE		ANALYSIS	SAMPLER		LAB Observations
		Size	Preserv.		FIL (Y/N)	Observations	
2	VOA	40	NONE	VOLATILES	N	✓	
1	TB	40	GC/MS	TRIP BLANK		✓	
2	EXT	1000	none	EXT/MS	N	✓	
2	EXT	1000	none	EXT/PST/PCB	N	✓	
1	MET	1000	HNO3	METALS	N	✓	
1		500	NaOH	CYANIDE	N	✓	
1		125	H2SO4	Phenol	N	✓	
1		125	N/A	NO2/NO	N	✓	
1		125	N/A	PHOS	N	✓	
1		125	N/A	Fluoride	N	✓	
1		125	N/A	Chloride	N	✓	
1		125	H2SO4		N	✓	

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 09/26/89 Time: 2240  
Signature: Clayton Lindsey Seal #: 0162725 Intact: OK

2. I have received these materials in good condition from the above person.  
Name: JEFF ENGLAND Signature: [Signature]  
Date: 6 Oct 89 Time: 1300 Remarks: OK

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 10 Oct 89 Time: 1930  
Signature: [Signature] Seal #: 0160562 Intact: OK

LAB USE ONLY Opened By: [Signature] Date: 10-11-89 Time: 9:40  
SHUTTLE # 0 TEMP. °C 30 SEAL # 0160562 COND. Intact



ENVIRONMENTAL TESTING and CERTIFICATION

## FIELD PARAMETER FORM (CC2)

ETC JOB #

CA1891

Sample Point

W 315

Source Code

Sample Point I.D.

## FIELD PROCEDURES

PURGE DATE  
(YY MM DD)  
09 11 09START PURGE TIME  
(2400 Hr Clock)  
1730ELAPSED HRS  
15WATER VOL. IN CASING  
(Gallons)  
11VOLUME PURGED  
(Gallons)  
130

SAMPLING METHOD: Private well

Sampler Type

A/X

A-Submersible Pump  
B-ISCO  
C-Bladder PumpD-Dipper/Bottle  
E-Bailer  
F-Scoop/Shovel

X-Other

private well  
(SPECIFY OTHER)

Sampler Material

B

A-Teflon  
B-MetalC-PVC  
D-Plastic

X-Other

(SPECIFY OTHER)

Tubing Material

X

A-Teflon  
B-TygonC-Polyethylene  
D-Silicon

X-Other

metal  
(SPECIFY OTHER)

Sample Composited

N

Procedure/Proportions

## FIELD MEASUREMENTS

Well Elevation (ft/msl)

| | | | |

Well Depth (ft)

| | | | |

Depth to Ground water (ft)

| | | | |

Sample Depth (non-well) (ft)

| | | | |

Groundwater Elevation (ft msl)

| | | | |

1st | 7 | 3 | 6 | (STD) pH

1st | | 4 | 1 | 1 | 0 | um/cm at 25 ° C spec. cond.

(other parameter)

value units

2nd | 7 | 3 | 5 | (STD) pH

2nd | | 4 | 1 | 9 | um/cm at 25 ° C spec. cond.

(other parameter)

value units

3rd | 7 | 3 | 9 | (STD) pH

3rd | | 4 | 1 | 6 | um/cm at 25 ° C spec. cond.

(other parameter)

value units

4th | 7 | 4 | 0 | (STD) pH

4th | | 4 | 1 | 5 | um/cm at 25 ° C spec. cond.

(other parameter)

value units

Sample Temp  
| | 12 | 0 | ° CTurbidity  
| | | | | NTU

## FIELD COMMENTS

Sample Appearance: clear No odor

Weather Conditions: ~~clear, temp in north, 60° inside basement~~

Other: Private well in basement

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JEFF ENGLAND  
(Print)

Employer: PELT

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

10  
Date

Signature

915

ORIGINAL

**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL Date Sealed 10-5-89 By: KTS

Company: WMI Attn.: Clayton Lindsey  
 Facility/Site: Dunn (405) Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_

**SAMPLE IDENTIFICATION**

Facility: 405 303 3b (WCL 06 OCT 89)  
Facility/Site Code (Optional: Sample Point Descriptions)

Sample Point: WI-IH 891101 731 15  
Source Code (from below) Your Sample Point ID (if not justify) Start Date (YYMM/DD) Start Time (2400 hr. clock) Elapsed Hours (compositor)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
1	P	250	∅	Bicarbonate, Carbonate Sulfate, TDS	N	✓	full, clear
1	P	250	H2SO4	NH3, TKN	N	✓	↓

**CHAIN OF CUSTODY CHRONICLE**

1 Shuttle Opened By: (print) Clayton Lindsey Date: 06 OCT 89 Time: 1115  
 Signature: Clayton Lindsey Seal #: 692-693 Intact: OK

I have received these materials in good condition from the above person.

2 Name: JEFF ENGLAND Signature: [Signature]  
 Date: 60989 Time: 1300 Remarks: OK

I have received these materials in good condition from the above person.

3 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4 Shuttle Sealed By: (print) JEFF ENGLAND Date: 10 05 89 Time: 1930  
 Signature: [Signature] Seal #: [Seal] Intact: OK

LAB USE ONLY Opened By: Kelly Schell Date: 10-11-89 Time: 13:00  
 SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 706 COND. Intact



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CATER 1891 WCL 06 OCT 89  
 Sample Point W I H Source Code \_\_\_\_\_ Sample Point ID \_\_\_\_\_

### FIELD PROCEDURES

PURGE DATE (YY MM DD) 09 11 06 <sup>1022</sup> START PURGE (2400 Hr Clock) 117310  
 ELAPSED HRS 115 WATER VOL IN CASING (Gallons) \_\_\_\_\_ VOLUME PURGED (Gallons) 3422

SAMPLING METHOD: \_\_\_\_\_

Sampler Type A/X A-Submersible Pump D-Dipper/Bottle  
 B-ISCO E-Bailer  
 C-Bladder Pump F-Scoop/Shovel X-Other ~~RESIDUAL~~ PRIVATE Well (SPECIFY OTHER)

Sampler Material B A-Teflon C-PVC  
 B-Metal D-Plastic X-Other \_\_\_\_\_ (SPECIFY OTHER)

Tubing Material X A-Teflon C-Polyethylene  
 B-Tygon D-Silicon X-Other metal (SPECIFY OTHER)

Sample Compositing 3IN Procedure/Proportions \_\_\_\_\_

### FIELD MEASUREMENTS

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
 Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st	<u>7.36</u> (STD) pH	1st	<u>4110</u> spec. cond.	um/cm at 25°C	_____	value	units
2nd	<u>7.35</u> (STD) pH	2nd	<u>419</u> spec. cond.	um/cm at 25°C	_____	value	units
3rd	<u>7.39</u> (STD) pH	3rd	<u>416</u> spec. cond.	um/cm at 25°C	_____	value	units
4th	<u>7.40</u> (STD) pH	4th	<u>415</u> spec. cond.	um/cm at 25°C	_____	value	units
Sample Temp <u>12.0</u> (°C)		Turbidity _____		NTU			

### FIELD COMMENTS

Sample Appearance: clear no odor  
 Weather Conditions: clear, 5 mph wind, 60° F, 70% RH, sampled in basement  
 Other: private well in basement

### FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JEFF ENGLAND Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.  
10/22/89  
 Date: \_\_\_\_\_ Signature: \_\_\_\_\_



ENVIRONMENTAL TESTING and CERTIFICATION

Seal No. 0162717 ETC Job # CA1892

## CHAIN OF CUSTODY FORM (CC1)

ORIGINAL Date Sealed 89/09/14 By: KC

Company: PELA Attn.: CLAYTON LINDSEY  
 Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150  
C/O HOLIDAY INN MADISON SMITH EAST  
 Address: 190// EXIT 12 AND 18 EAST, MADISON, WI 53704

## SAMPLE IDENTIFICATION

Facility: 405 (Facility Site Code)  
 Sample Point: W-3 (Source Code) 09110106 (Your Sample Point ID) 08316 (Start Date) 115 (Start Time) 15 (Elapsed Hours)  
 Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

## SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
2	VOA	40	NONE	VOLATILES	N	✓	Bubble in VOA ✓
1	TB	40	GC/MS	TRIP BLANK		✓	Big Bubble in TB ✓
2	EXT	1000	none	EXT/MS	N	✓	✓
2	EXT	1000	none	EXT/PST/PCB	N	✓	✓
1	MET	1000	HNO3	METALS	N	✓	✓
1		500	NaOH	CYANIDE	N	✓	✓
1		125	None	Fluoride	N	✓	✓
1		125	None	PHOS	N	✓	✓
1		125	H2SO4	Phenol	N	✓	✓
1		125	N/A	NO2/NO3	N	✓	✓
1		125	N/A	Chloride	N	✓	✓
1		125	H2SO4	TOC	N	✓	✓

## CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 09/26/89 Time: 20:04  
 Signature: Clayton Lindsey Seal #: 0162717 Intact: ok

2. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) Clayton Lindsey Date: 600089 Time: 1200  
 Signature: Clayton Lindsey Seal #: 0162718 Intact: ok

LAB USE ONLY Opened By: Ken Crawford Date: N-9-89 Time: 11:55  
 SHUTTLE # 0 TEMP. °C 6 SEAL # 0162718 COND. Intact



ENVIRONMENTAL TESTING and CERTIFICATION

FIELD PARAMETER FORM (CC2)

ETC JOB #

CA1892

Sample Point

W LIA

Source Code

Sample Point I.D.

FIELD PROCEDURES

PURGE DATE (YY MM DD)

8/11/06

START PURGE (2400 Hr Clock)

08316

ELAPSED HRS

1.5

WATER VOL. IN CASING (Gallons)

VOLUME PURGED (Gallons)

140

SAMPLING METHOD: Private well

Sampler Type

X

- A-Submersible Pump
- B-ISCO
- C-Bladder Pump

- D-Dipper/Bottle
- E-Bailer
- F-Scoop/Shovel

X-Other

Jet Pump

(SPECIFY OTHER)

Sampler Material

X

- A-Teflon
- B-Metal

- C-PVC
- D-Plastic

X-Other

Fancliff

(SPECIFY OTHER)

Tubing Material

X

- A-Teflon
- B-Tygon

- C-Polyethylene
- D-Silicon

X-Other

metal/plastic well piping

(SPECIFY OTHER)

Sample Composited

YN

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl)

Well Depth (ft)

Depth to Ground water (ft)

Sample Depth (non-well) (ft)

Groundwater Elevation (ft msl)

1st 7.315 (STD) ph

1st 1658 um/cm at 25 °C spec. cond.

(other parameter)

value units

2nd 7.315 (STD) ph

2nd 1658 um/cm at 25 °C spec. cond.

(other parameter)

value units

3rd 7.318 (STD) ph

3rd 1652 um/cm at 25 °C spec. cond.

(other parameter)

value units

4th 7.410 (STD) ph

4th 1653 um/cm at 25 °C spec. cond.

(other parameter)

value units

110.5 (°C) Sample Temp

Turbidity NTU

FIELD COMMENTS

Sample Appearance: Clear No odor

Weather Conditions: Sunny, 10mph wind, 50°F

Other: Private well located next to farmhouse. Purged approx 20 gallons prior to water quality sampling and 40 gallons prior to sampling. Fancliff used to sample piped directly to well (No holding tank, Filter system).

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Clayton Lindsey

(Print)

Employer: PCA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6/25/09 (Date)

Clayton Lindsey (Signature)

919

ORIGINAL



CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 10-5-89 By: KTS gde

Company: WMT Attn: Clayton Lindsey

Facility/Site: Duan (425) Phone: \_\_\_\_\_

Address: \_\_\_\_\_

SAMPLE IDENTIFICATION

Facility: 41015 131 (Optional Sample Point Descriptions)

Sample Point: W-LA 3911006 0836 115  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL (Y/N)	Observations	Observations
1	P	250	Ø	Bicarbonate, Carbonate, Sulfate, TDS	N	✓	full, clear
1	P	250	H2SO4	NH3, TKN	N	✓	↓

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) JEFF ENGLAND Date: 6 OCT 89 Time: 1120  
Signature: [Signature] Seal #: 692-693 Intact: ac

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 OCT 89 Time: 1930  
Signature: [Signature] Seal #: 06643 Intact: ok

LAB USE ONLY Opened By: Kelly Schell Date: 10-5-89 Time: \_\_\_\_\_  
SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 643 COND. Intact 920



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA 1592 J2E  
Sample Point W LIA  
Source Code Sample Point I.D.

**FIELD PROCEDURES**

PURGE DATE (YY MM DD) 89 11 01 16 START PURGE (2400 Hr Clock) 01836 ELAPSED HRS 15 WATER VOL. IN CASING (Gallons) \_\_\_\_\_ VOLUME PURGED (Gallons) 4.80

SAMPLING METHOD: Private Well

Sampler Type  A-Submersible Pump  D-Dipper/Bottle  E-Bailer  F-Scoop/Shovel  Other JET Pump  
 B-ISCO  C-Bladder Pump  C-PVC  D-Plastic  X-Other \_\_\_\_\_ (SPECIFY OTHER)

Sampler Material  A-Teflon  B-Metal  C-PVC  D-Plastic  X-Other Faucet  
 B-Metal  C-PVC  D-Plastic  X-Other \_\_\_\_\_ (SPECIFY OTHER)

Tubing Material  A-Teflon  B-Tygon  C-Polyethylene  D-Silicon  X-Other metal/plastic well piping  
 B-Tygon  C-Polyethylene  D-Silicon  X-Other \_\_\_\_\_ (SPECIFY OTHER)

Sample Compositing  IN

Procedure/Proportions \_\_\_\_\_

**FIELD MEASUREMENTS**

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
 Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st	<u>7.35</u> (STD) pH	1st	<u>1658</u> spec. cond.	um/cm at 25°C	_____	_____	_____
2nd	<u>7.35</u> (STD) pH	2nd	<u>1658</u> spec. cond.	um/cm at 25°C	_____	_____	_____
3rd	<u>7.38</u> (STD) pH	3rd	<u>1652</u> spec. cond.	um/cm at 25°C	_____	_____	_____
4th	<u>7.40</u> (STD) pH	4th	<u>1653</u> spec. cond.	um/cm at 25°C	_____	_____	_____
	<u>11.05</u> (°C) Sample Temp		_____ NTU	Turbidity	_____	_____	_____

**FIELD COMMENTS**

Sample Appearance: Clear No odor

Weather Conditions: Sunny, 10 mph wind, 50°F

Other: private well located next to farmhouse purged approx. 20 gallons prior to WAS of well. Faucet used to sample piped directly to well (no holding tank, filter system, etc)

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGELAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6/28/89 (Date) [Signature] (Signature)





# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # 34 B42 JDE  
Sample Point W LIA  
Source Code \_\_\_\_\_ Sample Point I.D. \_\_\_\_\_

**FIELD PROCEDURES**

PURGE DATE (YY MM DD) 8911006    START PURGE (2400 Hr Clock) 01836    ELAPSED HRS 15    WATER VOL. IN CASING (Gallons) \_\_\_\_\_    VOLUME PURGED (Gallons) 210 <sup>4</sup> <sub>160E</sub>

SAMPLING METHOD: Private well

Sampler Type  A-Submersible Pump    D-Dipper/Bottle  
 B-ISCO    E-Bailer  
 C-Bladder Pump    F-Scoop/Shovel    X-Other Jet Pump (SPECIFY OTHER)

Sampler Material  A-Teflon    C-PVC  
 B-Metal    D-Plastic    X-Other Faucet (SPECIFY OTHER)

Tubing Material  A-Teflon    C-Polyethylene  
 B-Tygon    D-Silicon    X-Other metal/plastic well piping (SPECIFY OTHER)

Sample Composited  YN

Procedure/Proportions \_\_\_\_\_

**FIELD MEASUREMENTS**

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
 Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st <u>7.35</u> (STD) ph	1st <u>1658</u> spec. cond.	um/cm at 25°C	_____	_____	_____
2nd <u>7.35</u> (STD) ph	2nd <u>1658</u> spec. cond.	um/cm at 25°C	_____	_____	_____
3rd <u>7.38</u> (STD) ph	3rd <u>1652</u> spec. cond.	um/cm at 25°C	_____	_____	_____
4th <u>7.40</u> (STD) ph	4th <u>1653</u> spec. cond.	um/cm at 25°C	_____	_____	_____
<u>11.05</u> (°C) Sample Temp	_____ NTU	Turbidity	_____	_____	_____

**FIELD COMMENTS**

Sample Appearance: Clear No odor

Weather Conditions: Sunny, 10mph wind, 50°F

Other: private well located next to farm house purged 200 ft in  
 water pump well of well faucet used to sample pipe  
 to well in hole of tank, Filter system, etc)

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND (Print)    Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

11/25/89 (Date)    [Signature] (Signature)



**CHAIN OF CUSTODY FORM (CC1)**

ORIGINAL Date Sealed 89/09/14 By: KC

Company: PELA Attn: CLAYTON LINDSEY  
 Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150  
~~C/O HOLIDAY INN MADISON SMITH EAST~~  
 Address: 190// EXIT 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 405 Duplicate PE3B  
Facility/Site Code (Optional Sample Point Descriptions)  
 Sample Point: 12X DUPI 891006 11447 115  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify Duplicate

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
2	VOA	40	NONE	VOLATILES	N	✓	✓
1	TB	40	GC/MS	TRIP BLANK	N	✓	✓
2	EXT	1000	none	EXT/MS	N	✓	✓
2	EXT	1000	none	EXT/PST/PCB	N	✓	✓
1	MET	1000	HNO3	METALS	N	✓	✓
1		500	NaOH	CYANIDE	N	✓	✓
1		125		Fluoride	W	✓	✓
1		125	None	As/Se	N	✓	✓
1		125	H2SO4	Phenol	N	✓	✓
1		125	N/A	chloride	N	✓	✓
1		125	H2SO4	As/Se	N	✓	✓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 09/26/09 Time: 2040  
 Signature: Clayton Lindsey Seal #: 0162727 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: JEFF ENGLAND Signature: [Signature]  
 Date: 6 Oct 09 Time: 1300 Remarks: OK

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 Oct 09 Time: 1200  
 Signature: [Signature] Seal #: 0162728 Intact: OK

LAB USE ONLY Opened By: [Signature] Date: 89-10-09 Time: 11:40 925  
 SHUTTLE # 911 TEMP. °C 8 SEAL # 0162728 COND. intact



ENVIRONMENTAL TESTING and CERTIFICATION

FIELD PARAMETER FORM (CC2)

ETC JOB # CA1907  
Sample Point  D191P

FIELD PROCEDURES

PURGE DATE (YY MM DD) 091106  
START PURGE (2400 Hr Clock) 11447  
ELAPSED HRS 1.5  
WATER VOL. IN CASING (Gallons) \_\_\_\_\_  
VOLUME PURGED (Gallons) 160

SAMPLING METHOD: Private well

Sampler Type  A-Submersible Pump  D-Dipper/Bottle  
 B-ISCO  E-Bailer  
 C-Bladder Pump  F-Scoop/Shovel  
X-Other Private well (SPECIFY OTHER)  
Sampler Material  A-Teflon  C-PVC  
 B-Metal  D-Plastic  
X-Other Fused (SPECIFY OTHER)  
Tubing Material  A-Teflon  C-Polyethylene  
 B-Tygon  D-Silicon  
X-Other metal (SPECIFY OTHER)  
Sample Compositing  TN

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
Groundwater Elevation (ft msl) \_\_\_\_\_

1st pH 7.21 (STD) 1st spec. cond. 1784 um/cm at 25°C  
2nd pH 7.22 (STD) 2nd spec. cond. 1779 um/cm at 25°C  
3rd pH 7.22 (STD) 3rd spec. cond. 1779 um/cm at 25°C  
4th pH 7.24 (STD) 4th spec. cond. 1779 um/cm at 25°C  
Sample Temp 11.18 (°C) Turbidity \_\_\_\_\_ NTU

FIELD COMMENTS

Sample Appearance: Clear No odor  
Weather Conditions: Sunny, 15 mph wind, North, 60°F  
Other: well faucet located west side of farmhouse, Purged out 50 gallon storage tank

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JEFF ENCLAND Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

Date: 6/20/09 Signature: Jeff Encland

924

ORIGINAL



**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL Date Sealed 89/09/14 By: KC

Company: PFI A Attn.: CLAYTON LINDSEY  
Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150  
670 HOLIDAY INN MADISON SMITH EAST  
Address: 190// EXIT 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 405 (Optional Sample Point Descriptions)  
Sample Point: XI-DUIP 891106 11947 115  
Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify ms/msd

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL (Y/N)	Observations	Observations
2	UDA	40	NONE	VOLATILES	N	✓	Red one USA broken ✓
1	TB	40	GC/MS	TRIP BLANK		✓	Bubbles in TB ✓
2	EXT	1000	none	EXT/MS	N	✓	✓
2	EXT	1000	none	EXT/PST/PCB	N	✓	✓
1	MET	1000	HNO3	METALS	N	✓	✓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 09/26/89 Time: 2:51  
Signature: Clayton Lindsey Seal #: 0162721 Intact: OK

2. I have received these materials in good condition from the above person.  
Name: JEFF ENGLAND Signature: [Signature]  
Date: 6 Oct 89 Time: 1300 Remarks: [Signature]

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 Oct 89 Time: 1700  
Signature: [Signature] Seal #: 0160540 Intact: OK

LAB USE ONLY Opened By: Tom Crawford Date: 10-9-89 Time: 11:35 475  
SHUTTLE # 300 TEMP. °C 10 SEAL # 0160540 COND. Intact



ENVIRONMENTAL TESTING and CERTIFICATION

FIELD PARAMETER FORM (CC2)

ETC JOB # CA1907

Sample Point  DUP  
Source Code Sample Point I.D.

FIELD PROCEDURES

8911006  
PURGE DATE (YY MM DD)

11417  
START PURGE (2400 Hr Clock)

15  
ELAPSED HRS

\_\_\_\_\_  
WATER VOL. IN CASING (Gallons)

\_\_\_\_\_  
VOLUME PURGED (Gallons)

SAMPLING METHOD:

Sampler Type  A-Submersible Pump    D-Dipper/Bottle  
 B-ISCO    E-Bailer  
 C-Bladder Pump    F-Scoop/Shovel    X-Other private well (SPECIFY OTHER)

Sampler Material  A-Teflon    C-PVC  
 B-Metal    D-Plastic    X-Other faucet (SPECIFY OTHER)

Tubing Material  A-Teflon    C-Polyethylene  
 B-Tygon    D-Silicon    X-Other net (SPECIFY OTHER)

Sample Compositd  Y  N Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
 Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st <u>7.21</u> (STD) ph	1st <u>789</u> spec. cond.	um/cm at 25 ° C	_____ (other parameter)	_____ value	_____ units
2nd <u>7.22</u> (STD) ph	2nd <u>779</u> spec. cond.	um/cm at 25 ° C	_____ (other parameter)	_____ value	_____ units
3rd <u>7.22</u> (STD) ph	3rd <u>779</u> spec. cond.	um/cm at 25 ° C	_____ (other parameter)	_____ value	_____ units
4th <u>7.24</u> (STD) ph	4th <u>779</u> spec. cond.	um/cm at 25 ° C	_____ (other parameter)	_____ value	_____ units
<u>11.8</u> Sample Temp (°C)	_____ Turbidity NTU				

FIELD COMMENTS

Sample Appearance: clear no odor

Weather Conditions: sunny, 15 mph wind → north, 60 ° F

Other: well faucet located west side of farm house

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JEFF ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6 Oct 89 (Date) Jeff England (Signature)

926

ORIGINAL



ENVIRONMENTAL TESTING and CERTIFICATION

Seal No. 692-693 ETC Job # CASTLE 1987CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 10-8-89 By: KJS JSE

Company: WME Attn: Clayton Lindsey  
 Facility/Site: Dunn (405) Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_

## SAMPLE IDENTIFICATION

Facility: 4105 | 3a (Optional Sample Point Descriptions)

Sample Point: X-DIVIP | 89110016 | 114417 | LT  
Source Code (from below)    Your Sample Point ID (left justify)    Start Date (YY/MM/DD)    Start Time (2400 hr clock)    Elapsed Hours (composite)

Source Codes: Well (W)    Outfall (O)    Bottom Sediment (B)    Surface Impoundment (I)    Leachate Collection Sys. (C)    Other (X)  
 Soil (S)    River/Stream (R)    Generation Point (G)    Treatment Facility (T)    Lake/Ocean (L)    Specify Duplicate

## SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
1	P	250	Ø	Bicarbonate, Carbonate Sulfate, TDS	N	✓	<u>Just Clear</u> ↓
1	P	250	H <sub>2</sub> SO <sub>4</sub>	NH <sub>3</sub> , TKN	N	✓	↓

## CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) Clayton Lindsey Date: 06 OCT 89 Time: 1115  
 Signature: Clayton Lindsey Seal #: 692-693 Intact: OR

2. I have received these materials in good condition from the above person.  
 Name: JEFF ENGLAND Signature: [Signature]  
 Date: 6 OCT 89 Time: 1300 Remarks: OK

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 OCT 89 Time: 1930  
 Signature: [Signature] Seal #: 00643 Intact: OK

LAB USE ONLY Opened By: Kelly Schick Date: 10-7-89 Time: \_\_\_\_\_  
 SHUTTLE # \_\_\_\_\_ TEMP. °C 4 SEAL # 643 COND. Intact 427



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CASE 1907 JDE

Sample Point XI DIVER  
Source Code Sample Point I.D.

## FIELD PROCEDURES

PURGE DATE (YY MM DD) 89110106 START PURGE (2400 Hr Clock) 11447 ELAPSED HRS 5 WATER VOL. IN CASING (Gallons) \_\_\_\_\_ VOLUME PURGED (Gallons) 160

SAMPLING METHOD: Private well

Sampler Type	<input checked="" type="checkbox"/> A-Submersible Pump <input checked="" type="checkbox"/> B-ISCO <input type="checkbox"/> C-Bladder Pump	<input type="checkbox"/> D-Dipper/Bottle <input type="checkbox"/> E-Bailer <input type="checkbox"/> F-Scoop/Shovel	X-Other <u>private well</u> (SPECIFY OTHER)
Sampler Material	<input checked="" type="checkbox"/> A-Teflon <input type="checkbox"/> B-Metal	<input type="checkbox"/> C-PVC <input type="checkbox"/> D-Plastic	X-Other <u>Faucet</u> (SPECIFY OTHER)
Tubing Material	<input checked="" type="checkbox"/> A-Teflon <input type="checkbox"/> B-Tygon	<input type="checkbox"/> C-Polyethylene <input type="checkbox"/> D-Silicon	X-Other <u>metal</u> (SPECIFY OTHER)
Sample Composited	<input checked="" type="checkbox"/> Y/N		

Procedure/Proportions

## FIELD MEASUREMENTS

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
Groundwater Elevation (ft msl) \_\_\_\_\_

1st <u>721</u> (STD) <u>784</u> <u>un/cm</u> ph spec. cond. at 25° C	(other parameter) _____ value _____ units _____
2nd <u>722</u> (STD) <u>779</u> <u>un/cm</u> ph spec. cond. at 25° C	(other parameter) _____ value _____ units _____
3rd <u>722</u> (STD) <u>779</u> <u>un/cm</u> ph spec. cond. at 25° C	(other parameter) _____ value _____ units _____
4th <u>724</u> (STD) <u>779</u> <u>un/cm</u> ph spec. cond. at 25° C	(other parameter) _____ value _____ units _____
<u>8</u> (°C) <u>      </u> NTU Sample Temp Turbidity	

## FIELD COMMENTS

Sample Appearance: clear No odor  
Weather Conditions: Sunny, 15 mph → wind North, 60° F  
Other: well faucet located west side of farmhouse, purged into 50 gallon storage tank

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

60589 (Date) [Signature] (Signature)

928



# FIELD PARAMETER FORM (CC2)

Form 0002  
 Sample Management  
 08/86

ETC JOB # 9811 - 32 - E  
 Sample Point  D102 \_\_\_\_\_  
Source Code Sample Point I.D.

**FIELD PROCEDURES**

<u>09/10/86</u> <small>PURGE DATE (YY MM DD)</small>	<u>11447</u> <small>START PURGE (2400 Hr Clock)</small>	<u>115</u> <small>ELAPSED HRS</small>	<u>        </u> <small>WATER VOL. IN CASING (Gallons)</small>	<u>160</u> <small>VOLUME PURGED (Gallons)</small>
---	--	--	--	--

SAMPLING METHOD: Private Well

Sampler Type <input checked="" type="checkbox"/> A-X	A-Submersible Pump B-ISCO C-Bladder Pump	D-Dipper/Bottle E-Bailer F-Scoop/Shovel	X-Other <u>Private Well</u> <small>(SPECIFY OTHER)</small>
Sampler Material <input checked="" type="checkbox"/> X	A-Teflon B-Metal	C-PVC D-Plastic	X-Other <u>Faucet</u> <small>(SPECIFY OTHER)</small>
Tubing Material <input checked="" type="checkbox"/> X	A-Teflon B-Tygon	C-Polyethylene D-Silicon	X-Other <u>Metal</u> <small>(SPECIFY OTHER)</small>
Sample Compositd <input checked="" type="checkbox"/> -2N	<small>Procedure/Proportions</small>		

**FIELD MEASUREMENTS**

Well Elevation (ft/msl) <u>        </u>	Well Depth (ft) <u>        </u>
Depth to Ground water (ft) <u>        </u>	Sample Depth (non-well) (ft) <u>        </u>
Groundwater Elevation (ft msl) <u>        </u>	

1st <u>721</u> (STD) ph	1st <u>1784</u> spec. cond.	um/cm at 25°C	<u>        </u> (other parameter)	<u>        </u> value	<u>        </u> units
2nd <u>722</u> (STD) ph	2nd <u>779</u> spec. cond.	um/cm at 25°C	<u>        </u> (other parameter)	<u>        </u> value	<u>        </u> units
3rd <u>722</u> (STD) ph	3rd <u>779</u> spec. cond.	um/cm at 25°C	<u>        </u> (other parameter)	<u>        </u> value	<u>        </u> units
4th <u>724</u> (STD) ph	4th <u>779</u> spec. cond.	um/cm at 25°C	<u>        </u> (other parameter)	<u>        </u> value	<u>        </u> units
<u>        </u> Sample Temp (°C)	<u>        </u> Turbidity	NTU			

**FIELD COMMENTS**

Sample Appearance: Clear No odor

Weather Conditions: Sunny, 15 mph wind north, 60°F

Other: well faucet located west side of farmhouse, purged ~ 50 gallon storage tank

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

0909 (Date) Jeff England (Signature) 929





**CHAIN OF CUSTODY FORM (CC1)**

ORIGINAL Date Sealed 89/09/14 By: KC

Company: PFLA Attn: CLAYTON LINDSEY

Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150

Address: C/O HOLIDAY INN MADISON SMITH EAST  
190// EXIT 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 495 Facility/Site Code Program element 3b (Optional Sample Point Descriptions)

Sample Point: X-1-B-10 Source Code (from below) 89111016 Your Sample Point ID (left justify) Start Date (YY/MM/DD) 111417 Start Time (2400 hr. clock) Elapsed Hours (composite) 1157

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify MS/MSD

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL. (Y/N)	Observations	Observations
2	UDA	40	NONE	VOLATILES	N	✓	✓
1	TB	40	GC/MS	TRIP BLANK		✓	✓
2	EXT	1000	none	EXT/MS	N	✓	✓
2	EXT	1000	none	EXT/PST/PCB	N	✓	✓
1	MET	1000	HNO3	METALS	N	✓	✓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) JEFF ENGLAND Date: 26 Sep 89 Time: 0715  
Signature: [Signature] Seal #: 0162715 Intact: OK

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 Oct 89 Time: 1700  
Signature: [Signature] Seal #: 0162722 Intact: OK

LAB USE ONLY Opened By: Don Crawford Date: 89-10-09 Time: 12:10 930  
SHUTTLE # 1110 TEMP. °C 7 SEAL # 0162722 COND. intact

**FIELD PROCEDURES**

PURGE DATE (YY MM DD) 091106 START PURGE (2400 Hr Clock) 1447 ELAPSED HRS 15 WATER VOL. IN CASING (Gallons) \_\_\_\_\_ VOLUME PURGED (Gallons) 160

SAMPLING METHOD: private well

Sampler Type  A-Submersible Pump  D-Dipper/Bottle  E-Beiler  F-Scoop/Shovel  
 B-ISCO  X-Other private well (SPECIFY OTHER)  
 C-Bladder Pump  
 Sampler Material  A-Teflon  C-PVC  X-Other Faucet (SPECIFY OTHER)  
 B-Metal  D-Plastic  
 Tubing Material  A-Teflon  C-Polyethylene  X-Other metal (SPECIFY OTHER)  
 B-Tygon  D-Silicon  
 Sample Compositd  Y/N Procedure/Proportions \_\_\_\_\_

**FIELD MEASUREMENTS**

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
 Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st <u>721</u> (STD) <u>704</u> um/cm at 25°C	_____	_____	_____
ph	spec. cond.	(other parameter)	value units
2nd <u>722</u> (STD) <u>779</u> um/cm at 25°C	_____	_____	_____
ph	spec. cond.	(other parameter)	value units
3rd <u>722</u> (STD) <u>779</u> um/cm at 25°C	_____	_____	_____
ph	spec. cond.	(other parameter)	value units
4th <u>724</u> (STD) <u>779</u> um/cm at 25°C	_____	_____	_____
ph	spec. cond.	(other parameter)	value units
_____ (°C) _____ NTU	_____	_____	_____
Sample Temp	Turbidity		

**FIELD COMMENTS**

Sample Appearance: clear no odor  
 Weather Conditions: Sunny, 15 mph wind → north, 60°F  
 Other: well faucet located on west side of farmhouse, purged out 50 gallon storage tank

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JOFF ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6007 (Date) [Signature] (Signature)

931



**CHAIN OF CUSTODY FORM (CC1) ORIGINAL**

Date Sealed 89/09/25 By: KC

Company: PELA Attn.: CLAYTON LINDSEY

Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150

Address: C/O HOLIDAY INN MADISON SMITH EAST  
190/EXIT 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: K D 5 Facility/Site Code Program element 3B (Optional Sample Point Descriptions)

Sample Point: XI-031FB Source Code (from below) 09/0106 Your Sample Point ID (left justify) Start Date (YY/MM/DD) 139 Start Time (2400 hr clock) 4 Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify Field Blank

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FHL (Y/N)	Observations	Observations
2	VGB	40	NONE	VOLATILES / <u>W TB 40ml / Label 1382</u>	N	✓	✓
3	EXT	1000	none	EXT/MS/GC	N	✓	✓
1	MET	500	HNO3	METALS	N	✓ <u>NO ACID BOTTLE Attached</u>	✓
1	MET	500	HNO3	CYANIDE	N	✓ <u>H2SO4 Cyanide with warning preserved</u>	✓
1	CONU	125	NONE	CHLOR	N	✓	✓
1	FL	125	NONE	FLUORIDE	N	✓	✓
1	CONS	125	H2SO4	TOC	N	✓	✓
1	CONS	125	H2SO4	NO3/NO2	N	✓	✓
1	CONS	125	H2SO4	PHENOL	N	✓	✓
1	CONU	125	NONE	PHOSPHORUS	N	✓	✓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 09/27/89 Time: 1222  
Signature: Clayton Lindsey Seal #: 0160573 Intact: yes

2. I have received these materials in good condition from the above person.  
Name: JEFF ENGLAND Signature: [Signature]  
Date: 6 Oct 89 Time: 1300 Remarks: ok

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 Oct 89 Time: 1700  
Signature: [Signature] Seal #: 0160512 Intact: ok

LAB USE ONLY Opened By: Ben Campbell Date: 89-10-09 Time: 12:10 432  
SHUTTLE # 295 TEMP. °C 80 SEAL # 0160512 COND. intact

**ENVIRONMENTAL TESTING and CERTIFICATION**  
**FIELD PARAMETER FORM (CC2)**

ETC JOB # CA 1908  
 Sample Point K1 2121B  
Source Code 0 Sample Point I.D.

**FIELD PROCEDURES**

PURGE DATE (YY MM DD) 8/9/01 START Purge Time (2400 Hr Clock) 11:40 ELAPSED HRS 4 WATER VOL. IN CASING (Gallons) \_\_\_\_\_ VOLUME PURGED (Gallons) \_\_\_\_\_

SAMPLING METHOD: Field Blank

Sampler Type N/A A-Submersible Pump D-Dipper/Bottle  
 B-ISCO E-Bailer X-Other \_\_\_\_\_ (SPECIFY OTHER)  
 C-Bladder Pump F-Scoop/Shovel

Sampler Material N/A A-Teflon C-PVC X-Other \_\_\_\_\_ (SPECIFY OTHER)  
 B-Metal D-Plastic

Tubing Material N/A A-Teflon C-Polyethylene X-Other \_\_\_\_\_ (SPECIFY OTHER)  
 B-Tygon D-Silicon

Sample Compositing Y/N

Procedure/Proportions

**FIELD MEASUREMENTS**

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
 Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st _____ (STD) ph	1st _____ spec. cond.	um/cm at 25°C	_____ (other parameter)	_____ value	_____ units
2nd _____ (STD) ph	2nd _____ spec. cond.	um/cm at 25°C	_____ (other parameter)	_____ value	_____ units
3rd _____ (STD) ph	3rd _____ spec. cond.	um/cm at 25°C	_____ (other parameter)	_____ value	_____ units
4th _____ (STD) ph	4th _____ spec. cond.	um/cm at 25°C	_____ (other parameter)	_____ value	_____ units
_____ (°C) Sample Temp	_____ NTU Turbidity				

**FIELD COMMENTS**

Sample Appearance: \_\_\_\_\_  
 Weather Conditions: Sunny, 15 mph Northerly wind, 66°F  
 Other: 40 transferred by Farm house where private well was being sampled

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND (P-ml) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6/22/01 (Date) [Signature] (Signature)

933



CHAIN OF CUSTODY FORM (CC1)

ORIGINAL

Date Sealed 89/09/14

By: KC

Company: PELA

Attn: CLAYTON LINDSEY

Facility/Site: CITY DISPOSAL

Phone: (414) 631 - 3150

C/O HOLIDAY INN MADISON SMITH EAST

Address: 190// EXIT 12 AND 18 EAST, MADISON, WI 53704

SAMPLE IDENTIFICATION

Facility: 4 0 5 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: XI-03 FIB Source Code (from below) B91006 Your Sample Point ID (left justify) Start Date (YY/MM/DD) 11449 Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X) Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

SHUTTLE CONTENTS

Table with columns: BOTTLE (No, Type, Size, Preserv.), ANALYSIS, SAMPLER (FILL (Y/N), Observations), LAB (Observations). Row 2: UOA, 40, NONE, VOLATILES, N, [checkmarks], [checkmarks]. Row 3: FB, 40, GC/MS, FIELD BLK H2O, [checkmarks], [checkmarks].

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 09/26/89 Time: 2157 Signature: Clayton Lindsey Seal #: 0162721 Intact: OK
2. I have received these materials in good condition from the above person. Name: JEFF ENGLAND Signature: [Signature] Date: 6 OCT 89 Time: 1300 Remarks: [Signature]
3. I have received these materials in good condition from the above person. Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_
4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 6 OCT 89 Time: 1700 Signature: [Signature] Seal #: 0160540 Intact: OK
LAB USE ONLY Opened By: [Signature] Date: 10-9-89 Time: 11:35:30 SHUTTLE # 300 TEMP. °C \_\_\_\_\_ SEAL # 0160540 COND. Intact



ENVIRONMENTAL TESTING and CERTIFICATION

**FIELD PARAMETER FORM (CC2)**

ETC JOB # CA1908

Sample Point LX103FB  
Source Code                      Sample Point I.D.

**FIELD PROCEDURES**

PURGE DATE (YY MM DD) 8/9/10      START PURGE (2400 Hr Clock) 1447      ELAPSED HRS             WATER VOL. IN CASING (Gallons)             VOLUME PURGED (Gallons)       

SAMPLING METHOD: Field Blank

Sampler Type  A-Submersible Pump      D-Dipper/Bottle      X-Other \_\_\_\_\_  
 B-ISCO                      E-Bailer                      (SPECIFY OTHER)  
 C-Bladder Pump              F-Scoop/Shovel

Sampler Material  A-Teflon                      C-PVC                      X-Other \_\_\_\_\_  
 B-Metal                      D-Plastic                      (SPECIFY OTHER)

Tubing Material  A-Teflon                      C-Polyethylene              X-Other \_\_\_\_\_  
 B-Tygon                      D-Silicon                      (SPECIFY OTHER)

Sample Compositd  Y/N

Procedure/Proportions

**FIELD MEASUREMENTS**

Well Elevation (ft/msl)             Well Depth (ft)         
 Depth to Ground water (ft)             Sample Depth (non-well) (ft)         
 Groundwater Elevation (ft msl)       

1st <u>      </u> (STD) <u>      </u> um/cm at 25°C	<u>      </u> value      units
ph                      spec. cond.	(other parameter)
2nd <u>      </u> (STD) <u>      </u> um/cm at 25°C	<u>      </u> value      units
ph                      spec. cond.	(other parameter)
3rd <u>      </u> (STD) <u>      </u> um/cm at 25°C	<u>      </u> value      units
ph                      spec. cond.	(other parameter)
4th <u>      </u> (STD) <u>      </u> um/cm at 25°C	<u>      </u> value      units
ph                      spec. cond.	(other parameter)
<u>      </u> (°C) <u>      </u> NTU	
Sample Temp      Turbidity	

**FIELD COMMENTS**

Sample Appearance: \_\_\_\_\_  
 Weather Conditions:  Sunny, 15 mph + North, 60°F  
 Other:  H<sub>2</sub>O transferred by farm house having well sampled

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND      Employer: PELA  
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6/28/10 \_\_\_\_\_  
(Date)                      (Signature)

935

ORIGINAL



**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL Date Sealed 10-2-89 By: \_\_\_\_\_

Company: U-UNT Attn.: Clayton Lindsey  
 Facility/Site: Town of Dunn (405) Phone: (608) 835-3733  
 Address: \_\_\_\_\_

**SAMPLE IDENTIFICATION**

Facility: 41015 3b Program element 33  
Facility/Site Code (Optional: Sample Point Descriptions)

Sample Point: X-03FB 091006 1400 4  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify Field Blank

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILT. (Y/N)	Observations	Observations
1	P	250	∅	Bicarbonate, Carbonate, Sulfate, TDS	N	✓	full, clear
1	P	250	H <sub>2</sub> SO <sub>4</sub>	TKN, NH <sub>3</sub>	N	✓	↓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 10-03-89 Time: 10:50  
 Signature: Clayton Lindsey Seal #: 674-675 Intact: ck

2. I have received these materials in good condition from the above person.  
 Name: JEFF ENGLAND Signature: Jeff England  
 Date: 60089 Time: 1200 Remarks: ck

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 600T89 Time: 1930  
 Signature: Jeff England Seal #: 00643 Intact: ck

LAB USE ONLY Opened By: Kelly Schick Date: 10-7-89 Time: 956  
 SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 643 COND. Intact



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA1908  
Sample Point XI 031F9  
Source Code Sample Point I.D.

## FIELD PROCEDURES

PURGE DATE (YY MM DD) 8/9/06 START PURGE TIME (2400 Hr Clock) 114010 ELAPSED HRS 4 WATER VOL. IN CASING (Gallons) \_\_\_\_\_ VOLUME PURGED (Gallons) \_\_\_\_\_

SAMPLING METHOD: Field Blank

Sampler Type  A-Submersible Pump D-Dipper/Bottle  
 B-ISCO E-Bailer X-Other \_\_\_\_\_ (SPECIFY OTHER)  
 C-Bladder Pump F-Scoop/Shovel

Sampler Material  A-Teflon C-PVC X-Other \_\_\_\_\_ (SPECIFY OTHER)  
 B-Metal D-Plastic

Tubing Material  A-Teflon C-Polyethylene X-Other \_\_\_\_\_ (SPECIFY OTHER)  
 B-Tygon D-Silicon

Sample Compositd  Y/N \_\_\_\_\_  
Procedure/Proportions

## FIELD MEASUREMENTS

Well Elevation (ft/msl) \_\_\_\_\_ Well Depth (ft) \_\_\_\_\_  
Depth to Ground water (ft) \_\_\_\_\_ Sample Depth (non-well) (ft) \_\_\_\_\_  
Groundwater Elevation (ft msl) \_\_\_\_\_

1st _____ (STD) 1st _____ um/cm at 25 °C _____ <small>ph spec. cond. (other parameter) value units</small>	2nd _____ (STD) 2nd _____ um/cm at 25 °C _____ <small>ph spec. cond. (other parameter) value units</small>
3rd _____ (STD) 3rd _____ um/cm at 25 °C _____ <small>ph spec. cond. (other parameter) value units</small>	4th _____ (STD) 4th _____ um/cm at 25 °C _____ <small>ph spec. cond. (other parameter) value units</small>
_____ (°C) _____ NTU <small>Sample Temp Turbidity</small>	

## FIELD COMMENTS

Sample Appearance: \_\_\_\_\_  
Weather Conditions: sunny, 15mph → North, 60°F  
Other: H<sub>2</sub>O transferred by farm house where private well was being sampled

## FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JEFF ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6 OCT 09 (Date) Jeff England (Signature)

437





# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
06/88

ETC JOB # 2A1702

Sample Point  0131FB

Source Code Sample Point I.D.

## FIELD PROCEDURES

319110106

PURGE DATE  
(YY MM DD)

1141010

START TIME  
(2400 Hr Clock)

119

ELAPSED HRS

WATER VOL. IN CASING  
(Gallons)

VOLUME PURGED  
(Gallons)

SAMPLING METHOD: Field Blank

Sampler Type

A-Submersible Pump  
B-ISCO  
C-Bladder Pump

D-Dipper/Bottle  
E-Bailer  
F-Scoop/Shovel

X-Other

(SPECIFY OTHER)

Sampler Material

A-Teflon  
B-Metal

C-PVC  
D-Plastic

X-Other

(SPECIFY OTHER)

Tubing Material

A-Teflon  
B-Tygon

C-Polyethylene  
D-Silicon

X-Other

(SPECIFY OTHER)

Sample Compositied

Y/N

Procedure/Proportions

## FIELD MEASUREMENTS

Well Elevation (ft/msl)

--	--	--	--	--	--

Well Depth (ft)

--	--	--	--	--	--

Depth to Ground water (ft)

--	--	--	--	--	--

Sample Depth (non-well) (ft)

--	--	--	--	--	--

Groundwater Elevation (ft msl)

--	--	--	--	--	--

1st

--	--	--	--	--	--

(STD)

ph

1st

--	--	--	--	--	--

spec. cond.

um/cm  
at 25 °C

(other parameter)

value

units

2nd

--	--	--	--	--	--

(STD)

ph

2nd

--	--	--	--	--	--

spec. cond.

um/cm  
at 25 °C

(other parameter)

value

units

3rd

--	--	--	--	--	--

(STD)

ph

3rd

--	--	--	--	--	--

spec. cond.

um/cm  
at 25 °C

(other parameter)

value

units

4th

--	--	--	--	--	--

(STD)

ph

4th

--	--	--	--	--	--

spec. cond.

um/cm  
at 25 °C

(other parameter)

value

units

           (°C)

Sample Temp

           NTU

Turbidity

## FIELD COMMENTS

Sample Appearance:           

Weather Conditions: sunny, 15 mph → North, 60 °F

Other: H<sub>2</sub>O transferred by farm house where private well was being sampled

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF EMMA-D

(Print)

Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

            
(Date) Signature

938



CHAIN OF CUSTODY FORM (CC1)

ORIGINAL

Date Sealed 89/09/14

By: KC

Company: PELA Attn: CLAYTON LINDSEY  
 Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150  
C/O HOLIDAY INN MADISON SMITH EAST  
 Address: 190// EXIT 12 AND 18 EAST, MADISON, WI 53704

SAMPLE IDENTIFICATION

Facility: 405 Program Element 3b  
Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: K1-03TB 89110106 N/A 1  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify TRIP BLANK

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL (Y/N)	Observations	Observations
2	UTB	40	GC/MS	VOLATILES	N	✓	Bubbles in UTB ✓

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 09/26/89 Time: 2151  
 Signature: Clayton Lindsey Seal #: 0162721 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: JOFF ENGELAND Signature: [Signature]  
 Date: 6 OCT 89 Time: 1300 Remarks: OK

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JOFF ENGELAND Date: 6 OCT 89 Time: 1700  
 Signature: [Signature] Seal #: 0160540 Intact: OK

LAB USE ONLY Opened By: [Signature] Date: 10-9-89 Time: 11:35  
 SHUTTLE # 300 TEMP. °C 10 SEAL # 0160540 COND. intact



ENVIRONMENTAL TESTING and CERTIFICATION

**FIELD PARAMETER FORM (CC2)**

ETC JOB # CA1910

Sample Point LX 103TB  
Source Code Sample Point I.D.

**FIELD PROCEDURES**

8911006  
PURGE DATE (YY MM DD)

START PURGE (2400 Hr Clock)

ELAPSED HRS

WATER VOL. IN CASING (Gallons)

VOLUME PURGED (Gallons)

**SAMPLING METHOD:**

Sampler Type  A-Submersible Pump  D-Dipper/Bottle  E-Bailer  X-Other \_\_\_\_\_  
 B-ISCO  F-Scoop/Shovel (SPECIFY OTHER)

Sampler Material  A-Teflon  C-PVC  X-Other \_\_\_\_\_  
 B-Metal  D-Plastic (SPECIFY OTHER)

Tubing Material  A-Teflon  C-Polyethylene  X-Other \_\_\_\_\_  
 B-Tygon  D-Silicon (SPECIFY OTHER)

Sample Compositd  Y/N \_\_\_\_\_  
Procedure/Proportions

**FIELD MEASUREMENTS**

Well Elevation (ft/msl) \_\_\_\_\_  
Depth to Ground water (ft) \_\_\_\_\_  
Groundwater Elevation (ft msl) \_\_\_\_\_

Well Depth (ft) \_\_\_\_\_  
Sample Depth (non-well) (ft) \_\_\_\_\_

1st \_\_\_\_\_ (STD) 1st \_\_\_\_\_ um/cm at 25 ° C \_\_\_\_\_  
ph spec. cond. (other parameter) value units  
2nd \_\_\_\_\_ (STD) 2nd \_\_\_\_\_ um/cm at 25 ° C \_\_\_\_\_  
ph spec. cond. (other parameter) value units  
3rd \_\_\_\_\_ (STD) 3rd \_\_\_\_\_ um/cm at 25 ° C \_\_\_\_\_  
ph spec. cond. (other parameter) value units  
4th \_\_\_\_\_ (STD) 4th \_\_\_\_\_ um/cm at 25 ° C \_\_\_\_\_  
ph spec. cond. (other parameter) value units  
Sample Temp \_\_\_\_\_ (°C) Turbidity \_\_\_\_\_ NTU

**FIELD COMMENTS**

Sample Appearance: \_\_\_\_\_  
Weather Conditions: Sunny, 15 mph N, 60°F  
Other: TRIP BLANK

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

6/27/89 (Date) Jeff England (Signature)



**CHAIN OF CUSTODY FORM (CC1)**

ORIGINAL Date Sealed 89/10/04 By: RW

Company: PELA Attn.: CLAYTON LINDSEY

Facility/Site: CITY BUSINESS Phone: (414) 631 - 3150

Address: 19077 EXITS 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 4 0 5 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W 1 6 W P S A 09 10 04 0830 18  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

**SHUTTLE CONTENTS**

No	BOTTLE			ANALYSIS	SAMPLER		LAB
	Type	Size	Preserv.		FILE (Y/N)	Observations	Observations
2	VOA	4U	NONE	VOLATILES	✓	N	
1	TB	40	GC/MS	TRIP BLANK	✓	-	
3	EXT	1000	none	EXT/MS/GC	✓	N	
1	MET	500	HNO3	METALS	✓	Y	✓
1	CONU	50U	NONE	CYANIDE	✓	N	✓
1	CUNU	125	NONE	CHLOR	✓	N	✓
1	FL	125	NONE	FLUORIDE	✓	N	✓
1	CUNS	125	H2SO4	TDC	✓	N	✓
1	CONS	125	H2SO4	NO2/NO3	✓	N	✓
1	CONS	125	H2SO4		✓	N	✓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) JEFF ENGLAND Date: 5 Oct 89 Time: 1301  
Signature: [Signature] Seal #: 0160833 Intact: OK

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 10 Oct 89 Time: \_\_\_\_\_  
Signature: [Signature] Seal #: 0160834 Intact: OK

LAB USE ONLY Opened By: [Signature] Date: 89-10-11 Time: 9:25  
SHUTTLE # 448 TEMP. °C 40 SEAL # 0160834 COND. Intact 441



**CHAIN OF CUSTODY FORM (CC1)**

ORIGINAL Date Sealed 89/10/04 By: RW

Company: PEEA Attn.: CLAYTON LINDSEY

Facility/Site: CITY OF MADISON Phone: (414) 631 - 3150

Address: C/O HOLIDAY INN MADISON SMITH EAST  
190// EXCY 32 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 41015 Facility/Site Code

Sample Point: W-16WPSA 891010 0830 18  
Source Code Your Sample Point ID Start Date Start Time Elapsed Hours  
(from below) (left justify) (YY/MM/DD) (2400 hr. clock) (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Fill (Y/N)	Observations	Observations
1	CONU	125	NONE	PH/SCOND ✓	N		

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: John Y. Rudd Date: 05 Oct 89 Time: 13:01  
Signature: [Signature] Seal #: 0160833 Intact: ✓

2. I have received these materials in good condition from the above person.  
Name: JEFF ENGLAND Signature: [Signature]  
Date: 5 Oct 89 Time: 1301 Remarks: [Signature]

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 10 Oct 89 Time: 1700  
Signature: [Signature] Seal #: 0160834 Intact: ✓

LAB USE ONLY Opened By: [Signature] Date: 89-10-11 Time: 9:25  
SHUTTLE # 448 TEMP. °C [Signature] SEAL # 0160834 COND. intact



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA 2144  
Sample Point W 11GWPISA  
Source Code Sample Point I.D.

**FIELD PROCEDURES**

PURGE DATE (YY MM DD) 09 10 10    START PURGE (2400 Hr Clock) 00 30    ELAPSED HRS 0 2    WATER VOL. IN CASING (Gallons) 1 1 5 4    VOLUME PURGED (Gallons) 0 8

**SAMPLING METHOD:**

Sampler Type X/C    A-Submersible Pump    D-Dipper/Bottle    X-Other wellhead  
    B-ISCO    E-Bailer    (SPECIFY OTHER)  
    C-Bladder Pump    F-Scoop/Shovel

Sampler Material A/C    A-Teflon    C-PVC    X-Other \_\_\_\_\_  
    B-Metal    D-Plastic    (SPECIFY OTHER)

Tubing Material A/C    A-Teflon    C-Polyethylene    X-Other \_\_\_\_\_  
    B-Tygon    D-Silicon    (SPECIFY OTHER)

Sample Composed 3IN    Procedure/Proportions \_\_\_\_\_

**FIELD MEASUREMENTS**

Well Elevation (ft/msl) 947.13    Well Depth (ft) 349.5  
 Depth to Ground water (ft) 255.0    Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) 721.63

1st <u>6.97</u> (STD)    ph	1st <u>114.8</u> spec. cond.	um/cm at 25°C	_____	_____	_____
2nd <u>6.98</u> (STD)    ph	2nd <u>114.1</u> spec. cond.	um/cm at 25°C	_____	_____	_____
3rd <u>7.00</u> (STD)    ph	3rd <u>114.6</u> spec. cond.	um/cm at 25°C	_____	_____	_____
4th <u>7.01</u> (STD)    ph	4th <u>114.9</u> spec. cond.	um/cm at 25°C	_____	_____	_____
<u>11.7</u> (°C)    Sample Temp	_____    Turbidity	NTU	_____	_____	_____

**FIELD COMMENTS**

Sample Appearance: Strong odor

Weather Conditions: East to West, 45°F

Other: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

34.95 - 25.50 = 9.45 x 1.63 gal/ft = 1.54<sup>0</sup> casing x 4 = 6.16 gallons = 4 casing

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND    Employer: PELA  
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

10 OCT 89    [Signature]    943  
(Date)    (Signature)

**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL Date Sealed 10-5-89 By: KTS

Company: WMI Attn.: Clayton Lindsey  
 Facility/Site: Duan (405) Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_

**SAMPLE IDENTIFICATION**

Facility: 41015 30  
Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-1 GWP 5A 89 10 10 0830 8  
Source Code (from below) Your Sample Point ID (fill justly) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Fit. (Y/N)	Observations	Observations
1	P	250	Ø	Bicarbonate, Carbonate, Sulfate, TDS	N	✓	full, clean
1	P	250	HASO4	NH3, TKN	N	✓	↓

**CHAIN OF CUSTODY CHRONICLE**

1 Shuttle Opened By: (print) Clayton Lindsey Date: 06 OCT 89 Time: 1115  
 Signature: Clayton Lindsey Seal #: 692-693 Intact: OK  
 I have received these materials in good condition from the above person.  
 2 Name: JEFF ENGLAND Signature: [Signature]  
 Date: 10 OCT 89 Time: 0805 Remarks: OK  
 I have received these materials in good condition from the above person.  
 3 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_  
 4 Shuttle Sealed By: (print) JEFF ENGLAND Date: 10 OCT 89 Time: 1900  
 Signature: [Signature] Seal #: 692-693 Intact: OK

LAB USE ONLY Opened By: Kelly Schell Date: 10-11-89 Time: 13:00 444  
 SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 692 COND. Intact



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA2144  
Sample Point W 11 GWPISA  
Source Code Sample Point I.D.

### FIELD PROCEDURES

891101  
PURGE DATE  
(YY MM DD)

08:30  
START PURGE  
(2400 Hr Clock)

18  
ELAPSED HRS

1154  
WATER VOL. IN CASING  
(Gallons)

8  
VOLUME PURGED  
(Gallons)

### SAMPLING METHOD:

Sampler Type XC A-Submersible Pump D-Dipper/Bottle  
 B-ISCO E-Bailer  
 C-Bladder Pump F-Scoop/Shovel X-Other well wizard  
 (SPECIFY OTHER)

Sampler Material MC A-Teflon C-PVC  
 B-Metal D-Plastic X-Other \_\_\_\_\_  
 (SPECIFY OTHER)

Tubing Material MC A-Teflon C-Polyethylene  
 B-Tygon D-Silicon X-Other \_\_\_\_\_  
 (SPECIFY OTHER)

Sample Composited YN

Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl) 1947.13 Well Depth (ft) 349.5  
 Depth to Ground water (ft) 25.5 Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) 1921.63

1st <u>6.97</u> (STD) ph	1st <u>11408</u> spec. cond.	um/cm at 25°C			
2nd <u>6.98</u> (STD) ph	2nd <u>11411</u> spec. cond.	um/cm at 25°C			
3rd <u>7.0</u> (STD) ph	3rd <u>11406</u> spec. cond.	um/cm at 25°C			
4th <u>7.0</u> (STD) ph	4th <u>11404</u> spec. cond.	um/cm at 25°C			
<u>11.07</u> (°C) Sample Temp	Turbidity	NTU			

### FIELD COMMENTS

Sample Appearance: clear strong unidentifiable odor  
 Weather Conditions: overcast, simple overcast, 45°F  
 Other: \_\_\_\_\_

$$34.95 - 25.5 = 9.45 \times 1.63 \text{ gal/ft} = 1.54 \text{ cm} \times 4 = 6.16 \text{ gallons} = 4 \text{ cans}$$

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND Employer: PERA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

90081 (Date) [Signature] (Signature)





**CHAIN OF CUSTODY FORM (CC1)**

Company: PELA Attn.: CLAYTON LINDSEY

Facility/Site: CITY OF MADISON Phone: (414) 631 - 3150

Address: 19077 EXHIBIT 52 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 405 (Facility/Site Code) (Optional Sample Point Descriptions)

Sample Point: W1GWP18A 8911010 112312 1410  
Source Code Your Sample Point ID Start Date Start Time Elapsed Hours  
(from below) (left justify) (YY/MM/DD) (2400 hr. clock) (composite)

Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

No	BOTTLE			ANALYSIS	SAMPLER		LAB
	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
2	UDA	40	NONE	VOLATILES	N	✓	
1	TB	40	GC/MS	TRIP BLANK	N	1 bubble ✓ Mem dia	
3	EXT	1000	none	EXT/MS/GC	N	✓	
1	MET	500	HNO3	METALS	Y	✓	✓
1	CONU	500	NaOH NONE	WCL OF CYANIDE	N	✓	✓
1	CONU	125	NONE	CHLOR	N	✓	✓
1	FL	125	NONE	FLUORIDE	N	✓	✓
1	CUNS	125	H2SO4	TOC	N	✓	✓
1	CONS	125	H2SO4	NO2/NO3	N	✓	✓
1	CUNS	125	H2SO4		N	✓	✓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: Clayton Lindsey Date: 07 Oct 89 Time: 1431  
 Signature: [Signature] Seal #: 0160783 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) Clayton Lindsey Date: 10 Oct 89 Time: 170046  
 Signature: [Signature] Seal #: 0160784 Intact: OK

LAB USE ONLY Opened By: [Signature] Date: 10-11-89 Time: 9:35  
 SHUTTLE # 53 TEMP. °C 80 SEAL # 0160784 COND. Intact



# CHAIN OF CUSTODY FORM (CC1)

ORIGINAL

Date Sealed 89/10/04 By: RU

Company: PEERLESS Attn.: CLAYTON LINDSEY

Facility/Site: CITY OF MADISON Phone: (414) 631 - 3150

Address: C/O HOLLYWOOD INN MADISON SMITH EAST  
1907 1/2 EAST 12 AND 18 EAST, MADISON, WI 53704

## SAMPLE IDENTIFICATION

Facility: 405 (Optional Sample Point Descriptions)

Sample Point: W-1614P2A 89/10/04 12:32 4:0  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

## SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Filt. (Y/N)	Observations	Observations
1	CONU	12 1/2	NONE	PH/SCOND	N	✓	

## CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: Clayton Lindsey Date: 07 Oct 89 Time: 1431  
Signature: Clayton Lindsey Seal #: 0160783 Intact: OK

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) Clayton Lindsey Date: 10 Oct 89 Time: 1700  
Signature: Clayton Lindsey Seal #: 0160784 Intact: OK

LAB USE ONLY Opened By: Ken Crawford Date: 89-10-11 Time: 9:35  
SHUTTLE # 53 TEMP. °C 30 SEAL # 0160784 COND. Intact



# FIELD PARAMETER FORM (CC2)

Form CC2  
Sample Management  
06/88

ETC JOB # CA2145  
 Sample Point W1G1WPIA  
Source Code                      Sample Point I.D.

### FIELD PROCEDURES

PURGE DATE (YY MM DD) 89 11 01      START PURGE (2400 Hr Clock) 1123Z      ELAPSED HRS 4      WATER VOL. IN CASING (Gallons) 164      VOLUME PURGED (Gallons) 127

SAMPLING METHOD: \_\_\_\_\_

Sampler Type  A-Submersible Pump    D-Dipper/Bottle  
 B-ISCO                      E-Bailer  
 C-Bladder Pump        F-Scoop/Shovel      X-Other well wizard (SPECIFY OTHER)

Sampler Material  A-Teflon                      C-PVC  
 B-Metal                      D-Plastic                  X-Other \_\_\_\_\_ (SPECIFY OTHER)

Tubing Material  A-Teflon                      C-Polyethylene  
 B-Tygon                      D-Silicon                  X-Other \_\_\_\_\_ (SPECIFY OTHER)

Sample Compositing  SN \_\_\_\_\_  
Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl) 959.82      Well Depth (ft) 41.07  
 Depth to Ground water (ft) 37.15      Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) 922.67

1st <u>6.50</u> (STD)      1st <u>11026</u> <small>um/cm at 25°C</small>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<small>ph</small>	<small>spec. cond.</small>	<small>(other parameter)</small>	<small>value</small> <small>units</small>
2nd <u>6.49</u> (STD)      2nd <u>11026</u> <small>um/cm at 25°C</small>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<small>ph</small>	<small>spec. cond.</small>	<small>(other parameter)</small>	<small>value</small> <small>units</small>
3rd <u>6.51</u> (STD)      3rd <u>11030</u> <small>um/cm at 25°C</small>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<small>ph</small>	<small>spec. cond.</small>	<small>(other parameter)</small>	<small>value</small> <small>units</small>
4th <u>6.50</u> (STD)      4th <u>11027</u> <small>um/cm at 25°C</small>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<small>ph</small>	<small>spec. cond.</small>	<small>(other parameter)</small>	<small>value</small> <small>units</small>
<u>11091</u> <small>(°C)</small>	<input type="text"/> <small>NTU</small>		
<small>Sample Temp</small>	<small>Turbidity</small>		

### FIELD COMMENTS

Sample Appearance: clear color

Weather Conditions: Strong light variable winds 60°F

Other: well located in middle west edge of old cornfield

\_\_\_\_\_

\_\_\_\_\_

41.07 - 37.15 = 3.92 x .163 gal/PT = .64 CASING x 9 = 2.56 gallons = 4 CASINGS

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND      Employer: PELA  
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

11/01/89 [Signature]      948  
(Date)                      (Signature)



CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 10-5-89 By: KTS

Company: WMT Attn: Clayton Lindsey  
Facility/Site: Duan (405) Phone: \_\_\_\_\_  
Address: \_\_\_\_\_

SAMPLE IDENTIFICATION

Facility: 4015 30  
Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-116WPBA B9 0 0 1232 40  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Filt. (Y/N)	Observations	Observations
1	P	250	Ø	Bicarbonate, Carbonate, Sulfate, TDS	N	-	fully clear
1	P	250	H2SO4	NH3, TKN	N	✓	↓

CHAIN OF CUSTODY CHRONICLE

- Shuttle Opened By: (print) Clayton Lindsey Date: 06 OCT 89 Time: 1115  
Signature: Clayton Lindsey Seal #: 1092-693 Intact: OK
- I have received these materials in good condition from the above person.  
Name: JEFF ENGLAND Signature: [Signature]  
Date: 10 OCT 89 Time: 1200 Remarks: OK
- I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_
- Shuttle Sealed By: (print) JEFF ENGLAND Date: 10 OCT 89 Time: 1900  
Signature: [Signature] Seal #: ØØ7Ø6 Intact: OK

LAB USE ONLY Opened By: Kelly Schell Date: 10-11-89 Time: 13:00 949  
SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 706 COND. Intact



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA2145  
Sample Point W11GWP181A  
Source Code                      Sample Point ID

### FIELD PROCEDURES

89110110  
PURGE DATE  
(YY MM DD)

112312  
START PURGE  
(2400 Hr. Clock)

1940  
ELAPSED HRS

11164  
WATER VOL IN CASING  
(Gallons)

1127  
VOLUME PURGED  
(Gallons)

#### SAMPLING METHOD:

Sampler Type  A-Submersible Pump    D-Dipper/Bottle  
 B-ISCO                      E-Bailer  
 C-Bladder Pump            F-Scoop/Shovel            X-Other well WZAD  
(SPECIFY OTHER)

Sampler Material  A-Teflon                      C-PVC  
 B-Metal                      D-Plastic                      X-Other \_\_\_\_\_  
(SPECIFY OTHER)

Tubing Material  A-Teflon                      C-Polyethylene  
 B-Tygon                      D-Silicon                      X-Other \_\_\_\_\_  
(SPECIFY OTHER)

Sample Composited  N

Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl) 959.82                      Well Depth (ft) 41.07  
 Depth to Ground water (ft) 37.15                      Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) 922.67

1st <u>6.50</u> (STD)    1st <u>11026</u> <small>um/cm at 25°C</small>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<small>ph</small>	<small>spec. cond.</small>	<small>(other parameter)</small>	<small>value</small>
2nd <u>6.49</u> (STD)    2nd <u>11026</u> <small>um/cm at 25°C</small>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<small>ph</small>	<small>spec. cond.</small>	<small>(other parameter)</small>	<small>value</small>
3rd <u>6.51</u> (STD)    3rd <u>11030</u> <small>um/cm at 25°C</small>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<small>ph</small>	<small>spec. cond.</small>	<small>(other parameter)</small>	<small>value</small>
4th <u>6.50</u> (STD)    4th <u>11027</u> <small>um/cm at 25°C</small>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<small>ph</small>	<small>spec. cond.</small>	<small>(other parameter)</small>	<small>value</small>
<u>11069</u> (°C)                      _____ NTU	<small>Sample Temp</small>	<small>Turbidity</small>	

### FIELD COMMENTS

Sample Appearance: clear no odor  
 Weather Conditions: sunny, light winds, 60°F  
 Other: well located in tree line west & Dec of old corn field

$41.07 - 37.15 = 3.92 \times 1.63 \text{ gal/ft} = .64 \text{ gals} \times 4 = 2.56 \text{ gallons} = 4 \text{ CASINGS}$

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND                      Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

89110109                      [Signature]  
Date                                      Signature

950



CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 89/10/04 By: RW

Company: PELR Attn.: CLAYTON LINDSEY  
Facility/Site: CITY DISTRICT Phone: (414) 631 - 3150  
C/O HOLLY ANN MADISON SMITH EAST  
Address: 19077 EXH 18 AND 18 EAST, MADISON, WI 53704

SAMPLE IDENTIFICATION

Facility: 405 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-116-10A 89110110 11405 1111  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. Clock) Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Filt. (Y/N)	Observations	Observations
2	UOA	40	NONE	VOLATILES	N	✓	✓
1	TB	40	GC/MS	TRIP BLANK		✓	✓
3	EXT	1000	none	EXT/MS/GC	N	✓	✓
1	MET	500	HNO3	METALS	N	✓	✓
1	CONU	500	<del>NONE</del>	<del>CYANIDE</del>	N	✓	✓
1	CONU	125	NONE	CHLOR	N	✓	✓
1	FL	125	NONE	FLUORIDE	N	✓	✓
1	CUNS	125	H2SO4	TOC	N	✓	✓
1	CUNS	125	H2SO4	NO2/NO3	N	✓	✓
1	CUNS	125	H2SO4	<del>PHENOL</del>	N	✓	✓

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: Clayton Lindsey Date: 07 Oct 89 Time: 1456  
Signature: [Signature] Seal #: 0160797 Intact: OK

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) Clayton Lindsey Date: 10 Oct 89 Time: 1530  
Signature: [Signature] Seal #: 0160798 Intact: OK

LAB USE ONLY Opened By: Ken Campbell Date: 89-10-11 Time: 9:43 451  
SHUTTLE # 756 TEMP. °C 36 SEAL # 0160798 COND. Intact



ENVIRONMENTAL TESTING and CERTIFICATION

Seal No. 0160797 ETC Job # CA2146

# CHAIN OF CUSTODY FORM (CC1)

ORIGINAL Date Sealed 8/10/04 By: RW

Company: PEL Attn.: CLAYTON LINDSEY  
 Facility/Site: CITY OF MADISON Phone: (414) 631 - 3150  
C/O HOLLYWOOD INN MADISON SMITH EAST  
 Address: 19077 EXT 12 AND 18 EAST, MADISON, WI 53704

## SAMPLE IDENTIFICATION

Facility: 4105 (Facility/Site Code) (Optional Sample Point Descriptions)  
 Sample Point: W-1-G-WP-11-01A 09110110 1405 11  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)  
 Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

## SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL (Y/N)	Observations	Observations
1	CUNU	125	NONE	PH/SCOND	N	✓	

## CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By (print): Clayton Lindsey Date: 07 OCT 04 Time: 1456  
 Signature: [Signature] Seal #: 0160797 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) Clayton Lindsey Date: 10 OCT 04 Time: 1530  
 Signature: [Signature] Seal #: 0160798 Intact: OK

LAB USE ONLY Opened By: [Signature] Date: 09-10-11 Time: 9:45:32  
 SHUTTLE # 756 TEMP. °C 20 SEAL # 0160798 COND. intact







**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL Date Sealed 10-5-89 By: KTS

Company: WMT Attn.: Clayton Lindsey  
 Facility/Site: Duan (405) Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_

**SAMPLE IDENTIFICATION**

Facility: 405 3d  
Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-116WIP101A 891010 1405 1111  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:

Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Fill (Y/N)	Observations	Observations
1	P	250	∅	Bicarbonate, Carbonate, Sulfate, TDS	N	✓	just clear
1	P	250	H2SO4	NH3, TKN	N	✓	↓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) Clayton Lindsey Date: 06 Oct 89 Time: 1115  
 Signature: Clayton Lindsey Seal #: 692-693 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: JEFF ENGLAND Signature: [Signature]  
 Date: 10 Oct 89 Time: 1300 Remarks: OK

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 10 Oct 89 Time: 1900  
 Signature: [Signature] Seal #: 00706 Intact: OK

LAB USE ONLY Opened By: Kelly Schell Date: 10-11-89 Time: 13:00  
 SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 706 COND. Intact 454



ETC

### FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA2146

Sample Point W11GWP10A  
Source Code Sample Point ID

#### FIELD PROCEDURES

891010  
PURGE DATE  
(YY MM DD)

114015  
START PURGE  
(2400 Hr Clock)

1121  
ELAPSED HRS

11149  
WATER VOL. IN CASING  
(Gallons)

185  
VOLUME PURGED  
(Gallons)

#### SAMPLING METHOD:

SAMPLING METHOD:

Sampler Type X/C A-Submersible Pump D-Dipper/Bottle  
B-ISCO E-Bailer  
C-Bladder Pump F-Scoop/Shovel X-Other well wizard  
(SPECIFY OTHER)

Sampler Material A/C A-Teflon C-PVC  
B-Metal D-Plastic X-Other \_\_\_\_\_  
(SPECIFY OTHER)

Tubing Material A/C A-Teflon C-Polyethylene  
B-Tygon D-Silicon X-Other \_\_\_\_\_  
(SPECIFY OTHER)

Sample Composited YN

Procedure/Proportions

#### FIELD MEASUREMENTS

Well Elevation (ft/msl) 936.60 Well Depth (ft) 21.47  
 Depth to Ground water (ft) 12.33 Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) 924.27

1st <u>6.65</u> (STD) <u>11165</u> um/cm at 25°C	(other parameter) _____	value _____	units _____
2nd <u>6.68</u> (STD) <u>11165</u> um/cm at 25°C	(other parameter) _____	value _____	units _____
3rd <u>6.69</u> (STD) <u>11158</u> um/cm at 25°C	(other parameter) _____	value _____	units _____
4th <u>6.69</u> (STD) <u>11158</u> um/cm at 25°C	(other parameter) _____	value _____	units _____

Sample Temp \_\_\_\_\_ (°C) Turbidity \_\_\_\_\_ NTU

#### FIELD COMMENTS

Sample Appearance: clear (slightly murky) no odor

Weather Conditions: Sunny, light variable winds, 55°F

Other: well located among trees in small v

#### FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JEFF ENGLAND Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

10 OCT 89 [Signature]  
Date Signature



CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 89/10/04 By: RW

Company: PELA Attn: CLAYTON LINDSEY

Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150

Address: 19077 EXIT 12 AND 18 EAST, MADISON, WI 53704

SAMPLE IDENTIFICATION

Facility: 405 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-16WP91A 8910 0933 170  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL. (Y/N)	Observations	Observations
2	VDA	40	NONE	VOLATILES	N	✓	✓
1	TB	40	GC/MS	TRIP BLANK	N	✓	✓
3	EXT	1000	none	EXT/MS/GC	N	✓	✓
1	MET	500	HNO3	METALS	Y	✓	✓
1	CONU	500	<del>NONE</del> NaOH w/lock or out of CYANIDE	CYANIDE	N	✓	✓
1	CONU	125	NONE	CHLOR	N	✓	✓
1	FL	125	NONE	FLUORIDE	N	✓	✓
1	CONS	125	H2SO4	TOC	N	✓	✓
1	CONS	125	H2SO4	NO2/NO3	N	✓	✓
1	CONS	125	H2SO4	COND.	N	✓	✓

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) Clayton Lindsey Date: 07 OCT 89 Time: 1420  
Signature: Clayton Lindsey Seal #: 0160799 Intact: OK

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) Clayton Lindsey Date: 11 OCT 89 Time: 1700  
Signature: Clayton Lindsey Seal #: 0160799 Intact: OK 956

LAB USE ONLY Opened By: Devin Crawford Date: 89-10-27 Time: 10:12  
SHUTTLE # 726 TEMP. °C 3 SEAL # 014752 COND. Intact



# CHAIN OF CUSTODY FORM (CC1)

ORIGINAL

Company: PELA Attn.: CLAYTON LINDSEY

Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150

Address: C/O HOLIDAY INN MADISON SMITH EAST  
19077 EXIT 12 AND 18 EAST, MADISON, WI 53704

## SAMPLE IDENTIFICATION

Facility: 4 0 5 Facility/Site Code (Optional Sample Point Description)

Sample Point: W-1 GWP 9 A 89110 0933 170  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

## SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Filt. (Y/N)	Observations	Observations
1	CONU	125	NONE	PH/SCOND	N	✓	✓

## CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) CLAYTON LINDSEY Date: 07 OCT 89 Time: 1420  
Signature: Clayton Lindsey Seal #: 0160799 Intact: OR

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) Clayton Lindsey Date: 11 OCT 89 Time: 1700  
Signature: Clayton Lindsey Seal #: 0160799 Intact: OK

LAB USE ONLY Opened By: Felix Crawford Date: 10-12-89 Time: 10:12  
SHUTTLE # 24 TEMP. °C 30 SEAL # 0147252 COND. intact



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA2147

Sample Point W116WPA  
Source Code Sample Point I.D.

## FIELD PROCEDURES

89110111  
PURGE DATE  
(YY MM DD)

091313  
START PURGE  
(2400 Hr Clock)

17.0  
ELAPSED HRS

111127  
WATER VOL. IN CASING  
(Gallons)

152  
VOLUME PURGED  
(Gallons)

### SAMPLING METHOD:

SAMPLING METHOD: \_\_\_\_\_

Sampler Type  A-Submersible Pump    D-Dipper/Bottle  
 B-ISCO    E-Bailer  
 C-Bladder Pump    F-Scoop/Shovel    X-Other well wear  
(SPECIFY OTHER)

Sampler Material  A-Teflon    C-PVC  
 B-Metal    D-Plastic    X-Other \_\_\_\_\_  
(SPECIFY OTHER)

Tubing Material  A-Teflon    C-Polyethylene  
 B-Tygon    D-Silicon    X-Other \_\_\_\_\_  
(SPECIFY OTHER)

Sample Composited  Y/N \_\_\_\_\_  
Procedure/Proportions

## FIELD MEASUREMENTS

Well Elevation (ft/msl) 937.08

Well Depth (ft) 2184

Depth to Ground water (ft) 14.07

Sample Depth (non-well) (ft) \_\_\_\_\_

Groundwater Elevation (ft msl) 923.01

1st 6.84 (STD) 1st 833 um/cm at 25°C

\_\_\_\_\_ (other parameter) \_\_\_\_\_ value \_\_\_\_\_ units

2nd 6.84 (STD) 2nd 833 um/cm at 25°C

\_\_\_\_\_ (other parameter) \_\_\_\_\_ value \_\_\_\_\_ units

3rd 6.86 (STD) 3rd 834 um/cm at 25°C

\_\_\_\_\_ (other parameter) \_\_\_\_\_ value \_\_\_\_\_ units

4th 6.85 (STD) 4th 838 um/cm at 25°C

\_\_\_\_\_ (other parameter) \_\_\_\_\_ value \_\_\_\_\_ units

11.09 (°C)  
Sample Temp

\_\_\_\_\_ NTU  
Turbidity

## FIELD COMMENTS

Sample Appearance: clear no odor

Weather Conditions: Sunny, light variable winds, 45°F warming to 70°F

Other: well located in small tree-filled valley.

2184 - 14.07 = 2170 x 1.636 L/ft = 3550 L = 940 GALS

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: Clayton Lindsey (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

11/08/89 Clayton Lindsey  
(Date) (Signature)

Seal No. 692-693 ETC Job # CA2147

**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL Date Sealed 10-5-89 By: KTS

Company: WMT Attn: Clayton Lindsey  
 Facility/Site: Dunn (405) Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_

**SAMPLE IDENTIFICATION**

Facility: |\_|\_|\_|\_|\_| 405 | 3d | (Optional Sample Point Descriptions)

Sample Point: |\_|\_|\_|\_|\_|\_| W1G1P91A | B911011 | 6933 | 70 |  
Source Code (from below)      Your Sample Point ID (left justify)      Start Date (YY/MM/DD)      Start Time (2400 hr. clock)      Elapsed Hours (composite)

Source Codes:  
 Well (W)    Outfall (O)    Bottom Sediment (B)    Surface Impoundment (I)    Leachate Collection Sys. (C)    Other (X)  
 Soil (S)    River/Stream (R)    Generation Point (G)    Treatment Facility (T)    Lake/Ocean (L)    Specify \_\_\_\_\_

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Filt. (Y/N)	Observations	Observations
1	P	250	∅	Bicarbonate, Carbonate, Sulfate, TDS	N	-	Full, Clean
1	P	250	H <sub>2</sub> SO <sub>4</sub>	NH <sub>3</sub> , TKN	N	✓	↓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) Clayton Lindsey      Date: 06 OCT 89      Time: 1115  
 Signature: Clayton Lindsey      Seal #: 692-693      Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_      Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_      Time: \_\_\_\_\_      Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_      Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_      Time: \_\_\_\_\_      Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) Clayton Lindsey      Date: 11 OCT 89      Time: 1700  
 Signature: Clayton Lindsey      Seal #: 69699      Intact: OK

LAB USE ONLY Opened By: Kelley Schelki      Date: 10-12-89      Time: 14:00      939  
 SHUTTLE # \_\_\_\_\_      TEMP. °C 40      SEAL # 699      COND. Intact



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA2147

Sample Point W 11GUMP91A

Source Code \_\_\_\_\_ Sample Point I.D. \_\_\_\_\_

### FIELD PROCEDURES

PURGE DATE (YY MM DD) 891101 START PURGE (2400 Hr Clock) 09133 ELAPSED HRS 170 WATER VOL. IN CASING (Gallons) 111217 VOLUME PURGED (Gallons) 1512

SAMPLING METHOD: \_\_\_\_\_

Sampler Type X/C A-Submersible Pump D-Dipper/Bottle  
B-ISCO E-Bailer X-Other well wizard  
C-Bladder Pump F-Scoop/Shovel (SPECIFY OTHER) \_\_\_\_\_

Sampler Material A/C A-Teflon C-PVC X-Other \_\_\_\_\_  
B-Metal D-Plastic (SPECIFY OTHER) \_\_\_\_\_

Tubing Material A/C A-Teflon C-Polyethylene X-Other \_\_\_\_\_  
B-Tygon D-Silicon (SPECIFY OTHER) \_\_\_\_\_

Sample Composited FIN

Procedure/Proportions \_\_\_\_\_

### FIELD MEASUREMENTS

Well Elevation (ft/msl) 937.08 Well Depth (ft) 121.84  
 Depth to Ground water (ft) 114.07 Sample Depth (non-well) (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) 923.01

1st	<u>6.84</u> (STD) ph	1st	<u>833</u> spec. cond.	um/cm at 25°C	_____	_____	_____
					(other parameter)	value	units
2nd	<u>6.84</u> (STD) ph	2nd	<u>833</u> spec. cond.	um/cm at 25°C	_____	_____	_____
					(other parameter)	value	units
3rd	<u>6.86</u> (STD) ph	3rd	<u>834</u> spec. cond.	um/cm at 25°C	_____	_____	_____
					(other parameter)	value	units
4th	<u>6.85</u> (STD) ph	4th	<u>838</u> spec. cond.	um/cm at 25°C	_____	_____	_____
					(other parameter)	value	units

Sample Temp 11.9 (°C) Turbidity \_\_\_\_\_ NTU

### FIELD COMMENTS

Sample Appearance: clear no odor

Weather Conditions: Sunny, light variable winds, 45°F warming to 70°F

Other: well located in small tree filled valley

21.84 - 14.07 = 7.77 x 1.6394/FT = 1.27 x 9 = 5.06 Gallons = 4 casings

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: Clayton Lindsey (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

11 Oct 89 (Date) Clayton Lindsey (Signature)



CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 8/18/04 By: RW

Company: PELA Attn.: CLAYTON LINDSEY

Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150

Address: C/O HOLIDAY INN MADISON SMITH EAST  
190// EXIT 12 AND 18 EAST, MADISON, WI 53704

SAMPLE IDENTIFICATION

Facility: 405 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W116WB18R2 891011 1446 7  
Source Code Your Sample Point ID Start Date Start Time Elapsed Hours  
(from below) (left justify) (YY/MM/DD) (2400 hr. clock) (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL. (Y/N)	Observations	Observations
2	VOA	40	NONE	VOLATILES	N	/	VOA'S Rec'd back
1	TB	40	GC/MS	TRIP BLANK	N	/	✓
3	EXT	1000	none	EXT/MS/GC	N	/	✓
1	MET	500	HNO3	METALS	Y	/	✓
1	CUNL	500	NONE	CYANIDE	N	/	✓
1	CUNL	125	NONE	CHLDR	N	/	✓
1	FL	125	NONE	FLUORIDE	N	/	✓
1	CUNS	125	H2SO4	TOC	N	/	✓
1	CUNS	125	H2SO4	NO2/NO3	N	/	✓
1	CUNS	125	H2SO4	PHENOL	N	/	✓

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) JEFF ENGLAND Date: 7/20/09 Time: 1502  
Signature: [Signature] Seal #: 0160787 Intact: ✓

I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

Sealed By: (print) JEFF ENGLAND Date: 11 OCT 09 Time: 1740  
Signature: [Signature] Seal #: 0160788 Intact: OK

Shuttle Opened By: [Signature] Date: 8/18/04 Time: 10:10  
Signature: [Signature] Seal #: 0160788 Intact: Intact

TEMP. °C 20





# CHAIN OF CUSTODY FORM (CC1)

ORIGINAL Date Sealed 89/10/04 By: RW

Company: PELA Attn: CLAYTON LINDSEY

Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3100

Address: C/O HOLIDAY INN MADISON SMITH EAST  
19077 EXIT 12 AND 18 EAST, MADISON, WI 53704

## SAMPLE IDENTIFICATION

Facility: 405 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-16WB18R1R 891011 1440 17  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

## SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
1	COND	125	NONE	PH/SCOND	A ✓	✓	✓

## CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) JEFF ENGLAND Date: 7 OCT 89 Time: 1502  
Signature: [Signature] Seal #: 0160787 Intact: ok

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 11 OCT 89 Time: 1700  
Signature: [Signature] Seal #: 0160788 Intact: ok

LAB USE ONLY Opened By: [Signature] Date: 10-12-89 Time: 10:10  
SHUTTLE # 907 TEMP. °C 2 SEAL # 0160788 COND. intact

ETC JOB # CA2148

Sample Point W 116WB1B1R1R1  
Source Code Sample Point I.D.

FIELD PROCEDURES

09110111  
PURGE DATE (YY MM DD)

114140  
START PURGE (2400 Hr Clock)

117  
ELAPSED HRS

1153  
WATER VOL. IN CASING (Gallons)

1815  
VOLUME PURGED (Gallons)

SAMPLING METHOD:

Sampler Type  A-Submersible Pump  D-Dipper/Bottle  
 B-ISCO  E-Bailer  
 C-Bladder Pump  F-Scoop/Shovel  
 X-Other well wizard (SPECIFY OTHER)

Sampler Material  A-Teflon  C-PVC  
 B-Metal  D-Plastic  
 X-Other \_\_\_\_\_ (SPECIFY OTHER)

Tubing Material  A-Teflon  C-Polyethylene  
 B-Tygon  D-Silicon  
 X-Other \_\_\_\_\_ (SPECIFY OTHER)

Sample Compositied  Y/N \_\_\_\_\_  
 Procedural Proportions \_\_\_\_\_

FIELD MEASUREMENTS

Well Elevation (ft/msl)                      Well Depth (ft) 3507  
 Depth to Ground water (ft) 2569 Sample Depth (non-well) (ft)                       
 Groundwater Elevation (ft msl)                     

1st <u>764</u> (STD) <u>                    </u> <u>                    </u> <u>                    </u> ph spec. cond. um/cm at 25 °C (other parameter) value units	1st <u>11063</u> <u>                    </u> <u>                    </u> <u>                    </u> spec. cond. um/cm at 25 °C (other parameter) value units
2nd <u>772</u> (STD) <u>                    </u> <u>                    </u> <u>                    </u> ph spec. cond. um/cm at 25 °C (other parameter) value units	2nd <u>11053</u> <u>                    </u> <u>                    </u> <u>                    </u> spec. cond. um/cm at 25 °C (other parameter) value units
3rd <u>774</u> (STD) <u>                    </u> <u>                    </u> <u>                    </u> ph spec. cond. um/cm at 25 °C (other parameter) value units	3rd <u>11048</u> <u>                    </u> <u>                    </u> <u>                    </u> spec. cond. um/cm at 25 °C (other parameter) value units
4th <u>775</u> (STD) <u>                    </u> <u>                    </u> <u>                    </u> ph spec. cond. um/cm at 25 °C (other parameter) value units	4th <u>11098</u> <u>                    </u> <u>                    </u> <u>                    </u> spec. cond. um/cm at 25 °C (other parameter) value units
<u>1102</u> (°C) <u>                    </u> <u>                    </u> <u>                    </u> Sample Temp Turbidity NTU	

FIELD COMMENTS

Sample Appearance: clear strong odor  
 Weather Conditions: sunny, light variable winds, 70° F  
 Other: well located next to large woodlot

$35.07 - 25.69 = 9.38 \times 1.63 \text{ gal/ft} = 1.53 \text{ gallons} \times 4 = 6.12 \text{ Gallons} = 4 \text{ CASINGS}$

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JEFF ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

11 Oct 89 [Signature]  
Date: Signature

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ENVIRONMENTAL TESTING and CERTIFICATION

Seal No. 1692-693 ETC Job # CA2148CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 10-5-89 By: KTS

Company: WMT Attn.: Clayton Lindsey  
 Facility/Site: Duan (425) Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_

## SAMPLE IDENTIFICATION

Facility: 11105 3d (Optional Sample Point Descriptions)

Sample Point: W-11GWB11BRR BR11111 11440 117  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock)Elapsed Hours (composite)

## Source Codes:

Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify \_\_\_\_\_

## SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL. (Y/N)	Observations	Observations
1	P	250	∅	Bicarbonate, Carbonate, Sulfate, TDS	N	✓	full, clear
1	P	250	H2SO4	NH3, TKN	N	✓	↓

## CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) Clayton Lindsey Date: 06 OCT 89 Time: 1115  
 Signature: Clayton Lindsey Seal #: 1692-693 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) Clayton Lindsey Date: 11 OCT 89 Time: 1700  
 Signature: Clayton Lindsey Seal #: 00699 Intact: OK

LAB USE ONLY Opened By: Kelly Schell Date: 10-12-89 Time: 14:00 904  
 SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 199 COND. Intact



ETC

# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA2148  
 Sample Point W 11GWB018IR1  
Source Code                          Sample Point I.D.

### FIELD PROCEDURES

8R110111     114410     117     11153     185  
PURGE DATE (YY MM DD)     START PURGE (2400 Hr Clock)     ELAPSED HRS     WATER VOL. IN CASING (Gallons)     VOLUME PURGED (Gallons)

#### SAMPLING METHOD:

Sampler Type:  A-Submersible Pump     D-Dipper/Bottle  
     B-ISCO                                 E-Bailer  
     C-Bladder Pump                     F-Scoop/Shovel                    X-Other well wizard  
(SPECIFY OTHER)

Sampler Material:  A-Teflon                                C-PVC  
     B-Metal                                    D-Plastic                                X-Other \_\_\_\_\_  
(SPECIFY OTHER)

Tubing Material:  A-Teflon                                C-Polyethylene  
     B-Tygon                                    D-Silicon                                X-Other \_\_\_\_\_  
(SPECIFY OTHER)

Sample Compositing:  Y/N

Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl) 35.07     Well Depth (ft) 25.69  
 Depth to Ground water (ft) \_\_\_\_\_  
 Groundwater Elevation (ft msl) \_\_\_\_\_

1st <u>7.64</u> (STD) <small>ph</small>	1st <u>11063</u> <small>spec. cond.</small>	unvem at 25°C	<input type="text"/>	<input type="text"/>	<input type="text"/>
2nd <u>7.72</u> (STD) <small>ph</small>	2nd <u>11053</u> <small>spec. cond.</small>	unvem at 25°C	<input type="text"/>	<input type="text"/>	<input type="text"/>
3rd <u>7.74</u> (STD) <small>ph</small>	3rd <u>11048</u> <small>spec. cond.</small>	unvem at 25°C	<input type="text"/>	<input type="text"/>	<input type="text"/>
4th <u>7.75</u> (STD) <small>ph</small>	4th <u>11048</u> <small>spec. cond.</small>	unvem at 25°C	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>11.02</u> (°C) <small>Sample Temp</small>	<input type="text"/> NTU <small>Turbidity</small>				

### FIELD COMMENTS

Sample Appearance: clear odor  
 Weather Conditions: Sunny, light variable winds, 70°F  
 Other: well located next to large woodlot

35.07 - 25.69 = 9.38 x 1.63 gal/ft = 1.53 gal/min x 4 = 6.12 gallons = 4 casings

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Clayton Lindsey     Employee: PELA  
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

11/21/88     Clayton Lindsey  
(Date)                                (Signature)



**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL Date Sealed 89/10/04 By: RW

Company: PEL Attn.: CLAYTON LINDSEY  
Facility/Site: CITY OF MADISON Phone: (414) 631 - 3150  
Address: C/O ROBERT ANN MADISON SMITH EAST  
190// EXT. 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 405 Facility/Site Code (Optional Sample Point Descriptions)  
Sample Point: X-03FB 891010 1227 3  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)  
Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL (Y/N)	Observations	Observations
2	UDA	40	NONE	VOLATILES	N	/	
1	TB	40	GC/MS	TRIP BLANK	N	1 mil bubble	
3	EXT	1000	none	EXT/MS/GC	N	/	
1	MET	500	HNO3	METALS	N	/	✓
1	CONU	500	NONE	CYANIDE	N	/	✓
1	CONU	125	NONE	CHLOR	N	/	✓
1	FL	125	NONE	FLUORIDE	N	/	✓
1	CONS	125	H2SO4	TOC	N	/	✓
1	CONS	125	H2SO4	NO2/NO3	N	/	✓
1	CONS	125	H2SO4	AMMONIA	N	/	✓

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) JOE ENGLAND Date: 7 OCT 89 Time: 1423  
Signature: [Signature] Seal #: 0160819 Intact: ok

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JOE ENGLAND Date: 10 OCT 89 Time: 1315  
Signature: [Signature] Seal #: 0160820 Intact: ok

LAB USE ONLY Opened By: [Signature] Date: 891011 Time: 9:55 AM  
SHUTTLE # 496 TEMP. °C 50 SEAL # 0160820 COND. Intact



**CHAIN OF CUSTODY FORM (CC1)**

Company: PEL Attn.: CLAYTON LINDSEY

Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150

Address: C/O HOLIDAY INN MADISON SMITH EAST  
190// EXIT 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 4 0 5 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: X-03FB 091101 11227 3  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL. (Y/N)	Observations	Observations
1	CQNU	125	NONE	PH/SCOND	N	/	<del>XXXXXXXXXX</del>

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: JEFF ENGLAND Date: 0160819 Time: 1423  
Signature: [Signature] Seal #: 0160819 Intact: ok

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 10 OCT 89 Time: 1315  
Signature: [Signature] Seal #: 0160820 Intact: 907

LAB USE ONLY Opened By: [Signature] Date: 89-10-7 Time: 10:55  
SHUTTLE # 496 TEMP. °C 5° SEAL # 0160820 COND. intact



# FIELD PARAMETER FORM (CC2)

Form 0602  
Sample Management  
08/88

ETC JOB # CA2152

Sample Point X 03FB  
Source Code Sample Point I.D.

### FIELD PROCEDURES

89110110  
PURGE DATE  
(YY MM DD)

1227  
START PURGE  
(2400 Hr Clock)

3  
ELAPSED HRS

1  
WATER VOL. IN CASING  
(Gallons)

1  
VOLUME PURGED  
(Gallons)

SAMPLING METHOD: FLD BLANK

Sampler Type	<input type="checkbox"/> A-Submersible Pump <input type="checkbox"/> B-ISCO <input type="checkbox"/> C-Bladder Pump	<input type="checkbox"/> D-Dipper/Bottle <input type="checkbox"/> E-Bailer <input type="checkbox"/> F-Scoop/Shovel	X-Other _____ (SPECIFY OTHER)
Sampler Material	<input type="checkbox"/> A-Teflon <input type="checkbox"/> B-Metal	<input type="checkbox"/> C-PVC <input type="checkbox"/> D-Plastic	X-Other _____ (SPECIFY OTHER)
Tubing Material	<input type="checkbox"/> A-Teflon <input type="checkbox"/> B-Tygon	<input type="checkbox"/> C-Polyethylene <input type="checkbox"/> D-Silicon	X-Other _____ (SPECIFY OTHER)
Sample Compositied	<input checked="" type="checkbox"/> Y/N _____		

Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl)                     

Depth to Ground water (ft)                     

Groundwater Elevation (ft msl)                     

Well Depth (ft)                     

Sample Depth (non-well) (ft)                     

1st <u>          </u> (STD) <u>          </u> ph	1st <u>          </u> (STD) <u>          </u> spec. cond.	um/cm at 25 °C	<u>          </u> (other parameter)	<u>          </u> value	<u>          </u> units
2nd <u>          </u> (STD) <u>          </u> ph	2nd <u>          </u> (STD) <u>          </u> spec. cond.	um/cm at 25 °C	<u>          </u> (other parameter)	<u>          </u> value	<u>          </u> units
3rd <u>          </u> (STD) <u>          </u> ph	3rd <u>          </u> (STD) <u>          </u> spec. cond.	um/cm at 25 °C	<u>          </u> (other parameter)	<u>          </u> value	<u>          </u> units
4th <u>          </u> (STD) <u>          </u> ph	4th <u>          </u> (STD) <u>          </u> spec. cond.	um/cm at 25 °C	<u>          </u> (other parameter)	<u>          </u> value	<u>          </u> units
<u>          </u> Sample Temp (°C)	<u>          </u> Turbidity	NTU			

### FIELD COMMENTS

Sample Appearance:                     

Weather Conditions:   SUNNY 50°F WEST 50°F  

Other:   Transfered by trainline near open field by  

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JEFF ENGLAND (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols 68

10 OCT 89 (Date)                      (Signature)



CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 10-5-89 By: KJS

Company: WMT Attn: Clayton Lindsay  
Facility/Site: Dunn (405) Phone: \_\_\_\_\_  
Address: \_\_\_\_\_

SAMPLE IDENTIFICATION

Facility: 405 3d  
Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: XI-03FB B91410 11217 13  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify Field Blank

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
1	P	250	∅	Bicarbonate, Phosphate, Sulfate, TDS	N	✓	full, clean
1	P	250	H2SO4	NH3, TKN	N	✓	↓

CHAIN OF CUSTODY CHRONICLE

- Shuttle Opened By: (print) Clayton Lindsay Date: 06 Oct 89 Time: 1115  
Signature: Clayton Lindsay Seal #: 692-693 Intact: OK
  - I have received these materials in good condition from the above person.  
Name: JEFF ENGLAND Signature: [Signature]  
Date: 17 OCT 89 Time: 1600 Remarks: OK
  - I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_
  - Shuttle Sealed By: (print) JEFF ENGLAND Date: 10 Oct 89 Time: 1900  
Signature: [Signature] Seal #: 00698 Intact: OK
- LAB USE ONLY Opened By: Kelly Schell Date: 10-11-89 Time: 13:00  
SHUTTLE # \_\_\_\_\_ TEMP. °C 40 SEAL # 698 COND. Intact





# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA2152  
Sample Point X1 013FB  
Source Code                      Sample Point ID

### FIELD PROCEDURES

89110110 PURGE DATE (YY MM DD)      112127 START PURGE (2400 Hr Clock)      3 ELAPSED HRS           WATER VOL. IN CASING (Gallons)           VOLUME PURGED (Gallons)

SAMPLING METHOD: Field BLANK

Sampler Type  A-Submersible Pump    D-Dipper/Bottle    X-Other \_\_\_\_\_ (SPECIFY OTHER)  
 B-ISCO                      E-Bailer  
 C-Bladder Pump            F-Scoop/Shovel

Sampler Material  A-Teflon                      C-PVC                      X-Other \_\_\_\_\_ (SPECIFY OTHER)  
 B-Metal                      D-Plastic

Tubing Material  A-Teflon                      C-Polyethylene            X-Other \_\_\_\_\_ (SPECIFY OTHER)  
 B-Tygon                      D-Silicon

Sample Composited  Y/N \_\_\_\_\_

Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl)      Well Depth (ft)       
 Depth to Ground water (ft)      Sample Depth (non-well) (ft)       
 Groundwater Elevation (ft msl)     

1st <u>    </u> (STD)    1st <u>    </u> um/cm at 25°C	<u>    </u> <u>    </u> <u>    </u>
ph                      spec. cond.	(other parameter)    value    units
2nd <u>    </u> (STD)    2nd <u>    </u> um/cm at 25°C	<u>    </u> <u>    </u> <u>    </u>
ph                      spec. cond.	(other parameter)    value    units
3rd <u>    </u> (STD)    3rd <u>    </u> um/cm at 25°C	<u>    </u> <u>    </u> <u>    </u>
ph                      spec. cond.	(other parameter)    value    units
4th <u>    </u> (STD)    4th <u>    </u> um/cm at 25°C	<u>    </u> <u>    </u> <u>    </u>
ph                      spec. cond.	(other parameter)    value    units
<u>    </u> (°C) <u>    </u> NTU	
Sample Temp                      Turbidity	

### FIELD COMMENTS

Sample Appearance: \_\_\_\_\_  
 Weather Conditions: clear, 5 mph west, 50°F  
 Other: Transferred by truckline near open field by PBA

### FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JOFF ENGLAND                      Employer: PELA  
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

10/21/89                      [Signature]  
Date                      Signature



**CHAIN OF CUSTODY FORM (CC1)** ORIGINAL Date Sealed 89/10/04 By: RW

Company: PEL Attn.: CLAYTON LINDSEY  
 Facility/Site: CITY OF MADISON SMITH EAST Phone: (414) 631 - 3150  
 Address: 1907 EAST WISCONSIN AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 405 Facility/Site Code (Optional: Sample Point Descriptions)  
 Sample Point: XH03TB 891011 0  
 Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)  
 Source Codes:  
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify Trap Blank

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FILL (Y/N)	Observations	Observations
2	UTB	40	GC/MS	VOLATILES	N	✓	

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: TEPIC ENGLAND Date: 7 OCT 89 Time: 1423  
 Signature: [Signature] Seal #: 0160819 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) TEPIC ENGLAND Date: 10 OCT 89 Time: 1415  
 Signature: [Signature] Seal #: 0160820 Intact: OK

LAB USE ONLY Opened By: Ron Campbell Date: 9/25/89 Time: 9:55  
 SHUTTLE # 496 TEMP. °C 5 SEAL # 0160820 COND. INTACT



**CHAIN OF CUSTODY FORM (CC1)**

ORIGINAL Date Sealed 89/10/04 By RW 222

Company: PELA Attn.: CLAYTON LINDSEY  
 Facility/Site: CITY DISPOSAL Phone: (414) 631 - 3150  
C/O HOLIDAY INN MADISON SMITH EAST  
 Address: 190// EXIT 12 AND 18 EAST, MADISON, WI 53704

**SAMPLE IDENTIFICATION**

Facility: 405 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W1GWIB18RR 89110112 1612 14  
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

**SHUTTLE CONTENTS**

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		FIL. (Y/N)	Observations	Observations
2	VOA	40	NONE	VOLATILES	N	✓	✓
1	TB	40	GC/MS	TRIP BLANK		✓	✓
<del>3</del>	<del>EXT</del>	<del>1000</del>	<del>none</del>	<del>EXT/MS/GC</del>	<del>N</del>	<del>✓</del>	<del>✓</del>
1	MET	500	HNO3	METALS	N	✓	✓
1	CONU	500	<del>NONE</del> <sup>NaOH</sup>	<del>CYANIDE</del> <sup>WGL 070287</sup>	N	✓	✓
1	CONU	125	NONE	<del>CHLOR</del>	N	✓	✓
1	FL	125	NONE	FLUORIDE	N	✓	✓
1	CONU	125	H2SO4	TOC	N	✓	✓
1	CONU	125	H2SO4	NO2/NO3	N	✓	✓
1	CONU	125	H2SO4	PHENOL	N	✓	✓

*Boyle Rec'd Empty*

**CHAIN OF CUSTODY CHRONICLE**

1. Shuttle Opened By: (print) Clayton Lindsey Date: 07 Oct 89 Time: 1404  
 Signature: Clayton Lindsey Seal #: 0160789 Intact: OK

2. I have received these materials in good condition from the above person.  
 Name: JEFF ENGLAND Signature: [Signature]  
 Date: 11 OCT 89 Time: 12:30 Remarks: OK

3. I have received these materials in good condition from the above person.  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: 972

4. Shuttle Sealed By: (print) JEFF ENGLAND Date: 12 Oct 89 Time: 1745  
 Signature: [Signature] Seal #: 0160790 Intact: OK

LAB USE ONLY Opened By: [Signature] Date: 89-10-13 Time: 11:25



# FIELD PARAMETER FORM (CC2)

Form 0002  
Sample Management  
08/88

ETC JOB # CA2775 2266 JAE  
Sample Point W1 2G1W1B10R1  
Source Code          Sample Point I.D.

### FIELD PROCEDURES

89110112      116112      4      1153      7  
PURGE DATE (YY MM DD)      START PURGE (2400 Hr Clock)      ELAPSED HRS      WATER VOL. IN CASING (Gallons)      VOLUME PURGED (Gallons)

#### SAMPLING METHOD:

Sampler Type	<input checked="" type="checkbox"/> C	A-Submersible Pump B-ISCO C-Bladder Pump	D-Dipper/Bottle E-Bailer F-Scoop/Shovel	X-Other	<u>well wizard</u> (SPECIFY OTHER)
Sampler Material	<input checked="" type="checkbox"/> C	A-Teflon B-Metal	C-PVC D-Plastic	X-Other	_____ (SPECIFY OTHER)
Tubing Material	<input checked="" type="checkbox"/> C	A-Teflon B-Tygon	C-Polyethylene D-Silicon	X-Other	_____ (SPECIFY OTHER)
Sample Compositing	<input checked="" type="checkbox"/> N				

Procedure/Proportions

### FIELD MEASUREMENTS

Well Elevation (ft/msl)                           Well Depth (ft) 3507  
Depth to Ground water (ft) 2568      Sample Depth (non-well) (ft)               
Groundwater Elevation (ft msl)                     

1st	<u>767</u> (STD) ph	1st	<u>1073</u> spec. cond.	um/cm at 25°C	<u>          </u>	<u>          </u>	units
2nd	<u>769</u> (STD) ph	2nd	<u>1073</u> spec. cond.	um/cm at 25°C	<u>          </u>	<u>          </u>	units
3rd	<u>771</u> (STD) ph	3rd	<u>1030</u> spec. cond.	um/cm at 25°C	<u>          </u>	<u>          </u>	units
4th	<u>770</u> (STD) ph	4th	<u>1035</u> spec. cond.	um/cm at 25°C	<u>          </u>	<u>          </u>	units
	<u>1102</u> (°C) Sample Temp		<u>          </u> Turbidity	NTU			

### FIELD COMMENTS

Sample Appearance: clear strong odor  
Weather Conditions: sunny, light winds, 70°F  
Other: well located at edge of large woodlot  
- High Tip readings - probably a hot sample  
- Volatile samples only to replace those broken in shipment yesterday - new CA # 2266  
35.07 - 2.5.68 = 9.39 x 163 gal/ft = 153 x 4 = 612 gallons = 4 casings

**FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered**

Sampler: JAE ENGLAND          Employer: PELA  
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.  
12 OCT 89          [Signature]  
(Date)                  (Signature)                                  973



ENVIRONMENTAL TESTING and CERTIFICATION

Seal No. 1283/85 ETC Job # CA2282

CHAIN OF CUSTODY FORM (CC1)

ORIGINAL Date Sealed 89/10/13 By: KC

Company: WISCONSIN Attn: JEFF FISCHER  
Facility/Site: C Phone: (414) 429 - 3598  
Address: 10... STREET, FRANKLIN, WI 53132

SAMPLE IDENTIFICATION

Facility: 4 0 5  
Sample Point: W P T B RW 10123125 (Optional Sample Point Descriptions)  
Source Code: G-W Start Date: 89/10/17 Start Time: 11045  
(from below) (label justify) (YY/MM/DD) (2400 hr. clock) (composite)

Source Codes:  
Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)  
Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER	
No	Type	Size	Preserv.		PKL (Y/N)	Observations
4	WDA	40	NONE	VOLATILES	N	
1	TB	40	GC/MS	TRIP BLANK	N	

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: SEAN CRANLEY Date: 10-17-89 Time: 10:00  
Signature: [Signature] Seal #: 12283-12285 Intact: YES

2. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

3. I have received these materials in good condition from the above person.  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

4. Shuttle Sealed By: (print) SEAN CRANLEY Date: 10-17-89 Time: 17:30  
Signature: [Signature] Seal #: 12284-12286 Intact: YES

LAB USE ONLY Opened By: [Signature] Date: 10/17/89 Time: 9:30  
SHUTTLE # \_\_\_\_\_ TEMP. °C 5 SEAL # 12283-12286 CONC. FOR 974

ETC JOB # CA2282  
Sample Point W P11B  
Source Code G-WSR P.D.

FIELD PROCEDURES

PURGE DATE (YY MM DD) 891017 START PURGE (2400 Hr Clock) 11000  
ELAPSED HRS 275 WATER VOL. IN CASING (Gallons) 150 VOLUME PURGED (Gallons) 110

SAMPLING METHOD: \_\_\_\_\_  
Sampler Type C A-Submersible Pump D-Dipper/Bottle  
B-ISCO E-Sailer X-Other \_\_\_\_\_ (SPECIFY OTHER)  
C-Bladder Pump F-Scoop/Shovel  
Sampler Material A A-Teflon C-PVC X-Other \_\_\_\_\_ (SPECIFY OTHER)  
B-Metal D-Plastic  
Tubing Material A A-Teflon C-Polyethylene X-Other \_\_\_\_\_ (SPECIFY OTHER)  
B-Tygon D-Silicon  
Sample Compositd Y/N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 958.84 Well Depth (ft) \_\_\_\_\_  
Depth to Ground water (ft) 38.16 Sample Depth (non-well) (ft) \_\_\_\_\_  
Groundwater Elevation (ft msl) 887.29

1st 7.37 (STD) 1st 1607 temp/ at 25°C \_\_\_\_\_  
ph spec. cond. (other parameter) value units  
2nd \_\_\_\_\_ (STD) 2nd \_\_\_\_\_ temp/ at 25°C \_\_\_\_\_  
ph spec. cond. (other parameter) value units  
3rd \_\_\_\_\_ (STD) 3rd \_\_\_\_\_ temp/ at 25°C \_\_\_\_\_  
ph spec. cond. (other parameter) value units  
4th \_\_\_\_\_ (STD) 4th \_\_\_\_\_ temp/ at 25°C \_\_\_\_\_  
ph spec. cond. (other parameter) value units  
15.0 (°C) \_\_\_\_\_ NTU  
Sample Temp. Turbidity

FIELD COMMENTS

Sample Appearance \_\_\_\_\_  
Weather Conditions \_\_\_\_\_  
Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: SEAN CRANLEY (Print) Employer: WMAI

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

(Date) \_\_\_\_\_ (Signature) \_\_\_\_\_

Date 10/11/89 Instr. C

A-Type IEB/VOA/X13/CP42  
 Tune file AP101  
 Seq. file CCC  
 Method file VOAC  
 ID file IC1045  
 CB file CC1045  
 Analyst/Group

Standard	Conc ppm	Lot No.	Lot Vol.
p-BFB	25	20404	
I. S.	25	21881	
Surrogate	25	21881	
VOA Calib I	50	22039	
VOA Calib II	50	22026	
XVOA	50	21922	
<i>Matrix</i>		21892	

Batch # QU70079

Standards Updated  
 Date 10/11/89 By WJ

Tape # R00076 Inj. ul

Seq #	NAME	DATA File	init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	IP
1	P-BFB	>C7320				09:35	ok scan 226	
2	QU70079US	>C7321	5.00		20ULCA	10:09	} CBUP'd CBAL QT	
3	QU70079US	>C7322	5.00		15ULCA	11:04		
4	QU70079US	>C7323	5.00		10ULCA	11:59		
5	QU70079US	>C7324	5.00		2ULCAL	12:54		
6	QU70079US	>C7325	5.00		5ULCAL	13:49		
7	QU70079U	>C7326	5.00			14:44		ok
8	P-BFB	>C7327				17:21	ok scan 228	
R 9	CA2048U	>C7328	1.00		1:5	19:38	ok with 10/11/89 mg return for QU70078	Y
R 10	CA2041U	>C7329	5.00			19:33	ok 76mg a return from QU70078	Y
11	CA1894U	>C7330	5.00			20:28	ok	Y
12	CA1893U	>C7331	5.00			21:23	ok	Y
13	CA1893US	>C7332	5.00			22:18	ok	
14	CA1893UR	>C7333	5.00			23:14	ok	
15	CA1895U	>C7334	5.00			00:09	ok	Y
16	CA1897U	>C7335	5.00			01:04	mg return 1:100	Y

R : redo , A or P : Arcolor search , Y : Plus search 76

Date 10-16-89 Instr. \_\_\_\_\_

A-Type IFB/VOA  
 Tune file AFI01  
 Seq. file UCC  
 Method file VOAC  
 ID file IC 1048  
 CE file CC 1045  
 Analyst/Group Wright

Batch # QV70082

Standards Updated  
 Date 10/16/89 By CA

Type # \_\_\_\_\_ Inj. \_\_\_\_\_ ul

Standard	Conc ppm	Lot No.	Lot Vol.
p-BFB	25	21023	2
I. S.	25	21989	10
Surrogate	25	21989	1
VOA_Calib_I	50	22039	15.101920
VOA_Calib_II	50	22026	1
XVOA	50	21922	1
IFB MATRIX	50	21692	10

Seq #	NAME	DATA File	init. vol.	ALS #	Oil	Inj. Time	Specials (A-Type / Comments)	+	P
1	BFB	C7405				09:06	OK Jan 231		
2	QV70082US	C7406	5.00	1		10:46	OK		
3	QV70082U	C7407	5.00	2		11:41	OK		
4	QV70082US	C7408	5.00	3	OCAL	13:54	OK, OCAL 10-16-89 Cal. I+II+XVOA		
5	CA1890U	C7409	5.00	4		14:58	OK	Y	
6	CA1890U	C7410	5.00	5		15:54	OK	Y	
7	CA1892U	C7411	5.00	6		16:49	OK	Y	
8	CA1900U	C7412	5.00	7		17:45	OK	Y	
9	CA1908U	C7413	5.00	8		18:41	OK	Y	
10	CA1910U	C7414	5.00	9		19:37	OK	Y	
11	CA2049U	C7415	5.00	10		20:32	OK	Y	
12	BFB	C7416	2ul	-					
13	QV70082US	C7417	5.00	1	} nitrun		Cal I+II+XVOA		
14	QV70082U	C7418	5.00	2					

977



Date 10/20/89 Instr. C

A-Type I/FB/VOA  
 Tune file APE101  
 Seq. file MAZ  
 Method file VOA C  
 ID file IC1051  
 DB file CC1051  
 Analyst/Group Mozart CLP

Batch #'s Q070088

Standards Updated \_\_\_\_\_  
 Date \_\_\_\_\_ By \_\_\_\_\_

Sample # R00077 Inj. ul

Standard	Conc ppm	Lot No.	Lot Vol.
p-BFB	25	22037	2ul
I. S.	25	22005	10
Surrogate	25	N	2.5, 10, 15, 20
VOA_Calib_I	50	22139	
VOA_Calib_II	50	22140	
XVOA	50	21922	

Seq	NAME	DATA File	init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	
1	BFB	>C7500 7460	2ul	-		9:02	ok	
2	QC70088U	>C7501	5.00	1	SULCAL	09:39	ok cal I-III + X	
3	QC70088U	>C7502	5.00	2		10:32	ok	
4	CA2146U	>C7503	5.00	3		12:07	ok or 11/15/89. ag return 1:100	
5	QC70088U	>C7504	5.00	3		13:09	ok position blank	
6	CA2146U	>C7505	5.00 105	4	1:100	14:30	ok	
							or 11/15/89.	

R : redo , A or P : Arocolor search , Y : Plus search

ETC corp.

LABORATORY CHRONICLE : GC-MS Department

Page 1 of 2

Date 10-22-89 Instr. C

A-Type 2FB/VOA  
 Tune file APEI01  
 Seq. file CCC  
 Method file VOAC  
 ID file IC1052  
 CE file CC1052  
 Analyst/Group Shankar

Batch #'s QV70090

Standards Updated  
 Date 10-22-89 By CD

Sample # \_\_\_\_\_ Inj. \_\_\_\_\_ ul

Standard	Conc ppm	Lot No.	Lot Vol.
p-BFB	25	22037	2
I. S.	25	22005	10
Surrogate	25	↓	↓
VOA_Calib_I	50	22137	2.5, 10, 15, 20
VOA_Calib_II	50	22140	↓
XVOA	50	21922	↓

Seq #	NAME	DATA File	init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	+
1	BFB	>C7510		-		09:24	OK	
2	QC70090US	>C7511	5.00	1		09:59	5ul Cal 2+I+XVOA	
3	QC70090U	>C7512	5.00	2		10:55		
4	QC70090US	>C7513	5.00	3		11:51		
5	QC70090US	>C7514	5.00	4		12:47		
6	QC70090US	>C7515	5.00	5		13:42		
7	QC70090US	>C7516	5.00	6		14:37		
8	QC70090US	>C7517	5.00	7		15:32		
9	BFB	>C7518				16:22	OK	
10	QC70090US	>C7519	5.00	8		16:55	OK, QCAL 10-22-89	
11	QC70090U	>C7520	5.00	9		17:50	OK	Y
12	CA2060U	>C7521	5.00	10		18:45	OK	Y
13	CA2061U	>C7522	5.00	1		19:40	OK	Y
14	CA2072U	>C7523	5.00	2		20:35	OK	Y
15	CA2282U	>C7524	5.00	3		21:32	OK	Y
16	CA2282US	>C7525	5.00	4		22:27	OK	Y 979

R : redo , A or P : Arocolor search , Y : Plus search

ETC Corp.

LABORATORY CHRONICLE : GC-MS Department

page 2 of 2

Date 10-23-89 A-Type IFB/VDA Group CCP Seq. file CCC

Batch #'s QV70090 Analyst [Signature]

Seq #	NAME	DATA File	init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	P
17	CA2282UR	>C7526	5.00			23:22	OK	
18	CA2266U	>C7527	.001		5000	00:18	too dilute	
19	CA2266U	>C7528	.010		500	01:14	<del>(too dilute)</del> OK @ 11-14-89	
20	BFB	>C7529				09:28	OK	
21	QC70090US	>C7530	5.00			10:07	OK, QCAC 10-23-89	
22	QC70090U	>C7531	5.00			11:03	OK	Y
23	CA2060US	>C7532	5.00			11:58	OK	
24	CA2060UR	>C7533	5.00			12:52	OK	
25	CA2266U	>C7534	.250		20	13:46	OK (not needed) OK 11-14-89 11-14-89	Y

P : redo , A or P : Arocoln search , Y : Plus search

Date 10/17/89 Instr. D

A-Type IFB/VOA  
 Tune file APEI01  
 Seq. file 000  
 Method file VOAD  
 ID file ID1055  
 CB file CD1055  
 Analyst/Group Magnus CLP1  
 Batch #'s QU70083

Standard	Conc ppm	Lot No.	Lot Vol.
p-BFB	25	22037	2 ul
I. S.	25	22005	10
Surrogate	25	22005	↓
VOA Calib_I	50	22139	25, 10, 15, 20
VOA Calib_II	50	22140	↓
XVOA	50	21922	↓
IFB SPIK9	25	21692	10

Standards Updated  
 Date 10/17/89 By AM

Case # W00110 Inj. ul

Seq #	NAME	DATA File	Init. Vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	P
1	P-BFB	D8030	2ul	-		09:48	ok	
2	QC70083US	D8031	5.00	1	20ULCA	10:32	} CAUPD OACAL QT	
3	QC70083US	D8032	5.00	2	15ULCA	11:22		
4	QC70083US	D8033	5.00	3	10ULCA	12:13		
5	QC70083US	D8034	5.00	4	2ULCAI	13:03		
6	QC70083US	D8035	5.00	5	5ULCAI	13:53		
7	QC70083U	D8036	5.00	6		14:44	ok	Y
8	P-BFB	D8037	2ul	-		16:04	ok	
9	CA2141U	D8038	5.00	1		16:35	ok	Y
10	CA2142U	D8039	5.00	2		17:27	ok	Y
11	CA2143U	D8040	5.00	3		18:16	ok	Y
12	CA2144U 49 gm	D8041	5.00	4		19:07 19:58 19:58	ok	Y
13	CA2151U	D8042	5.00	5		20:48 21:39	ok	Y
14	CA1891U	D8043	5.00	6		21:39	ok	Y
15	CA2145U	D8044	5.00	7		21:39	ok	Y
16	CA2152U	D8045	5.00	8		22:30	ok	Y

R : redo , A or P : Arocolor search , Y : Plus search 481



DATE 10/18/89 SHIFT \_\_\_\_\_  
 FRACTION IFB/UCA  
 INSTRUMENT I  
 TUNE FILE APPECI  
 SEQUENCE FILE II  
 METHOD FILE UCA I  
 ID FILE I0105 CT0105  
 ANALYST(S) Mayer  
 SUPERVISOR Quintant  
 BATCH #'s Q070085

STANDARD	CONC PPM	LOT NO.	LOT VOL.
BEI	50	22037	2ul
Int. Std	25	22005	10
Cal I	50	22139	2.5, 10, 15, 20
Cal II	50	22140	
X UCA	50	21922	
IFB spk.	25	21692	10

PLEASE INITIAL

CURRENT CSOS STATUS	STANDARDS UPDATED
ACCI	DATE
WIP	BY

TAPE#

NAME	DATA FILE	UL INJ	ALS #	DIL	INJECTED TIME	SPECIALS (WRITE A-TYPE)	PLUS Y/N
BEI	I8240	2ul	-		18:40	ok com 112-95T	
Q070085US	I8241	5ul	2			20ul Cal I-II-X	
Q070085US	I8242		3	CRUPD		15ul	
Q070085US	I8243		4	ORCA		10ul	
Q070085US	I8244		5			2ul	
Q070085US	I8245		6			5ul	
Q070085U	I8246		7			ok	
Q070085U	I8247		8			ok	
CA2150U	I8248		9			ok	
CA2049U	I8249		10			ok In Q070082	
CA2147U	I8250		11	(+100) Dm	10/19/89	ok	
CA2146U	I8251		12	1:00		ng I see Surrout	
CA2144U	I8252		13	1:00		ok	

LABORATORY CHRONICLE: Sample Preparation Department

QC BATCH NO: 70087

JOB NO	LOGLINK	SAMPLE AMT (ml/gm)	MOIST %	DRY WGT gm	EXTRACT VOL (ml)			REPEAT		ATYPES
					BV	Acid		ORIGINAL JOB NO.	ORIGINAL QS. NO.	
CA 2139	100208	1.0 940			1.0	1.0				IIFB/BNA
CA 2140	100208	1.0 900			1.0	1.0				
CA 1907	100211	1.0 940			1.0	1.0				
/										
70087	VERIFY SPIKE	1.0 1000			1.0	1.0				
70087	1.0 1000	1.0 1000			1.0	1.0				
CA 1907	1.0 10.11.89	1.0 960			1.0	1.0				
CA 1907	1.0 10.11.89	1.0 960			1.0	1.0				

COMMENTS: Cont. ON TIME BN : 6.00 pm at 10.11.89  
 off 10.00 am 10.12.89  
 acid on 4:00 pm 10.13.89  
 off 9:00 am 10.14.89  
 Spiked by: RC 10.11.89

PROCEDURE	SIGNATURE	DATE
<input checked="" type="checkbox"/> CONTINUOUS	J. Vayda RC	10.11.89
<input type="checkbox"/> SEP. FUNNEL	NA	
<input type="checkbox"/> SOXHLET		
<input type="checkbox"/> SONIFICATION		
<input type="checkbox"/> DILUTION		
<input type="checkbox"/> DERIVATION		
<input type="checkbox"/> CLEANUP		
<input checked="" type="checkbox"/> SETUP	RC J. Vayda	10.11.89
<input checked="" type="checkbox"/> CONCENTRATION	RC	10.20.89
<input checked="" type="checkbox"/> SUPERVISOR		

- MATRIX
- 1 WATER
  - 2 SOIL
  - 3 COMPLEX
  - 4 ORGANIC LIQ.

- UPDATES
- QS
  - WIP
  - DONE

EHD: 10.11.89

SPIKE	VOL ml	CONC ug/ml	LOT NUMBER
IIFB/BNA	1.0	100/200	22015
MATRIX SPIKE			
/			
SURROGATES	VOL ml	CONC ug/ml	LOT NUMBER
IIFB/SW 846	1.0	100/200	21589
BNA SURR.			

9840

REUSED TAP H<sub>2</sub>O NUMBER NA 10/27/89

LABORATORY CHRONICLE: Sample Preparation Department

QC BATCH NO: QC 70091

JOB NO.	LOGLINK	SAMPLE AMT ml gm	MOIST %	DRY WGT gm	EXTRACT VOL (ml)		REPEAT		ATYPES
					F.V.	F.V.	ORIGINAL JOB NO.	ORIGINAL OS. NO.	
					BN	Acid			
CA2147	100217	10	890		1.0	1.0			1 IFB   BNA.
CA2148	↓	10	900		1.0	1.0			↓
CA2271	100217	10	1000		1.0	1.0			↓
<del>.....</del>									
QC 70091	VERIFY SPIKE	10	1000		1.0	1.0			
QC 70091	10.13.89	10	1000		1.0	1.0			
MS									
CA2271	10.13.89	10	1000		1.0	1.0			
CA2271	10.13.89	10	1000		1.0	1.0			
MS									
MS									

1  
2  
3

4  
5  
6  
7

COMMENTS: \* TAP H<sub>2</sub>O used for ms; msd.

PROCEDURE	SIGNATURE	DATE
<input type="checkbox"/> CONTINUOUS	NA	
<input checked="" type="checkbox"/> SEP. FUNNEL	RC	10.13.89
<input type="checkbox"/> SOXHLET		
<input type="checkbox"/> SONIFICATION		
<input type="checkbox"/> DILUTION		
<input type="checkbox"/> DERIVATION		
<input type="checkbox"/> CLEANUP		
<input checked="" type="checkbox"/> SETUP	RC	10.13.89
<input checked="" type="checkbox"/> CONCENTRATION	J. Garcia	10.23.89
<input checked="" type="checkbox"/> SUPERVISOR	S. Valda	10.23.89

SPIKE	VOL ml	CONC ug/ml	LOT NUMBER
IFB   BNA	1.0	100   200	22015
MATRIX SPIKE			
<del>.....</del>			
<del>.....</del>			
SURROGATES	VOL ml	CONC ug/ml	LOT NUMBER
IFB   SWS46	1.0	100   200	21,589
BNA SURR.			

- MATRIX
- 1 WATER
  - 2 SOIL
  - 3 COMPLEX
  - 4 ORGANIC LIQ.

- UPDATES
- OS
  - WIP
  - DONE

EHD: 10.25.89  
Re

985



Date 11-8-89 Instr. G

② 11-30-89

A-Type ZEB/BNA  
 Tune file MTG001  
 Seq. file GGG  
 Method file BNA4  
 ID file IG0/28  
 CB file CG0/28  
 Analyst/Group Changhato

Standard	Conc ppm	Lot No.	Lot Vol.
DFTPP	50	20981	
I. S.	4000	21077	
BNA_Calib_I	20	21822	
BNA_Calib_II	50	21821	
BNA_Calib_III	80	21820	
BNA_Calib_IV	120	21823	
BNA_Calib_V	160	21819	
PST_Calib_V	160	-	

Batch #'s QC 70077

Standards Updated  
 Date 11-9-89 By CA

Sample # R00081 Inj. 2 ul

Seq #	NAME	DATA File	init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	IP
1	DFTPP	>G8947		1		15:16	OK 63 (ENH)	
2	BNASTDII	>G8948		2		15:42	CORRD 11-9-89 CA ORSH	
3	BNASTD160PPM	>G8974		96		16:37		
4	BNASTD120PPM	>G8975		97		17:34		
5	BNASTD80PPM	>G8976		98		18:30		
6	BNASTD20PPM	>G8977		99		19:27		
7	DFTPP	>G8978		1		20:20		OK 61 (ENH)
8	BNASTD50PPM	>G8979		2		20:45	OK, CAL 11-9-89	
9	CA1949C	>G8949	27.95	16		21:40	OK	Y
10	CA1950C	>G8950	26.41	17		22:36	OK	Y
11	CA1951C	>G8951	24.91	18		23:33	OK	Y
12	CA1952C	>G8952	25.82	19		00:28	OK	Y
13	CA1953C	>G8953	27.91	20		01:25	OK	Y
14	CA1954C	>G8954	27.94	21		02:22	OK	Y
15	CA1963C	>G8955	27.93	22		03:18	OK	Y
16	CA1964C	>G8956	27.96	23		04:15	OK	Y

R : redo , A or P : Arocoln search , Y : Plus search

Date 11-13-89 Instr. 4

11-29-89

A-Type IFB/BNA  
 Tune file MTG001  
 Seq. file CAG  
 Method file BNA 4  
 ID file IG 0130  
 CB file CG 0128  
 Analyst W. J. ...  
 Reviewed by/Date \_\_\_\_\_

Standard	Conc ppm	Lot No.	Lot Vol.
DFTPP	50	20981	
I. S.	4000	21077	
BNA_Calib_I	20	21822	
BNA_Calib_II	50	21821	
BNA_Calib_III	80	21820	
BNA_Calib_IV	120	21823	
BNA_Calib_V	160	21819	
PST_Calib_V	160	-	

Batch #'s QC 70081, QC 70076

QC 70087, QC 70091, QC 70092

Standards Updated \_\_\_\_\_  
 Date \_\_\_\_\_ By \_\_\_\_\_

Tap # \_\_\_\_\_ Inj. \_\_\_\_\_ ul

Seq	NAME	DATA File	init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	P
1	DFTPP	>G9010		1		14:49	OK	
2	BNASTDII	>G9011		2		15:09	OK, RECAL 11-13-89	
3	QC70081C	>G9012	1000.	3		16:24	OK	Y
4	CA1381CS	>G9013	980.0	4		17:19	OK	
5	CA1381CR	>G9014	940.0	5		18:15	OK	
6	CA1379C	>G9015	920.0	6		19:11	OK	Y
7	CA1380C	>G9016	920.0	7		20:08	OK	Y
8	CA1381C	>G9017	920.0	8		21:03	OK	Y
9	GPCBLK	>G9018	30.00	9		21:59	OK	
10	QC70076C	>G9019	30.00	10		22:55	OK	Y
11	QC70076CS	>G9020	30.00	11		23:52	OK	
12	QC70081CS	>G9021	1000.	12		00:47	OK	
13	DFTPP	>G9022		1		01:38	OK	
14	BNASTDII	>G9023		2		01:59	OK, RECAL 11-14-89	
15	CA1368CS	>G9024	25.80	15		02:53	OK	
16	CA1368CR	>G9025	25.81	16		03:49	OK	

R : redo , A or P : Arocoln search , Y : Plus search

Date 11-14-89 Analyst Changhoo Seq. file CAG

Batch #'s QC70076, QC70087, QC70092 Reviewed by/Date JDM 11/23/89

Seq R#	NAME	DATA File	init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	P
17	CA2013C	>G9026	24.92	17		04:44		Y
18	CA1369C	>G9027	23.16	18		05:40	need reprint	Y
19	CA1370C	>G9028	24.05	19		06:36	need reprint	Y
20	CA1365C	>G9029	24.96	20		07:32	OK	Y
21	CA1366C	>G9030	24.04	21		08:28	need reprint	Y
22	CA1367C	>G9031	21.92	22		09:27	OK	Y
23	CA1368C	>G9032	25.87	23		10:24	need reprint	Y
24	CA2288C	>G9033	24.61	24		11:19	OK	Y
25	CA2291C	>G9034		25		13:51	for QC70100 ↓	
26	DFTPP	>G9035		1		16:43	OK	
27	BNASTDII	>G9036		2		17:03	OK, QCAL 11-15-89	
28	CA2013C	>G9037	24.92	3		17:59	OK	
29	CA1369C	>G9038	23.16	4		18:53	OK	
30	CA1365C	>G9039	24.96	5		19:49	OK	
31	CA1367C	>G9040	21.92	6		20:45	OK	
32	QC70087C	>G9041	1000.	7		21:40	OK	Y
33	CA1907CS	>G9042	960.0	8		22:36	need reprint	
34	CA1907CR	>G9043	960.0	9		23:31	OK	
35	CA1907C	>G9044	940.0	10		00:26	need reprint	Y
36	CA2139C	>G9045	940.0	11		01:22	3 acids out. Re-DO	Y
37	CA2140C	>G9046	900.0	12		02:18	need reprint	Y
38	QC70087CS	>G9047	1000.	13		03:13		
39	QC70092CS	>G9048	1000.	14		04:09		
40	DFTPP	>G9049		1		05:00		

R : redo , A or P : Arocol search , Y : Plus search

Date 11-15/16-89 Analyst Chang Seq. file DAG  
Batch #'s QC70092, QC70091 Reviewed by/Date 11/15/89 JJA

Seq R: #	NAME	DATA File	init. (ALS vol. #	Dil	Inj. Time	Specials (A-Type / Comments)	P
41	BNASTDII	>G9050	2		05:22		
42	QC70092C	>G9051	1000. 17		06:18	OK, QCAL 11-15-89	Y
43	CA1889C	>G9052	910.0 18		07:14	OK	Y
44	CA1890C	>G9053	920.0 19		08:10	OK	Y
45	CA1892C	>G9054	920.0 20		09:06	OK	Y
46	CA1908C	>G9055	850.0 21		10:01	OK	Y
47	CA2141C	>G9056	860.0 22		10:57	OK	Y
48	CA2142C	>G9057	920.0 23		11:53	OK	Y
49	CA2143C	>G9058	850.0 24		12:57	OK	Y
50	CA2149C	>G9059	960.0 25		13:53	OK	Y
51	CA2151C	>G9060	880.0 26		14:49	OK	Y
52	CA1891C	>G9061	960.0 27		15:46	OK	Y
53	DFTPP	>G9062	1		16:41	OK	
54	BNASTDII	>G9063	2		17:02	OK, QCAL 11-16-89	
55	CA2144C	>G9064	950.0 30		17:58	OK	
56	CA2145C	>G9065	880.0 31		18:54	3 Acids out Re-do	
57	CA2146C	>G9066	900.0 32		19:49	3 Acids out Re-do	
58	CA2152C	>G9067	870.0 33		20:44	OK	
59	QC70091C	>G9068	1000. 34		21:40	OK	
60	CA2271CS	>G9069	1000. 35		22:36	OK need adjust	
61	CA2271CR	>G9070	1000. 36		23:31	OK	
62	CA2147C	>G9071	890.0 37		00:27	OK 2 Acids out Re-do	
63	CA2148C	>G9072	900.0 38		01:24	need adjust	
64	CA2271C	>G9073	1000. 39		02:22	yellow color	

R : redo , A or P : Arocol search , Y : Plus search

Date 11-16-87 Analyst [Signature] Seq. file CAG

Batch #'s QC 70091 Reviewed by/Date [Signature] 11/21/87

R:	Seq #	NAME	DATA File	Init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	P
	65	QC70091CS	>G9074	1000.	40		03:18	<i>dark color.</i>	

R : redo , A or P : Arocolor search , Y : Plus search

JOB NO.	LOGLINK	SAMPLE AMT ml gm	MOIS <sup>2</sup>	DRY WGT <sup>3</sup> 3m	EXTRACT VOL (ml)		REPEAT		A TYPES
					BW	D	ORIGINAL JOB NO.	ORIGINAL CS. NO.	
1	100208	450			1.0	1.0	CA2139	70087	1 IFB/BNA
2	100216	910			1.0	1.0	CA2145	70092	
3		920			1.0	1.0	CA2146	↓	
4	100217	890			1.0	1.0	CA2142	70091	
5							CA2148	↓	
⊕ 6	100217	1000			1.0	1.0			** N/A 11/21/89
<i>(Large diagonal line across the table)</i>									
7	100219	1000			1.0	1.0			
8	100219	1000			1.0	1.0			
⊕ 9	100227	1000			1.0	1.0			
⊕ 10	100227	1000			1.0	1.0			

COMMENTS. ⊕ - TAP H<sub>2</sub>O  
 \*\* - Lost from broken glassware when concentrating  
 AA 11/21/89

PROCEDURE	SIGNATURE	DATE	SPIKE	VOL (ml)	CONC (μg/ml)	LOT NUMBER
<input type="checkbox"/> CONTINUOUS	N.A.		IFB BNA			
<input checked="" type="checkbox"/> SEP FUNNEL	<i>[Signature]</i>	11.20.89	MATRIX SPIKE	1.0	100/200	22015
<input type="checkbox"/> SOXHLET	N.A.		<i>(Large diagonal line)</i>			
<input type="checkbox"/> SONIFICATION						
<input type="checkbox"/> DILUTION						
<input type="checkbox"/> DERIVATION						
<input type="checkbox"/> CLEANUP						
<input checked="" type="checkbox"/> SETUP	<i>[Signature]</i>	11.20.89				
<input checked="" type="checkbox"/> CONCENTRATION	<i>[Signature]</i>	11.21.89				
<input checked="" type="checkbox"/> SUPERVISOR	<i>[Signature]</i>	11.21.89				
MATRIX			SURROGATES			
<input checked="" type="checkbox"/> 1 WATER	UPDATES					
<input type="checkbox"/> 2 SOL	<input type="checkbox"/> OS		IFB/BNA			
<input type="checkbox"/> 3 COMPLEX	<input type="checkbox"/> WIP		BNA SURR.	1.0	100/100	22052
<input type="checkbox"/> 4 ORGANIC L.O.	<input type="checkbox"/> DONE					

Date 11-16-89 Instr. G

A-Type 2FB/BNA  
Tune file MTG001  
Seq. file CAG  
Method file BNA G  
ID file IG0131  
CE file CG0128  
Analyst [Signature]  
Reviewed by/Date [Signature]

Batch #s QC7007, QC7010  
QC7007, QC7009

Standards Updated \_\_\_\_\_  
Date \_\_\_\_\_ By \_\_\_\_\_

Tape # \_\_\_\_\_ Inj. \_\_\_\_\_ ul

Standard	Conc ppm	Lot No.	Lot Vol.
DFTPP	50	20981	
I. S.	4000	21077	
BNA_Calib_I	20	21822	
BNA_Calib_II	50	21821	
BNA_Calib_III	90	21820	
BNA_Calib_IV	120	21823	
BNA_Calib_V	160	21819	
PST_Calib_V	160	-	

Seq #	NAME	DATA File	Inst. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	IP
1	DFTPP	>G9075		1		14:06		
2	BNASTDII	>G9076		2		14:26		
R 3	CA1907CS	>G9077	960.0	3		15:30	OK QC70087	
R 4	CA1907C	>G9078	940.0	4		16:27	OK QC70087	
R 5	CA2140C	>G9079	900.0	5		17:22	OK QC70087	
6	CA2291C	>G9080	26.11	6		18:18	OK QC70100 before a/c clean	
7	CA2292C	>G9081	21.34	7		19:13	OK QC70100	
8	CA2289C	>G9082	24.94	8		20:10	OK QC70100	
9	CA2290C	>G9083	22.82	9		21:08	OK QC70100	
R 10	CA1950C	>G9084	26.41	10		22:03	OK QC70077	
R 11	CA1962C	>G9085	26.12	11		22:59	NG, Confirmed	
R 12	CA1954C	>G9086	27.94	12		23:55	OK	
R 13	CA2271CS	>G9087	1000.	13		00:50	OK QC70091	
R 14	CA2148C	>G9088	900.0	14		01:43		
R 15	CA2271C	>G9089	1000.	15		02:42		

R : redo , A or P : Anacoln search , Y : Plus search

Date 11-28-89 Instr. G

CA 11-29-89

A-Type IFB/BNA  
 Tune file MTG001  
 Seq. file CAG  
 Method file BNA G  
 ID file IG 0134  
 CB file CG 0135  
 Analyst [Signature]  
 Reviewed by/Date \_\_\_\_\_

Batch #'s QC87921

Standard	Conc ppm	Lot No.	Lot Vol.
DFTPP	50	20981	
I. S.	4000	21077	
BNA_Calib_I	20	21822	
BNA_Calib_II	50	21821	
BNA_Calib_III	80	21820	
BNA_Calib_IV	120	21823	
BNA_Calib_U	160	21819	
PST_Calib_U	160	-	

Standards Updated \_\_\_\_\_

Date \_\_\_\_\_ By \_\_\_\_\_

Tap # R00086 Inj. ul

Seq (R)	#	NAME	DATA File	init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	IP
1		DFTPP	>G9193		1		16:31	OK	
2		BNASTDII	>G9194		2		16:51	OK, QCAL 11-29-89	
3		QC87921C	>G9195	1000.	3		17:44		
4		CA2145C	>G9196	910.0	4		18:38	QC70092	
5		CA2146C	>G9197	920.0	5		19:31	QC70092	
6		CA2147C	>G9198	890.0	6		20:24	QC70091	
7		CA2139C	>G9199	950.0	7		21:17	QC70087	
8		C CA2273C	>G9200	1000.	8		22:11		
9		CS CA2273CS	>G9201	1000.	9		23:04		
10		CR CA2273CR	>G9202	1000.	10		23:57		
11		CA2405C	>G9203	9.91	11	5	00:51	QC70102	
12		CA2406C	>G9204	25.86	12	5	01:45	QC70102	
13		QC87921CS	>G9205	1000.	13		02:38		
14		DFTPP	>G9206		1				
15		BNASTDII	>G9207		2				
16		QC70077R	>G9208	30.00	16				

R : redo , A or P : Aracalr search , Y : Plus search



REVISED CA 215D WA 10/19/89

LABORATORY CHRONICLE: Sample Preparation Department

QC BATCH NO: QC 70092

I NO.	LOGLINK	SAMPLE AMT ml gm	MOIST %	DRY WGT gm	EXTRACT VOL (ml)		REPEAT		ATYPES
					BN	ACIN	ORIGINAL JOB NO.	ORIGINAL OS. NO.	
889	100211	1.470			1.0	1.0			1 IFB   BNA
890		1.470			1.0	1.0			
892		1.470			1.0	1.0			
909	↓	1.4850			1.0	1.0			
2141	100215	1.4860			1.0	1.0			
142		1.4920			1.0	1.0			
143		1.4850			1.0	1.0			
1450		1.4960			1.0	1.0			
2151	↓	1.4880			1.0	1.0			
891	100216	1.4960			1.0	1.0			
144		1.4950			1.0	1.0			
145		1.4880			1.0	1.0			
146		1.4900			1.0	1.0			
52	↓	1.4870			1.0	1.0			↓
172	VERIFY SPIKE	1.41000			1.0	1.0			
1092	1.41000	1.41000			1.0	1.0			

REMARKS: BN ON TIME 7:00 PM 10-12-89 AID ON TIME: 4:00 PM 10-13

OFF TIME 11:00 AM 10-13-89

Sample put in wrong bottle off time 11:00 AM 10-14-89

picked by: RC 10-12-89 labelled CA 215D as per T. Wally 10/19/89

PROCEDURE	SIGNATURE	DATE
CONTINUOUS	<u>I. VASDA</u>	10-12-89
EP. FUNNEL	<u>I. VASDA</u>	10-12-89
OXHLET	<u>NA</u>	
SONIFICATION		
DILUTION		
EXTRATION		
SETUP	<u>RC</u>	10-12-89
CONCENTRATION	<u>RC</u>	10-19-89
SUPERVISOR	<u>I. VASDA</u>	10-19-89

SPIKE	VOL ml	CONC ug/ml	LOT NUMBER
IFB   BNA	1.0	100/200	21489
MATRIX SPIKE			
/			
SURROGATES	VOL ml	CONC ug/ml	LOT NUMBER
IFB SW 846	1.0	100/200	21489
BNA SURR.			274

- MATRIX WATER
- 2 SOIL
- 3 COMPLEX
- 4 ORGANIC LIQ.

UPDATES  
 OS  
 WIP  
 DONE  
 Rec 10/17, 10/11  
 EHO: 10-12-89

Date 11-29-89 Instr. G

?-Type ZFB/BNA  
 Tune file MTG001  
 Seq. file GGG  
 Method file BNAG  
 ID file 360134  
 CB file CA0125  
 Analyst [Signature]  
 Reviewed by/Date \_\_\_\_\_  
 Batch #'s QR 70077

Standard	Conc ppm	Lot No.	Lot Vol.
DFTPP	50	20981	
I. S.	4000	21077	
BNA_Calib_I	20	21822	
BNA_Calib_II	50	21821	
BNA_Calib_III	80	21820	
BNA_Calib_IV	120	21823	
BNA_Calib_V	160	21819	
PST_Calib_V	160	-	

Standards Updated  
 Date \_\_\_\_\_ By \_\_\_\_\_

Tape # \_\_\_\_\_ Inj. \_\_\_\_\_ ul

Seq #	NAME	DATA File	init. vol.	ALS #	Dil	Inj. Time	Specials (A-Type / Comments)	P
1	DFTPP	>G9206		1		11:41	DK, <del>REAL 11-29-89</del> (Diluted)	
2	BNASTDII	>G9207		2		12:01	DK REAL 11-29-89	
3	QC70077R	>G9208	30.00	16		13:03	DK	
4	GPCBLK	>G9209	30.00	17		13:56	DK	
5	CA1950CS	>G9210	26.41	18		14:49	DK	
6	CA1950CR	>G9211	26.49	19		15:43	DK	
7	CA1954CS	>G9212	27.91	20		16:36	DK	
8	CA1954CR	>G9213	27.92	21		17:28	DK	
9	DFTPP	>G9217		1		08:25	DK	
10	BNASTDII	>G9218		2		08:47	DK REAL 11-30-89	
11	CA2144C	>G9227	950.0	25	10	09:49	DK, for QC 70092	
12	CA1938CS	>G9214	27.96	22				
13	CA1938CR	>G9215	27.99	23				
14	QC70077CS	>G9216	30.00	24				
15	CA1954C	>G9219	27.96	27				
16	CA1963C	>G9220	27.97	28				

R : redo , A or P : Arcolor search , Y : Plus search

LABORATORY CHRONICLE Sample Preparation Department

QC BATCH NO: 70030

JOB NO.	LUGLINK	SAMPLE AMT (ml/gm)	MOIST %	DRY WGT 9m	EXTRACT VOL (ml)		REPEAT		ATYPES
					FV	DT	ORIGINAL JOB NO.	ORIGINAL QS. NO.	
1	CA 2139	100208	11.900		16.0				1 I FB   P 57   P 03
2	CA 2140	100208	11.900		16.6				
3	CA 1907	100211	11.940		16.6				
/									
4	70030	VERIFY SPIKE	11.1000		10.0				
5	70030	11.10.89	11.1000		10.0				
6	CA 1707	11.10.89	11.940		10.0				
7	CA 1707	11.10.89	11.940		10.0				

COMMENTS: Cont. IN TIME : 6.00 PM dt. 10.11.89  
 TIME OFF : 10.00 AM 10.12.89

PROCEDURE  
 CONTINUOUS  
 SEP. FUNNEL  
 SOXHLET  
 SONIFICATION  
 DILUTION  
 DERIVATION  
 CLEANUP  
 SETUP  
 CONCENTRATION  
 SUPERVISOR

SIGNATURE  
 [Signature]  
 NA  
 [Signature]  
 [Signature]

DATE  
 10.11.89  
 \_\_\_\_\_  
 10.11.89  
 10.12.89  
 10.12.89

MATRIX  
 1 WATER  
 2 SOL  
 3 COMPLEX  
 4 ORGANIC LIQ.

UPDATES  
 OS  
 WIP  
 DONE

E-0 10.11.89

SPIKE	VOL ml	CONC ug/ml	LOT NUMBER
IFB   P 57	1.0	0.205	21694
/			
SURROGATES	VOL ml	CONC ug/ml	LOT NUMBER
DEC SURR	1.0	1.0	21693

Date 11/07/89 Instr. JA

A-Type LEB/PST/PCB  
 Column 58.502250/1.95%SP2401  
 Col. Lot T30744  
 Calib. File -  
 Seq. File JA1107  
 Method file LEBPTA  
 ID file 1048 IP  
 Config. file -  
 Analyst/Group John R. King (CPL)  
 Batch #'s 0670048/30

Standard Updated -  
 Date 11/08/89 By WRT

Tape # DO0606 Inj. 2 ul

Standard	Conc. ppm	Lot No.	Standard	Conc. ppm	Lot No.
Eval. A	Mix	22135	AR1254_II	.50	21682
Eval. B	Mix	22136	AR1260_II	.50	21635
Eval. C	Mix	22137			
Ind. A	Mix	22105			
Ind. B	Mix	22111			
DD_I	.01	NMR			
DD_II	.05				
DD_III	.20	↓			
Toxaph_II	1.0	22098			
Chlord_II	.50	NMR			
AR1016_II	.25	21642			
AR1221_II	.25	21648			
AR1232_III	.25	21654			
AR1242_III	.25	21663			
AR1248_III	.25	21668			

Seq #	NAME	Date	File	init. vol.	ALS #	Dil	Specials (A-Type or Comments)
1	EVALA	>JA470	ECD		1		
2	EVALB	>JA471			2		
3	EVALC	>JA472			3		
4	INDA	>JA473			4		
5	INDE	>JA474			5		
6	DDI	>JA475			6		
7	DDII	>JA476			7		
8	DDIII	>JA477			8		
9	TOXAPH	>JA478			9		
10	AR1016	>JA479			10		
11	AR1221	>JA480			11		
12	AR1232	>JA481			12		
13	AR1242	>JA482			13		
14	AR1248	>JA483			14		
15	AR1254	>JA484			15		
16	AR1260	>JA485			16		

R : redo

ETC Corp.

LABORATORY RONICLE : GC Department

page 2 of 2

Date 11/07/89 A-Type IPB/OST/PCLB Group CLP1 Seq. file JA1107,

Batch #'s QG70048/30 Analyst James DuYong (CLP1)

Seq #	NAME	Data File		init. vol.	ALS #	Dil	Specials (A-Type or Comments)
		Detec.1	Detec.2				
		<i>ECD</i>					
17	QC70048G	>JA486		1000.	17		
18	CA1895G	>JA487		960.0	18		
19	CA1896G	>JA488		880.0	19		
20	CA1897G	>JA489		900.0	20		
21	CA2136G	>JA490		940.0	21		
22	EVALB	>JA491			2		
23	CA2137G	>JA492		980.0	22		
24	CA2138G	>JA493		950.0	23		
25	QC70048GS	>JA494		1000.	24		
26	QC70030G	>JA495		1000.	25		
27	QC70030GS	>JA496		1000.	26		
28	INDA	>JA497			4		
29	CA1907G	>JA498		940.0	27		
30	CA1907GS	>JA499		940.0	28		
31	CA1907GR	>JA500		940.0	29		
32	CA2139G	>JA501		900.0	30		
33	CA2140G	>JA502		900.0	31		
34	EVALB	>JA503			2		
35	INDA	>JA504			4		
36	INDB	>JA505			5		

R : redo

Date 11/20/89 Instr. KB

A-Type IFB/PST/PCB  
 Column 3%SP2100  
 Col. Lot T30419  
 Calib. File ---  
 Seq. File KT1120  
 Method file IFBPKB  
 ID file T042TC  
 Config. file ---  
 Analyst *Hans-Joerg*  
 Reviewed by/Date ---  
 Batch #'s 0670048/0670030

Standard Updated ---  
 Date 11/20/89 By *JK*

Tape # W00114 In: 2.0ul

Standard	Conc. ppm	Lot No.	Standard	Conc. ppm	Lot No.
Eval A	Mix	22135			
Eval B	↓	22136			
Eval C		22137			
Ind A		21612			
Ind B	↓	21170			

Seq#	RI #	NAME	Data File	Detec. 1	Detec. 2	Inst.	ALS	Vol.	#	Dil	Specials (A-Type or Comments)
					<u>ECD</u>						
	1	EVALA			>KB140				1		
	2	EVALB			>KB141				2		
	3	EVALC			>KB142				3		
	4	INDA			>KB143				4		
	5	INDB			>KB144				5		
	6	QC70048			>KB145			1000.	6		
	7	CA1895			>KB146			960.0	7		
	8	CA1896			>KB147			880.0	8		
	9	CA1897			>KB148			900.0	9		
	10	QC70030			>KB149			1000.	10		
	11	EVALB			>KB150				11		
	12	CA1907			>KB151			940.0	12		
	13	CA2140			>KB152			900.0	13		
	14	INDA			>KB153				14		
	15	INDB			>KB154				15		

R : redo

LABORATORY CHRONICLE: Sample Preparation Department QC BATCH NO: 0670049

1  
2  
3

JOB NO.	LOGLINK	SAMPLE AMT (mg)	MOIST %	DRY WGT (gm)	EXTRACT VOL (ml)	REPEAT		ATYPES				
						ORIGINAL JOB NO.	ORIGINAL OS. NO.	1	TFB	PST	PCB	
CA2147	100218	14910			10.0							
CA2148	↓	14950			10.0							
CA2271	100217	141000			10.0							
/												
70049	VERIFY SPIKE	141000			10.0							
063049	141013.64	141000			10.0							
11271	141013.89	141000			10.0							
11271	141013.24	141000			10.0							

4  
5  
6  
7

COMMENTS: \* TAP H<sub>2</sub>O used for MS; MSD.

PROCEDURE	SIGNATURE	DATE	SPIKE	VOL (ml)	CONC (ug/ml)	LOT NUMBER
<input type="checkbox"/> CONTINUOUS	NA		TFB/PCB	1.0	0.2/0.5	31694
<input checked="" type="checkbox"/> SEP. FUNNEL	J. Vaida	10.13.89	SPIKE			
<input type="checkbox"/> SOXHLET			/			
<input type="checkbox"/> SONIFICATION						
<input type="checkbox"/> DILUTION						
<input type="checkbox"/> DERIVATION						
<input checked="" type="checkbox"/> CLEANUP	J. Vaida	11.04.89				
<input checked="" type="checkbox"/> SETUP	J. Vaida	10.13.89				
<input checked="" type="checkbox"/> CONCENTRATION	J. Vaida	11.04.89				
<input checked="" type="checkbox"/> SUPERVISOR	J. V.	11.04.89				
MATRIX <input checked="" type="checkbox"/> 1 WATER <input type="checkbox"/> 2 SOL <input type="checkbox"/> 3 COMPLEX <input type="checkbox"/> 4 ORGANIC LIQ.			UPDATES <input checked="" type="checkbox"/> OS <input checked="" type="checkbox"/> W/P <input type="checkbox"/> DONE REC 10/12 RC EMO: 10-15-89 117			
			SURROGATES	VOL (ml)	CONC (ug/ml)	LOT NUMBER
			DBC SURR.	1.0	1.0	31693

1000

Date 11/16/89 Instr. KB

A-Type 1FB/ECRA/PST/PCB  
 Column 374P-2100  
 Col. Lot \_\_\_\_\_  
 Calib. File \_\_\_\_\_  
 Seq. File KB1116  
 Method file 1FB/PCB  
 ID file T049 IP  
 Configu. file \_\_\_\_\_  
 Analyst Yam Puff  
 Reviewed by/Date JF/11/89  
 Batch #'s QA70049/56 JF

Standard	Conc. ppm	Lot No.	Standard	Conc. ppm	Lot No.
Eval.A	Mix	22135	AR1254_II	.50	21682
Eval.B	Mix	22136	AR1260_II	.50	21635
Eval.C	Mix	22137			
Ind.A	Mix	22105			
Ind.B	Mix	22111			
DD_I	.01	NMTR			
DD_II	.05				
DD_III	.20				
Toxaph_II	1.0	22098			
Chlord_II	.50	21711			
AR1016_II	.25	21642			
AR1221_III	.25	21648			
AR1232_III	.25	21654			
AR1242_III	.25	21665			
AR1248_III	.25	21668			

Standard Updated \_\_\_\_\_  
 Date 11/16/89 By WT/KT

Tap # W001N3 Inj. 2 ul

Seq. #	NAME	Data File	Detec.1	Detec.2	Unit. vol.	ALS #	Dil	Specials (A-Type or Comments)
1	EVALA			>KB085		1		
2	EVALB			>KB086		2		
3	EVALC			>KB087		3		
4	INDA			>KB088		4		
5	INDB			>KB089		5		
6	TOXAPH			>KB090		6		
7	CHLORD			>KB091		7		
8	AR1016			>KB092		8		
9	AR1221			>KB093		9		
10	AR1232			>KB094		10		
11	AR1242			>KB095		11		
12	AR1248			>KB096		12		
13	AR1254			>KB097		13		
14	AR1260			>KB098		14		
15	QC70049G			>KB099	1000.	15		
16	CA2271GS			>KB100	1000.	16		

R : redo

1001



Date 11/16/89 Analyst [Signature] Seq. file KB1116,Batch #'s QC70049 / 70056 Reviewed by/Date [Signature] 11/16/89

Seq R #	NAME	Data File		init. vol.	ALS #	Dil	Specials (A-Type or Comments)
		Detec.1	Detec.2				
17	CA2271GR		>KB101 <i>ECD</i>	1000.	17		
18	CA2147G		>KB102	910.0	18		
19	CA2148G		>KB103	930.0	19		
20	EVALB		>KB104		2		
21	CA2271G		>KB105	1000.	20		
22	QC70049GS		>KB106	1000.	21		
23	QC70056G		>KB107	1000.	22		
24	CA2357GS		>KB108	910.0	23		
25	CA2357GR		>KB109	910.0	24		
26	INDA		>KB110		4		
27	CA2357G		>KB111	900.0	26		
28	CA2358G		>KB112	890.0	27		
29	QC70056GS		>KB113	890.0	28		
30	EVALB		>KB114		2		
31	INDA		>KB115		4		
32	INDB		>KB116		5		

R : redo 1002

REVISED LOG WORKED 10/19/89

LABORATORY CHRONICLE: Sample Preparation Department QC BATCH NO: QG 70050

JOB NO.	LOGLINK	SAMPLE AMT ml/gm	MOIST %	DRY WGT gm	EXTRACT VOL (ml)		REPEAT		A TYPES	
					PST	PcB	ORIGINAL JOB NO.	ORIGINAL QS. NO.		
1	CA1889	100211	920		10.0				1 IFB   PST   PcB	
2	CA1890		930		10.0					
3	CA1892		940		10.0					
4	CA1908	↓	850		10.0					
5	CA2141	100215	830		10.0					
6	CA2142		940		10.0					
7	CA2143		990		10.0					
8	CA2150		950		10.0					
9	CA2151	↓	950		10.0					
10	CA1891	100216	830		10.0					
11	CA2144		970		10.0					
12	CA2145		890		10.0					
13	CA2146		900		10.0					
14	CA2152	↓	800		10.0					
<hr/>										
15	QG 70050	VERIFY SPIKE			10.0					
16	QG 70050	P 10.12.84			10.0					
<hr/>										

COMMENTS: On: 7:00 pm 10.12.84 off: 12:00 noon 10.13.89  
Spiked by: RC 10.12.89  
Sample put in micron bottle labelled CA2150 as per R. Walla 10/19/89

PROCEDURE	SIGNATURE	DATE
<input checked="" type="checkbox"/> CONTINUOUS	J. Vajda	10.12.89
<input type="checkbox"/> SEP. FUNNEL	NA	
<input type="checkbox"/> SOXHLET		
<input type="checkbox"/> SONIFICATION		
<input type="checkbox"/> DILUTION		
<input type="checkbox"/> DERIVATION		
<input checked="" type="checkbox"/> CLEANUP Alum.	J. Vajda	10.12.89
<input checked="" type="checkbox"/> SETUP	J. Vajda	10.12.89
<input checked="" type="checkbox"/> CONCENTRATION	RC	10.12.89
<input checked="" type="checkbox"/> SUPERVISOR	J. Vajda	10.12.89

SPIKE	VOL ml	CONC ug/ml	LOT NUMBER
IFB   PEST	1.0	0.2   0.5	21699
SPIKE			
<hr/>			
<hr/>			
SURROGATES	VOL ml	CONC ug/ml	LOT NUMBER
DBC SURR.	1.0	1.0	21693

MATRIX

1 WATER

2 SOIL

3 COMPLEX

4 ORGANIC LIQ.

UPDATES

OS

WIP

DONE

10/7-10-11

EHO: 10.12.89

1033

Date 11/14/89 Instr. HA

A-Type TEB/PST/PCB  
 Column 15%SP2250/195%SP2401  
 Col. Lot T 51045  
 Calib. File —  
 Seq. File HA1114  
 Method file TEBPHA  
 ID file T050TP  
 Configu. file E0060P/E0055P  
 Analyst Ross Smith/ICPI  
 Reviewed by/Date [Signature] 11/15/89  
 Batch #'s 0670050/0670055

Standard Updated  
 Date 11/15/89 By 16A

Tape # W0013 Inj. 2.0ul

Standard	Conc. ppm	Lot No.	Standard	Conc. ppm	Lot No.
Eval.A	Mix	22135	AR1254_II	.50	21622
Eval.B	Mix	22136	AR1260_II	.50	21635
Eval.C	Mix	22137			
Ind.A	Mix	22105			
Ind.B	Mix	22111			
IDD_I	.01	—			
IDD_II	.05	—			
IDD_III	.20	—			
Toxaph_II	1.0	22098			
Chlord_II	.50	—			
AR1016_II	.25	21642			
AR1221_II	.25	21643			
AR1232_II	.25	21654			
AR1242_II	.25	21665			
AR1248_II	.25	21668			

Seq #	NAME	Datec.1	File	Detec.2	init. vol.	ALS #	Dil	Specials (A-Type or Comments)
		<u>ECD</u>						
1	EVALA	HA530				1		
2	EVALB	HA531				2		
3	EVALC	HA532				3		
4	INDA	HA533				4		
5	INDB	HA534				5		
6	DDI	HA535				6		NNFR
7	DDII	HA536				7		↓
8	DDIII	HA537				8		
9	TOXAPH	HA538				9		
10	AR1016	HA539				10		
11	AR1221	HA540				11		
12	AR1232	HA541				12		
13	AR1242	HA542				13		
14	AR1248	HA543				14		
15	AR1254	HA544				15		
16	AR1260	HA545				16		

ETC Corp.

LABORATORY CHRONICLE : GC Department

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Date 11/14/89Analyst Kenn Kemp

Seq. file HA1114 ,

Batch #'s 0670050 / 0670055Reviewed by/Date Yorkling 11/15/89

Seq RI #	NAME	Data File		init. vol.	ALS #	Dil	Specials (A-Type or Comments)
		Detec.1	Detec.2				
17	QC70050G	>HA546		1000.	17		
18	CA1889G	>HA547		920.0	18		
19	CA1890G	>HA548		930.0	19		
20	CA1892G	>HA549		940.0	20		
21	CA1908G	>HA550		850.0	21		
22	EVALB	>HA551			22		
23	CA2141G	>HA552		830.0	23		
24	CA2142G	>HA553		940.0	24		
25	CA2143G	>HA554		990.0	25		
26	<del>CA2144G</del> <del>CA2145G</del> <del>CA2150G</del>	>HA555		950.0	26		
27	CA2151G	>HA556		950.0	27		
28	INDA	>HA557			28		
29	CA1891G	>HA558		830.0	29		
30	CA2144G	>HA559		970.0	30		
31	CA2145G	>HA560		890.0	31		
32	CA2146G	>HA561		900.0	32		
33	CA2152G	>HA562		800.0	33		
34	EVALB	>HA563			34		
35	QC70050GS	>HA564		1000.	35		
36	QC70055G	>HA565		1000.	36		
37	CA2150G	>HA566		920.0	37		
38	QC70055GS	>HA567		1000.	38		
39	INDA	>HA568			39		
40	INDB	>HA569			40		

R : redo 1005

Date 11/27/89 Instr. KB

A-Type IFB/PT/PCB, ECR/PCB  
 Column 3ZSP2100  
 Col. Lot T30418  
 Calib. File -  
 Seq. File KB1127  
 Method file IFBPKB  
 ID file I076IC  
 Configu. file E0076C  
 Analyst Karen Taylor  
 Reviewed by/Date ms 11/28/89  
 Batch #'s 0670076/57/50/55

Standard	Conc. ppm	Lot No.	Standard	Conc. ppm	Lot No.
Eval.A	Mix	22/35	AR1254_II	.50	21682
Eval.B	Mix	22/36	AR1260_II	.50	21635
Eval.C	Mix	22/37			
Ind.A	Mix	22/05			
Ind.B	Mix	22/11			
DD_I	.01	UNPR			
DD_II	.05				
DD_III	.20				
Toxaph_II	1.0				
Chlord_II	.50				
AR1016_III	.25				
AR1221_III	.25				
AR1232_III	.25				
AR1242_III	.25				
AR1248_III	.25				

Standard Updated \_\_\_\_\_  
 Date 11/28/89 By MS

Tape # W00114 Inj. 2.0 ul

Seq #	NAME	Date	File	init. vol.	ALS #	Dil	Specials (A-Type or Comments)
			<u>ECD</u>				
1	EVALA		>KB181		1		
2	EVALB		>KB182		2		
3	EVALC		>KB183		3		
4	INDA		>KB184		4		
5	INDB		>KB185		5		
6	AR1254		>KB186		6		
7	AR1260		>KB187		7		
8	QC70076G		>KB188	30.00	8		
9	CA1369G		>KB189	23.16	9		
10	CA1370G		>KB190	24.05	10		
11	CA2103G		>KB191	24.92	11		
12	QC70057G		>KB192	30.00	12		
13	EVALB		>KB193		13		
14	CA2346G		>KB194	25.83	14		
15	CA2347G		>KB195	24.92	15		
16	CA2343G		>KB196	25.21	16		

R : redo

1006

ETC Corp.

LABORATORY CHRONICLE : GC Department

page 2 of 2

Date 11/27/89 Analyst LNT for Karen Taylor Seq. file\_KB1127 ,

Batch #'s QC70057/76/50/55 Reviewed by/Date LNT 11/28/89

Seq RI #	NAME	Data File		init. vol.	ALS #	Dil	Specials (A-Type or Comments)
		Detec. 1	Detec. 2				
17	CA2344G		>KB197	24.32	17		
18	CA2342G		>KB198	24.94	18		
19	INDA		>KB199		19		
20	QC70050G		>KB200	1000.	20		
21	CA1988G		>KB201	1850.0	21		
22	QC70055G		>KB202	1000.	22		
23	CA2150G		>KB203	920.0	23		
24	EVALB		>KB204		24		
25	INDA		>KB205		25		
26	INDB		>KB206		26		

R : redo 1007



ETC

Page 1 of 2

PARAMETER Chlorides  
 METHOD 225.3  
 DATE 10/19/89  
 VERIFIED 10/19/89

S-BATCH QW70080  
 DET. LIMIT 1.0  
 TIME 8:00 am

QC BATCH ATC 04064  
 UNITS mg/l  
 ANALYST JLW

JOB #	PH	DIL	CONC	RESULT	JOB #	PH	DIL	CONC	RESULT
CA 1893	-	-	25.6	2.6	CA 2139	-	-	4.72	4.7
CA 1894	-	-	7.57	7.6	CA 1908	-	-	0.678	BMDL
CA 1996	-	-	0.489	BMDL	CA 1889	-	-	30.1	30.1
CA 1779	-	-	46.4	46.4	CA 1907	-	-	30.3	30.3
CA 1778	-	-	37.0	37.0	CA 1892	-	-	25.9	25.9
CA 1783	-	-	26.0	26.0	CA 1890	-	-	14.8	14.8
CA 1790	-	-	46.6	46.6	CA 2141	-	-	12.7	12.7
CA 1780	-	-	55.7	55.7	CA 2143	-	-	9.53	9.5
CA 1896	-	-	30.7	30.7	CA 2146	-	-	27.3	27.3
CA 1897	-	-	25.2	25.2	CA 2147	-	-	28.3	28.3
CA 1895	-	-	3.56	3.6	CA 2152	-	-	0.400	BMDL
CA 2137	-	-	2.61	2.6	CA 2145	-	-	7.74	7.7
CA 1381	-	-	31.0	31.0	CA 2142	-	-	9.70	9.7
CA 1350	-	-	30.2	30.2	CA 2144	-	-	67.7	67.7
CA 1378	-	-	4.42	4.4	CA 1891	-	-	7.00	7.0
CA 2136	-	-	4.09	4.1	CA 2148	-	-	44.2	44.2
CA 2138	-	-	9.29	9.3	CA 2151	-	-	0.213	BMDL
CA 2140	-	-	238	2.4	CA 2149	-	-	0.411	BMDL

DUPLICATES			
JOB #	ORIG.	DUP	RPD
CA 1893	2.6	2.1	2.1
CA 1897	25.2	24.5	3
CA 1908	Ø	Ø	Ø
CA 2145	7.7	7.3	5

MATRIX SPIKES				
JOB #	ORIG.	Spike Result	Spike Added	
CA 1893	2.6	54.8	50.0	104%
CA 1897	25.2	71.3	50.0	127%
CA 1908	Ø	51.3	50.0	103%
CA 2145	7.7	58.0	50.0	101%



ETC

PARAMETER Chlorides  
 METHOD 325.3  
 DATE 10/19/89  
 VERIFIED 10/11/1989

S-BATCH QW70080  
 DET. LIMIT 1.0  
 TIME 8:00 am.

QC BATCH QYCO4064  
 UNITS mg/l  
 ANALYST ML

JOB #	PH	DIL	CONC	RESULT	JOB #	PH	DIL	CONC	RESULT
CA 2150	-	-	67.6	67.6					

DUPLICATES			
JOB #	ORIG.	DUP	RPD

MATRIX SPIKES			
JOB#	ORIG.	Spike Result	Spike Added
			% Recov.





ETC

PARAMETER Fluoride  
 METHOD 4136  
 DATE 10/29/19  
 VERIFIED 11/11/19

S-BATCH Q0700F1-R  
 DET. LIMIT 0.1  
 TIME 8:00pm

QC BATCH QTC 04068  
 UNITS mg/L  
 ANALYST [Signature]

JOB #	pH	DIL	CONC	RESULT	JOB #	pH	DIL	CONC	RESULT
CA 2157	-	-	Ø	BMDL					
CA 2136	-	-	0.207	0.2					
CA 2138	-	-	0.092	0.1					
CA 2137	-	-	0.158	0.2					
CA 2147	-	-	0.174	0.2					
CA 1891	-	-	0.076	BMDL					
CA 2146	-	-	0.223	0.2					
CA 2150	-	-	0.240	0.2					
CA 2148	-	-	0.256	0.3					
CA 2144	-	-	0.322	0.3					

DUPLICATES			
JOB #	ORIG.	DUP	RPD
CA 2152	Ø	Ø	Ø

MATRIX SPIKES				
JOB#	ORIG.	Spike Result	Spike Added	% Recov.
CA 2152	Ø	0.962	1.00	96%



ETC

PARAMETER Lead  
 METHOD 413.6  
 DATE 10/20/89  
 VERIFIED 11/11/89

S-BATCH 0270081  
 DET. LIMIT 0.1  
 TIME 8:00am

QC BATCH QTC04066  
 UNITS mg/l  
 ANALYST [Signature]

JOB #	DH	DIL	CONC	RESULT	JOB #	DH	DIL	CONC	RESULT
CA 1893	-	-	0.46	0.2					
CA 1894	-	-	0.136	0.1					
CA 1896	-	-	0.078	BMDL					
CA 1897	-	-	0.146	0.2					
CA 2139	-	-	0.136	0.1					
CA 1895	-	-	0.107	0.1					
CA 1907	-	-	0.107	0.1					
CA 1892	-	-	0.117	0.1					
CA 1908	-	-	0.136	BMDL					
CA 1890	-	-	0.136	0.1					
CA 2140	-	-	0.097	0.1					
CA 1899	-	-	0.136	0.1					

DUPLICATES			
JOB #	ORIG.	DUP	RPD
* CA 1893	0.2	0.1	47%

MATRIX SPIKES				Spike	Spike	% Recov.
JOB #	ORIG.	Result	Added			
CA 1893	0.2	1.041	1.00			84%

\*sample just above mde - nonhomogeneous 11/1/89



ETC

PARAMETER Fluorides  
METHOD 413.5  
DATE 10-31-89  
VERIFIED Ⓟ 11/2/89

S-BATCH Qw60314  
DEF. LIMIT 0.1  
TIME 8:00 AM

QC BATCH QTC04104  
UNITS mg/l  
ANALYST Ⓟ

JOB #	pH	DIL	CONC	RESULT	JOB #	pH	DIL	CONC	RESULT
CA 2141	—	—	0.482	0.5					
CA 2143	—	—	0.288	0.3					
CA 2145	—	—	0.0964	6MOL					
CA 2149	—	—	0.175	0.2					
CA 2131	—	—	0.089	6MOL					
CA 2142	—	—	0.159	0.2					

DUPLICATES			
JOB #	ORIG.	DUP	RPD
CA 2141	0.5	0.5	Ⓟ

MATRIX SPIKES				
JOB #	ORIG.	Spike Result	Spike Added	% Recov.
CA2141	0.5	1.08	0.5	116%

**ETC** ENVIRONMENTAL TESTING AND CERTIFICATION

CONVENTIONAL CHEMISTRY LAB

ANALYST: 10/18/89

TEST: TC UNITS: mg/L  
 Meth Ref # 200 V551, MDL: 1.0  
 Instrument # 1367, SUBJECT W. 200PL

DATE: 10/12/89 Page # 1 of 6  
WATER-CLERK 10/12/89

Lot Link	ETC Job #	PH	Instr #	Analysed Conc.	Dilu. AMOUNT	Reported Conc.	Comments & R.C. Calc's.
WRB#	570 of frame	≤ 2	1	258.6	-		
	400ppm STD	≤ 2	2	258.2	-		
		≤ 2	3	258.2	-		
		≤ 2	4	261.4	-		
	Cal. Dev.	-	-	259.1	-		
	Cal. Std.	-	-	399.7	-		
	Cal. Std.	-	-	403.2	-		
	Method Blank	≤ 2	1	0.151	-	0.2	RMPL
		≤ 2	2	0.334	-	0.3	RMPL
	10ppm STD	≤ 2	3	11.76	-	11.8	Tested
		≤ 2	4	11.42	-	11.4	$\bar{x} = 11.4$
		≤ 2	5	11.29	-	11.3	$\%R = 114\%$
	20ppm STD	≤ 2	6	21.68	-	21.7	$\bar{x} = 21.7$
		≤ 2	7	21.71	-	21.7	$\%R = 109\%$
	50ppm STD	≤ 2	8	40.46	-	40.5	$\bar{x} = 40.0$
		≤ 2	9	39.57	-	39.5	$\%R = 100\%$
	50ppm STD	≤ 2	16	52.43	-	53.0	$\bar{x} = 53.2$
		≤ 2	11	53.22	-	53.2	$\%R = 106\%$

Analyses OAVC Data Report OC Batch # 120770078 VerDate 10/26/89  
 QTC04059

SETUP DATE	Field #	Job # Date Time	Lab #	QC #	QC #	QC #
Start Date (Run/In)	10.0	10/27	691407	691407	691407	691407
Start Date Report	11.4	Original Sample	5.4	5.0	17.4	
% Recovery	110%	Duplicate Sample	5.4	5.2	17.4	
		R.P.D.	6	4	1	
CRITICAL MDL GC		ANALYST				
Known Value	40.0	Job # Date Time	10/27	10/27	10/27	10/27
Observed Result	50.0	Original Sample	5.4	5.0	17.4	
T. #, Method	10090	Duplicate Sample	5.4	5.2	17.4	
		Average Sample	20.2	20.0	20.0	20.0
		Standard Deviation	25.9	26.2	25.0	
		% Recovery	103%	116%	87%	

Analysis on 10/18/89  
BY: [Signature]

TEST: TOL, UNITS: mg/L  
Meth. REF. # EPA 415.1, MDL: 1.0  
INSTRUMENT # 1367, INJECT VOL. 200 µL

Page # 2 of 6

Log Link or B.M.S.#	ETC Job # STD or Known	pH Initial	INJECT #	Ambied Conc.	Dilu. Factor	REPORTED CONC.	COMMENTS & REC. CALCS.
—	100ppm STD	≤2	12	110.4	—	110.4	$\bar{x} = 110\%$
—	—	≤2	13	109.6	—	109.6	$\%R = 110\%$
100209	CA2079	≤2	14	5.264	—	5.3	
—	—	≤2	15	5.531	—	5.5	$\bar{x} = 5.4$
—	—	≤2	16	5.661	—	5.7	
—	—	≤2	17	5.725	—	5.7	$\bar{x} = 5.7$
100209	CA2079 spk	≤2	18	25.66	—	25.7	$\bar{x} = 25.9$
—	—	≤2	19	26.12	—	26.1	$\%R = 103\%$
100209	CA2074	≤2	20	26.25	—	26.3	
—	—	≤2	21	26.19	—	26.2	
100209	CA2080	≤2	22	4.128	—	4.1	
—	—	≤2	23	4.165	—	4.2	
100209	CA2082	≤2	24	1.353	—	1.4	
—	—	≤2	25	1.372	—	1.4	
100210	CA2085	≤2	26	3.411	—	3.4	
—	—	≤2	27	3.285	—	3.3	
100210	CA2086	≤2	28	81.58	—	81.6	
—	—	≤2	29	79.73	—	79.7	

Analyses QA/QC Data Report

QC Batch # QW70078

Verified: VA 10/26/89

QTC04059

METHOD BLANK		JOB # QW 70078	
Spiked Blank (Known)		Original Result	
Spiked Blank Result		Duplicate Result	
% Recovery		RPD	
EXTERNAL REF. QC		REPEAT	
Known Value		Job # Spiked (ETC)	
Observed Result		Original Result	
% Recovery		Amount Spiked	
		Spiked Result	
		% Recovery	

1015

Method Blank	Observed Result	Known Value	EXTERNAL REF. QC	Observed Result	Known Value	Original Result	Lab & Sample (ETC)

Analysis of QC Data Report  
 OC Batch # 0470078  
 Ver Date: 11/10/26/89  
 ATCO405

Lot Lnk #	ETC Job #	PH Instr	Amount	Dilu.	Reported Conc.	Comments
100211	CA1892	52 36	4.97	-	5.0	
100211	CA1890	52 39	3.57	-	3.6	
100211	CA1889	52 32	6.22	-	6.2	
100210	CA2087	52 30	6.10	-	6.1	
100211	CA1907 Spk.	52 44	28.65	-	28.7	$x=28.2$ $\%R=11.6\%$
100211	CA1907 Spk.	52 45	27.74	-	27.7	$x=28.2$ $\%R=11.6\%$
100211	CA1907 Spk.	52 46	25.33	-	0.5	$x=28.2$ $\%R=11.6\%$
100211	CA1907 Spk.	52 47	0.491	-	0.5	$x=28.2$ $\%R=11.6\%$
100211	CA1907 Spk.	52 48	5.102	-	5.1	
100211	CA1907 Spk.	52 49	5.031	-	5.0	$x=5.0$
100211	CA1907 Spk.	52 50	5.008	-	5.0	
100211	CA1907 Spk.	52 51	5.116	-	5.2	$x=5.2$
100211	CA1907 Spk.	52 52	112.6	-	112.6	$x=111.2$ $\%R=11.9\%$
100211	CA1907 Spk.	52 53	109.8	-	109.8	
100211	CA1907 Spk.	52 54	4.933	-	4.9	
100211	CA1907 Spk.	52 55	4.971	-	5.0	
100211	CA1907 Spk.	52 56	3.678	-	3.7	
100211	CA1907 Spk.	52 57	3.572	-	3.6	
100211	CA1907 Spk.	52 58	3.678	-	3.7	
100211	CA1907 Spk.	52 59	6.272	-	6.3	
100211	CA1907 Spk.	52 60	6.202	-	6.2	
100211	CA1907 Spk.	52 61	5.975	-	6.0	
100211	CA1907 Spk.	52 62	6.100	-	6.1	

TEST: TOL  
 Meth. Ref. # EDA 415.1  
 MDL: 1.0  
 UNITS: 2.5/L  
 INSTRUMENT # 1367  
 INST. W. 2001L  
 Analyzed on 11/11/89  
 BY: [Signature]  
 Page # 3 of 6

ETC ENVIRONMENTAL TESTING AND CERTIFICATION

CONVENTIONAL CHEMISTRY LAB

TEST : TOC, UNITS: mg/L  
 Meth. REF. # EPA 415-1, MDL: 1.0  
 Instrument # 1367, INJECT VOL. 200 µL

BY: [Signature]

Lab Link or B.M.S. #	ETC Job # STD or Program	pH Initial	INSTR #	Ambient Conc.	Dilu. Factor	REPEATED CONC.	COMMENTS & REC. CALCS.
100215	CA2141	≤2	48	6.102	—	6.1	
—	—	≤2	49	5.795	—	5.8	
100215	CA2142	≤2	50	5.266	—	5.3	
—	—	≤2	51	5.002	—	5.0	
100215	CA2143	≤2	52	5.911	+	5.9	
—	—	≤2	53	5.924	+	5.9	
100215	CA2180 (#1)	≤2	54	6.542	—	6.5	
—	—	≤2	55	6.251	—	6.3	
100215	CA2157	≤2	56	0.653	—	0.7	
—	—	≤2	57	0.696	—	0.7	
100216	CA1891	≤2	58	2.816	—	2.8	
—	—	≤2	59	2.639	—	2.6	
100216	CA2144	≤2	60	203.7	—	203.7	
—	—	≤2	61	200.3	—	200.3	
100216	CA2145	≤2	62	11.30	—	11.3	
—	—	≤2	63	11.14	—	11.1	

Analyses QA/QC Data Report

QC Batch # QW70578

Verified: VFA 10/26/89

QTC04059

METHOD BLANK		PREPARED	
Specs Blank (Known)		Job # Data (ETC)	
Specs Blank Result		Original Result	
% Recovery		Duplicate Result	
		RPD	
		RECOVERY	
		Job # Specs (ETC)	
		Original Result	
		Amount Spiked	
		Spiked # Result	
		% Recovery	
EXTERNAL REF. QC			
Known Value			
Observed Result			
% Recovery			

ANALYZED ON 10/18/89  
BY: [Signature]

TEST: TCC, UNITS: mg/L  
Meth. REF. # EPA 415.1, MDL: 1.0  
Instrument # 1367, INJECT VOL. 200 µL

PAGE # 5 of 6

Log Link or BTL#	ETC # STD or Known	pH Initial	Injec #	Analyzed Conc.	Dilu. Factor	REPORTED CONC.	COMMENTS & REC. CALCS.
	100ppm STD	≤2	64	110.4	—	110.4	$\bar{x} = 109.6$
	II	≤2	65	108.8	—	108.8	$\%R = 110\%$
100216	CA2146	≤2	66	18.27	—	18.3	
—	—	≤2	67	17.45	—	17.5	$\bar{x} = 17.9$
—	—	≤2	68	17.71	—	17.7	
—	—	≤2	69	17.57	—	17.6	$\bar{x} = 17.7$
100216	CA2146 Spk	≤2	70	35.37	—	35.4	$\bar{x} = 35.0$
—	—	≤2	71	34.60	—	34.6	$\%R = 86\%$
100216	CA2152	≤2	72	0.584	—	0.6	
—	—	≤2	73	0.694	—	0.7	
100217	CA2147	≤2	74	6.391	—	6.4	
—	—	≤2	75	6.298	—	6.3	
100217	CA2148	≤2	76	78.70	—	78.7	
—	—	≤2	77	75.69	—	75.7	
100218	CA2089	≤2	78	67.22	—	67.2	
—	—	≤2	79	65.85	—	65.9	
100218	CA [blacked out]	≤2	80	90.40	—	90.4	
—	—	≤2	81	88.38	—	88.4	

Analyses QA/QC Data Report

QC Batch # QW70078

Verified: VA 10/26/89

ATC04059

METHOD BLANK	
Spiked Blank (Known)	
Spiked Blank Result	
% Recovery	
EXTERNAL REF. QC	
Known Value	
Observed Result	
% Recovery	

PREPARED	
Job # (Use ETC)	
Original Result	
Customer Result	
RPD	
ANALYZED	
Job # (Use ETC)	
Original Result	
Amount Spiked	
Spiked F Result	
% Recovery	

1097



Analyzed on 10/18/89

TEST: TOC, UNITS: mg/L  
 Meth. REF. # EPA 415.1, MDL: 1.0  
 Instrument # 1367, INJECT VOL. 200 µL

BR [Signature]  
 PAGE # 6 of 6

Lab Link or B.M.S.#	ETC Job # STD or Known	pH Initial	Inlet #	Ambient Conc.	Dilu. Factor	REPORTED CONC.	COMMENTS & REC. CALCS.
100218	CA2092	52	82	63.42	—	63.4	
—	—	52	83	62.91	—	62.9	
—	100ppm STD	52	84	110.8	—	110.8	X̄ = 108 %R = 108%
—	—	52	85	111.3	—	111.3	
—	—	52	86	105.2	—	105.2	

Analyses QA/QC Data Report

QC Batch # QW70078

Verified: VA 10/26/89  
QTC04059

METHOD BLANK			PREPARED		
Sample Blank (Known)			Job # Blank (ETC)		
Sample Blank Result			Original Result		
% Recovery			Quadruplet Result		
			RPO		
EXTERNAL REF. QC			RECALCULATED		
Known Value			Job # Sample (ETC)		
Observed Result			Original Result		
% Recovery			Amount Spiked		
			Spiked # Result		
			% Recovery		

10-007018



ETC

Nitrates

PARAMETER QW70084  
METHOD 333.2  
DATE 10-23-89  
VERIFIED 11/1/89

S-BATCH QW70084  
DET. LIMIT 0.10  
TIME 8:00am (mg/l)

QC BATCH ATC 04090  
UNITS mg/l  
ANALYST J. [unclear]

JOB #	PH	DIL	CONC	RESULT	JOB #	PH	DIL	CONC	RESULT
CA 2138	≤2	-	0.333	0.3	CA1892	≤2	-	0.249	0.3
CA 2144	≤2	-	0.178	0.2	CA1377	≤2	-	1.23	1.2
CA 2130	≤2	-	0.241	0.2	CA1891	≤2	-	.00364	BMDL
CA 1380	≤2	-	.00310	BMDL	CA2148	≤2	-	.0277	BMDL
CA 1894	≤2	-	0.386	0.4	CA1896	≤2	-	.00255	BMDL
CA 1893	≤2	<del>0.0747</del>	.00747	BMDL	CA1895	≤2	-	0.683	0.7
CA 2152	≤2	-	.0638	BMDL	CA1376	≤2	-	.00675	BMDL
CA 2151	≤2	-	.0408	BMDL	CA1908	≤2	-	0.0518	BMDL
CA 1381	≤2	-	.0135	BMDL	CA1378	≤2	-	0.253	0.3
CA 1379	≤2	-	.0266	BMDL	CA1897	≤2	-	.00857	BMDL
CA 2143	≤2	-	.0124	BMDL	CA1890	≤2	-	2.16	OVER
CA 2147	≤2	-	.0135	BMDL	CA1890	≤2	10X	0.203	2.0
CA 2149	≤2	-	2.16	OVER	CA1897	≤2	-	.0201	BMDL
CA 2149	≤2	50X	0.335	16.8	CA1783	≤2	-	.0133	BMDL
CA 2137	≤2	-	.00715	BMDL	CA1780	≤2	-	.0299	BMDL
CA 2140	≤2	-	0.616	0.6	CA179	≤2	-	.00857	BMDL
CA 2136	≤2	-	0.405	0.4	CA1790	≤2	-	.0140	BMDL
CA 2139	≤2	-	.00436	BMDL	CA1778	≤2	-	.00145	BMDL

DUPLICATES

JOB #	ORIG.	DUP	RPD
CA 2138	0.333	0.333	L1
CA 1381	Ø	Ø	Ø
CA 2136	0.405	0.404	L1
(10X) CA 1890	.203	.183	10

MATRIX SPIKES

JOB #	ORIG.	Spike Result	Spike Added	% Recov.
CA2138	0.333	0.801	0.500	94%
CA1381	Ø	.389	0.500	78%
CA2136	0.405	0.922	0.500	103%
CA1890(10x)	0.203	0.678	0.500	95%

Low recov. Sample #1 BMDL data



ETC

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Nitrates

PARAMETER NO<sub>3</sub>  
METHOD 333.2  
DATE 10-21-97  
VERIFIED WFM/189

S-BATCH QW70084  
DET. LIMIT 0.1  
TIME 8:00am

QC BATCH QTC04090  
UNITS mg/l  
ANALYST M/O/S

JOB #	pH	DIL	CONC	RESULT	JOB #	pH	DIL	CONC	RESULT
CA 1796	≤2	-	0.140	BMDL					
CA 1352	≤2	-	0.052	BMDL					
CA 1889	≤2	-	2.16	OVER					
CA 1889	≤2	2X	2.16	OVER					
CA 1889	≤2	10X	1.27	12.7					
CA 2146	≤2	-	0.029	BMDL					
CA 2143	≤2	-	0.901	0.9					
CA 2142	≤2	100X	0.185	18.5					
CA 2141	≤2	50X	0.138	6.9					
CA 1907	≤2	-	0.0419	BMDL					

DUPLICATES			
JOB #	ORIG.	DUP	APD

MATRIX SPIKES				
JOB #	ORIG.	Spike Result	Spike Added	% Recov.



ETC

Page 1 of 2

Nitrates

PARAMETER NO<sub>3</sub>  
METHOD 353.2  
DATE 10/25/89  
VERIFIED 11/1/89

S-BATCH QW70084  
DET. LIMIT 0.1  
TIME 8:00am

QC BATCH QTC04091  
UNITS mg/l  
ANALYST [Signature]

JOB #	pH	DIL	CONC	RESULT	JOB #	pH	DIL	CONC	RESULT
CA 2138	≤2	-	.00185	BMDL	CA1377	≤2	-	.00572	BMDL
CA 2144	≤2	-	.0256	BMDL	CA1891	≤2	-	∅	BMDL
CA 2150	≤2	-	.0270	BMDL	CA2148	≤2	-	.0323	BMDL
CA 1380	≤2	-	∅	BMDL	CA1896	≤2	-	.0111	BMDL
CA 1354	≤2	-	.0022	BMDL	CA1895	≤2	-	.00323	BMDL
CA 1893	≤2	-	∅	BMDL	CA1376	≤2	-	.00272	BMDL
CA 2152	≤2	-	.00365	BMDL	CA1908	≤2	-	.00369	BMDL
CA 2157	≤2	-	.00343	BMDL	CA1378	≤2	-	∅	BMDL
CA 1381	≤2	-	∅	BMDL	CA1897	≤2	-	∅	BMDL
CA 1379	≤2	-	∅	BMDL	CA1890	≤2	-	.00397	BMDL
CA 2143	≤2	-	.00188	BMDL	CA1897	≤2	-	∅	BMDL
CA 2147	≤2	-	.00695	BMDL	CA1783	≤2	-	.0041	BMDL
CA 2149	≤2	-	.00264	BMDL	CA1780	≤2	-	.0383	BMDL
CA 2137	≤2	-	.0060	BMDL	CA1779	≤2	-	.0323	BMDL
CA 2140	≤2	-	.0447	BMDL	CA1790	≤2	-	.0325	BMDL
CA 2136	≤2	-	.00151	BMDL	CA178	≤2	-	.0265	BMDL
CA 2139	≤2	-	.00274	BMDL	CA178	≤2	-	.00182	BMDL
CA 1892	≤2	-	.0063	BMDL	CA1382	≤2	-	.00101	BMDL

DUPLICATES			
JOB #	ORIG.	DUP	RPD

MATRIX SPIKES				Spike Result	Spike Added	% Recov.
JOB #	ORIG.	DUP	RPD			



Page 2 of 2

PARAMETER NO<sub>2</sub>  
METHOD 333  
DATE 10-25-89  
VERIFIED 10/27/89

S-BATCH Q070084  
DET. LIMIT 0.1  
TIME 8:00 am

QC BATCH QTC04091  
UNITS mg/l  
ANALYST [Signature]

JOB #	pH	DIL	CONC	RESULT	JOB #	pH	DIL	CONC	RESULT
CA 1889	≤2	-	.0028	BMDL					
CA 2146	≤2	-	.00893	BMDL					
CA 2145	≤2	-	.01378	BMDL					
CA 1907	≤2	-	∅	BMDL					
CA 2142	≤2	-	.00992	BMDL					
CA 2141	≤2	-	∅	BMDL					

DUPLICATES		
JOB #	ORIG.	DUP RPD

MATRIX SPIKES			
JOB#	ORIG.	Spike Result	Spike Added % Recv.



ETC

PARAMETER OW70082  
METHOD Phthalate  
DATE 10/24/89  
VERIFIED 11/11/89

S-BATCH OW70082  
DET. LIMIT 0.05  
TIME 8:00am

QC BATCH QTC04071  
UNITS ug/l  
ANALYST ASD

JOB #	PH	DIL	CONC	RESULT	JOB #	PH	DIL	CONC	RESULT
CA 1897	-	-	.0027	BMDL	CA1894	-	-	Ø	BMDL
CA 1895	-	-	.0024	BMDL	CA2144	-	-	0.141	0.14
CA 1373	-	-	.00307	BMDL	CA2151	-	-	.00385	BMDL
CA 1375	-	-	.00431	BMDL	CA2150	-	-	0.107	0.11
CA 1896	-	-	Ø	BMDL	CA2142	-	-	0.0012	BMDL
CA 1907	-	-	.0049	BMDL	CA2147	-	-	.0097	BMDL
CA 1890	-	-	.00431	BMDL	CA2143	-	-	.00225	BMDL
CA 2136	-	-	.00630	BMDL	CA2148	-	-	0.0442	BMDL
CA 2139	-	-	.00160	BMDL	CA2149	-	-	0.0013	BMDL
CA 2138	-	-	.00399	BMDL	CA2141	-	-	.00231	BMDL
CA 2140	-	-	.00932	BMDL	CA1908	-	-	.00113	BMDL
CA 2137	-	-	.00421	BMDL	CA1891	-	-	.0084	BMDL
CA 2146	-	-	.00739	BMDL					
CA 1892	-	-	.00434	BMDL					
CA 1889	-	-	.00410	BMDL					
CA 2152	-	-	.00241	BMDL					
CA 1893	-	-	.0103	BMDL					
CA 2145	-	-	.00699	BMDL					

DUPLICATES			
JOB #	ORIG.	DUP	RPD
CA 1897	Ø	Ø	Ø
CA 2139	Ø	Ø	Ø
CA1894	Ø	Ø	Ø

MATRIX SPIKES				
JOB #	ORIG.	Spike Result	Spike Added	
CA1897	Ø	0.0945	0.100	95%
CA2139	Ø	0.0931	0.100	93%
CA1894	Ø	0.0984	0.100	98%

S-Batch QW700&3 pH (electrometric) Date 10/24/89  
 QC-Batch QTC040&9 EPA Method 150.1 Time 2:30pm  
 Verified PH 111189 Standard Units Analyst: (Signature)

Facility

Job #	Temp °C	pH	Comments	Job #	Temp °C	pH	Comments
CA2145	16.9	7.06		CA2150#2	16.6	6.81	
↓	17.0	7.07		↓	16.7	6.82	
CA2152	16.1	8.11		CA2143	16.6	7.50	
↓	16.2	8.02		↓	16.7	7.51	
CA2148	18.0	6.68		CA1379	16.8	7.03	
↓	18.1	6.68		↓	16.8	7.04	
CA2142	16.3	7.17					
↓	16.4	7.19					
CA2146	16.1	6.62					
↓	16.2	6.63					
CA2150	16.1	6.78					
↓	16.2	6.79					
CA1891	16.4	7.55					
↓	16.4	7.56					
CA2144	16.5	6.79					
↓	16.7	6.79					
CA2141	16.7	7.56					
↓	16.9	7.57					
CA2147	16.0	6.91					
↓	16.1	6.91					
CA2151	16.4	8.10					
↓	16.7	8.04					
CA2149	16.5	7.17					
↓	16.6	7.20					

Calibration Data

pH 7 Buffer	pH 4 Buffer	pH 10 Buffer
Lot # <u>679905</u>	Lot # <u>772703</u>	Lot # <u>085710</u>
Temp °C <u>20.8</u>	Temp °C <u>20.8</u>	Temp °C <u>20.9</u>
Initial Reading <u>6.99</u>	Initial Reading <u>4.01</u>	Initial Reading <u>9.99</u>
Calib. Value <u>7.00</u>	Calib. Value <u>4.00</u>	Calib. Value <u>9.99</u>

S-Batch QW70079

pH (electrometric)

Date 10-10-89

QC-Batch ATC24024

EPA Method 150.1

Time 4:00pm

Verified 10/12/89

Standard Units

Analyst K.C.

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Job #	Temp °C	pH	Comments	Job #	Temp °C	pH	Comments
CA1371	17.2	7.47		/			
Dup.	17.3	7.47					
CA1894	20.0	7.66					
Dup.	20.0	7.66					
CA2140	22.5	6.42					
Dup.	22.2	6.41					
CA1372	22.3	7.52					
Dup.	22.2	7.47					
CA1890	22.0	7.23					
Dup.	23.0	7.25					
CA2139	21.9	6.51					
Dup.	22.2	6.52					
CA1896	21.8	6.91					
Dup.	22.3	6.99					
CA1373	22.8	7.44					
Dup.	22.9	7.47					
CA1907	22.8	7.21					
Dup.	22.9	7.23					
CA1380	22.7	7.04					
Dup.	22.7	7.06					
STD pH7	21.9	7.05	%R=101				
STD pH7	21.8	7.05	%R=101				
/	/	/					

Calibration Data

pH 7 Buffer	pH 4 Buffer	pH 10 Buffer
Lot # <u>679905</u>	Lot # <u>772703</u>	Lot # <u>085710</u>
Temp °C <u>21.7</u>	Temp °C <u>23.2</u>	Temp °C <u>23.1</u>
Initial Reading <u>7.21</u>	Initial Reading <u>3.98</u>	Initial Reading <u>9.92</u>
Calib. Value <u>7.00</u>	Calib. Value <u>4.00</u>	Calib. Value <u>9.92</u>



S-Sector QW70079 pH (electrometric)  
 DC-Sector QTC 04024 EPA Method 150.1  
 Verified H. Allen 10/17/89 Standard Units

Date 10-12-89  
 Time 3:30 PM  
 Analyst [Signature]

Page 1 of 1

Job #	Temp	pH	Comments	Job #	Temp	pH
CA1897	22.5	7.52		CA1892	22.7	7.29
D.p.	22.7	7.44		D.p.	22.7	7.34
CA1376	22.2	6.82		CA2137	22.8	7.45
D.p.	22.4	6.83		D.p.	22.8	7.48
CA1377	22.7	6.90		CA1382	22.7	7.99
D.p.	22.8	6.91		D.p.	22.8	7.98
CA1378	22.2	7.46		CA1889	22.7	7.09
D.p.	22.3	7.47		D.p.	22.9	7.11
CA1908	22.6	8.54		CA2136	22.9	7.20
D.p.	22.7	8.52		D.p.	22.9	7.20
CA1895	23.3	7.55		pH 7 Buffer	22.8	7.07
D.p.	23.3	7.56				
CA1375	22.8	6.67				
D.p.	22.8	6.66				
CA1374	22.5	7.93				
D.p.	22.6	8.08				
CA1371	22.7	7.03				
D.p.	22.8	7.03				
CA1893	22.6	7.48				
D.p.	22.6	7.48				
pH 7 Buffer	22.8	7.07				
CA2134	23.0	6.77				
D.p.	23.0	6.79				

Calibration Data

pH 7 Buffer  
 Lot # 675904  
 Temp °C 23.0  
 Initial Reading 6.99  
 Calib. Value 7.00

pH 4 Buffer  
 Lot # 772703  
 Temp °C 21.7  
 Initial Reading 4.02  
 Calib. Value 4.00

pH 10 Buffer  
 Lot # 0875710  
 Temp °C 22.1  
 Initial Reading 9.95  
 Calib. Value 10.00

S-Batch: QW70063

SPECIFIC CONDUCTANCE

DATE: 10/24/89

QC-Batch: 01004012

Method: EPA Method 120.1 (umhos @ 25°C)

TIME: 2:30pm

Verified: *[Signature]* Method Detection Limit 10.0 umho/cm

Analyst: *[Signature]*

*[Signature]*

Job #	Temp °C	Km	$\frac{Km}{(6.94)(t-25)}$	Range	Specific Conductance	Comments
CA2145	13.4	0.913	1.173	2mV	1173.0	
↓	13.4	0.913	1.173	2mV	1173.0	
CA2152	15.2	6.30	7.75	20uV	7.75	→ 7.8
↓	14.6	6.24	7.787	20uV	7.79	→ 7.8
CA2148	18.0	0.805	0.929	2mV	929.0	
↓	18.1	0.807	0.929	2mV	929.0	
CA2142	16.5	0.562	0.671	2mV	671.0	
↓	16.6	0.564	0.671	2mV	671.0	
CA2146	16.0	0.890	1.075	2mV	1075.0	
↓	16.0	0.891	1.076	2mV	1076.0	
CA2150	16.0	1.105	1.334	2mV	1334.0	
↓	16.1	1.106	1.319	2mV	1319.0	
CA1891	16.3	0.320	0.384	2mV	384.0	
↓	16.2	0.321	0.386	2mV	386.0	
CA2144	16.3	1.101	1.320	2mV	1320.0	
↓	16.4	1.103	1.320	2mV	1320.0	
CA2141	16.7	0.688	0.818	2mV	818.0	
↓	16.8	0.689	0.817	2mV	817.0	
CA2147	16.0	0.642	0.775	2mV	775.0	
↓	16.0	0.643	0.776	2mV	776.0	
CA2151	16.4	8.60	10.29	20uV	10.3	
↓	16.4	8.59	10.28	20uV	10.3	
CA2149	16.7	0.583	0.693	2mV	693.0	
↓	16.8	0.583	0.691	2mV	691.0	

KCL Std. % Recovery

0.110 KCL	21.1°C	1.164	12.58	2mV	1258.0	%R = 89%

S-Batch: 9WYD02 Date: 1907101  
 QC-Batch: 900402 EPA Method 120.1 (umhos @ 25°C) Time: 2:30PM  
 Verified: MMUB Method Detection Limit 10.0 umho/cm Analyst: AS  
by 292

Job #	Temp °C	Km	Km (6.91X5-25)	Range	Specific Conductance	Comments
CA210#2	16.4	1.188	1.349	2mV	1349.0	
✓	16.5	1.130	1.349	2mV	1349.0	
CA2143	16.6	0.576	0.686	2mV	686.6	
✓	16.9	0.581	0.687	2mV	687.0	
0.01NCE	21.1°	1.165	1.259	2mV	1259.0	96% = 89%

XCL Std. % Recovery

Station: 0070074

SPECIFIC CONDUCTANCE

Date: 10-12-59

QC-Batch: OTC04023 EPA Method 120.1 (umhos @ 25°C)

Time: 3:30 PM

Verified: W. L. Jones Method Detection Limit 10.0 umho/cm

Analyst: W. L. Jones

Page 1 of 3

Job #	Temp °C	Km	Km		Range	Specific Conductance	Comments
			Km	Km/(C-25)			
CA1359	21.9	1.41	1.50		20mV	1500	
D.P.	22.0	1.42	1.51		20mV	1570	
CA1373	21.7	0.662	0.71		20mV	710	
D.P.	21.9	0.666	0.71		20mV	710	
CA1407	22.0	0.739	0.78		20mV	780	
D.P.	21.9	0.751	0.80		20mV	800	
CA1350	21.9	0.787	0.84		20mV	840	
D.P.	22.0	0.787	0.83		20mV	830	
CA1846	22.0	1.037	1.10		20mV	1100	
D.P.	22.1	1.037	1.10		20mV	1100	
CA1371	22.1	0.574	0.61		20mV	610	
D.P.	22.1	0.574	0.61		20mV	610	
CA1594	22.2	0.517	0.55		20mV	550	
D.P.	22.2	0.517	0.55		20mV	550	
CA2140	22.2	1.294	1.37		20mV	1370	
D.P.	22.2	1.293	1.37		20mV	1370	
CA1372	22.1	0.593	0.63		20mV	630	
D.P.	22.2	0.594	0.63		20mV	630	
CA1856	22.0	0.631	0.67		20mV	670	
D.P.	22.1	0.632	0.67		20mV	670	
CA1040	22.7	1.25	1.31		20mV	1310	
CA1379	22.6	6.787	0.83		20mV	830	
D.P.	22.2	0.780	0.82		20mV	820	
KCl Std.							
CA1040	22.9	1.27	1.32		20mV	1320	93.4%
1 Recovery							

S-Batch: Q1070079 SPECIFIC CONDUCTANCE Date: 10-12-19

GC-Batch: GC04023 EPA Method 120.1 (umhos @ 25°C) Time: 3:30 PM

Verified: 10/11/19 Method Detection Limit 10.0 umho/cm Analyze: [Signature]

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Job #	Temp °C	Km	Km (Kohm)(x.25)	Range	Specific Conductance	Comments
CA1897	22.3	0.505	0.53	2mT	530	
Dip	22.3	0.507	0.54	2mT	540	
CA1376	22.2	1.453	1.54	2mT	1540	
Dip	22.3	1.453	1.53	2mT	1530	
CA1377	22.4	0.838	0.87	2mT	870	
Dip	22.4	0.838	0.88	2mT	880	
CA1378	22.1	0.639	0.68	2mT	680	
Dip	22.2	0.639	0.68	2mT	680	
CA1968	22.2	10.0	10.57	20mT	10.6	
Dip	22.2	10.2	10.78	20mT	10.8	
CA1895	22.2	0.494	0.52	2mT	520	
Dip	22.3	0.498	0.53	2mT	530	
CA1375	22.2	1.45	1.53	20mT	1530	
Dip	22.3	1.45	1.53	20mT	1530	
CA1374	22.4	0.684	0.72	2mT	720	
Dip	22.4	0.684	0.71	2mT	710	
CA1381	22.3	0.858	0.91	2mT	910	
Dip	22.3	0.859	0.91	2mT	910	
CA1893	22.3	0.521	0.55	2mT	550	
Dip	22.3	0.531	0.56	2mT	560	
CA1891	22.9	1.26	1.31	20mT	1310	%R=93
CA138	22.3	0.837	0.88	2mT	880	
Dip	22.3	0.838	0.88	2mT	880	

KCl Std.

\* Recovery

