Quantitation Report

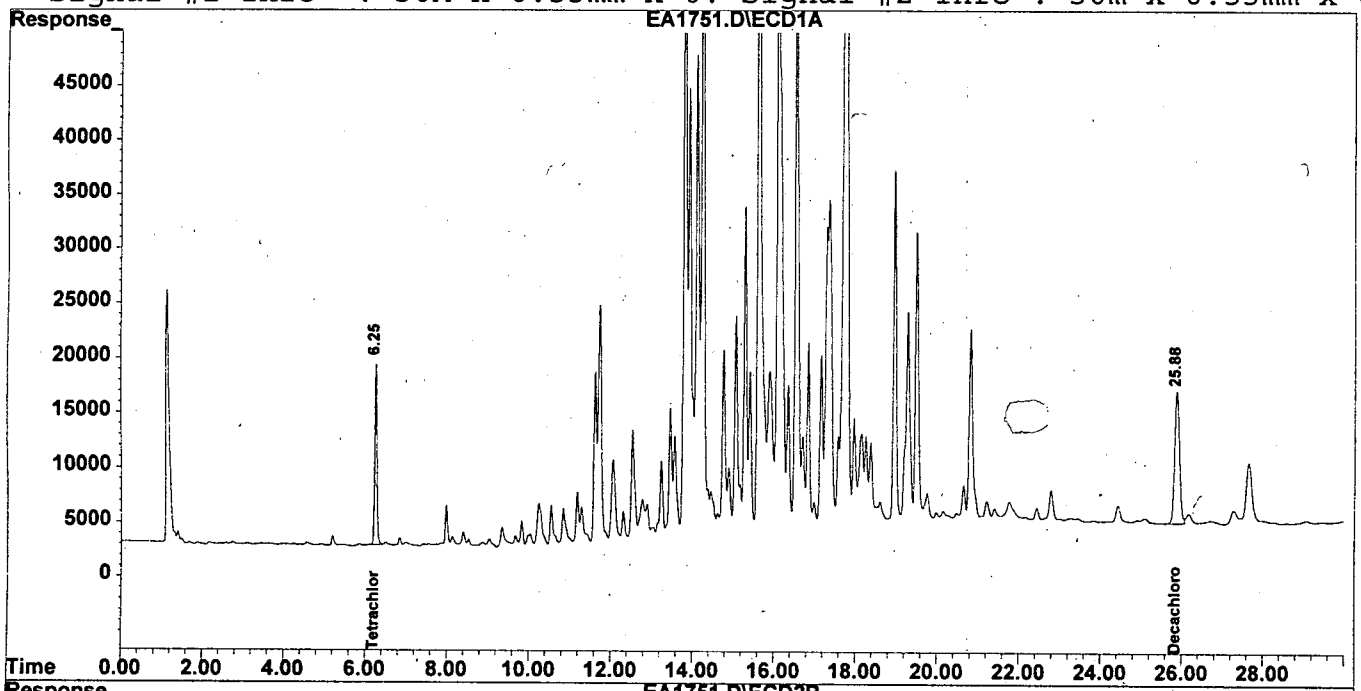
AMENDED REPORT MAY 3 0 1998

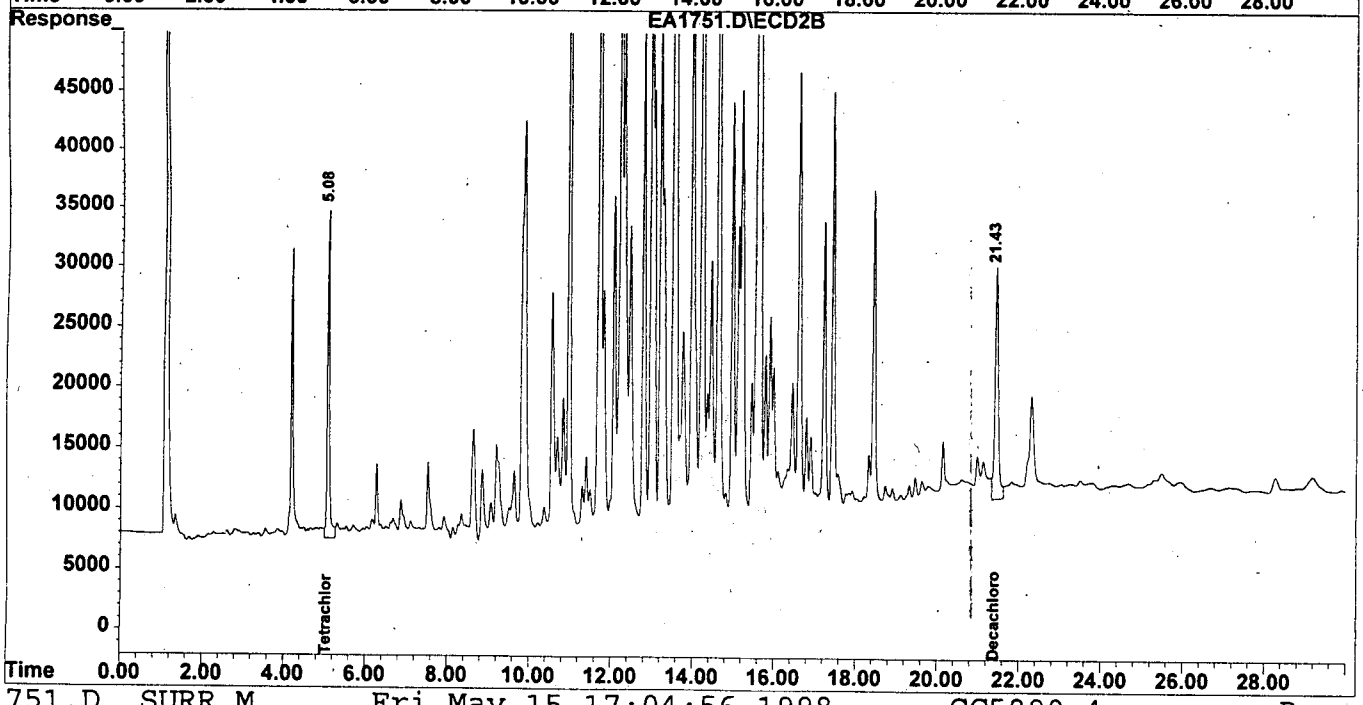
Signal #1 : C:\HPCHEM\WESTDA~1\EA1751.D\ECD1A.CH Vial: 47
Signal #2 : C:\HPCHEM\WESTDA~1\EA1751.D\ECD2B.CH
Acq On : 12 Dec 97 19:39 Operator:
Sample : 278213 Inst : GC_5890_5
Misc : QPC7394 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:40 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

211857

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 28 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278214
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: LLLLND1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/12/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	45.9%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	620	310
Aroclor-1221	U	U	1200	860
Aroclor-1232	U	U	620	490
Aroclor-1242	U	U	620	310
Aroclor-1248	U	U	620	370
Aroclor-1254	~~7100~~ 7800	U	620	430
Aroclor-1260	U	U	620	490

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0878.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA_B\BA0878.D\ECD2B.CH
Acq On : 12 Dec 97 5:06 Operator:
Sample : 278214 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:39 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.14	5.95	41322	29131	4.561	4.498
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.40%#	11.25%#
2) SA Decachlorobiphen	29.13	24.45	69400	45025	4.612	5.049
Spiked Amount 40.000 Range 24 - 154 Recovery =					11.53%#	12.62%#
Target Compounds						
4) L1 Aroclor-1016{2}	10.60	10.26	8222	18537	17.439	32.746 #
5) L1 Aroclor-1016{3}	11.91	10.66	4388	8478	5.335	31.643 #
6) L1 Aroclor-1016{4}	0.00	12.18	0	53709	N.D.	209.361 #
7) L1 Aroclor-1016{5}	13.19	14.02	101182	287910	309.870	1952.197 #
Sum Aroclor-1016			113792	368635	332.644	2225.946
Average Aroclor-1016					110.881	556.487
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
12) L3 Aroclor-1232{2}	0.00	10.05	0	48130	N.D.	1152.104 #
13) L3 Aroclor-1232{3}	10.60	11.36	8222	59372	37.882	712.742 #
14) L3 Aroclor-1232{4}	11.91	13.11	4388	22275	12.501	393.726 #
Sum Aroclor-1232			12610	129777	50.383	2258.572
Average Aroclor-1232					25.192	752.857
16) L4 Aroclor-1242{2}	10.60	10.05	8222	48130	22.423	627.073 #
17) L4 Aroclor-1242{3}	11.28	0.00	20292	0	183.031	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.18	0	53709	N.D.	232.095 #
19) L4 Aroclor-1242{5}	14.08	14.30	43711	138604	120.286	1550.812 #
Sum Aroclor-1242			72225	240443	325.740	2409.979
Average Aroclor-1242					108.580	803.326
21) L5 Aroclor-1248{1}	10.60	10.26	8222	18537	42.384	44.506
21) L5 Aroclor-1248{2}	11.91	12.18	4388	53709	7.843	158.490 #
22) L5 Aroclor-1248{3}	13.19	12.47	101182	34603	244.803	109.317 #
23) L5 Aroclor-1248{4}	14.08	13.46	43711	325383	88.067	1209.246 #
24) L5 Aroclor-1248{5}	0.00	15.47	0	669941	N.D.	5319.013 #
Sum Aroclor-1248			157503	1102174	383.097	6840.573
Average Aroclor-1248					95.774	1368.115

00 535

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0878.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA_B\BA0878.D\ECD2B.CH
Acq On : 12 Dec 97 5:06 Operator:
Sample : 278214 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:39 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
25)	L6 Aroclor-1254{1}	14.08	11.36	43711	59372	322.032	269.301	
26)	L6 Aroclor-1254{2}	15.45	13.46	734029	325383	1990.965	776.988	#
27)	L6 Aroclor-1254{3}	15.78	14.87	445298	365261	966.266	2443.396	#
28)	L6 Aroclor-1254{4}	18.42	15.47	657688	669941	1622.750	1378.680	
29)	L6 Aroclor-1254{5}	19.75	17.76	1100944	780813	1275.711	1718.195	#
	Sum Aroclor-1254			2981671	2200770	6177.724	6586.560	
	Average Aroclor-1254					1235.545	1317.312	
30)	L7 Aroclor-1260{1}	18.01	15.96	440844	340318	847.057	998.509	
31)	L7 Aroclor-1260{2}	18.42	16.67	657688	354330	1068.461	871.562	
32)	L7 Aroclor-1260{3}	19.97	17.76	80326	780813	176.042	1513.961	#
33)	L7 Aroclor-1260{4}	21.04	19.77	294771	146516	632.635	233.995	#
34)	L7 Aroclor-1260{5}	21.63	20.87	255708	105187	198.358	222.692	
	Sum Aroclor-1260			1729337	1727163	2922.552	3840.720	
	Average Aroclor-1260					584.510	768.144	

12/13/97 00 536

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0878.D\ECD1A.CH Vial: 27
Signal #2 : E:\WESTDA~1\BA0878.D\ECD2B.CH
Acq On : 12 Dec 97 5:06 Operator:
Sample : 278214 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:30 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.14	5.95	41172	28933	2.197	2.262
Spiked Amount 40.000 Range 43 - 150 Recovery =					5.49%#	5.66%#
2) SA Decachlorobiphen	29.13	24.45	69400	43004	3.147	4.630 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					7.87%#	11.58%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.08	11.36	39186	56704	288.794m	255.214
4) L6 Aroclor-1254{2}	15.45	13.46	717110	320757	1869.510	765.331 #
5) L6 Aroclor-1254{3}	15.78	14.87	424143	364784	805.799	2433.013 #
6) L6 Aroclor-1254{4}	18.42	15.47	657555	667703	1533.550	1342.549
7) L6 Aroclor-1254{5}	19.75	17.76	1100881	747184	1267.662	1559.332
Sum Aroclor-1254			2938876	2157132	5765.315	6355.440
Average Aroclor-1254					1153.063	1271.088

536A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

AMENDED REPORT MAY 3 0 1998

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : E:\WESTDA~1\BA0878A.D\ECD1A.CH Vial: 27
Signal #2 : E:\WESTDA~1\BA0878A.D\ECD2B.CH
Acq On : 12 Dec 97 5:06 Operator:
Sample : 278214 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:29 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.95	40871	28933	4.393m	4.788
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.98%#	11.97%#
2) SA Decachlorobiphen	29.13	24.45	69400	43004	4.595	5.177
Spiked Amount 40.000 Range 24 - 154 Recovery =					11.49%#	12.94%#
Target Compounds						

5 3 6B

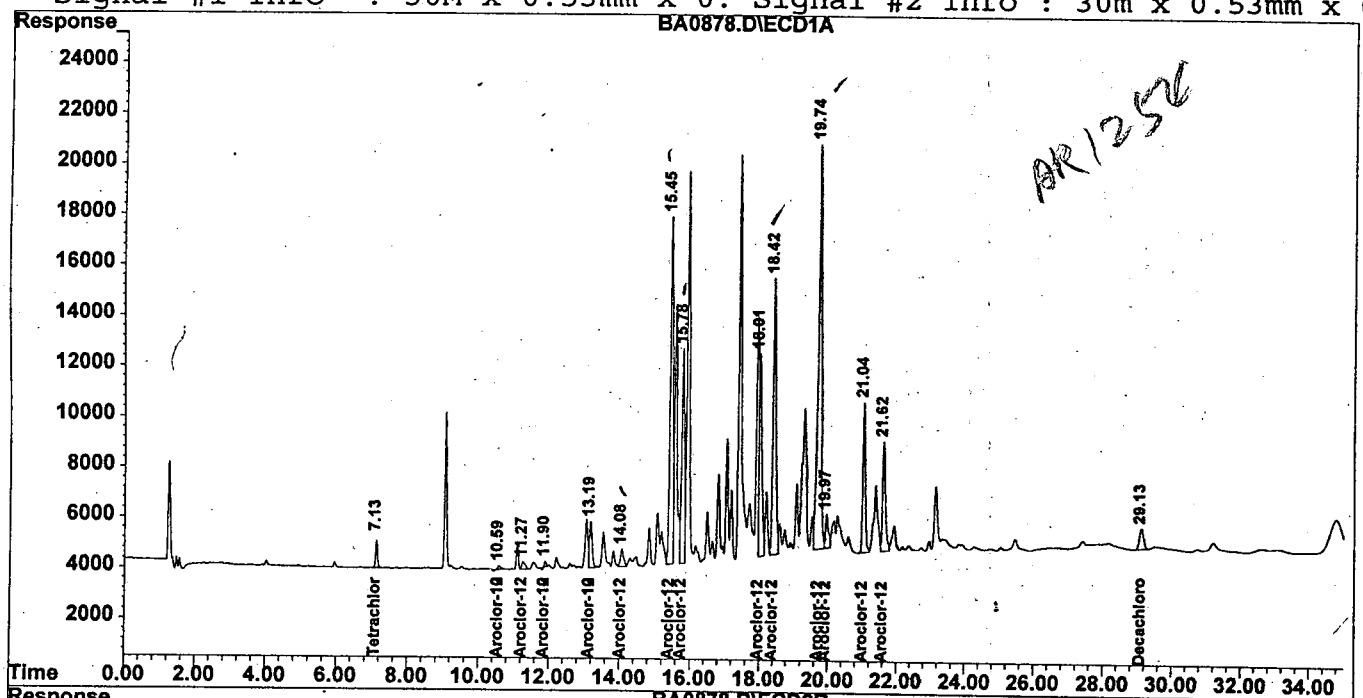
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

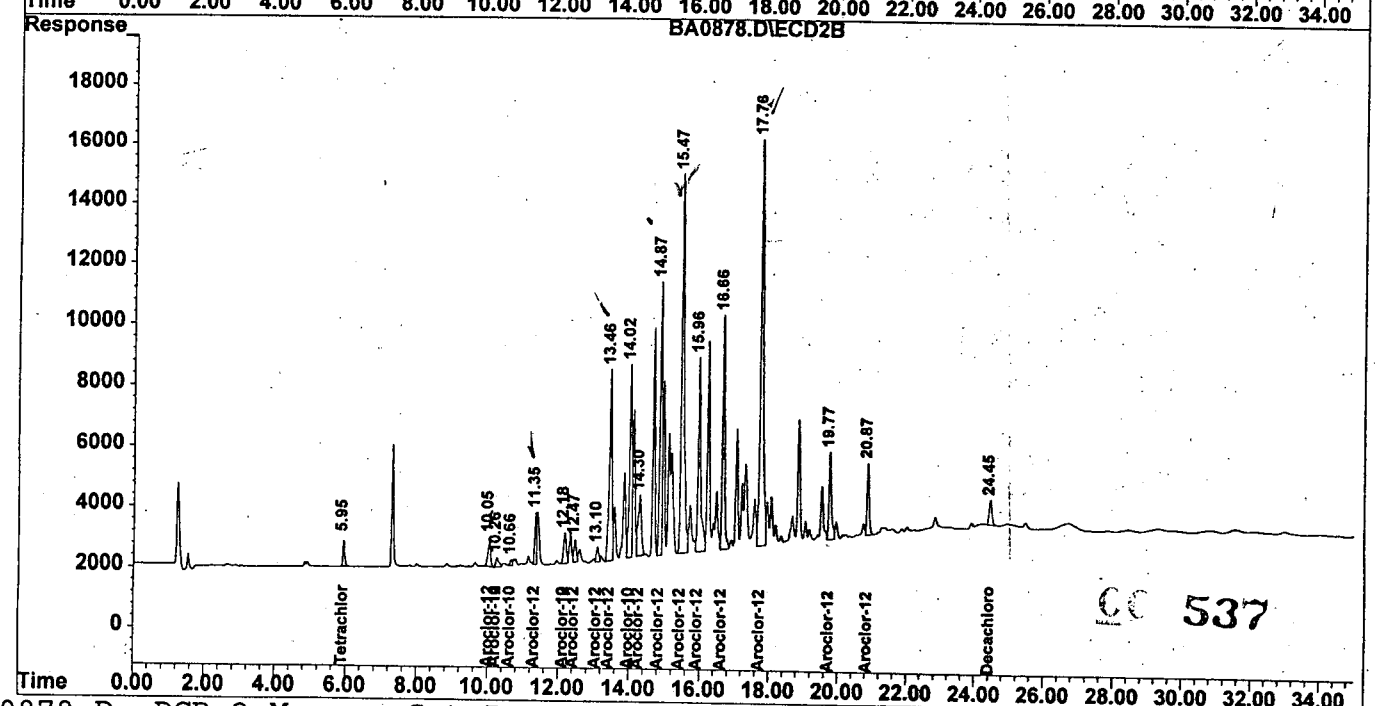
Signal #1 : C:\HPCHEM\1\DATA_B\BA0878.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA_B\BA0878.D\ECD2B.CH
Acq On : 12 Dec 97 5:06 Operator:
Sample : 278214 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:39 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1256



CC 537

Quantitation Report

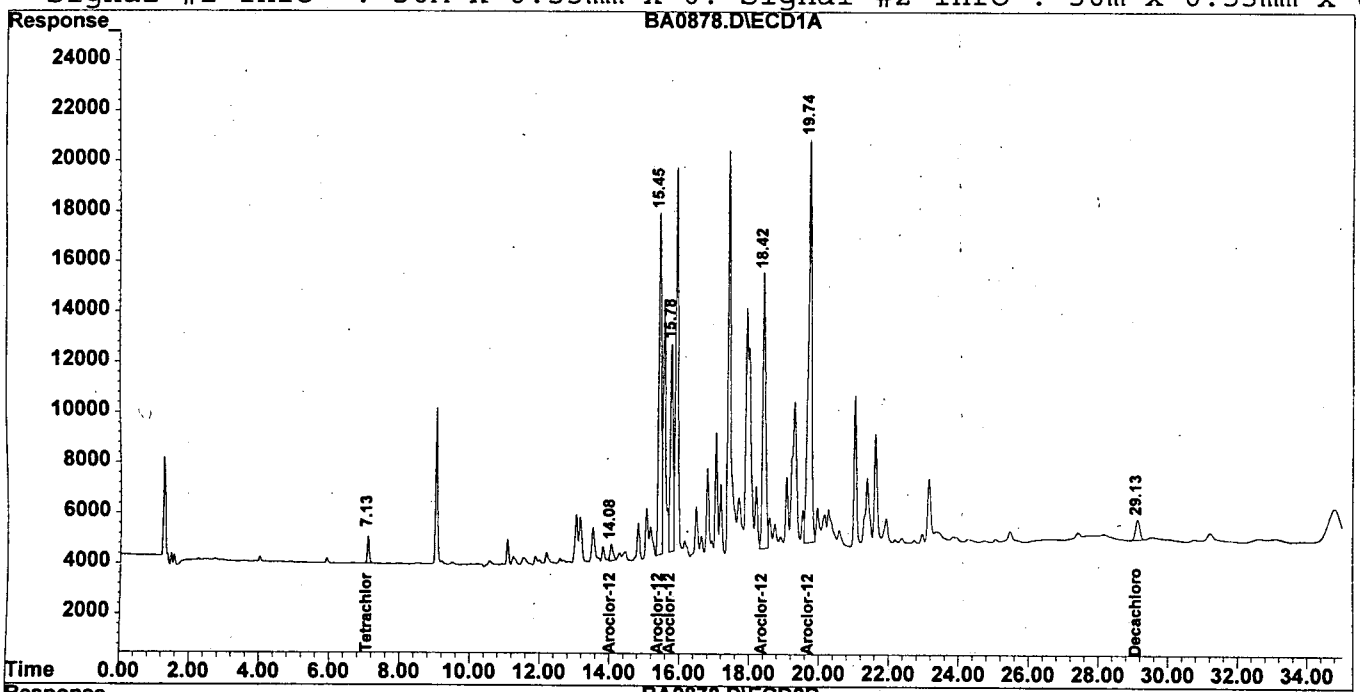
AMENDED REPORT MAY 2 8 1998

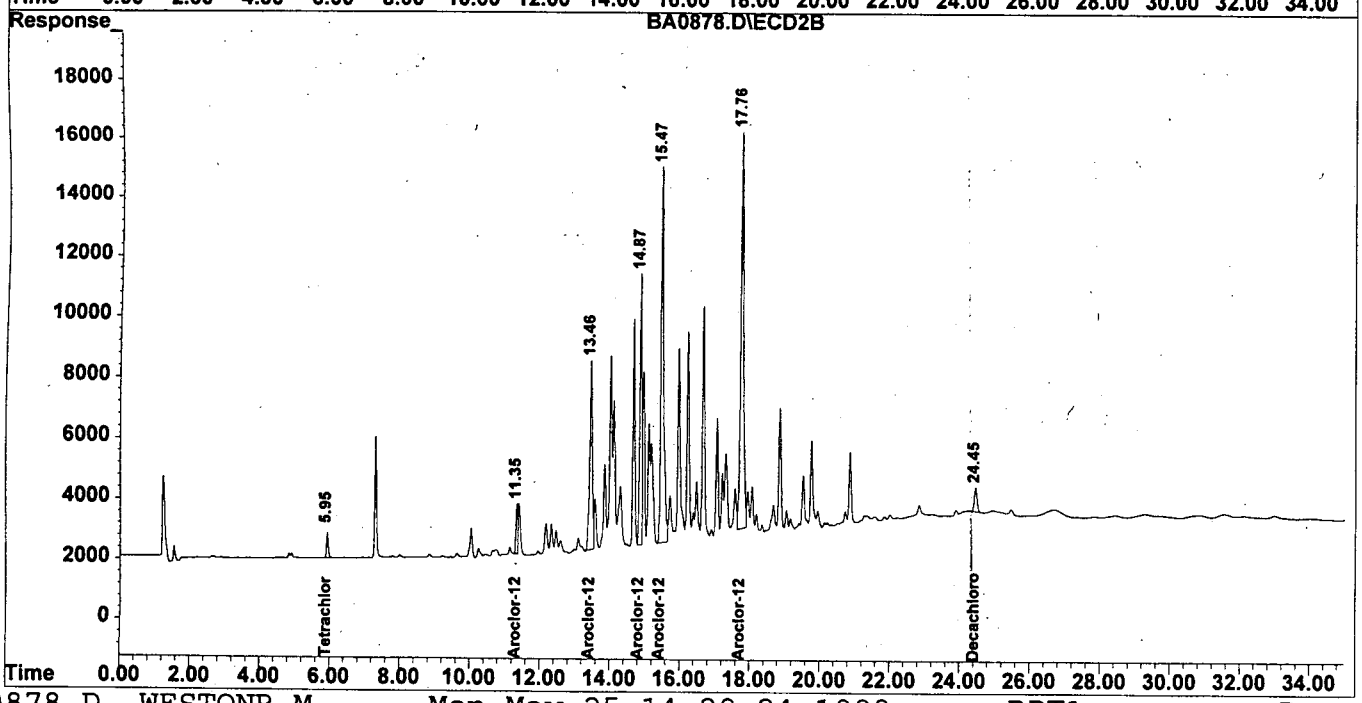
Signal #1 : E:\WESTDA~1\BA0878.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0878.D\ECD2B.CH
Acq On : 12 Dec 97 5:06
Sample : 278214 1:10
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:30 1998 Quant Results File: WESTONB.RES

Vial: 27
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





537A

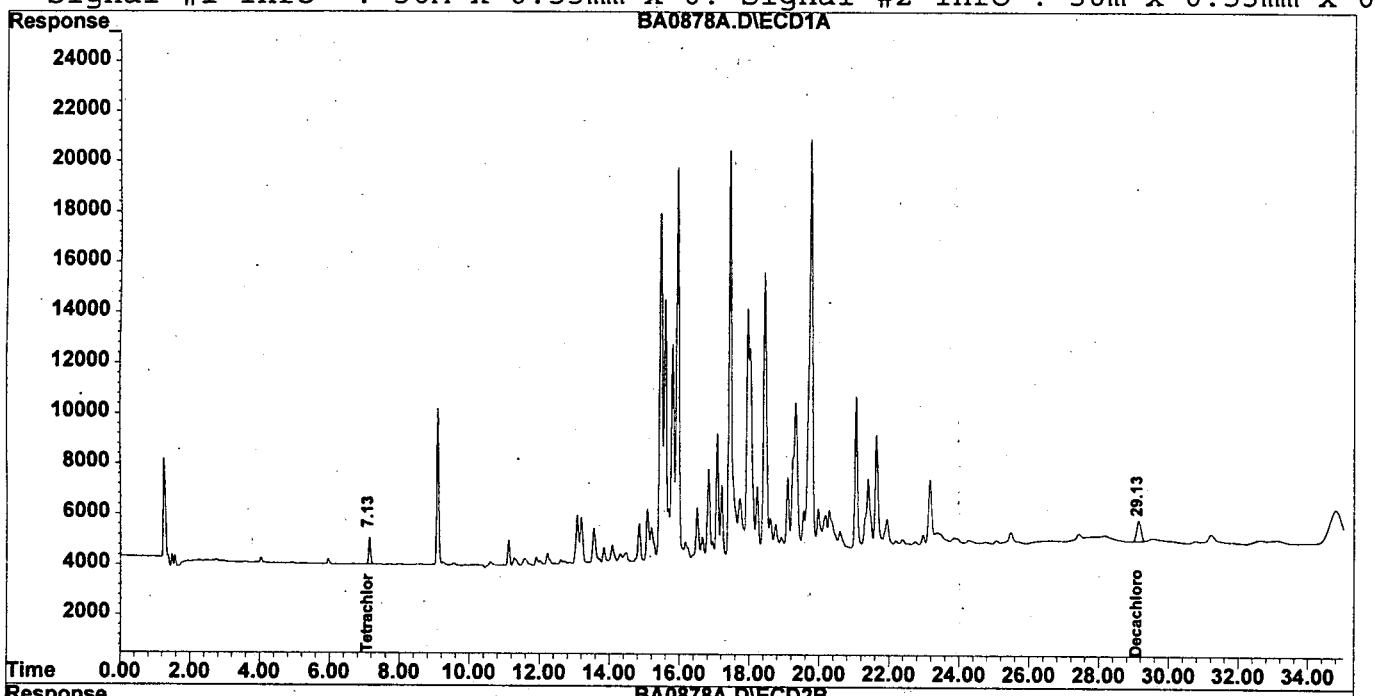
Quantitation Report

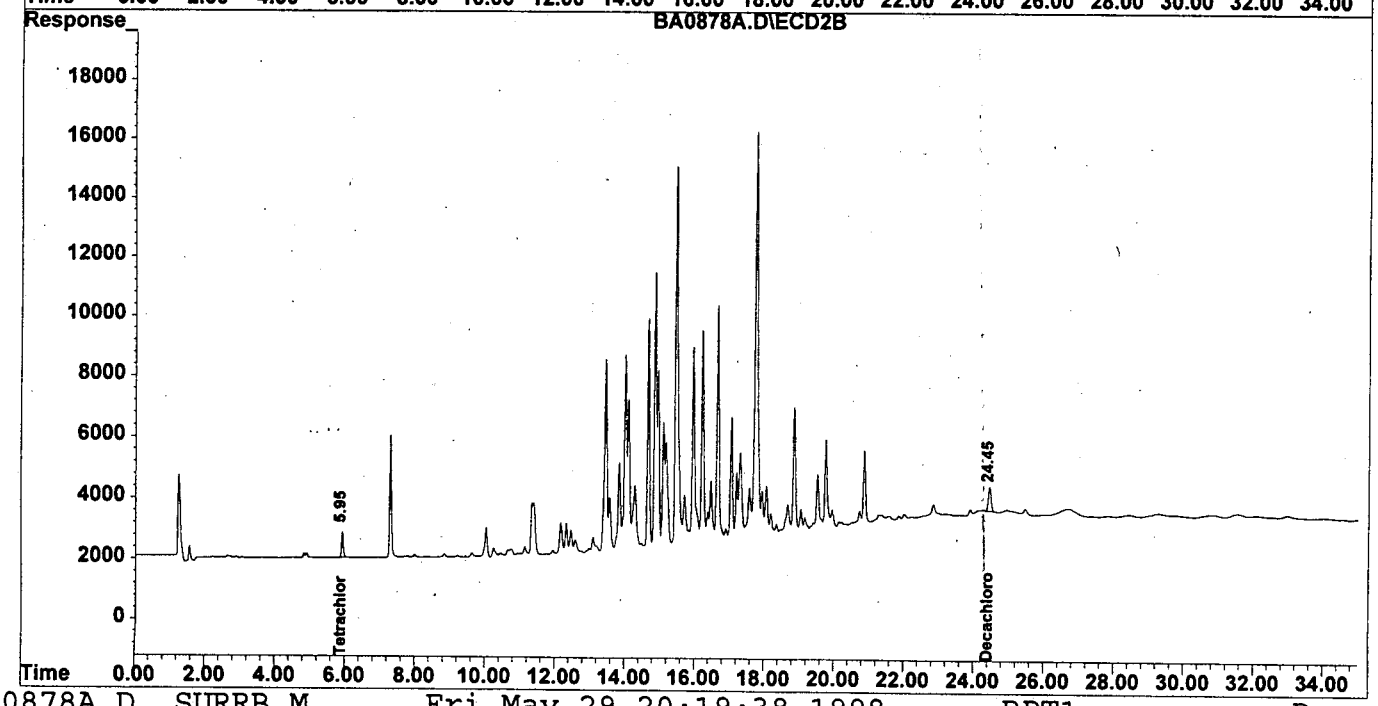
AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0878A.D\ECD1A.CH Vial: 27
Signal #2 : E:\WESTDA~1\BA0878A.D\ECD2B.CH
Acq On : 12 Dec 97 5:06 Operator:
Sample : 278214 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:29 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 2 8 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278215
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: LLLLND2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/12/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	61.31%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U J	U	860	430
Aroclor-1221	U	U	1700	1200
Aroclor-1232	U	U	860	690
Aroclor-1242	U	U	860	430
Aroclor-1248	U	U	860	520
Aroclor-1254	15000 ~~14000~~	U	860	600
Aroclor-1260	U	U	860	690

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0879.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_B\BA0879.D\ECD2B.CH
Acq On : 12 Dec 97 5:45 Operator:
Sample : 278215 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 12:10 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.95	40187	28808	4.436	4.448
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.09%#	11.12%#
2) SA Decachlorobiphen	29.13	24.45	74077	49216	4.922	5.519m
Spiked Amount 40.000 Range 24 - 154 Recovery =					12.31%#	13.80%#
Target Compounds						
5) L1 Aroclor-1016{2}	0.00	10.26	0	6763	N.D.	11.947 #
6) L1 Aroclor-1016{4}	0.00	12.17	0	57428	N.D.	223.858 #
7) L1 Aroclor-1016{5}	13.19	14.02	95304	552825	291.868	3748.477 #
Sum Aroclor-1016			95304	617016	291.868	3984.282
Average Aroclor-1016					291.868	1328.094
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
12) L3 Aroclor-1232{2}	0.00	10.04	0	8922	N.D.	213.571 #
13) L3 Aroclor-1232{3}	0.00	11.35	0	197634	N.D.	2372.525 #
14) L3 Aroclor-1232{4}	0.00	13.09	0	14170	N.D.	250.469 #
Sum Aroclor-1232			0	220726	N.D.	2836.564
Average Aroclor-1232					0.000	945.521
16) L4 Aroclor-1242{2}	0.00	10.04	0	8922	N.D.	116.243 #
17) L4 Aroclor-1242{3}	11.34	0.00	16940	0	152.794	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.17	0	57428	N.D.	248.166 #
19) L4 Aroclor-1242{5}	14.08	14.30	56845	168445	156.429	1884.691 #
Sum Aroclor-1242			73784	234795	309.223	2249.100
Average Aroclor-1242					154.611	749.700
20) L5 Aroclor-1248{1}	0.00	10.26	0	6763	N.D.	16.237 #
21) L5 Aroclor-1248{2}	0.00	12.17	0	57428	N.D.	169.465 #
22) L5 Aroclor-1248{3}	13.19	12.48	95304	39357	230.582	124.334 #
23) L5 Aroclor-1248{4}	14.08	13.46	56845	532829	114.529	1980.195 #
24) L5 Aroclor-1248{5}	0.00	15.47	0	1002464	N.D.	7959.085 #
Sum Aroclor-1248			152148	1638841	345.110	10249.316
Average Aroclor-1248					172.555	2049.863

00 539

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0879.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_B\BA0879.D\ECD2B.CH
Acq On : 12 Dec 97 5:45 Operator:
Sample : 278215 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 12:10 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
25) L6 Aroclor-1254{1}	14.08	11.35	56845	197634	418.795	896.430	#
26) L6 Aroclor-1254{2}	15.47	13.46	512095	532829	1388.995	1272.353	
27) L6 Aroclor-1254{3}	15.78	14.86	869226	297603	1886.158	1990.806	
28) L6 Aroclor-1254{4}	18.42	15.47	1006582	1002464	2483.595	2062.982	
29) L6 Aroclor-1254{5}	19.75	17.76	2011038	1191004	2330.275	2620.830	
Sum Aroclor-1254			4455785	3221534	8507.819	8843.401	
Average Aroclor-1254					1701.564	1768.680	
30) L7 Aroclor-1260{1}	0.00	15.96	0	585739	N.D.	1718.587	#
31) L7 Aroclor-1260{2}	18.42	16.66	1006582	613184	1635.263	1508.279	
32) L7 Aroclor-1260{3}	19.97	17.76	127545	1191004	279.528	2309.305	#
33) L7 Aroclor-1260{4}	21.04	19.77	573252	224749	1230.308	358.938	#
34) L7 Aroclor-1260{5}	21.63	20.87	415876	169193	322.603	358.200	
Sum Aroclor-1260			2123255	2783869	3467.702	6253.308	
Average Aroclor-1260					866.926	1250.662	

no no

00 540

12/13/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0879.D\ECD1A.CH Vial: 28
Signal #2 : E:\WESTDA~1\BA0879.D\ECD2B.CH
Acq On : 12 Dec 97 5:45 Operator:
Sample : 278215 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:31 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.95	40083	28464	2.139	2.225
Spiked Amount 40.000 Range 43 - 150 Recovery =					5.35%#	5.56%#
2) SA Decachlorobiphen	29.13	24.45	74077	48736	3.359	5.247 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					8.40%#	13.12%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.08	11.35	58342	196940	429.971m	886.382 #
4) L6 Aroclor-1254{2}	15.47	13.46	511430	528418	1333.300	1260.814
5) L6 Aroclor-1254{3}	15.78	14.86	865679	297347	1644.642	1983.231
6) L6 Aroclor-1254{4}	18.42	15.47	1004400	1002391	2342.461	2015.504
7) L6 Aroclor-1254{5}	19.75	17.76	2009504	1205631	2313.940	2516.085
Sum Aroclor-1254			4449355	3230726	8064.314	8662.016
Average Aroclor-1254					1612.863	1732.403

54 OA

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

AMENDED REPORT (QT Reviewed) MAY 30 1998

ICM Laboratories Quantitation Report

Signal #1 : E:\WESTDA~1\BA0879A.D\ECD1A.CH Vial: 28
Signal #2 : E:\WESTDA~1\BA0879A.D\ECD2B.CH
Acq On : 12 Dec 97 5:45 Operator:
Sample : 278215 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:29 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.95	41570	28464	4.469m	4.710
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.17%#	11.78%#
2) SA Decachlorobiphen	29.13	24.45	74077	48736	4.905	5.866
Spiked Amount 40.000 Range 24 - 154 Recovery =					12.26%#	14.67%#

Target Compounds

5 4 0B 5/30/98

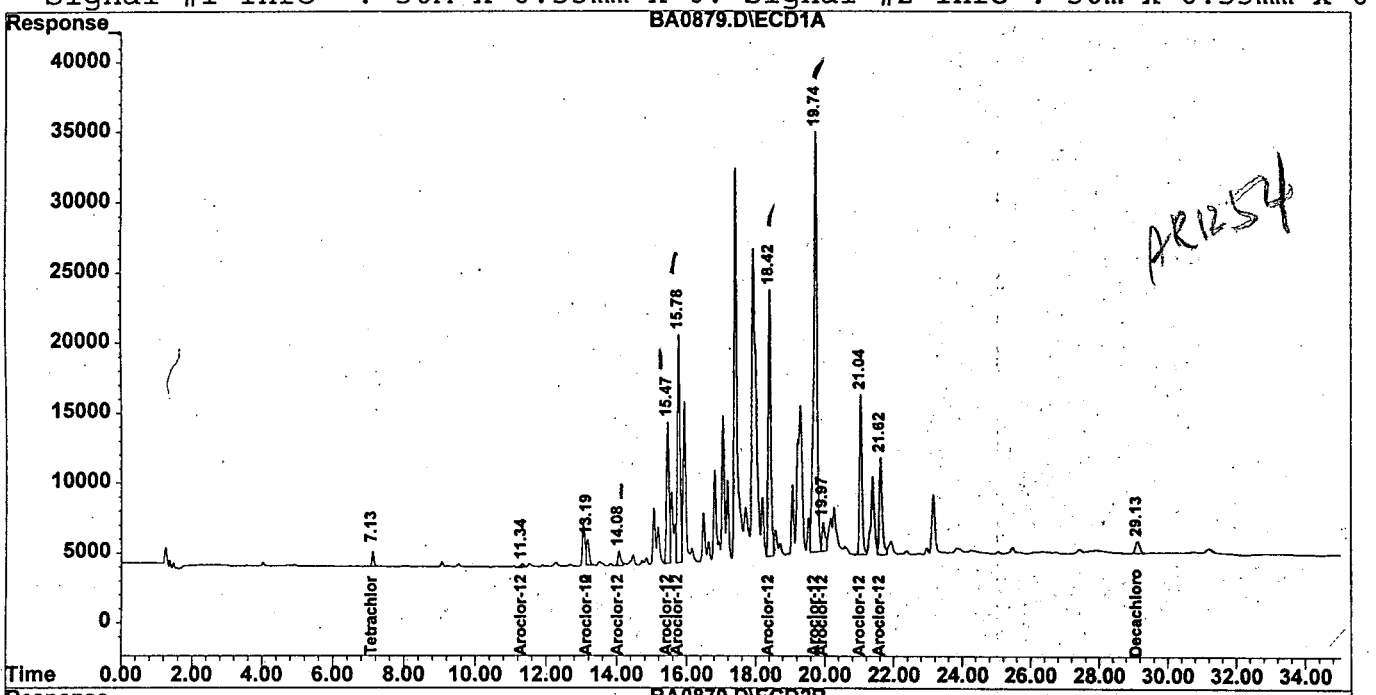
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

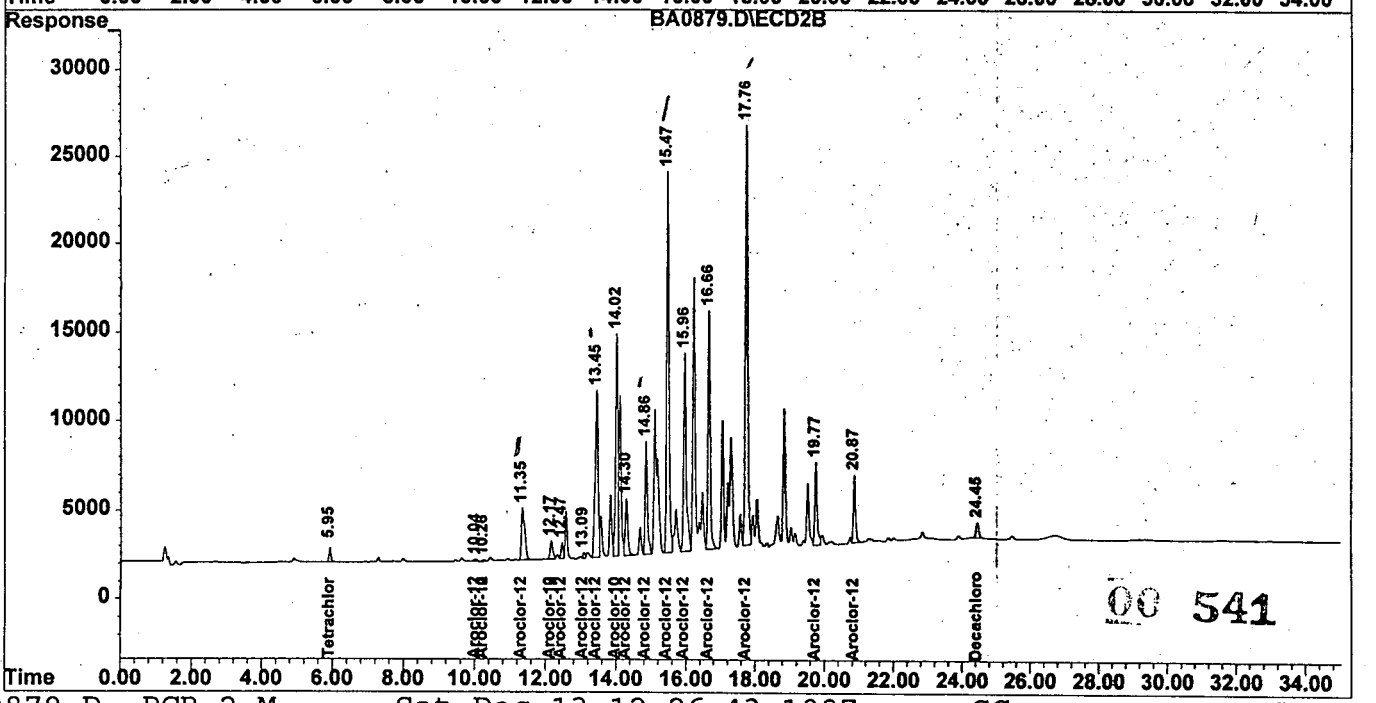
Signal #1 : C:\HPCHEM\1\DATA_B\BA0879.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_B\BA0879.D\ECD2B.CH
Acq On : 12 Dec 97 5:45 Operator:
Sample : 278215 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 12:10 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1254



00 541

Quantitation Report

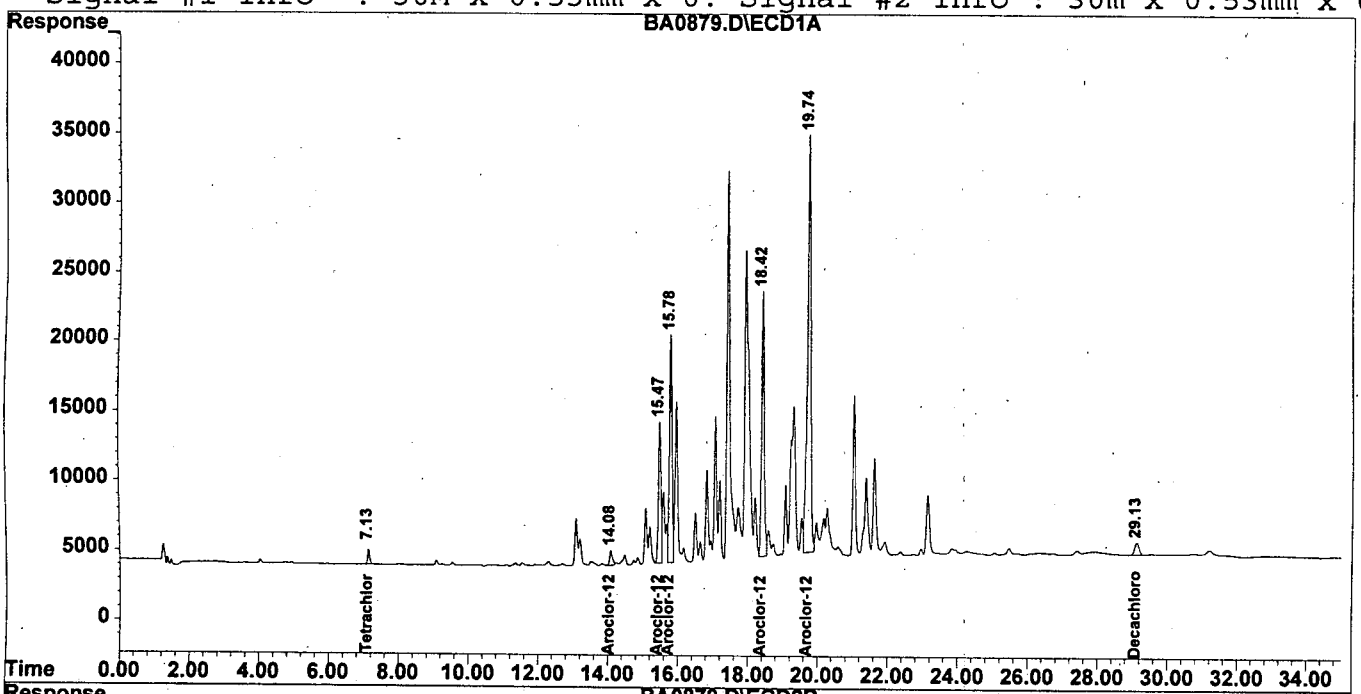
AMENDED REPORT MAY 2 8 1998

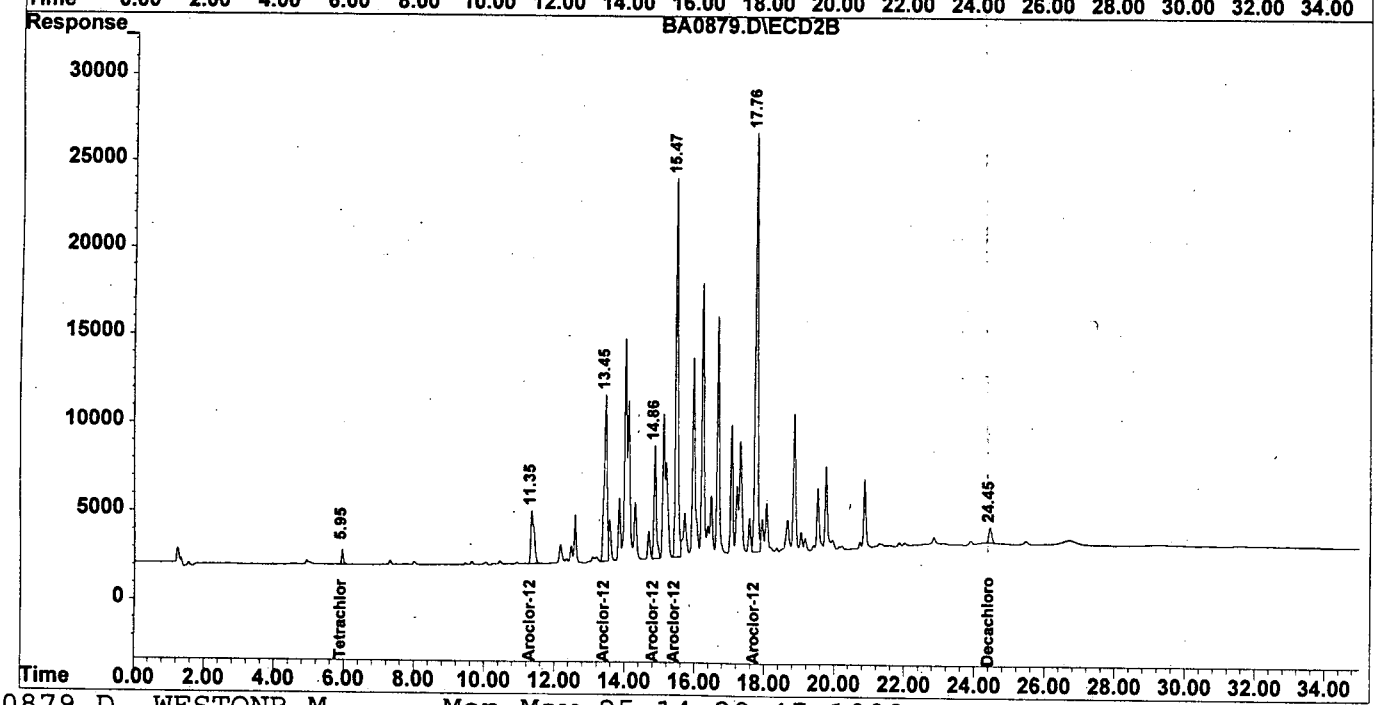
Signal #1 : E:\WESTDA~1\BA0879.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0879.D\ECD2B.CH
Acq On : 12 Dec 97 5:45
Sample : 278215 1:10
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:31 1998 Quant Results File: WESTONB.RES

Vial: 28
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



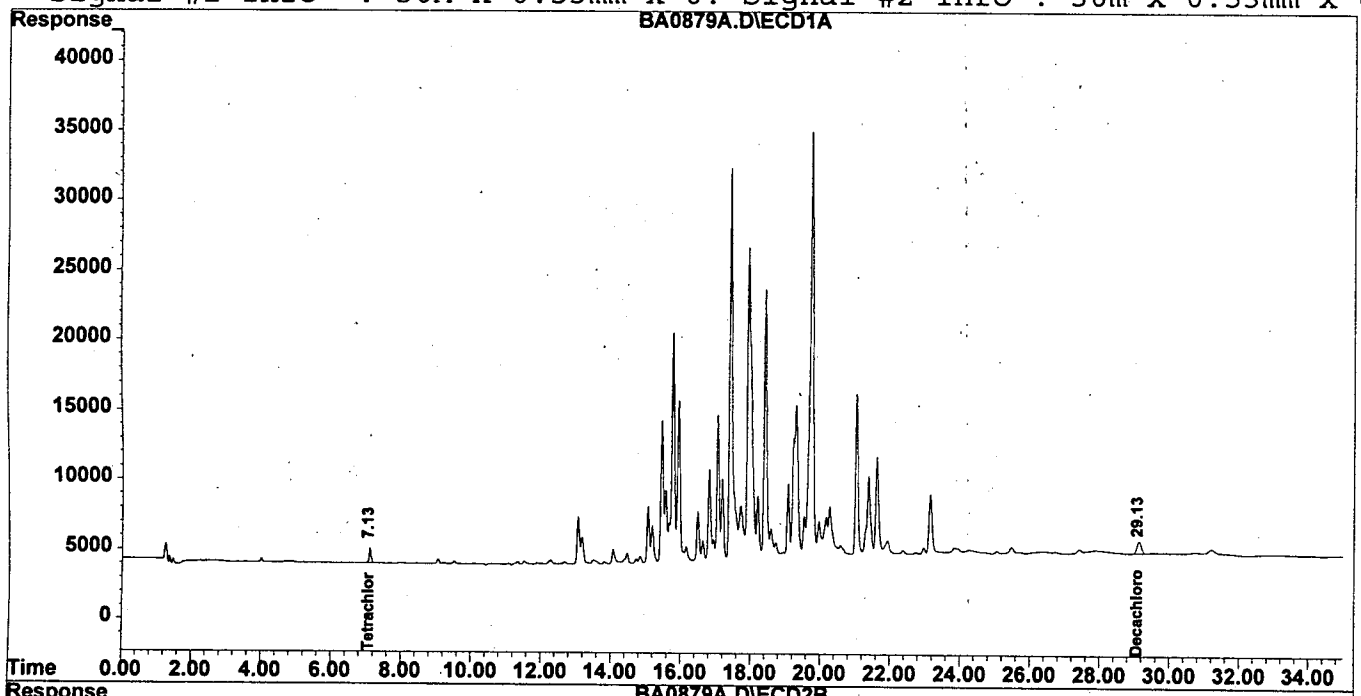


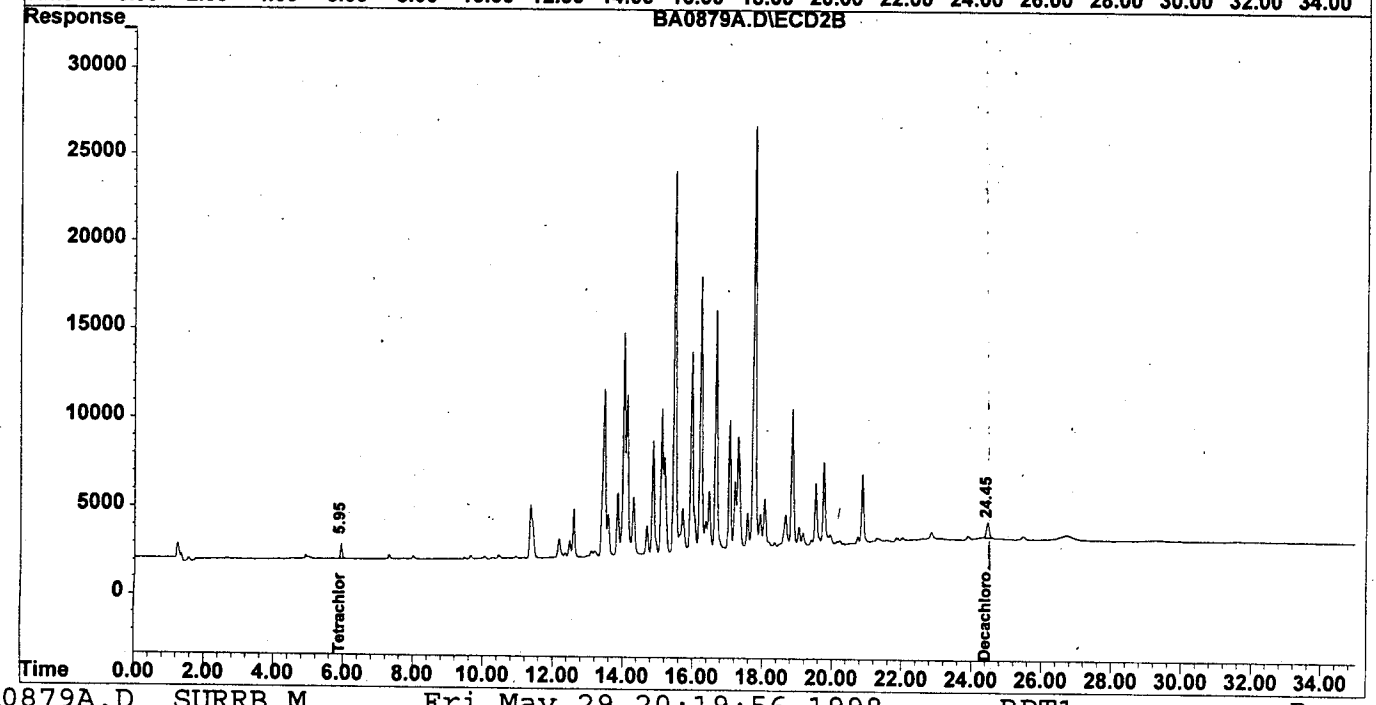
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0879A.D\ECD1A.CH Vial: 28
Signal #2 : E:\WESTDA~1\BA0879A.D\ECD2B.CH
Acq On : 12 Dec 97 5:45 Operator:
Sample : 278215 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:29 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 28 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278216
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: MMMMNS1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/11/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	23.82%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	44	22
Aroclor-1221	U	U	88	61
Aroclor-1232	U	U	44	35
Aroclor-1242	U	U	44	22
Aroclor-1248	U	U	44	26
Aroclor-1254	2200 ~~2000~~ J	U	44	31
Aroclor-1260	U	U	44	35

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0857.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_B\BA0857.D\ECD2B.CH
Acq On : 11 Dec 97 14:23 Operator:
Sample : 278216 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 11 16:05 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	5.95	577477	385491	63.746	59.517
Spiked Amount 40.000 Range 43 - 150 Recovery =					159.37%#	148.79%
2) SA Decachlorobiphen	29.15	24.47	861639	520219	57.256	58.334
Spiked Amount 40.000 Range 24 - 154 Recovery =					143.14%	145.84%
Target Compounds						
3) L1 Aroclor-1016{1}	9.14	8.86	123550	37963	580.421	130.447 #
4) L1 Aroclor-1016{2}	10.65	10.26	61865	112492	131.215	198.719 #
5) L1 Aroclor-1016{3}	11.96	10.67	138200	197298	168.017	736.348 #
6) L1 Aroclor-1016{4}	0.00	12.18	0	469183	N.D.	1828.891 #
7) L1 Aroclor-1016{5}	13.23	14.03	1183955	1134018	3625.871	7689.307 #
Sum Aroclor-1016			1507570	1950954	4505.524	10583.713
Average Aroclor-1016					1126.381	2116.743
8) L2 Aroclor-1221{1}	6.02	0.00	22979	0	261.135	N.D. #
9) L2 Aroclor-1221{2}	0.00	7.47	0	7166	N.D.	101.627 #
10) L2 Aroclor-1221{3}	9.14	0.00	123550	0	408.154	N.D. #
Sum Aroclor-1221			146529	7166	669.289	101.627
Average Aroclor-1221					334.644	101.627
11) L3 Aroclor-1232{1}	0.00	8.86	0	37963	N.D.	262.318 #
12) L3 Aroclor-1232{2}	9.14	10.03	123550	223695	604.556	5354.694 #
13) L3 Aroclor-1232{3}	10.65	11.41	61865	1017478	285.032	12214.479 #
14) L3 Aroclor-1232{4}	11.96	13.11	138200	129458	393.694	2283.254 #
Sum Aroclor-1232			323615	1408593	1283.282	20119.744
Average Aroclor-1232					427.761	5029.936
15) L4 Aroclor-1242{1}	9.14	8.86	123550	37963	673.974	151.919 #
16) L4 Aroclor-1242{2}	10.65	10.03	61865	223695	168.716	2914.479 #
17) L4 Aroclor-1242{3}	0.00	11.02	0	23697	N.D.	146.906 #
18) L4 Aroclor-1242{4}	0.00	12.18	0	469183	N.D.	2027.485 #
19) L4 Aroclor-1242{5}	14.12	14.31	404767	616693	1113.863	6900.053 #
Sum Aroclor-1242			590182	1371230	1956.553	12140.842
Average Aroclor-1242					652.184	2428.168

GC 543

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0857.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_B\BA0857.D\ECD2B.CH
Acq On : 11 Dec 97 14:23 Operator:
Sample : 278216 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 11 16:05 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
20) L5	Aroclor-1248{1}	10.52	10.26	32757	112492	168.853	270.083 #
21) L5	Aroclor-1248{2}	0.00	12.18	0	469183	N.D.	1384.508 #
22) L5	Aroclor-1248{3}	13.23	12.48	1183955	269071	2864.512	850.037 #
23) L5	Aroclor-1248{4}	0.00	13.47	0	1357868	N.D.	5046.354 #
24) L5	Aroclor-1248{5}	0.00	15.48	0	2539271	N.D.	20160.594 #
Sum	Aroclor-1248			1216712	4747884	3033.365	27711.576
Average	Aroclor-1248					1516.683	5542.315
25) L6	Aroclor-1254{1}	14.12	11.38	404767	329702	2982.062	1495.467m#
26) L6	Aroclor-1254{2}	15.50	13.47	2164611	1357868	5871.243	3242.480 #
27) L6	Aroclor-1254{3}	15.82	14.88	1771749	1005076	3844.571	6723.414 #
28) L6	Aroclor-1254{4}	18.45	15.48	2311211	2539271	5702.577	5225.594
29) L6	Aroclor-1254{5}	19.77	17.77	4759900	2961419	5515.499	6516.664
Sum	Aroclor-1254			11412238	8193335	23915.951	23203.619
Average	Aroclor-1254					4783.190	4640.724
30) L7	Aroclor-1260{1}	18.03	15.97	1617374	1286138	3107.694	3773.589
31) L7	Aroclor-1260{2}	18.45	16.67	2311211	1292924	3754.724	3180.267
32) L7	Aroclor-1260{3}	19.99	17.77	376456	2961419	825.043	5742.060 #
33) L7	Aroclor-1260{4}	21.06	19.78	1231146	581657	2642.273	928.942 #
34) L7	Aroclor-1260{5}	21.64	20.88	1106312	471504	858.189	998.225
Sum	Aroclor-1260			6642500	6593641	11187.923	14623.084
Average	Aroclor-1260					2237.585	2924.617

00 544

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0857.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\BA0857.D\ECD2B.CH
Acq On : 11 Dec 97 14:23 Operator:
Sample : 278216 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:24 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.20	5.95	571740	377014	30.510	29.474	
Spiked Amount 40.000 Range 43 - 150 Recovery =					76.28%	73.69%	
2) SA Decachlorobiphen	29.15	24.47	861639	543912	39.072	58.554	#
Spiked Amount 40.000 Range 24 - 154 Recovery =					97.68%	146.39%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.12	11.41	376200	952571	2772.529m	4287.310	#
4) L6 Aroclor-1254{2}	15.50	13.47	2132329	1339463	5558.993	3195.985	#
5) L6 Aroclor-1254{3}	15.82	14.88	1747274	982849	3319.520	6555.354	#
6) L6 Aroclor-1254{4}	18.45	15.48	2287982	2497986	5336.030	5022.693	
7) L6 Aroclor-1254{5}	19.77	17.77	4738925	2877648	5456.863	6005.491	
Sum Aroclor-1254			11282711	8650517	22443.935	25066.833	
Average Aroclor-1254					4488.787	5013.367	

544A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT VIAL: MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0857A.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0857A.D\ECD2B.CH
Acq On : 11 Dec 97 14:23
Sample : 278216
Misc : QPC7395

Operator:
Inst : GC_5890_2
Multiplr: 1.00

IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:25 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	5.95	552960	360535	59.441m	59.664m
Spiked Amount 40.000 Range 43 - 150 Recovery =					148.60%	149.16%
2) SA Decachlorobiphen	29.15	24.46	861639	510963	57.054	61.506m
Spiked Amount 40.000 Range 24 - 154 Recovery =					142.64%	153.77%

Target Compounds

5 4 40 [illegible]

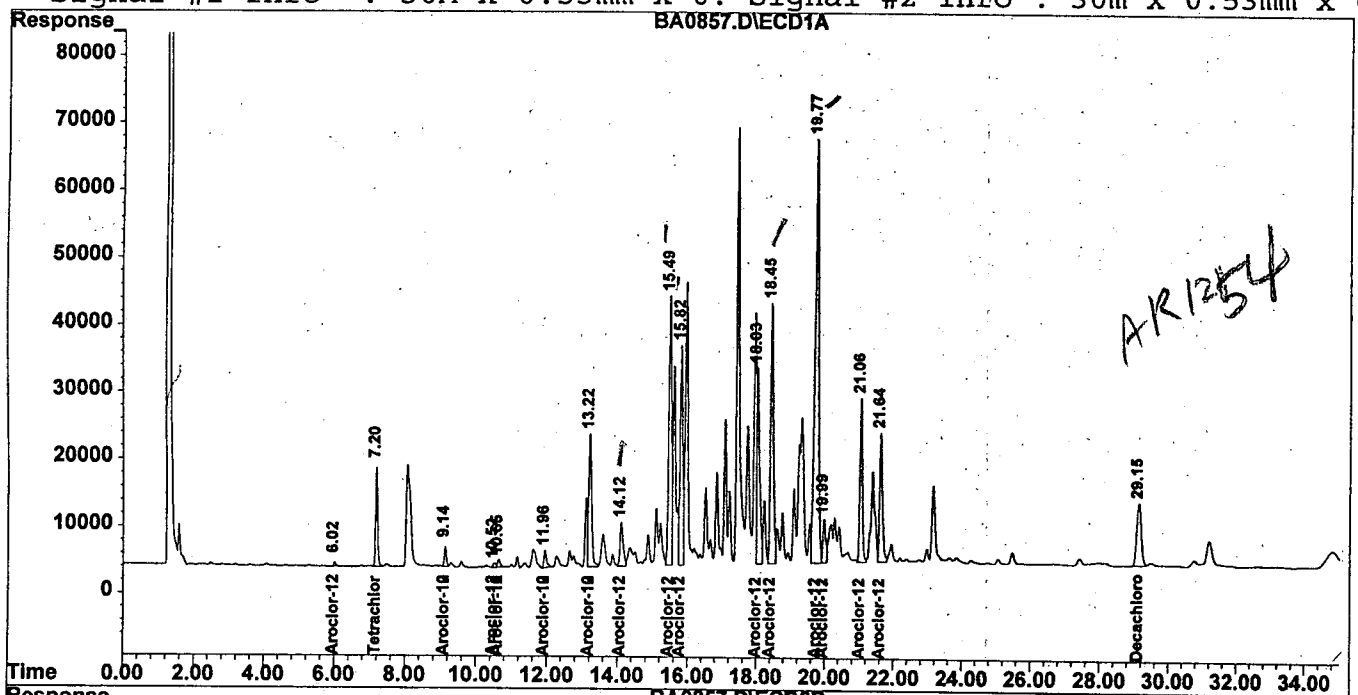
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

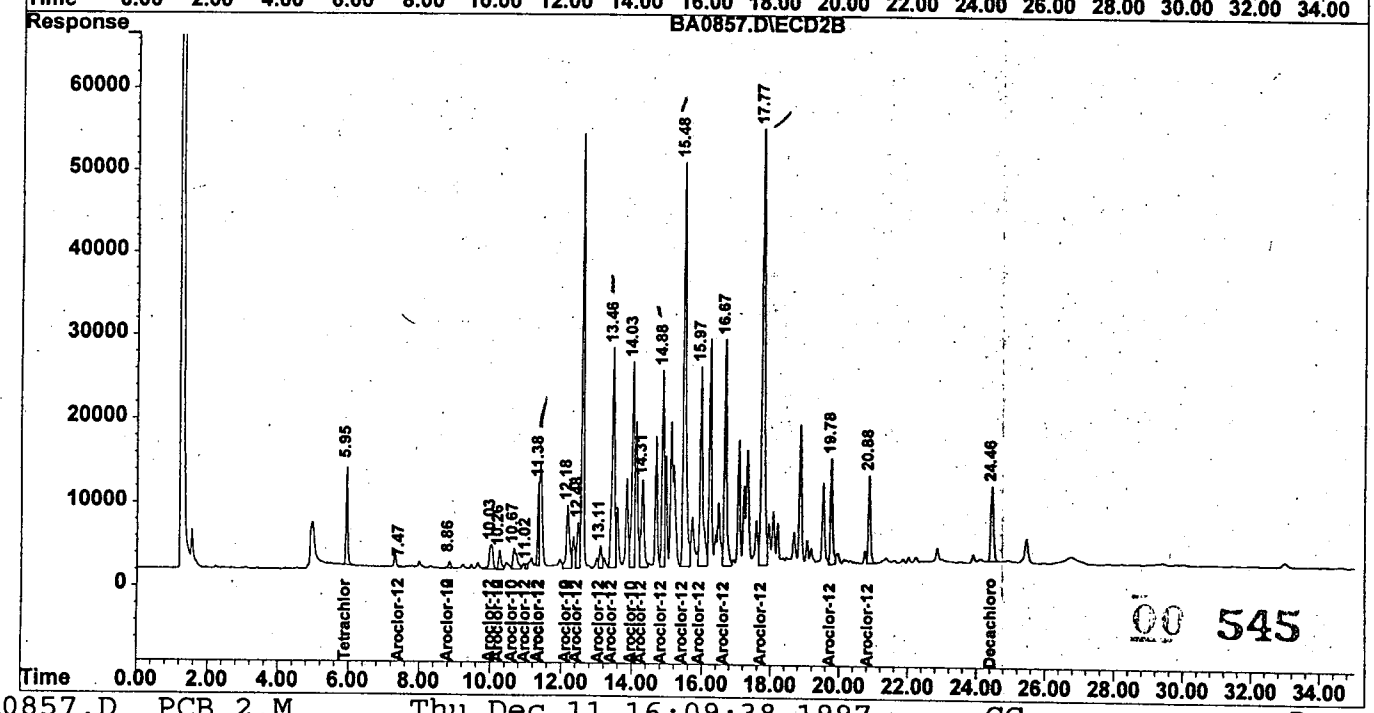
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0857.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_B\BA0857.D\ECD2B.CH
Acq On : 11 Dec 97 14:23 Operator:
Sample : 278216 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 11 16:05 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





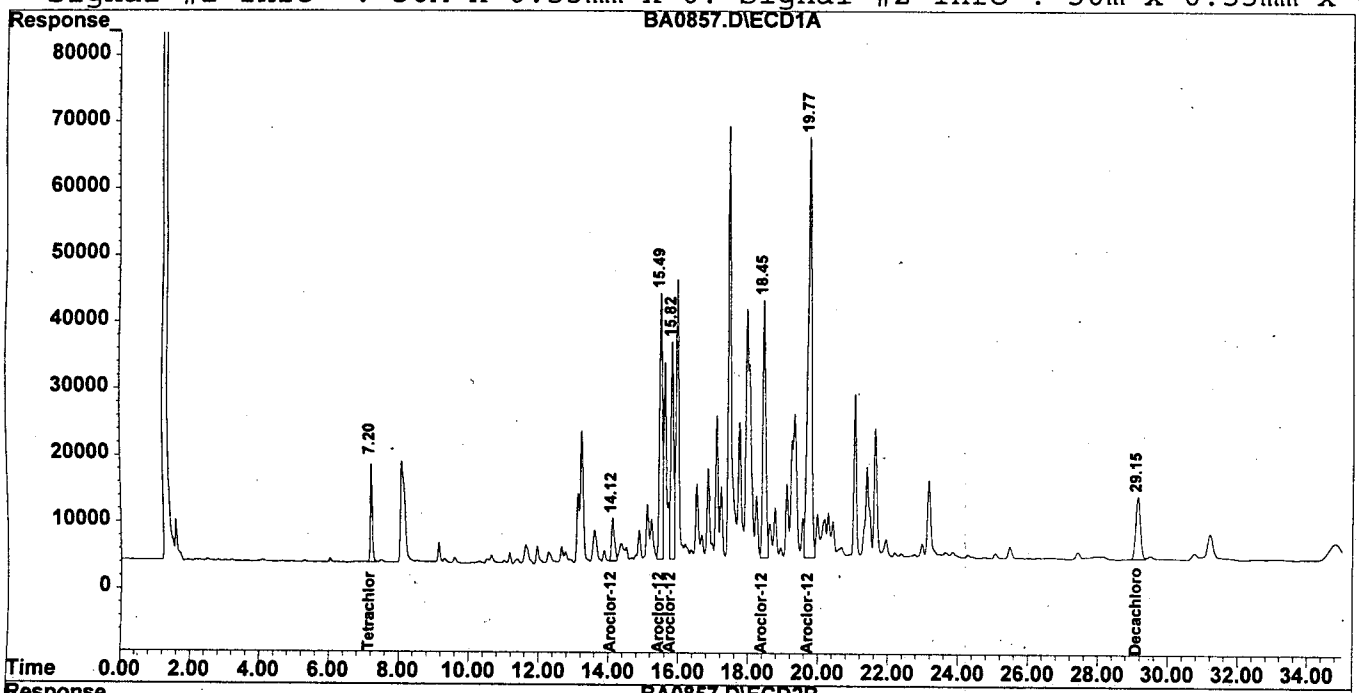
Quantitation Report

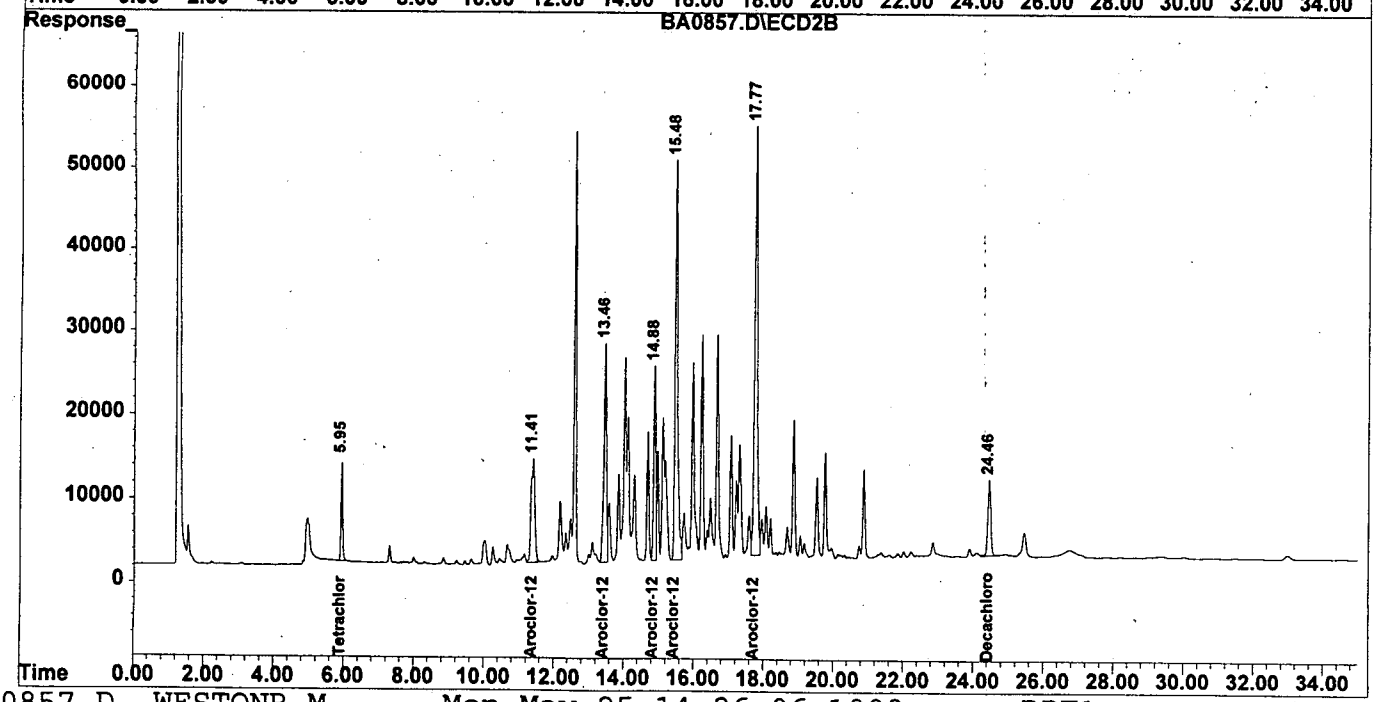
AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0857.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\BA0857.D\ECD2B.CH
Acq On : 11 Dec 97 14:23 Operator:
Sample : 278216 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:24 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





5 4 5A

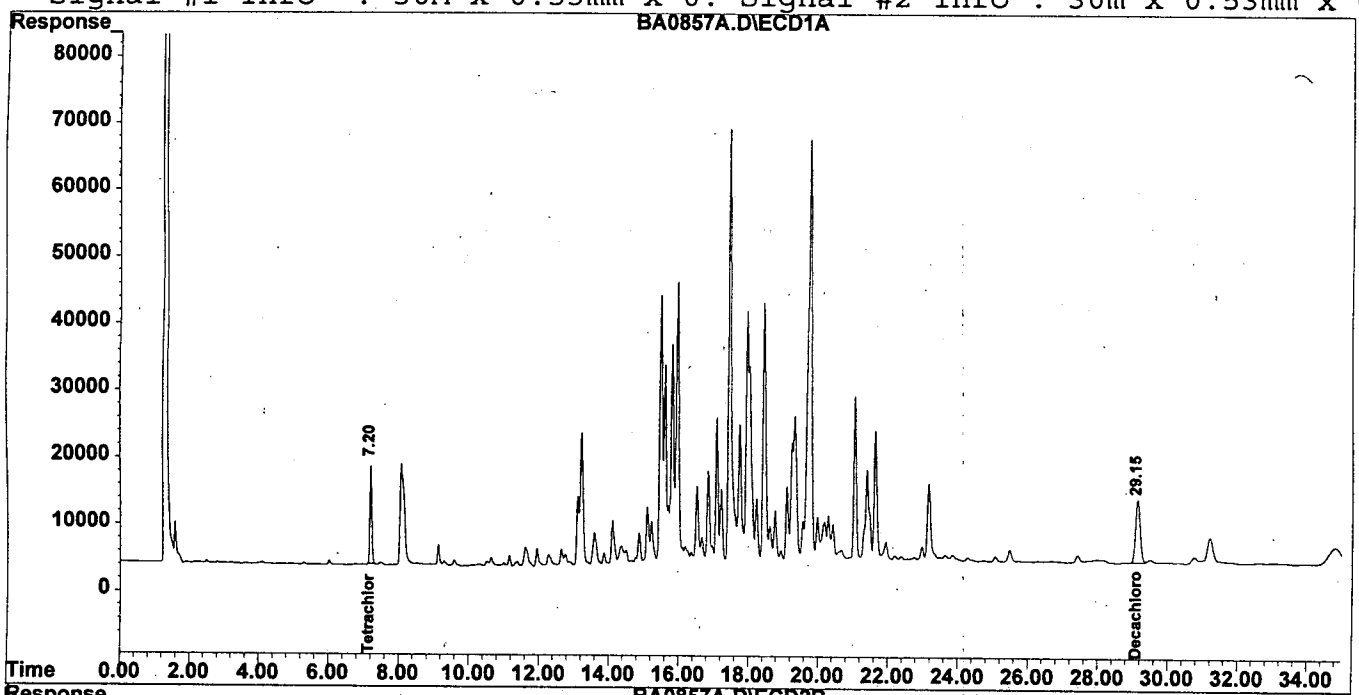
Quantitation Report

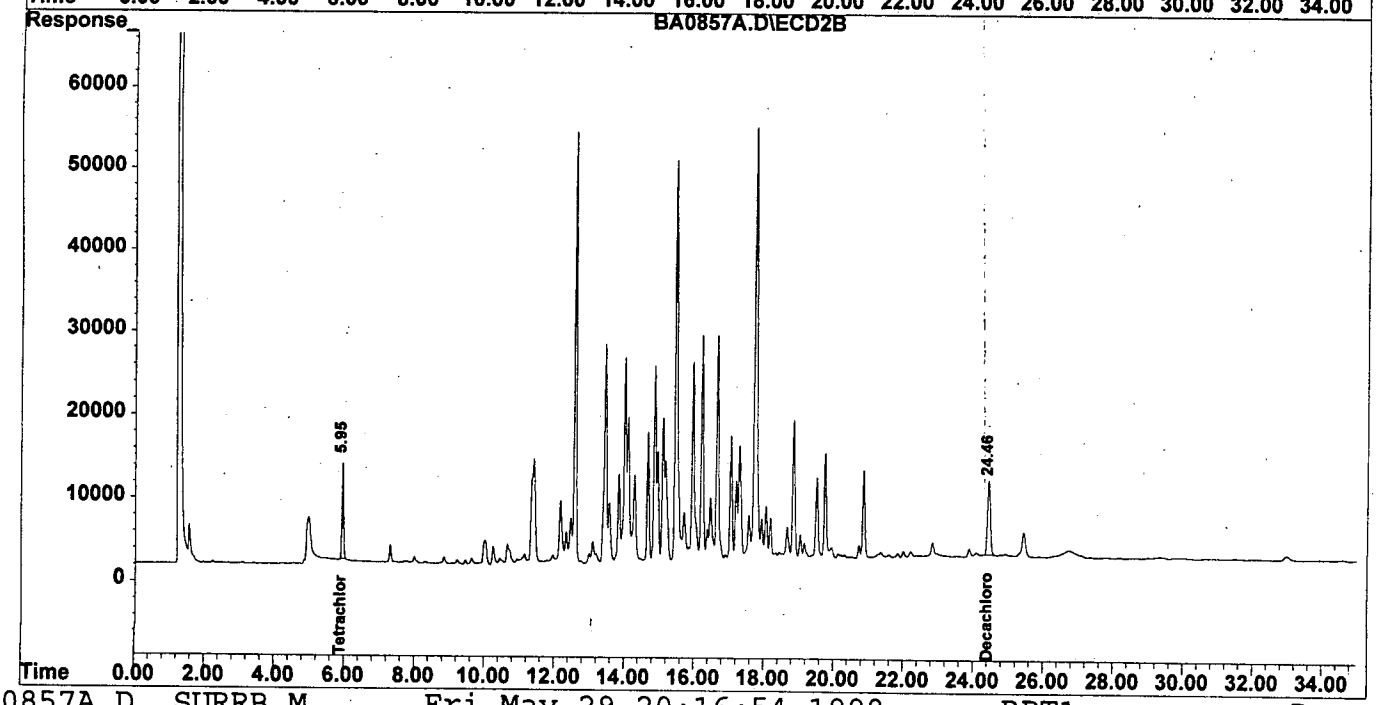
AMENDED REPORT MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0857A.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\BA0857A.D\ECD2B.CH
Acq On : 11 Dec 97 14:23 Operator:
Sample : 278216 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:25 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 28 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278217
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: MMMMNS2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/11/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	16.26%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	40	20
Aroclor-1221	U	U	80	56
Aroclor-1232	U	U	40	32
Aroclor-1242	U	U	40	20
Aroclor-1248	U	U	40	24
Aroclor-1254	~~1200~~ 1400	U	40	28
Aroclor-1260	U	U	40	32

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0858.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_B\BA0858.D\ECD2B.CH
Acq On : 11 Dec 97 15:02 Operator:
Sample : 278217 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 11 16:06 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.20	5.95	375251	276077	41.423	42.624	
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.56%	106.56%	
2) SA Decachlorobiphen	29.15	24.46	586135	377314	38.949	42.310	
Spiked Amount 40.000 Range 24 - 154 Recovery =					97.37%	105.78%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.14	8.85	84528	41156	397.101	141.421	#
4) L1 Aroclor-1016{2}	10.65	10.26	117345	72614	248.886	128.274	#
5) L1 Aroclor-1016{3}	11.96	10.67	76149	169477	92.579	632.514	#
6) L1 Aroclor-1016{4}	0.00	12.18	0	323931	N.D.	1262.694	#
7) L1 Aroclor-1016{5}	13.23	14.03	817129	799193	2502.463	5418.993	#
Sum Aroclor-1016			1095151	1406370	3241.028	7583.896	
Average Aroclor-1016					810.257	1516.779	
8) L2 Aroclor-1221{1}	6.02	0.00	9792	0	111.280	N.D.	#
10) L2 Aroclor-1221{3}	9.14	0.00	84528	0	279.242	N.D.	#
Sum Aroclor-1221			94320	0	390.523	N.D.	
Average Aroclor-1221					195.261	0.000	
11) L3 Aroclor-1232{1}	0.00	8.85	0	41156	N.D.	284.385	#
12) L3 Aroclor-1232{2}	9.14	10.03	84528	157328	413.613	3766.039	#
13) L3 Aroclor-1232{3}	10.65	11.41	117345	791745	540.644	9504.629	#
14) L3 Aroclor-1232{4}	11.96	13.11	76149	59019	216.929	1043.191	#
Sum Aroclor-1232			278022	1049248	1171.185	14598.244	
Average Aroclor-1232					390.395	3649.561	
15) L4 Aroclor-1242{1}	9.14	8.85	84528	41156	461.106	164.699	#
16) L4 Aroclor-1242{2}	10.65	10.03	117345	157328	320.018	2049.798	#
17) L4 Aroclor-1242{3}	0.00	11.02	0	13968	N.D.	86.594	#
18) L4 Aroclor-1242{4}	0.00	12.18	0	323931	N.D.	1399.807	#
19) L4 Aroclor-1242{5}	14.12	14.31	291174	433973	801.270	4855.637	#
Sum Aroclor-1242			493046	970356	1582.394	8556.534	
Average Aroclor-1242					527.465	1711.307	
20) L5 Aroclor-1248{1}	10.65	10.26	117345	72614	604.884	174.340	#

00 547

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0858.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_B\BA0858.D\ECD2B.CH
Acq On : 11 Dec 97 15:02 Operator:
Sample : 278217 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 11 16:06 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
21) L5	Aroclor-1248{2}	0.00	12.18	0	323931	N.D.	955.885 #
22) L5	Aroclor-1248{3}	13.12	12.48	347156	166132	839.924	524.836 #
23) L5	Aroclor-1248{4}	14.12	13.46	291174	982158	586.646	3650.075 #
24) L5	Aroclor-1248{5}	0.00	15.48	0	1816680	N.D.	14423.571 #
Sum	Aroclor-1248			755674	3361515	2031.453	19728.707
Average	Aroclor-1248					677.151	3945.741
						NO	NO
25) L6	Aroclor-1254{1}	14.12	11.38	291174	237428	2145.181	1076.930m#
26) L6	Aroclor-1254{2}	15.49	13.46	1527148	982158	4142.202	2345.316 #
27) L6	Aroclor-1254{3}	15.82	14.88	1242369	676508	2695.854	4525.470 #
28) L6	Aroclor-1254{4}	18.45	15.48	1559451	1816680	3847.718	3738.566
29) L6	Aroclor-1254{5}	19.77	17.77	3103551	2003683	3596.217	4409.147
Sum	Aroclor-1254			7723693	5716457	16427.172	16095.429
Average	Aroclor-1254					3285.434	3219.086
30) L7	Aroclor-1260{1}	17.96	15.97	2538458	882982	4877.504	2590.712 #
31) L7	Aroclor-1260{2}	18.45	16.67	1559451	865264	2533.437	2128.332
32) L7	Aroclor-1260{3}	19.99	17.77	235925	2003683	517.055	3885.053 #
33) L7	Aroclor-1260{4}	21.06	19.78	811090	377493	1740.752	602.880 #
34) L7	Aroclor-1260{5}	21.64	20.88	671282	289632	520.727	613.183
Sum	Aroclor-1260			5816206	4419055	10189.476	9820.160
Average	Aroclor-1260					2037.895	1964.032
						NO	NO

548

PB 12/4/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0858.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\BA0858.D\ECD2B.CH
Acq On : 11 Dec 97 15:02 Operator:
Sample : 278217 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:25 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.20	5.95	374046	270097	19.961	21.115	
Spiked Amount 40.000 Range 43 - 150 Recovery =					49.90%	52.79%	
2) SA Decachlorobiphen	29.15	24.46	586528	374988	26.596	40.369	#
Spiked Amount 40.000 Range 24 - 154 Recovery =					66.49%	100.92%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.12	11.41	272634	803595	2009.266m	3616.803	#
4) L6 Aroclor-1254{2}	15.49	13.46	1497187	972840	3903.174	2321.216	#
5) L6 Aroclor-1254{3}	15.82	14.88	1219875	666321	2317.553	4444.190	#
6) L6 Aroclor-1254{4}	18.45	15.48	1539057	1800601	3589.387	3620.463	
7) L6 Aroclor-1254{5}	19.77	17.77	3085993	1996677	3553.515	4166.952	
Sum Aroclor-1254			7614746	6240034	~~15372.894~~	18169.625	
Average Aroclor-1254					3074.579	3633.925	

5 4 8A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0858A.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\BA0858A.D\ECD2B.CH
Acq On : 11 Dec 97 15:02 Operator:
Sample : 278217 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	5.95	374046	270097	40.208	44.698
Spiked Amount 40.000 Range 43 - 150 Recovery =					100.52%	111.75%
2) SA Decachlorobiphen	29.15	24.46	586528	374988	38.838	45.138
Spiked Amount 40.000 Range 24 - 154 Recovery =					97.10%	112.85%

Target Compounds

5 4 8B 7/25/98

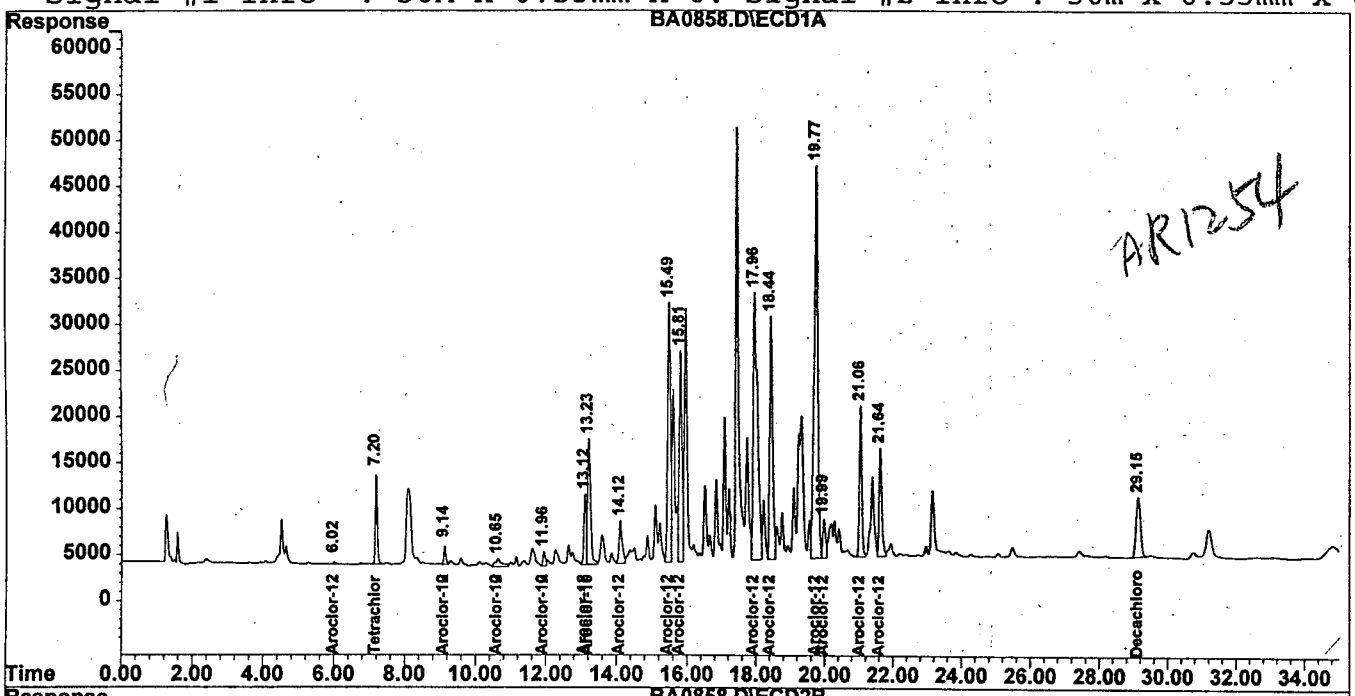
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

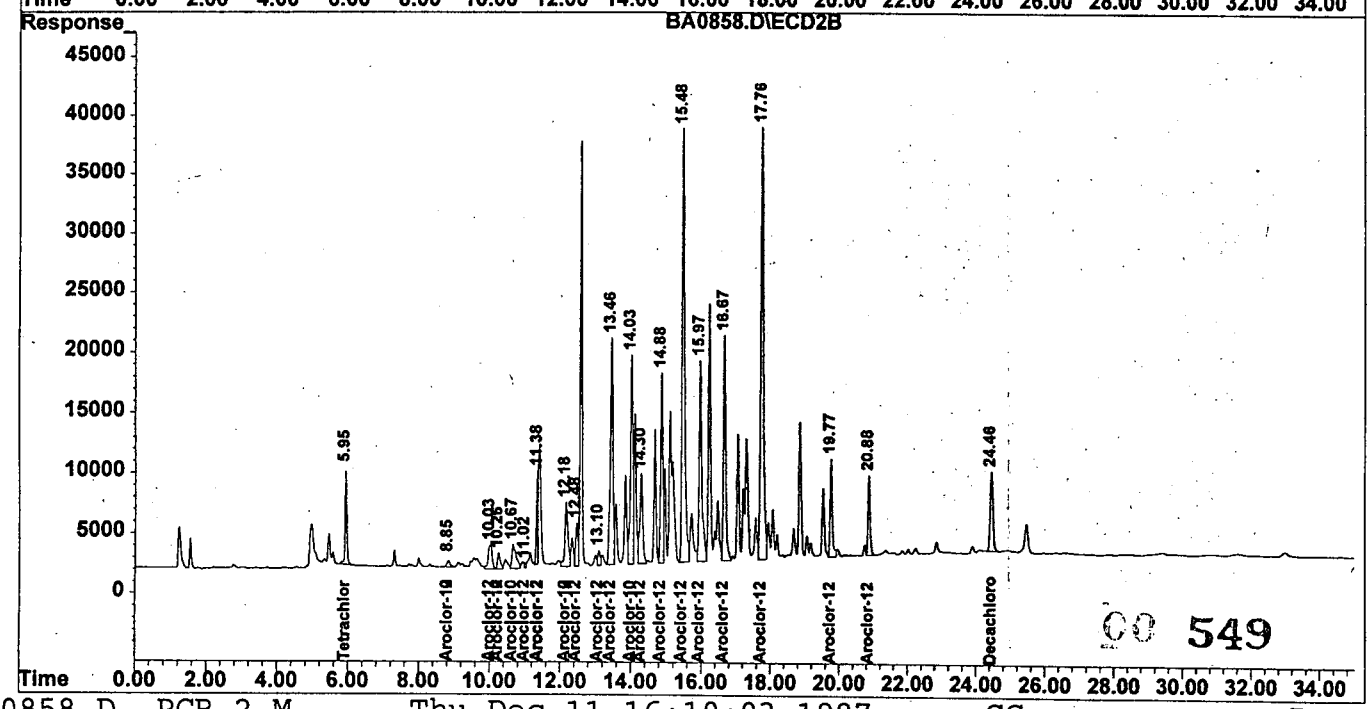
Signal #1 : C:\HPCHEM\1\DATA_B\BA0858.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_B\BA0858.D\ECD2B.CH
Acq On : 11 Dec 97 15:02 Operator:
Sample : 278217 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 11 16:06 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1254



CO 549

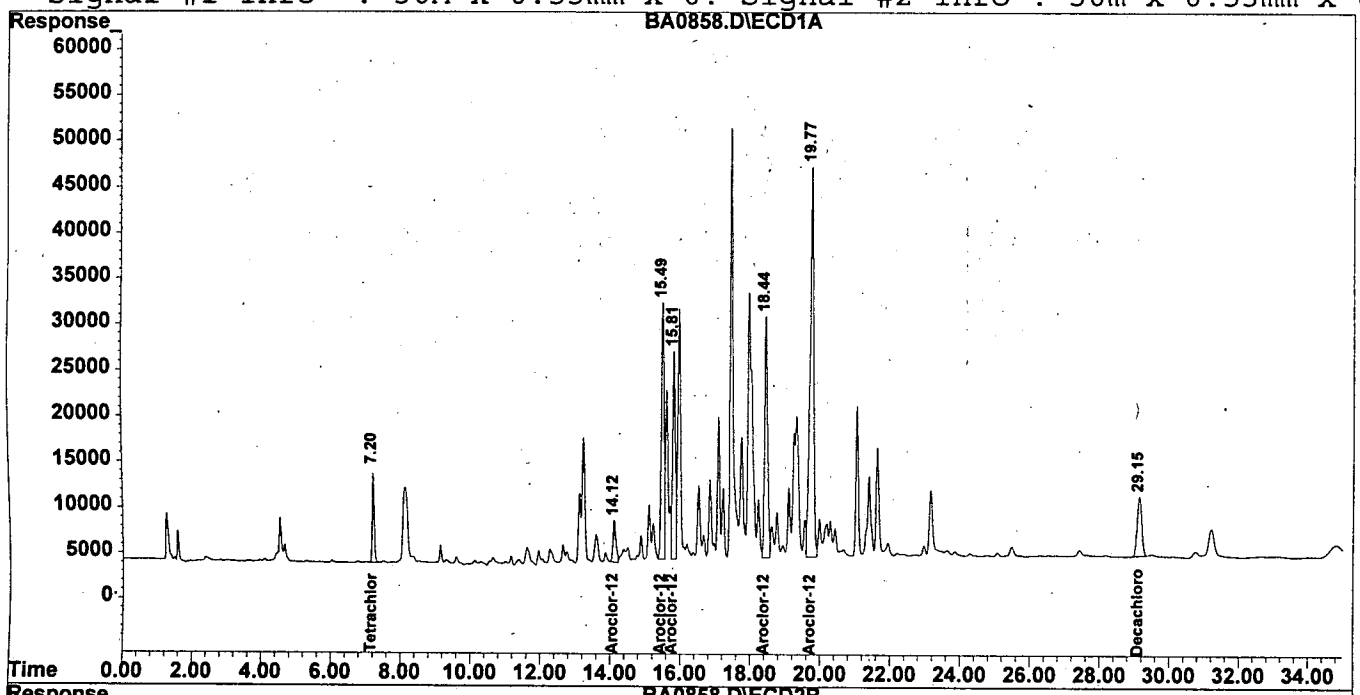
Quantitation Report

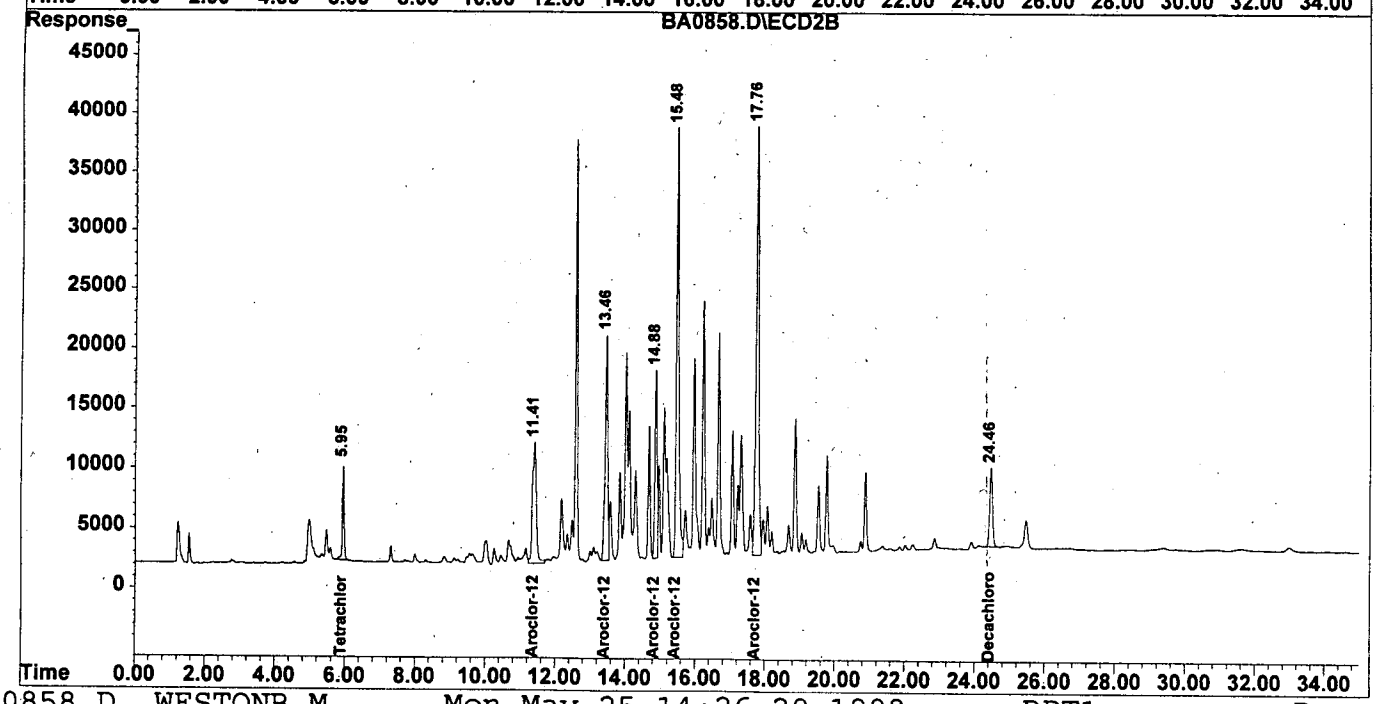
AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0858.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\BA0858.D\ECD2B.CH
Acq On : 11 Dec 97 15:02 Operator:
Sample : 278217 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:25 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





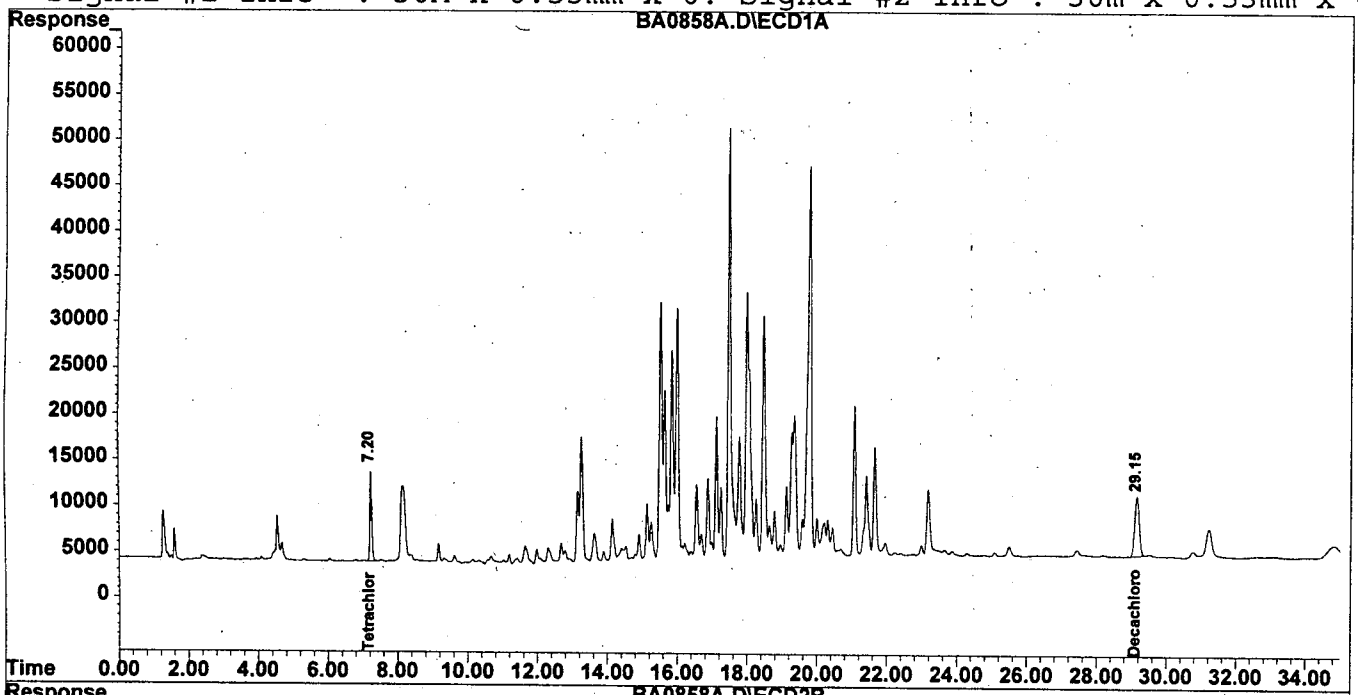
Quantitation Report

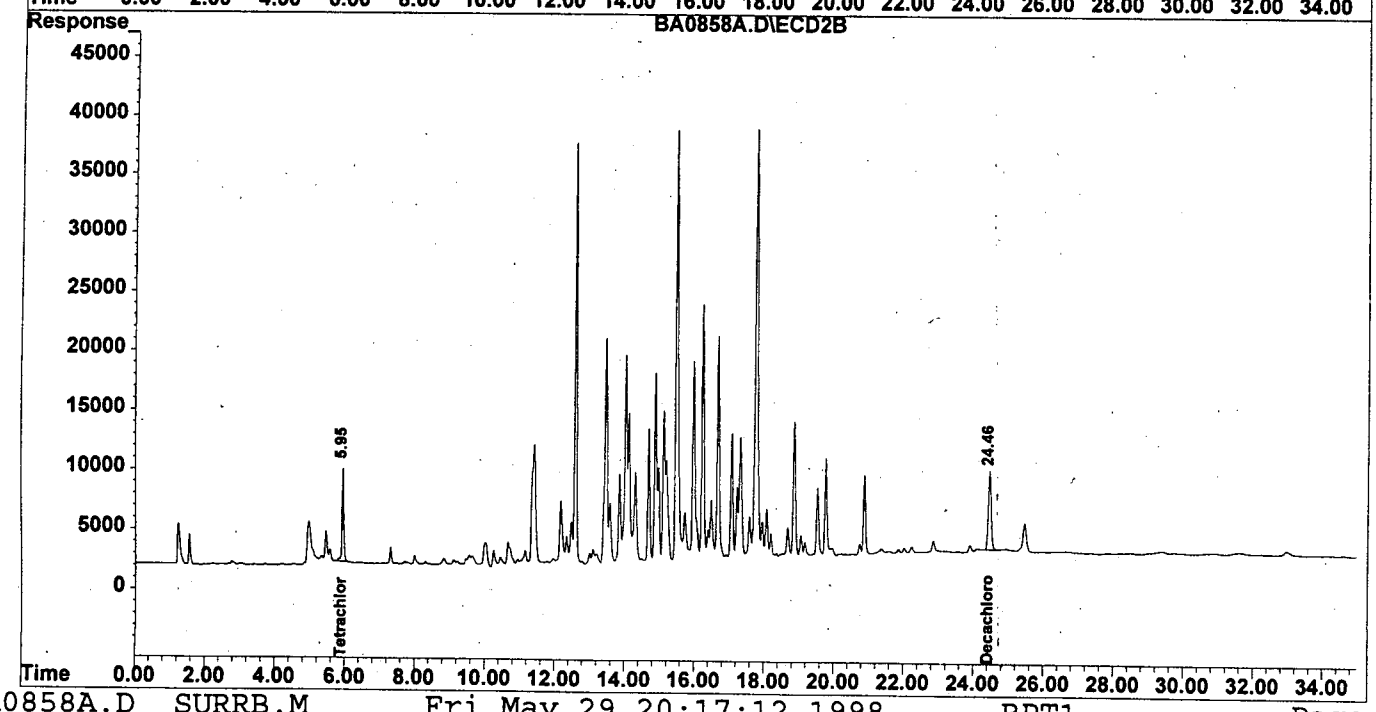
AMENDED REPORT MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0858A.D\ECD1A.CH Vial:
Signal #2 : E:\WESTDA~1\BA0858A.D\ECD2B.CH
Acq On : 11 Dec 97 15:02 Operator:
Sample : 278217 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 2 8 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278218
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: MMMMND1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/12/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	28.94%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	230	120
Aroclor-1221	U	U	470	330
Aroclor-1232	U	U	230	190
Aroclor-1242	U	U	230	120
Aroclor-1248	U	U	230	140
Aroclor-1254	~~2600~~ 3000	U	230	160
Aroclor-1260	U	U	230	190

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0880.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_B\BA0880.D\ECD2B.CH
Acq On : 12 Dec 97 6:24 Operator:
Sample : 278218 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 12:11 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.13	5.95	80575	54600	8.894	8.430	
Spiked Amount 40.000 Range 43 - 150 Recovery =					22.24%#	21.08%#	
2) SA Decachlorobiphen	29.13	24.45	129372	82353	8.597	9.235	
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.49%#	23.09%#	
Target Compounds							
3) L1 Aroclor-1016{1}	0.00	8.85	0	5140	N.D.	17.663	#
4) L1 Aroclor-1016{2}	10.59	10.26	8304	25755	17.612	45.497	#
5) L1 Aroclor-1016{3}	11.91	10.66	20573	25108	25.011	93.709	#
6) L1 Aroclor-1016{4}	0.00	12.17	0	59882	N.D.	233.424	#
7) L1 Aroclor-1016{5}	13.19	14.02	107415	260486	328.961	1766.245	#
Sum Aroclor-1016			136292	376372	371.583	2156.537	
Average Aroclor-1016					123.861	431.307	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
11) L3 Aroclor-1232{1}	0.00	8.85	0	5140	N.D.	35.519	#
12) L3 Aroclor-1232{2}	0.00	10.03	0	31266	N.D.	748.433	#
13) L3 Aroclor-1232{3}	10.59	11.41	8304	141101	38.257	1693.870	#
14) L3 Aroclor-1232{4}	11.91	13.11	20573	46554	58.606	822.879	#
Sum Aroclor-1232			28876	224062	96.863	3300.701	
Average Aroclor-1232					48.431	825.175	
15) L4 Aroclor-1242{1}	0.00	8.85	0	5140	N.D.	20.570	#
16) L4 Aroclor-1242{2}	10.59	10.03	8304	31266	22.645	407.361	#
17) L4 Aroclor-1242{3}	11.33	0.00	13919	0	125.553	N.D.	#
18) L4 Aroclor-1242{4}	0.00	12.17	0	59882	N.D.	258.770	#
19) L4 Aroclor-1242{5}	14.08	14.30	43174	114347	118.810	1279.402	#
Sum Aroclor-1242			65397	210636	267.008	1966.104	
Average Aroclor-1242					89.003	491.526	
20) L5 Aroclor-1248{1}	10.59	10.26	8304	25755	42.802	61.835	#
21) L5 Aroclor-1248{2}	11.91	12.17	20573	59882	36.772	176.706	#
22) L5 Aroclor-1248{3}	13.19	12.47	107415	34474	259.886	108.909	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0880.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_B\BA0880.D\ECD2B.CH
Acq On : 12 Dec 97 6:24 Operator:
Sample : 278218 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 12:11 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
23) L5	Aroclor-1248{4}	14.08	13.46	43174	294247	86.986	1093.535	#
24) L5	Aroclor-1248{5}	0.00	15.47	0	653514	N.D.	5188.585	#
Sum	Aroclor-1248			179466	1067872	426.446	6629.571	
Average	Aroclor-1248					106.611	1325.914	
2[illegible]) L6	Aroclor-1254{1}	14.08	11.39	43174	69142	318.082	313.615m	
2[illegible]) L6	Aroclor-1254{2}	15.45	13.46	682018	294247	1849.889	702.639	#
27) L6	Aroclor-1254{3}	15.78	14.87	389880	342920	846.011	2293.950	#
2[illegible]) L6	Aroclor-1254{4}	18.42	15.47	652902	653514	1610.941	1344.873	
2[illegible]) L6	Aroclor-1254{5}	19.74	17.76	1102904	724518	1277.982	1594.317	
Sum	Aroclor-1254			2870878	2084341	5902.906	6249.394	
Average	Aroclor-1254					1180.581	1249.879	
3[illegible]) L7	Aroclor-1260{1}	18.01	15.96	443985	326494	853.091	957.948	
31) L7	Aroclor-1260{2}	18.42	16.66	652902	340312	1060.586	837.083	
3[illegible]) L7	Aroclor-1260{3}	19.97	17.76	84609	724518	185.429	1404.809	#
3[illegible]) L7	Aroclor-1260{4}	21.04	19.77	282050	139539	605.333	222.852	#
34) L7	Aroclor-1260{5}	21.62	20.87	268502	107745	208.282	228.107	
Sum	Aroclor-1260			1732048	1638608	2912.822	3650.799	
Average	Aroclor-1260					582.564	730.160	

NP NP

CC 552

12/13/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 20 1998

Signal #1 : E:\WESTDA~1\BA0880.D\ECD1A.CH Vial: 29
Signal #2 : E:\WESTDA~1\BA0880.D\ECD2B.CH
Acq On : 12 Dec 97 6:24 Operator:
Sample : 278218 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:31 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.95	80310	54198	4.286	4.237
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.72%#	10.59%#
2) SA Decachlorobiphen	29.13	24.45	129372	81495	5.866	8.773 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					14.67%#	21.93%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.08	11.41	48304	131136	355.992m	590.215 #
4) L6 Aroclor-1254{2}	15.45	13.46	668164	291277	1741.907	694.993 #
5) L6 Aroclor-1254{3}	15.78	14.87	372091	341164	706.908	2275.479 #
6) L6 Aroclor-1254{4}	18.42	15.47	652824	635905	1522.515	1278.613
7) L6 Aroclor-1254{5}	19.74	17.76	1102867	710607	1269.949	1482.996
Sum Aroclor-1254			2844249	2110089	5597.271	6322.296
Average Aroclor-1254					1119.454	1264.459

5 5 2A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0880A.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0880A.D\ECD2B.CH
Acq On : 12 Dec 97 6:24
Sample : 278218 1:5
Misc : QPC7395
Vial: 29
Operator:
Inst : GC_5890_2
Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:30 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.95	81737	54198	8.786m	8.969
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.97%#	22.42%#
2) SA Decachlorobiphen	29.13	24.45	129372	81495	8.566	9.810
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.42%#	24.53%

Target Compounds

PHD
5 5 ~~32~~B 5/28/98

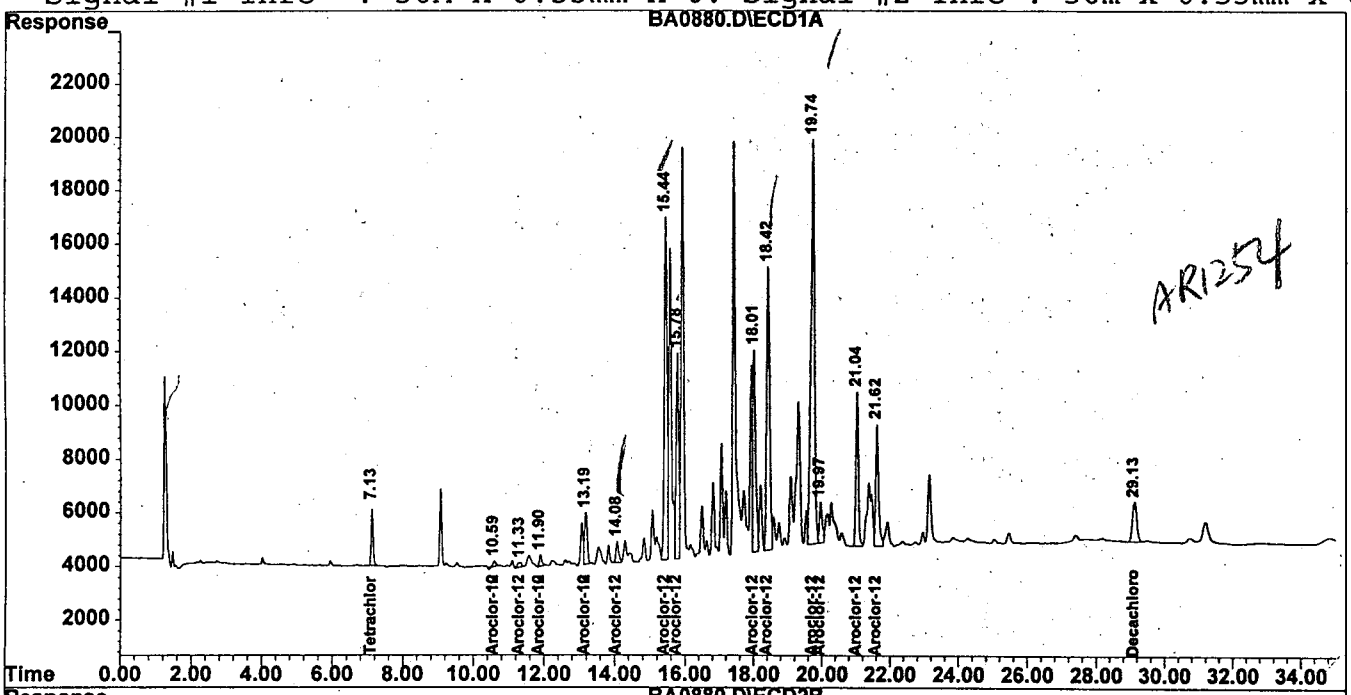
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

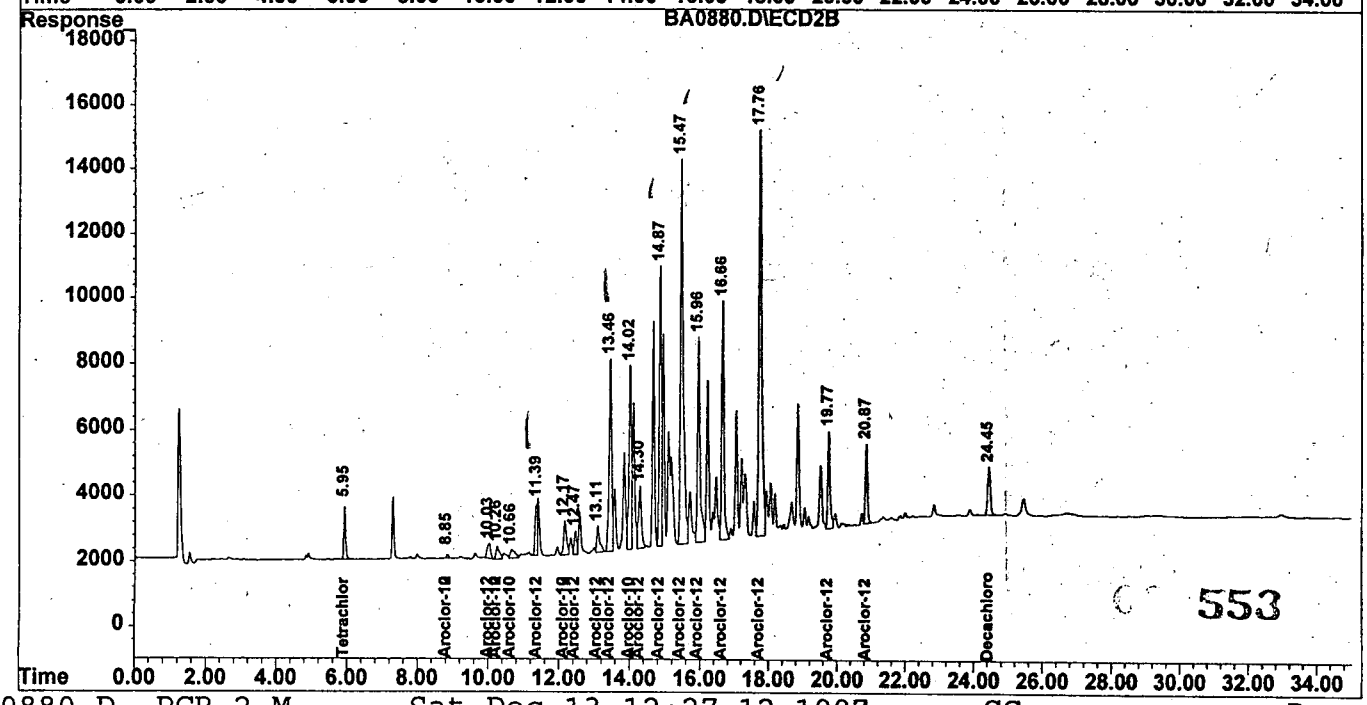
Signal #1 : C:\HPCHEM\1\DATA_B\BA0880.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_B\BA0880.D\ECD2B.CH
Acq On : 12 Dec 97 6:24 Operator:
Sample : 278218 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 12:11 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1254



553

Quantitation Report

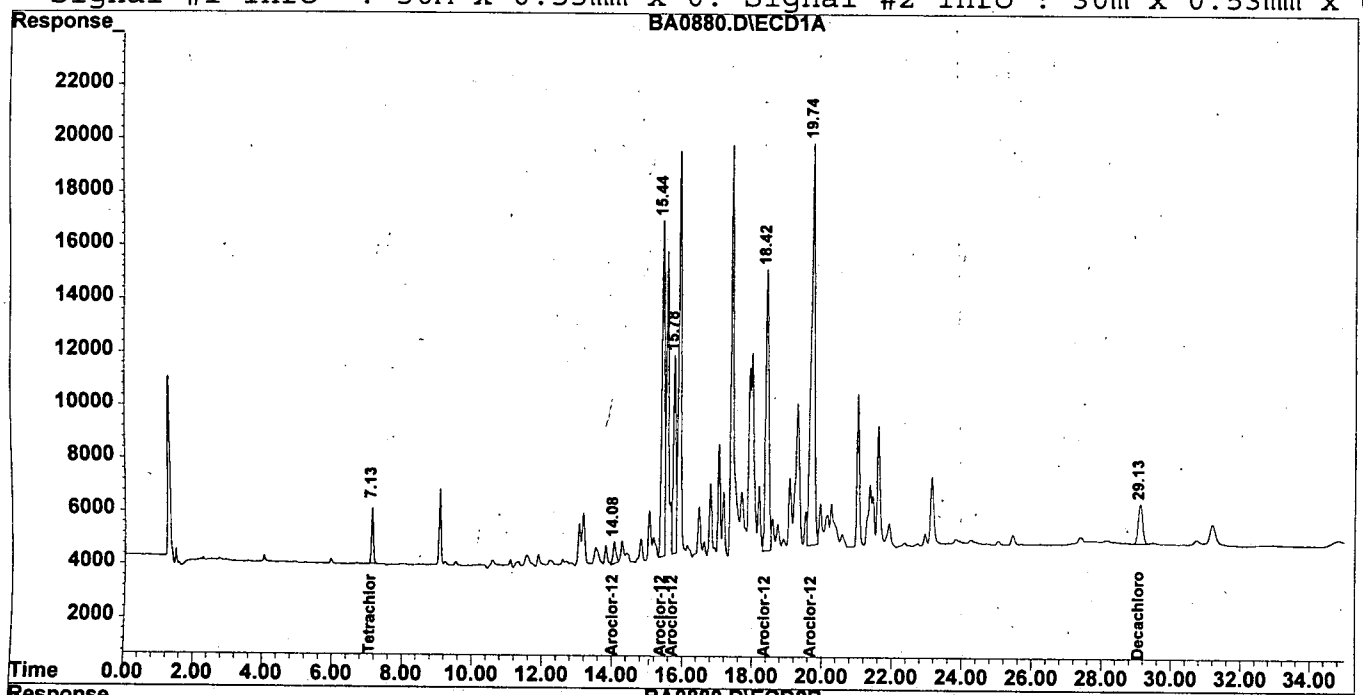
AMENDED REPORT MAY 2 8 1998

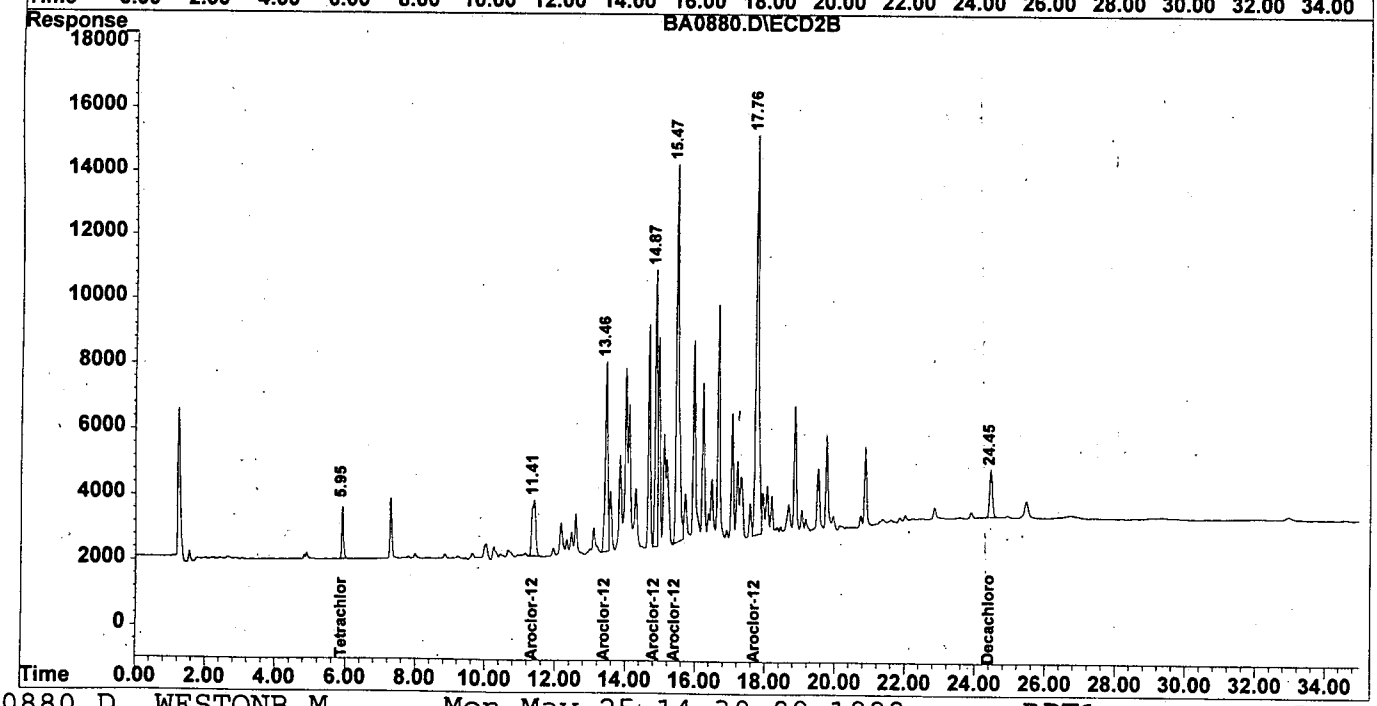
Signal #1 : E:\WESTDA~1\BA0880.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0880.D\ECD2B.CH
Acq On : 12 Dec 97 6:24
Sample : 278218 1:5
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:31 1998 Quant Results File: WESTONB.RES

Vial: 29
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





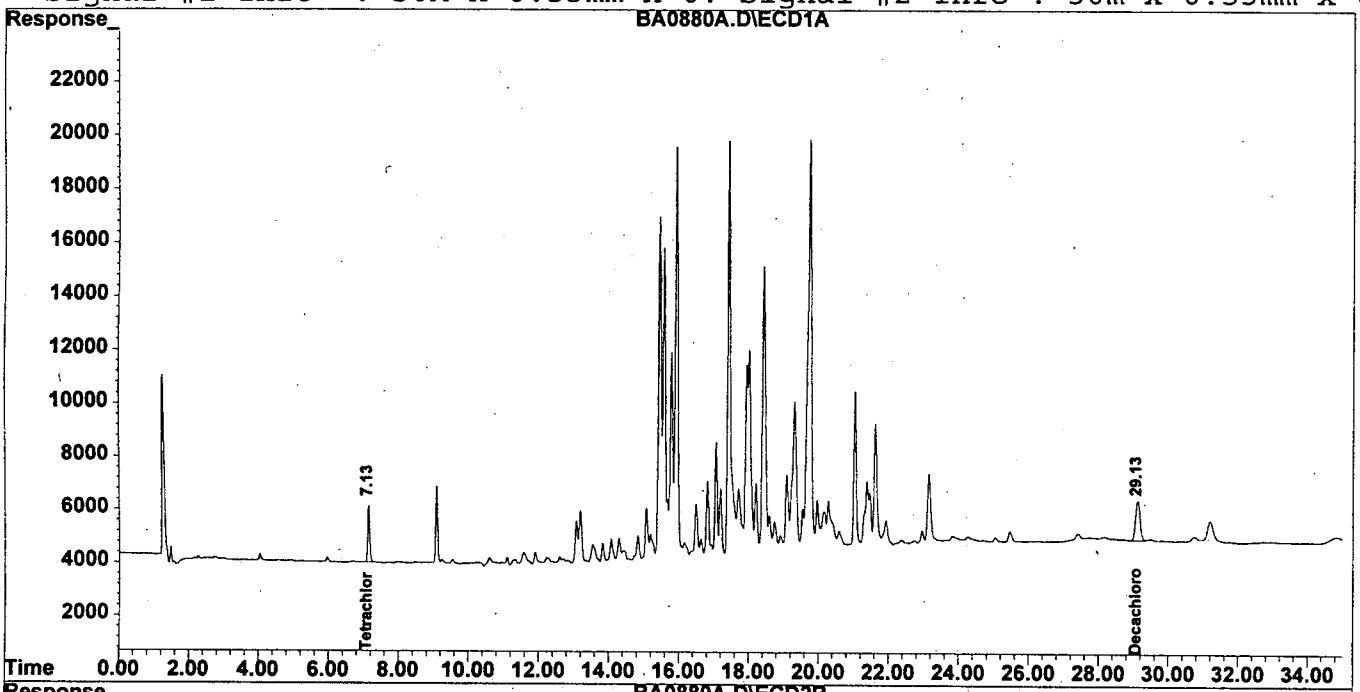
553A

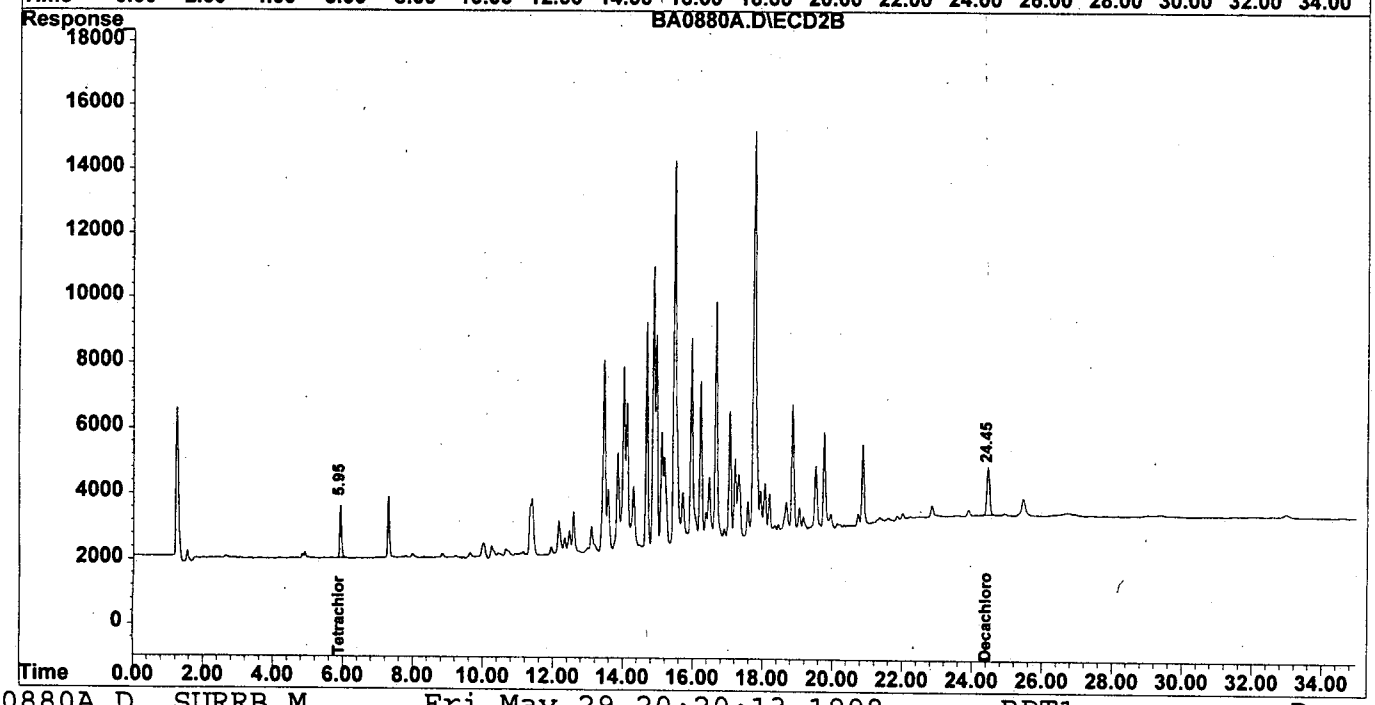
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0880A.D\ECD1A.CH Vial: 29
Signal #2 : E:\WESTDA~1\BA0880A.D\ECD2B.CH
Acq On : 12 Dec 97 6:24 Operator:
Sample : 278218 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:30 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





AMENDED REPORT MAY 2 8 1998

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278219
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: MMMMND2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	49.82%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	330	170
Aroclor-1221	U	U	660	460
Aroclor-1232	U	U	330	260
Aroclor-1242	U	U	330	170
Aroclor-1248	U	U	330	200
Aroclor-1254	~~4700~~ 5100	U	330	230
Aroclor-1260	U	U	330	260

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0890.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA_B\BA0890.D\ECD2B.CH
Acq On : 13 Dec 97 17:24 Operator:
Sample : 278219 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 18:32 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.17	5.96	81203	56818	8.964	8.772
Spiked Amount 40.000 Range 43 - 150 Recovery =					22.41%#	21.93%#
2) SA Decachlorobiphen	29.13	24.45	146220	93387	9.716	10.472
Spiked Amount 40.000 Range 24 - 154 Recovery =					24.29%	26.18%
Target Compounds						
3) L1 Aroclor-1016{1}	9.11	0.00	24701	0	116.043	N.D. #
4) L1 Aroclor-1016{2}	10.62	10.27	17754	26260	37.655	46.388
5) L1 Aroclor-1016{3}	11.93	10.68	19014	18651	23.117	69.608 #
6) L1 Aroclor-1016{4}	0.00	12.18	0	86560	N.D.	337.412 #
7) L1 Aroclor-1016{5}	13.22	14.03	219924	429194	673.518	2910.185 #
Sum Aroclor-1016			281393	560664	850.333	3363.593
Average Aroclor-1016					212.583	840.898
10) L2 Aroclor-1221{3}	9.11	0.00	24701	0	81.601	N.D. #
Sum Aroclor-1221			24701	0	81.601	N.D.
Average Aroclor-1221					81.601	0.000
12) L3 Aroclor-1232{2}	9.11	10.05	24701	36236	120.868	867.409 #
13) L3 Aroclor-1232{3}	10.62	11.37	17754	103079	81.797	1237.431 #
14) L3 Aroclor-1232{4}	11.93	13.10	19014	13716	54.167	242.432 #
Sum Aroclor-1232			61469	153031	256.832	2347.273
Average Aroclor-1232					85.611	782.424
15) L4 Aroclor-1242{1}	9.11	0.00	24701	0	134.746	N.D. #
16) L4 Aroclor-1242{2}	10.62	10.05	17754	36236	48.417	472.118 #
17) L4 Aroclor-1242{3}	11.30	0.00	10086	0	90.979	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.18	0	86560	N.D.	374.051 #
19) L4 Aroclor-1242{5}	14.10	14.31	77407	173219	213.015	1938.110 #
Sum Aroclor-1242			129949	296015	487.157	2784.279
Average Aroclor-1242					121.789	928.093
20) L5 Aroclor-1248{1}	10.62	10.27	17754	26260	91.516	63.047 #
21) L5 Aroclor-1248{2}	11.93	12.18	19014	86560	33.986	255.428 #
22) L5 Aroclor-1248{3}	13.22	12.48	219924	46708	532.093	147.559 #

00 555

12/14/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0890.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA_B\BA0890.D\ECD2B.CH
Acq On : 13 Dec 97 17:24 Operator:
Sample : 278219 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 18:32 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
23)	L5 Aroclor-1248{4}	14.10	13.46	77407	522294	155.958	1941.043	#
24)	L5 Aroclor-1248{5}	16.18	15.48	66659	1027825	176.807	8160.440	#
	Sum Aroclor-1248			400758	1709647	990.361	10567.517	
Average	Aroclor-1248					198.072	2113.503	
						NP	NP	
25)	L6 Aroclor-1254{1}	14.10	11.37	77407	103079	570.289	467.549	
26)	L6 Aroclor-1254{2}	15.49	13.46	700160	522294	1899.098	1247.196	#
27)	L6 Aroclor-1254{3}	15.80	14.87	654138	284697	1419.433	1904.468	#
28)	L6 Aroclor-1254{4}	18.44	15.48	738091	1027825	1821.131	2115.173	
29)	L6 Aroclor-1254{5}	19.76	17.76	1614453	973814	1870.736	2142.898	
	Sum Aroclor-1254			3784249	2911709	7580.686	7877.284	
Average	Aroclor-1254					1516.137	1575.457	
30)	L7 Aroclor-1260{1}	18.02	15.97	654724	514297	1258.016	1508.971	
31)	L7 Aroclor-1260{2}	18.44	16.67	738091	497341	1199.080	1223.333	
32)	L7 Aroclor-1260{3}	19.98	17.76	122012	973814	267.402	1888.183	#
33)	L7 Aroclor-1260{4}	21.05	19.77	402023	187482	862.818	299.421	#
34)	L7 Aroclor-1260{5}	21.64	20.87	326794	145941	253.501	308.973	
	Sum Aroclor-1260			2243643	2318875	3840.815	5228.881	
Average	Aroclor-1260					768.163	1045.776	
						NP	NP	

556

12/14/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 28 1998

Signal #1 : E:\WESTDA~1\BA0890.D\ECD1A.CH Vial: 1
Signal #2 : E:\WESTDA~1\BA0890.D\ECD2B.CH
Acq On : 13 Dec 97 17:24 Operator:
Sample : 278219 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:34 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.17	5.96	80854	56293	4.315	4.401
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.79%#	11.00%#
2) SA Decachlorobiphen	29.13	24.45	146306	92945	6.634	10.006 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					16.59%#	25.02%
Target Compounds						
3) L6 Aroclor-1254{1}	14.10	11.37	68566	101494	505.320m	456.803
4) L6 Aroclor-1254{2}	15.49	13.46	698709	521807	1821.538	1245.041 #
5) L6 Aroclor-1254{3}	15.80	14.87	653468	283614	1241.476	1891.636 #
6) L6 Aroclor-1254{4}	18.44	15.48	738079	1023643	1721.347	2058.236
7) L6 Aroclor-1254{5}	19.76	17.76	1614447	964626	1859.033	2013.121
Sum Aroclor-1254			3773269	2895185	~~7148.714~~	~~7664.838~~
Average Aroclor-1254					1429.743	1532.968

5 5 6A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

AMENDED REPORT MAY 3 0 1998
(QT Reviewed)

ICM Laboratories Quantitation Report

Signal #1 : E:\WESTDA~1\BA0890A.D\ECD1A.CH Vial: 1
Signal #2 : E:\WESTDA~1\BA0890A.D\ECD2B.CH
Acq On : 13 Dec 97 17:24 Operator:
Sample : 278219 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:15 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.17	5.96	80854	56293	8.691	9.316
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.73%#	23.29%#
2) SA Decachlorobiphen	29.13	24.45	146306	92945	9.688	11.188
Spiked Amount 40.000 Range 24 - 154 Recovery =					24.22%	27.97%

Target Compounds

556B 5/20/98

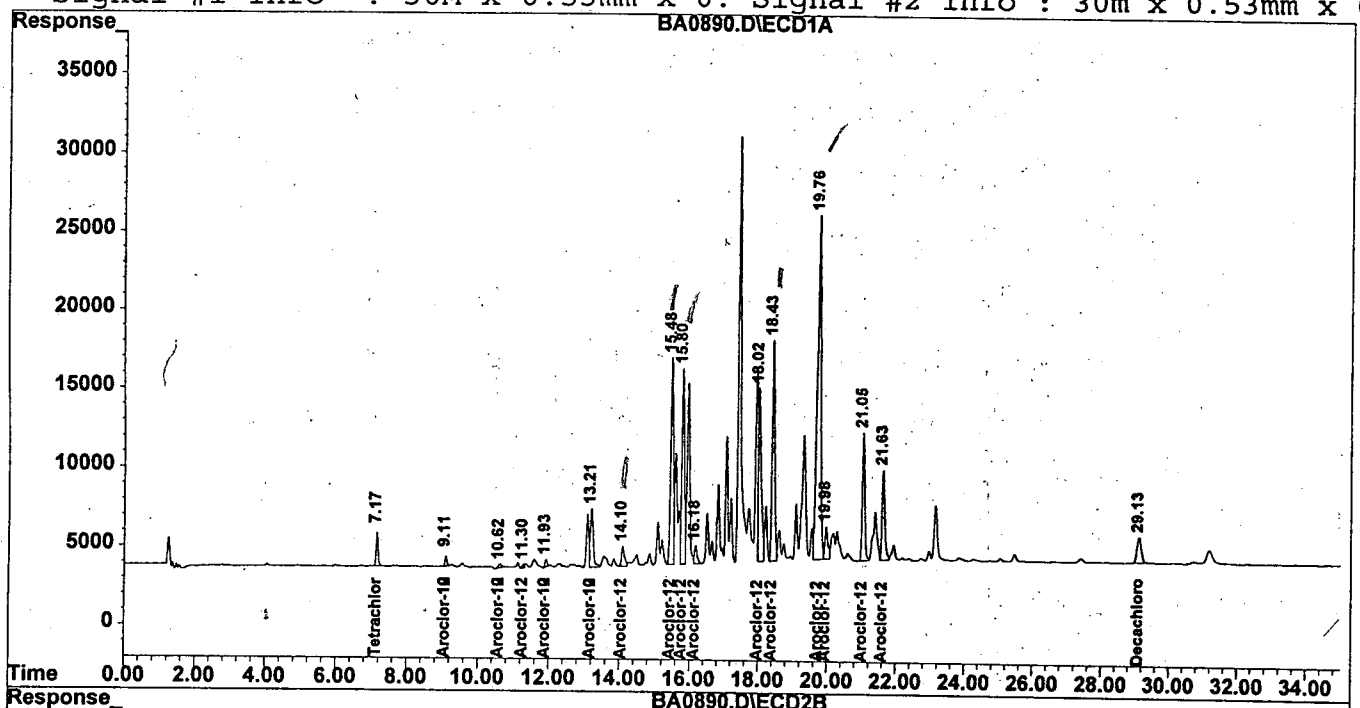
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

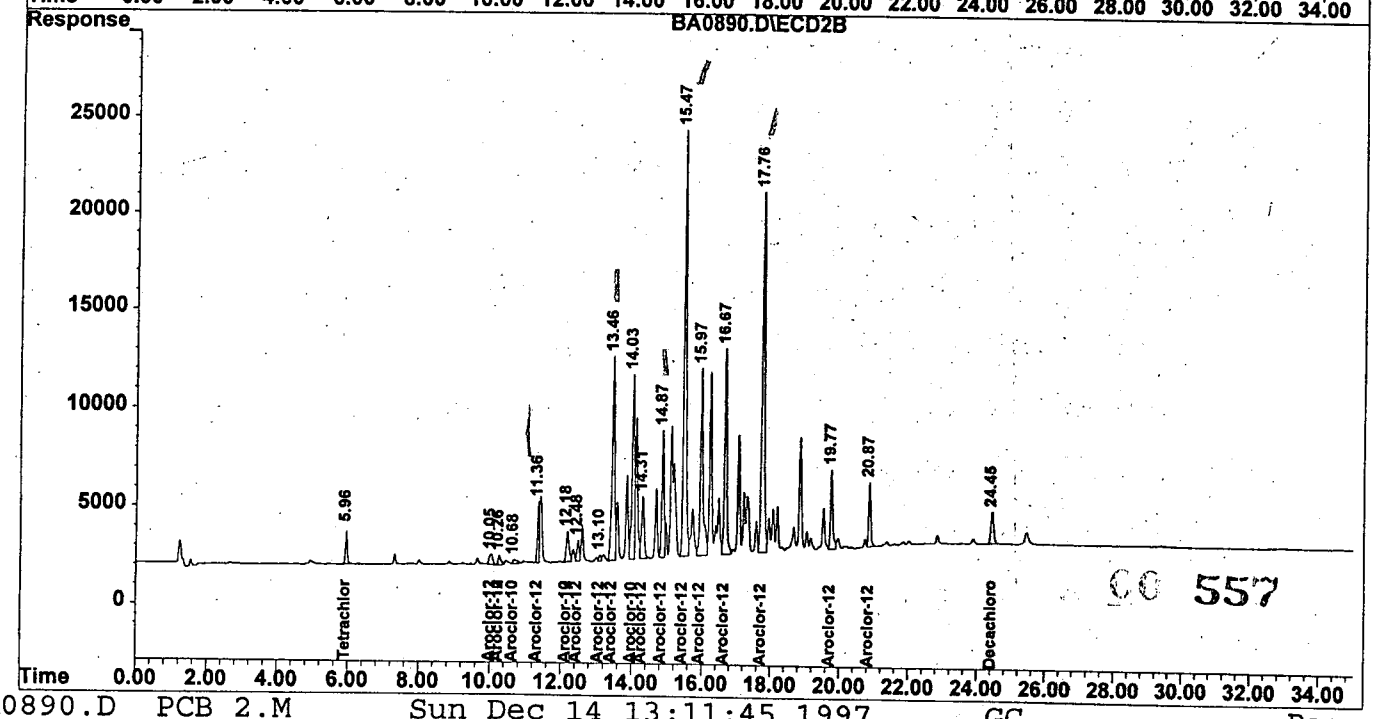
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0890.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA_B\BA0890.D\ECD2B.CH
Acq On : 13 Dec 97 17:24 Operator:
Sample : 278219 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 18:32 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





CC 557

Quantitation Report

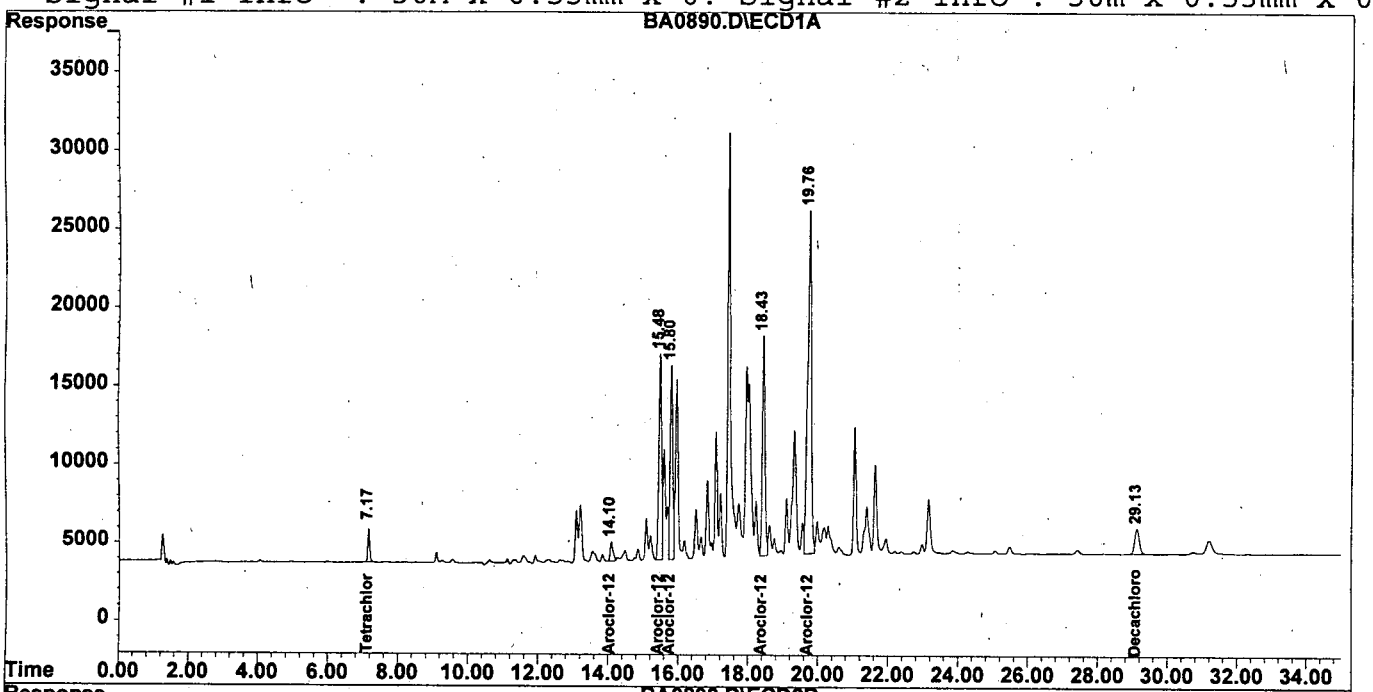
AMENDED REPORT MAY 2 8 1998

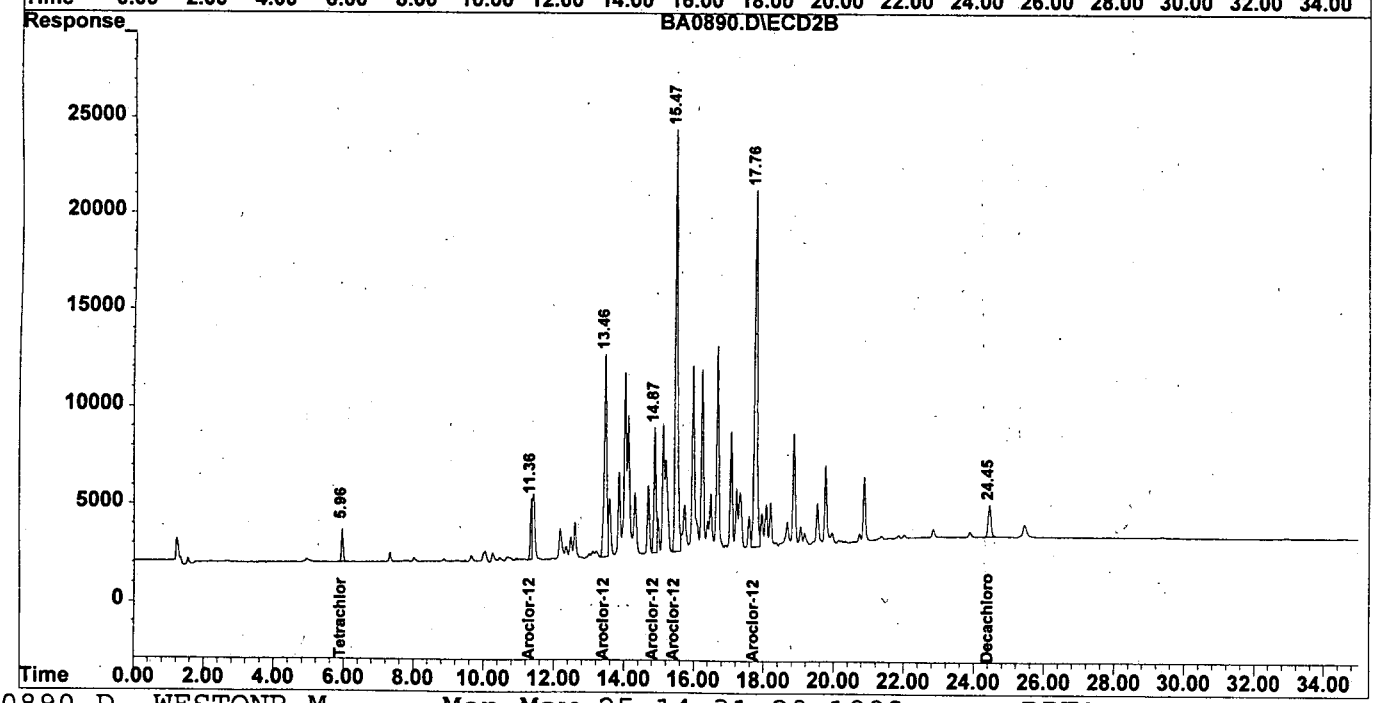
Signal #1 : E:\WESTDA~1\BA0890.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0890.D\ECD2B.CH
Acq On : 13 Dec 97 17:24
Sample : 278219 1:5
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:34 1998 Quant Results File: WESTONB.RES

Vial: 1
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





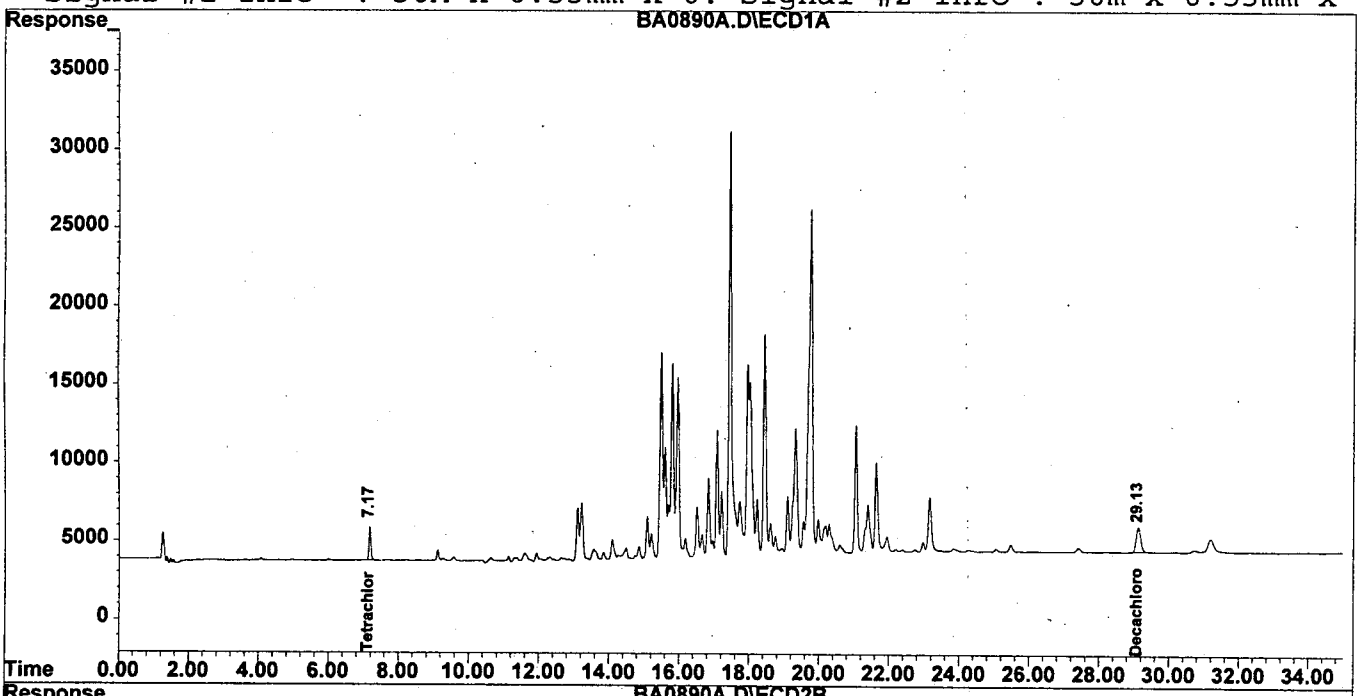
557A

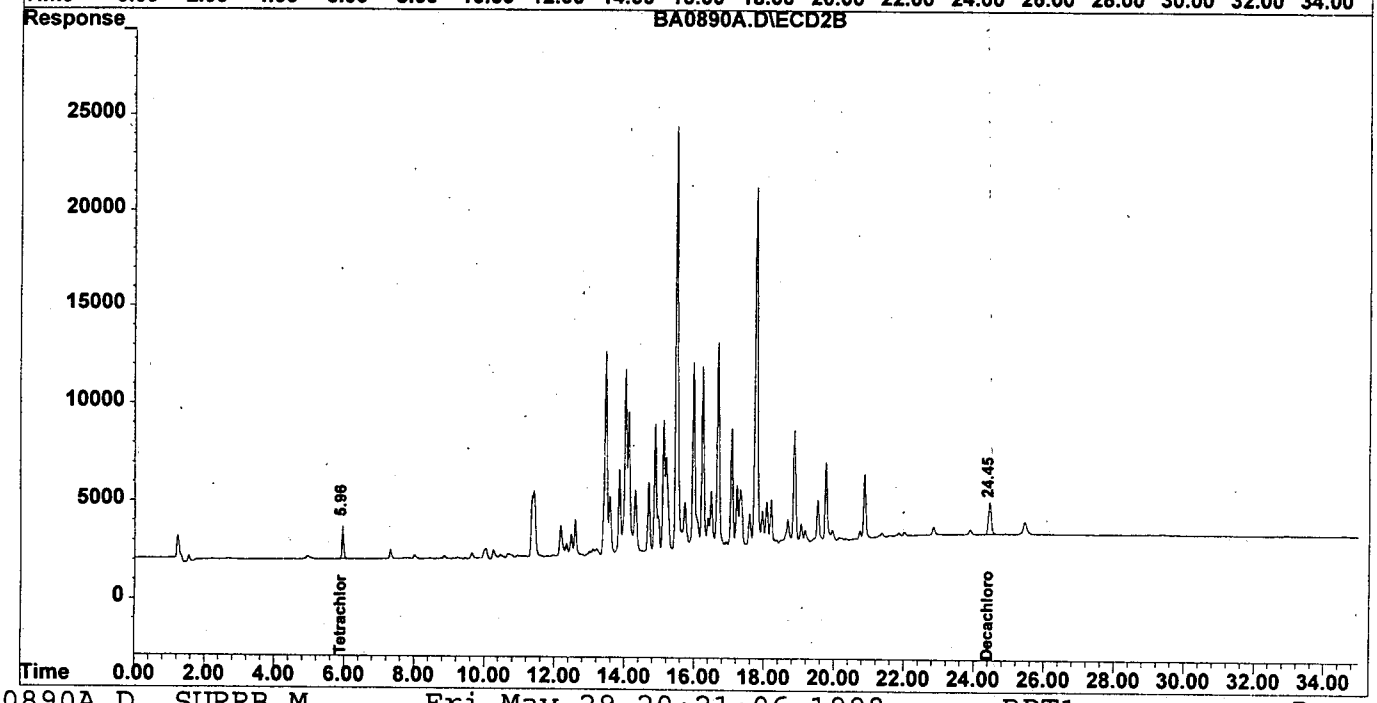
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0890A.D\ECD1A.CH Vial: 1
Signal #2 : E:\WESTDA~1\BA0890A.D\ECD2B.CH
Acq On : 13 Dec 97 17:24 Operator:
Sample : 278219 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:15 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 28 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278220
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNNS1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	43.1%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	290	150
Aroclor-1221	U	U	580	410
Aroclor-1232	U	U	290	230
Aroclor-1242	U	U	290	150
Aroclor-1248	U	U	290	180
Aroclor-1254	~~4200~~ 4300	U	290	200
Aroclor-1260	U	U	290	230

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0891.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_B\BA0891.D\ECD2B.CH
Acq On : 13 Dec 97 18:03 Operator:
Sample : 278220 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:40 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	88006	62185	9.715	9.601
Spiked Amount 40.000 Range 43 - 150 Recovery =					24.29%#	24.00%#
2) SA Decachlorobiphen	29.10	24.44	144127	91118	9.577	10.217
Spiked Amount 40.000 Range 24 - 154 Recovery =					23.94%#	25.54%
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	8.84	0	12950	N.D.	44.498 #
4) L1 Aroclor-1016{2}	10.59	10.25	39308	41851	83.370	73.930
5) L1 Aroclor-1016{3}	11.90	10.66	40797	99341	49.599	370.758 #
6) L1 Aroclor-1016{4}	0.00	12.17	0	201769	N.D.	786.505 #
7) L1 Aroclor-1016{5}	13.19	14.02	387328	368005	1186.194	2495.291 #
Sum Aroclor-1016			467433	723917	1319.164	3770.982
Average Aroclor-1016					439.721	754.196
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
11) L3 Aroclor-1232{1}	0.00	8.84	0	12950	N.D.	89.481 #
12) L3 Aroclor-1232{2}	0.00	10.02	0	72125	N.D.	1726.502 #
13) L3 Aroclor-1232{3}	10.59	11.40	39308	519497	181.102	6236.387 #
14) L3 Aroclor-1232{4}	11.90	13.09	40797	29870	116.220	527.980 #
Sum Aroclor-1232			80105	634443	297.323	8580.350
Average Aroclor-1232					148.661	2145.087
15) L4 Aroclor-1242{1}	0.00	8.84	0	12950	N.D.	51.822 #
16) L4 Aroclor-1242{2}	10.59	10.02	39308	72125	107.198	939.709 #
17) L4 Aroclor-1242{3}	11.27	0.00	34246	0	308.894	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.17	0	201769	N.D.	871.909 #
19) L4 Aroclor-1242{5}	14.07	14.29	204861	221115	563.750	2474.011 #
Sum Aroclor-1242			278414	507960	979.842	4337.451
Average Aroclor-1242					326.614	1084.363
20) L5 Aroclor-1248{1}	10.59	10.25	39308	41851	202.621	100.480 #
21) L5 Aroclor-1248{2}	11.90	12.17	40797	201769	72.921	595.400 #
22) L5 Aroclor-1248{3}	13.19	12.47	387328	92816	937.117	293.219 #

00 559

DAA 12/14/98

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0891.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_B\BA0891.D\ECD2B.CH
Acq On : 13 Dec 97 18:03 Operator:
Sample : 278220 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:40 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
23) L5	Aroclor-1248{4}	14.07	13.45	204861	486754	412.746	1808.963	#
24) L5	Aroclor-1248{5}	16.15	15.46	57302	802874	151.990	6374.438	#
Sum	Aroclor-1248			729596	1626064	1777.396	9172.501	
Average	Aroclor-1248					355.479	1834.500	
						NP	NP	
25) L6	Aroclor-1254{1}	14.07	11.35	204861	183540	1509.285	832.504	m#
26) L6	Aroclor-1254{2}	15.45	13.45	667515	486754	1810.552	1162.330	#
27) L6	Aroclor-1254{3}	15.77	14.86	552166	314237	1198.162	2102.078	#
28) L6	Aroclor-1254{4}	18.41	15.46	626084	802874	1544.772	1652.244	
29) L6	Aroclor-1254{5}	19.73	17.75	1229327	818574	1424.474	1801.288	#
Sum	Aroclor-1254			3279953	2605979	7487.245	7550.444	
Average	Aroclor-1254					1497.449	1510.089	
30) L7	Aroclor-1260{1}	0.00	15.96	0	408084	N.D.	1197.336	#
31) L7	Aroclor-1260{2}	18.41	16.66	626084	378752	1017.118	931.635	
32) L7	Aroclor-1260{3}	19.96	17.75	87964	818574	192.783	1587.178	#
33) L7	Aroclor-1260{4}	21.03	19.76	310094	150788	665.521	240.818	#
34) L7	Aroclor-1260{5}	21.61	20.87	268648	120008	208.396	254.071	
Sum	Aroclor-1260			1292791	1876206	2083.817	4211.038	
Average	Aroclor-1260					520.954	842.208	
						NP	NP	

00 560

12/19/98

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0891.D\ECD1A.CH Vial: 2
Signal #2 : E:\WESTDA~1\BA0891.D\ECD2B.CH
Acq On : 13 Dec 97 18:03 Operator:
Sample : 278220 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:34 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	87813	61870	4.686	4.837
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.72%#	12.09%#
2) SA Decachlorobiphen	29.10	24.44	144127	91132	6.536	9.811 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					16.34%#	24.53%
Target Compounds						
3) L6 Aroclor-1254{1}	14.07	11.35	216716	189663	1597.160m	853.633 #
4) L6 Aroclor-1254{2}	15.45	13.45	667515	483301	1740.215	1153.164 #
5) L6 Aroclor-1254{3}	15.77	14.86	552166	310648	1049.021	2071.940 #
6) L6 Aroclor-1254{4}	18.41	15.46	626084	798440	1460.153	1605.422
7) L6 Aroclor-1254{5}	19.73	17.75	1229327	803413	1415.568	1676.678
Sum Aroclor-1254			3291808	2585465	7262.116	7360.837
Average Aroclor-1254					1452.423	1472.167

5 6 0A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0891A.D\ECD1A.CH Vial: 2
Signal #2 : E:\WESTDA~1\BA0891A.D\ECD2B.CH
Acq On : 13 Dec 97 18:03 Operator:
Sample : 278220 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:31 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13f	5.94	88235	61870	9.485m	10.239
Spiked Amount 40.000 Range 43 - 150 Recovery =					23.71%#	25.60%#
2) SA Decachlorobiphen	29.10	24.44	144127	91132	9.544	10.970
Spiked Amount 40.000 Range 24 - 154 Recovery =					23.86%#	27.43%
Target Compounds						

5 6 0B 5/30/98

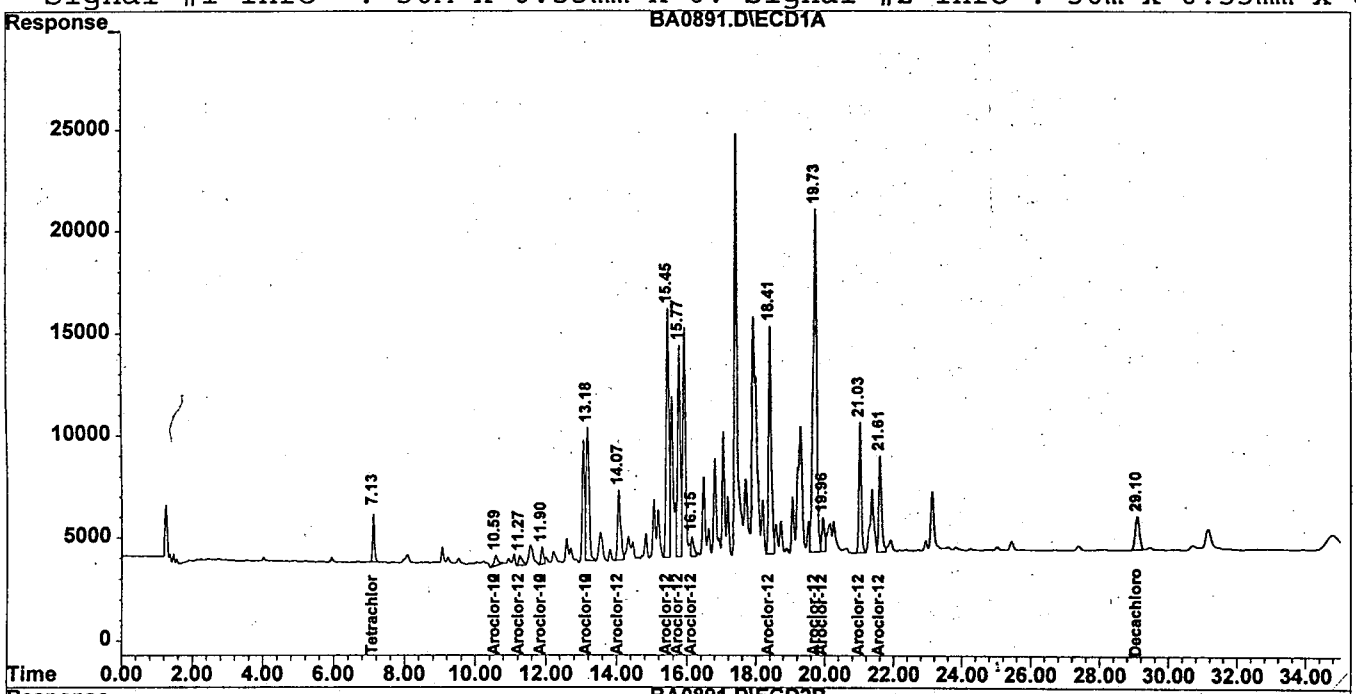
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

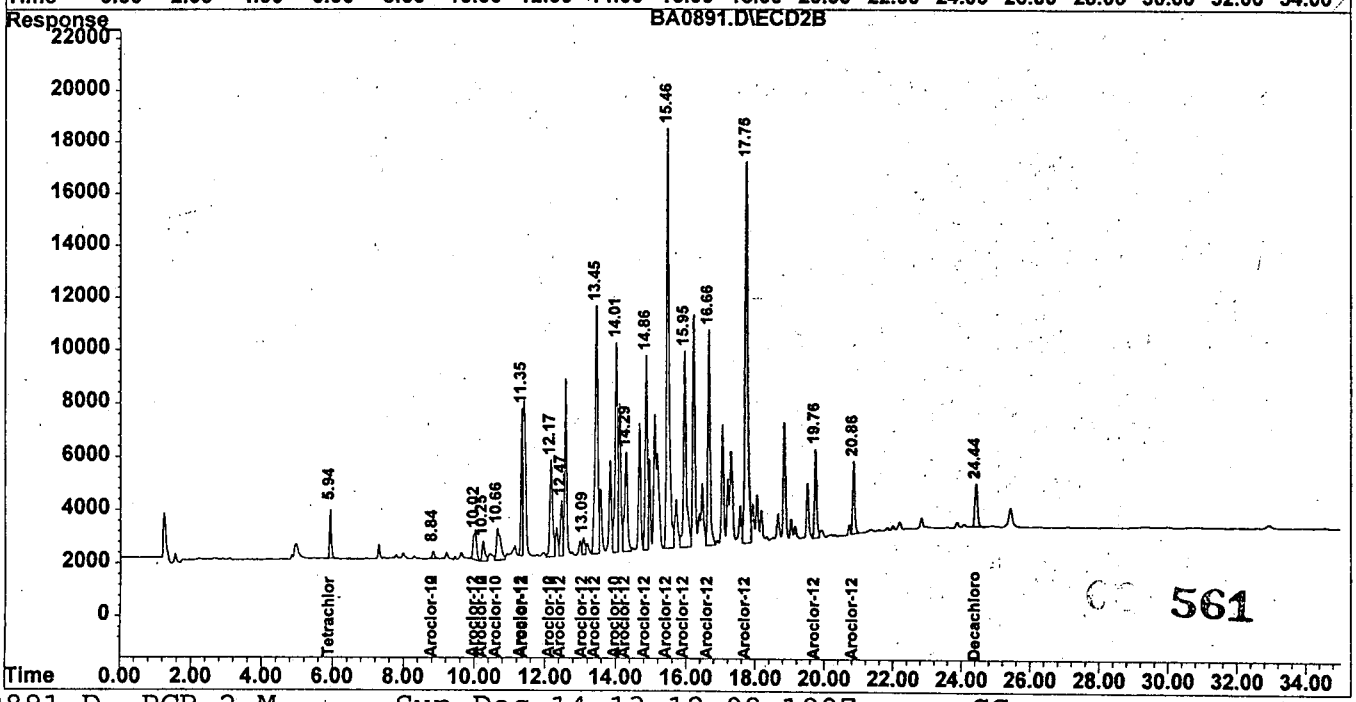
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0891.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_B\BA0891.D\ECD2B.CH
Acq On : 13 Dec 97 18:03 Operator:
Sample : 278220 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:40 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





561

Quantitation Report

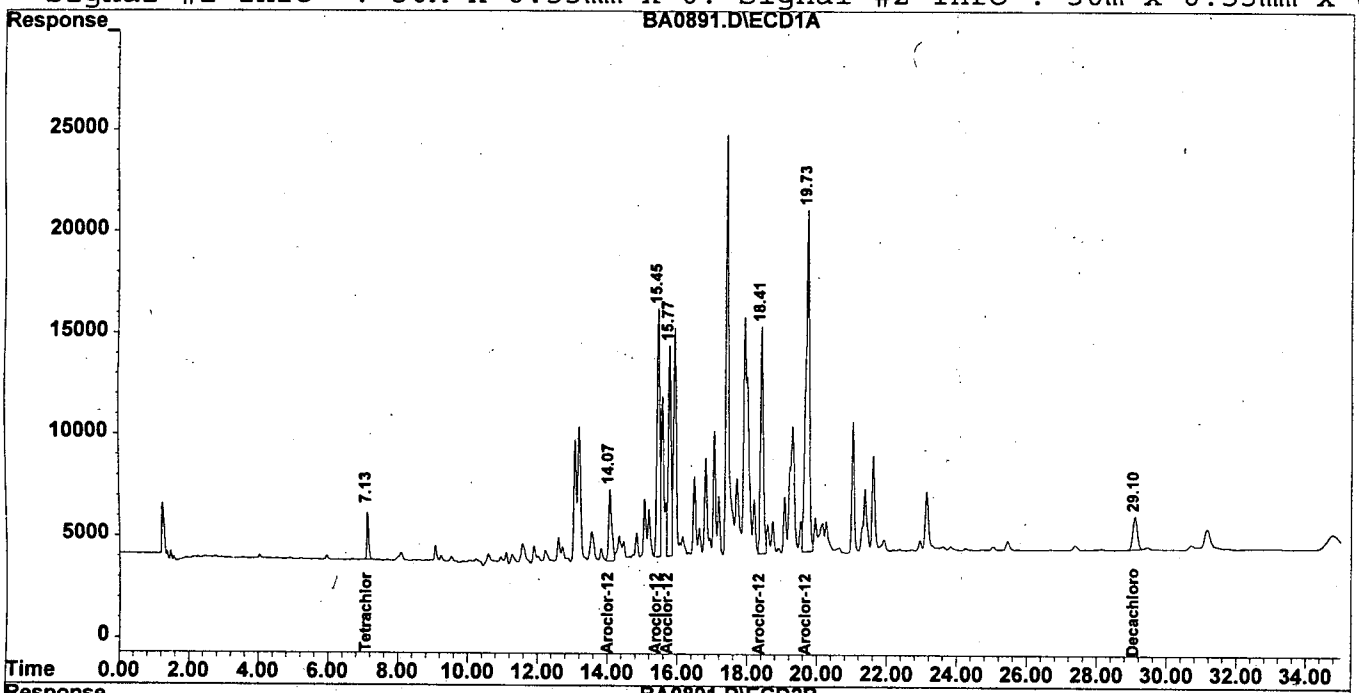
AMENDED REPORT MAY 2 8 1998

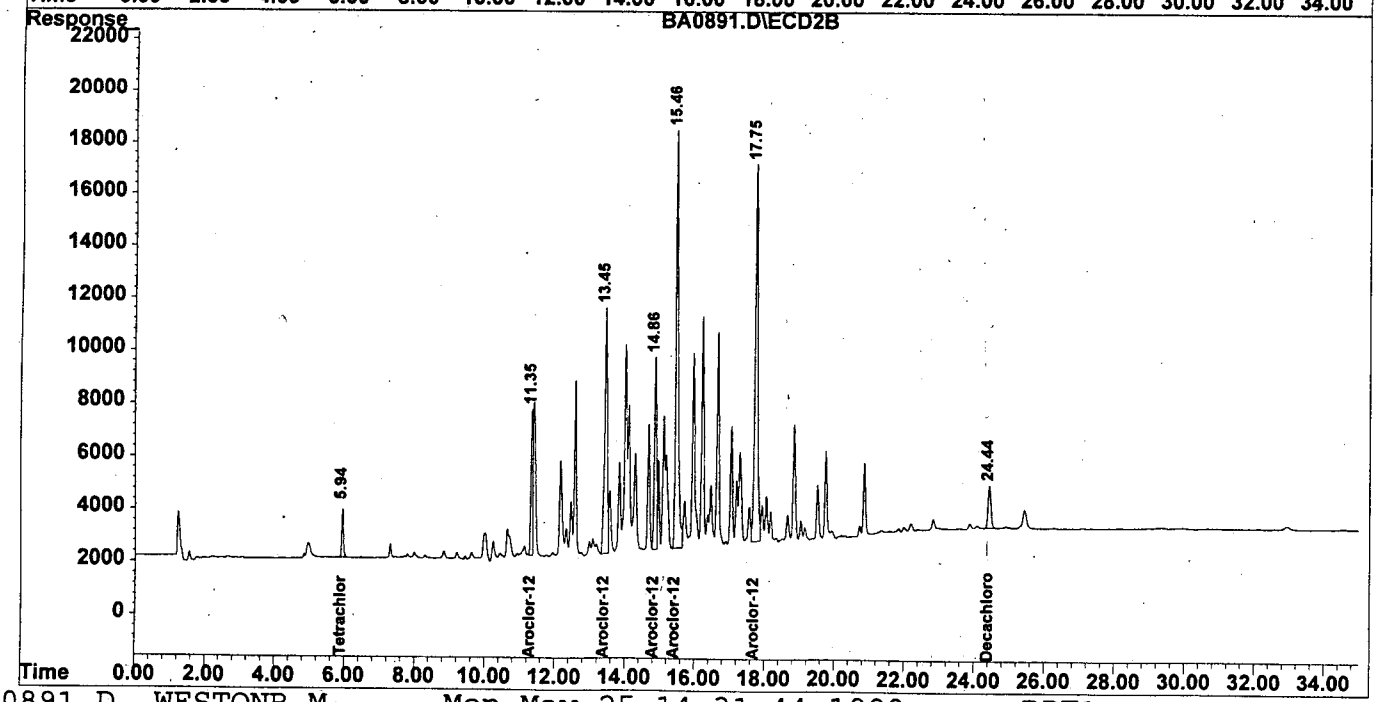
Signal #1 : E:\WESTDA~1\BA0891.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0891.D\ECD2B.CH
Acq On : 13 Dec 97 18:03
Sample : 278220 1:5
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:34 1998 Quant Results File: WESTONB.RES

Vial: 2
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





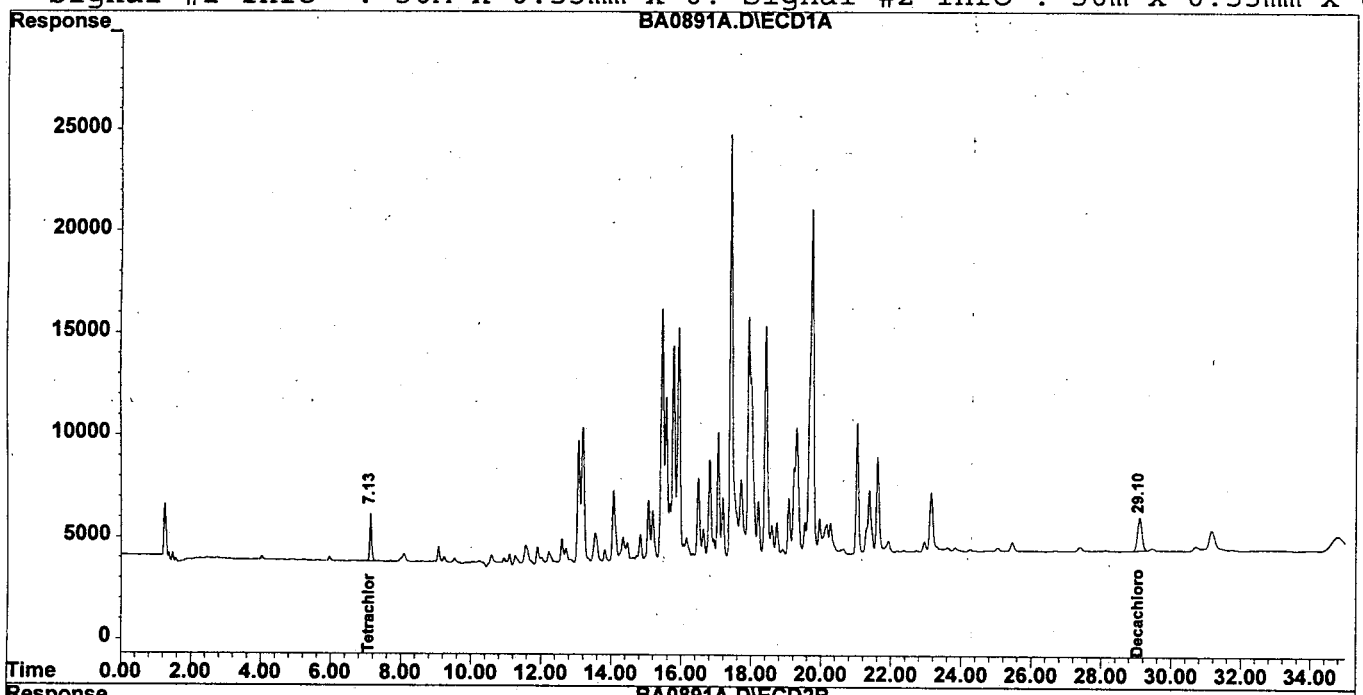
561A

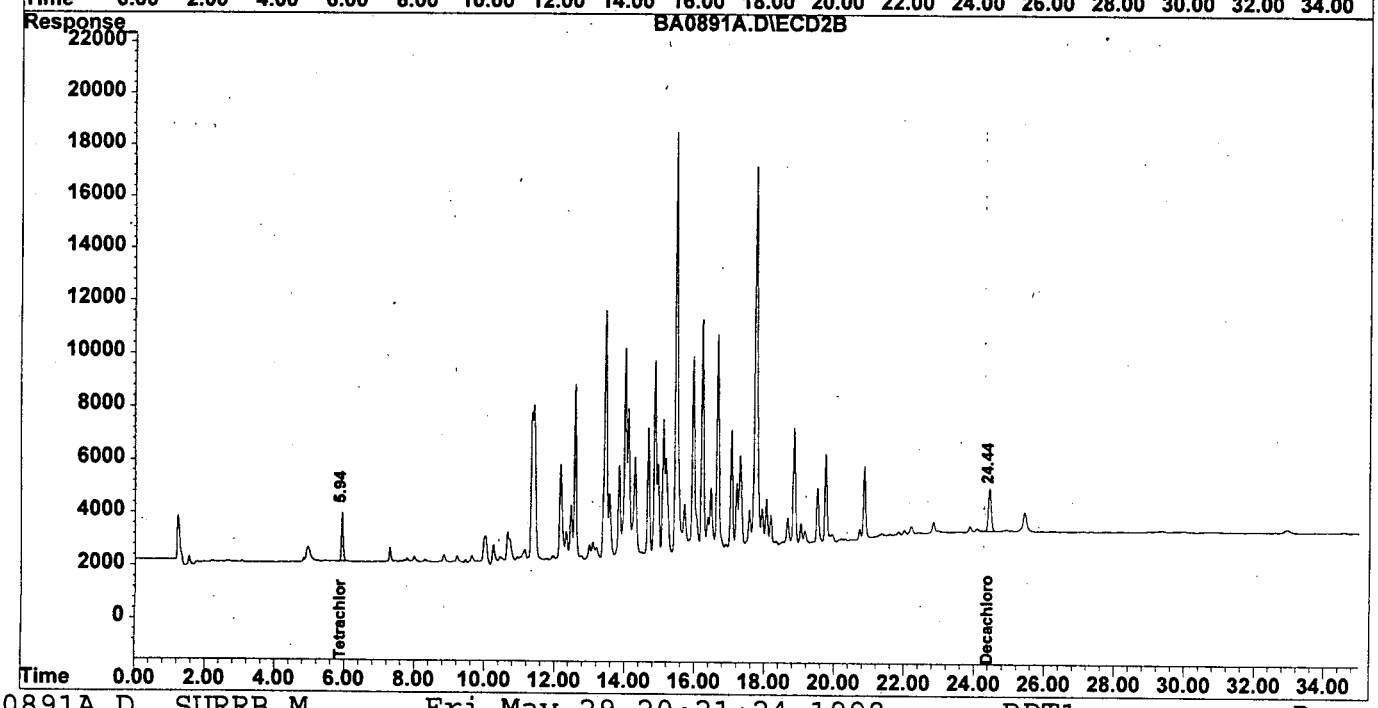
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0891A.D\ECD1A.CH Vial: 2
Signal #2 : E:\WESTDA~1\BA0891A.D\ECD2B.CH
Acq On : 13 Dec 97 18:03 Operator:
Sample : 278220 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:31 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 2 8 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278221
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNNS2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	37.38%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	270	130
Aroclor-1221	U	U	530	370
Aroclor-1232	U	U	270	210
Aroclor-1242	U	U	270	130
Aroclor-1248	U	U	270	160
Aroclor-1254	~~3900~~ 4600	U	270	190
Aroclor-1260	U	U	270	210

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0892.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_B\BA0892.D\ECD2B.CH
Acq On : 13 Dec 97 18:42 Operator:
Sample : 278221 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:41 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	79094	55124	8.731m	8.511
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.83%#	21.28%#
2) SA Decachlorobiphen	29.10	24.43	127816	81573	8.493	9.147
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.23%#	22.87%#
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	8.84	0	10749	N.D.	36.935 #
4) L1 Aroclor-1016{2}	10.58	10.25	12900	39106	27.360	69.082 #
5) L1 Aroclor-1016{3}	11.90	10.65	50088	76240	60.895	284.540 #
6) L1 Aroclor-1016{4}	0.00	12.17	0	142598	N.D.	555.852 #
7) L1 Aroclor-1016{5}	13.18	14.01	315131	418686	965.091	2838.938 #
Sum Aroclor-1016			378119	687380	1053.347	3785.347
Average Aroclor-1016					351.116	757.069
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
11) L3 Aroclor-1232{1}	0.00	8.84	0	10749	N.D.	74.273 #
12) L3 Aroclor-1232{2}	0.00	10.02	0	66833	N.D.	1599.813 #
13) L3 Aroclor-1232{3}	10.58	11.40	12900	265910	59.434	3192.162 #
14) L3 Aroclor-1232{4}	11.90	13.09	50088	44284	142.688	782.748 #
Sum Aroclor-1232			62988	387776	202.122	5648.996
Average Aroclor-1232					101.061	1412.249
15) L4 Aroclor-1242{1}	0.00	8.84	0	10749	N.D.	43.015 #
16) L4 Aroclor-1242{2}	10.58	10.02	12900	66833	35.180	870.754 #
17) L4 Aroclor-1242{3}	11.27	0.00	22781	0	205.486	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.17	0	142598	N.D	616.210 #
19) L4 Aroclor-1242{5}	14.07	14.29	150786	238483	414.943	2668.342 #
Sum Aroclor-1242			186467	458663	655.609	4198.320
Average Aroclor-1242					218.536	1049.580
20) L5 Aroclor-1248{1}	10.58	10.25	12900	39106	66.496	93.891 #
21) L5 Aroclor-1248{2}	11.90	12.17	50088	142598	89.528	420.791 #
22) L5 Aroclor-1248{3}	13.18	12.47	315131	71197	762.442	224.923 #

563

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0892.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_B\BA0892.D\ECD2B.CH
Acq On : 13 Dec 97 18:42 Operator:
Sample : 278221 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:41 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
23)	L5 Aroclor-1248{4}	14.07	13.45	150786	505845	303.798	1879.913	#
24)	L5 Aroclor-1248{5}	16.15	15.46	51052	873108	135.411	6932.059	#
	Sum Aroclor-1248			579957	1631854	1357.674	9551.577	
	Average Aroclor-1248					271.535	1910.315	
25)	L6 Aroclor-1254{1}	14.07	11.35	150786	143211	1110.895	649.579	#
26)	L6 Aroclor-1254{2}	15.45	13.45	703719	505845	1908.752	1207.918	#
27)	L6 Aroclor-1254{3}	15.77	14.86	615023	328728	1334.557	2199.011	#
28)	L6 Aroclor-1254{4}	18.41	15.46	707914	873108	1746.675	1796.778	
29)	L6 Aroclor-1254{5}	19.73	17.75	1367239	910200	1584.278	2002.913	#
	Sum Aroclor-1254			3544682	2761091	7685.158	7856.200	
	Average Aroclor-1254					1537.032	1571.240	
30)	L7 Aroclor-1260{1}	17.99	15.95	533756	473603	1025.581	1389.674	#
31)	L7 Aroclor-1260{2}	18.41	16.66	707914	441600	1150.056	1086.226	
32)	L7 Aroclor-1260{3}	19.96	17.75	93966	910200	205.937	1764.837	#
33)	L7 Aroclor-1260{4}	21.03	19.76	355143	175557	762.204	280.375	#
34)	L7 Aroclor-1260{5}	21.61	20.86	310088	137389	240.541	290.868	
	Sum Aroclor-1260			2000867	2138349	3384.320	4811.880	
	Average Aroclor-1260					676.864	962.376	

CC 564

12/14/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0892.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0892.D\ECD2B.CH
Acq On : 13 Dec 97 18:42
Sample : 278221 1:5
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:35 1998 Quant Results File: WESTONB.RES

Vial: 3
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	78293	54929	4.178	4.294
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.45%#	10.74%#
2) SA Decachlorobiphen	29.10	24.43	127816	81171	5.796	8.738 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					14.49%#	21.85%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.07	11.40	162288	389970	1196.035m	1755.169 #
4) L6 Aroclor-1254{2}	15.45	13.45	697395	505782	1818.112	1206.805 #
5) L6 Aroclor-1254{3}	15.77	14.86	610869	314803	1160.545	2099.659 #
6) L6 Aroclor-1254{4}	18.41	15.46	707394	849169	1649.782	1707.422
7) L6 Aroclor-1254{5}	19.73	17.75	1367760	884453	1574.972	1845.804
Sum Aroclor-1254			3545704	2944178	7399.446	8614.859
Average Aroclor-1254					1479.889	1722.972

5 6 4A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0892A.D\ECD1A.CH Vial: 3
Signal #2 : E:\WESTDA~1\BA0892A.D\ECD2B.CH
Acq On : 13 Dec 97 18:42 Operator:
Sample : 278221 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:31 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13f	5.94	79372	54929	8.532m	9.090
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.33%#	22.73%#
2) SA Decachlorobiphen	29.10	24.43	132191	81171	8.753m	9.771
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.88%#	24.43%

Target Compounds

5 6 4 5/31/98

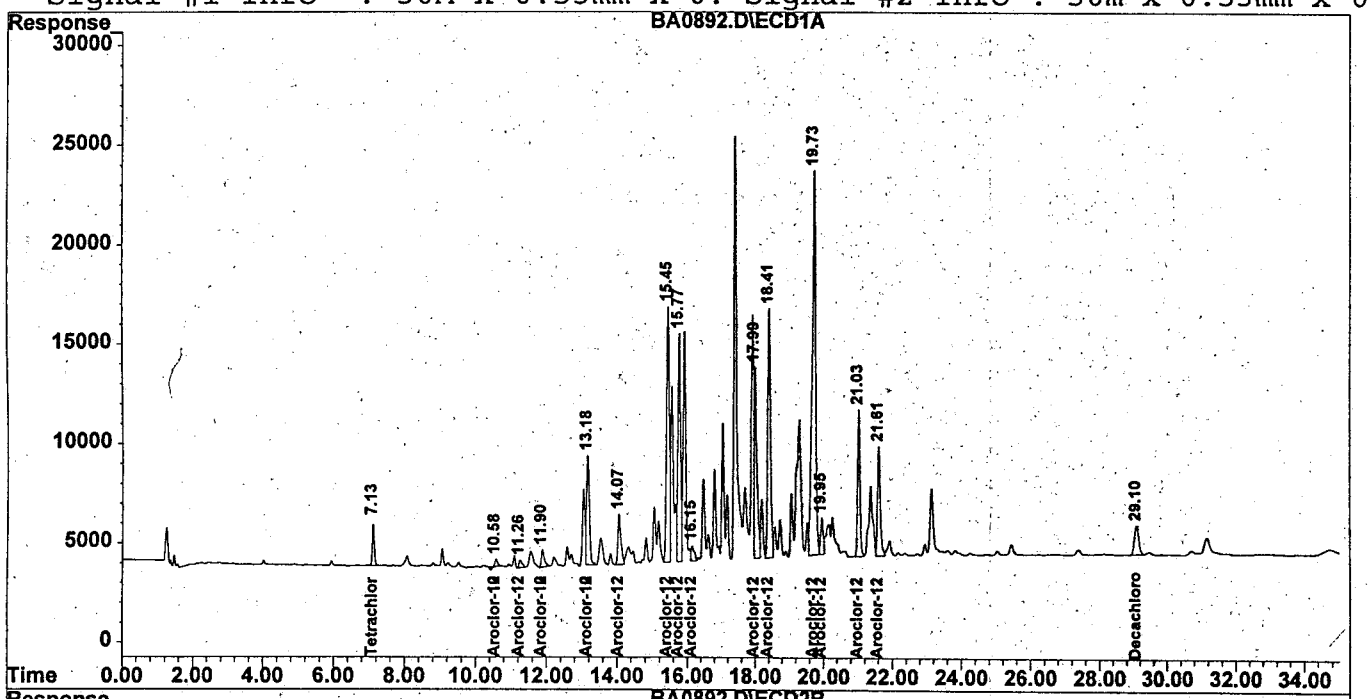
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

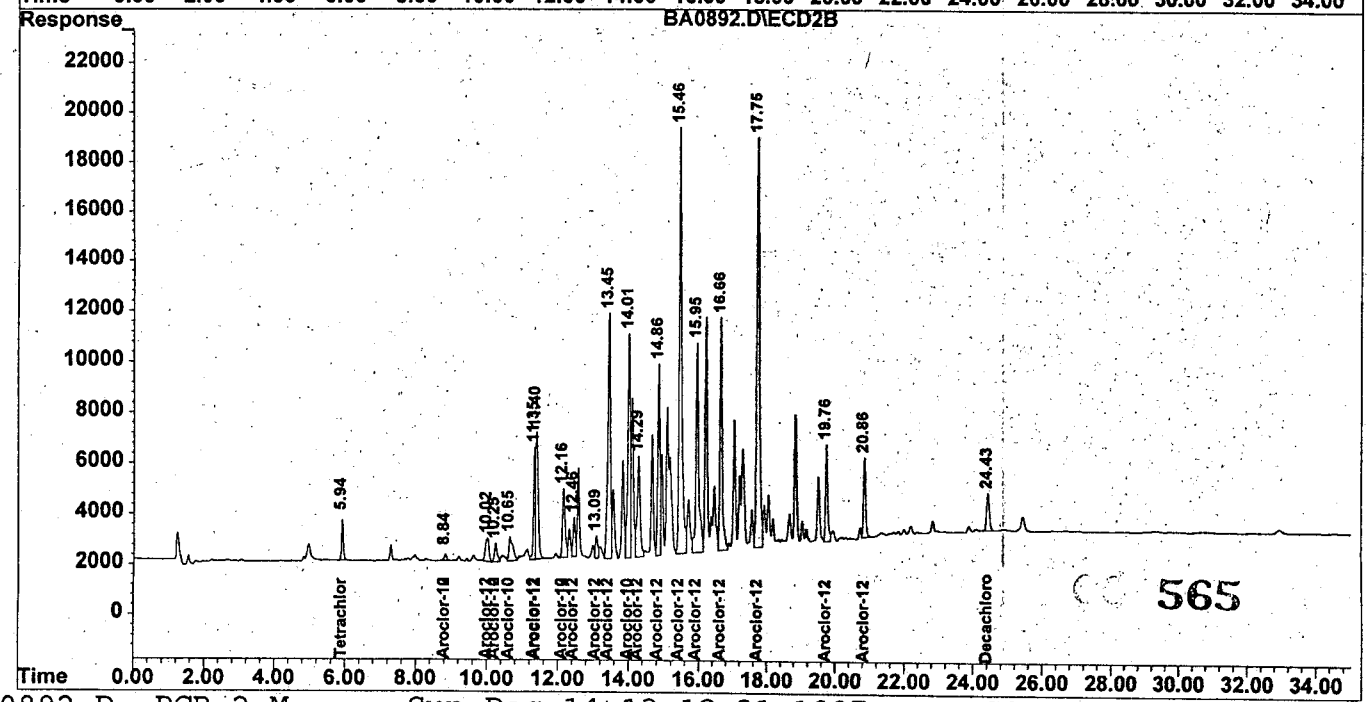
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0892.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_B\BA0892.D\ECD2B.CH
Acq On : 13 Dec 97 18:42 Operator:
Sample : 278221 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:41 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





565

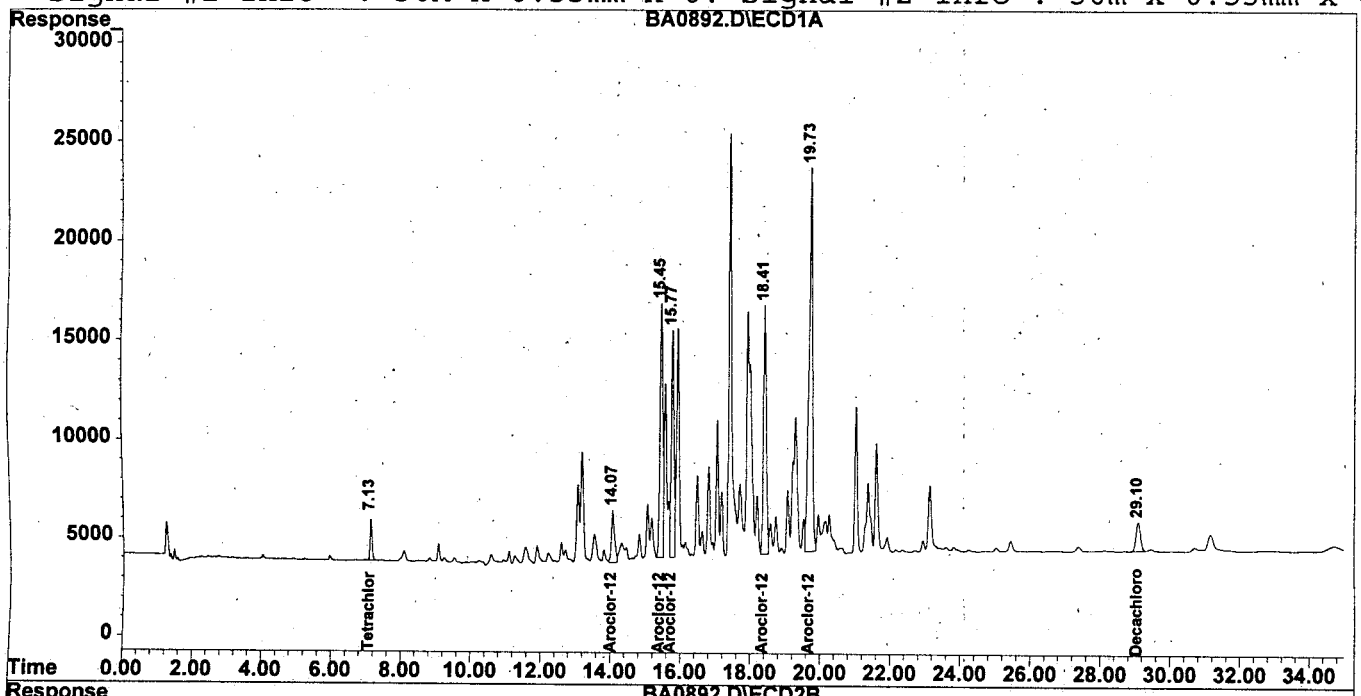
Quantitation Report

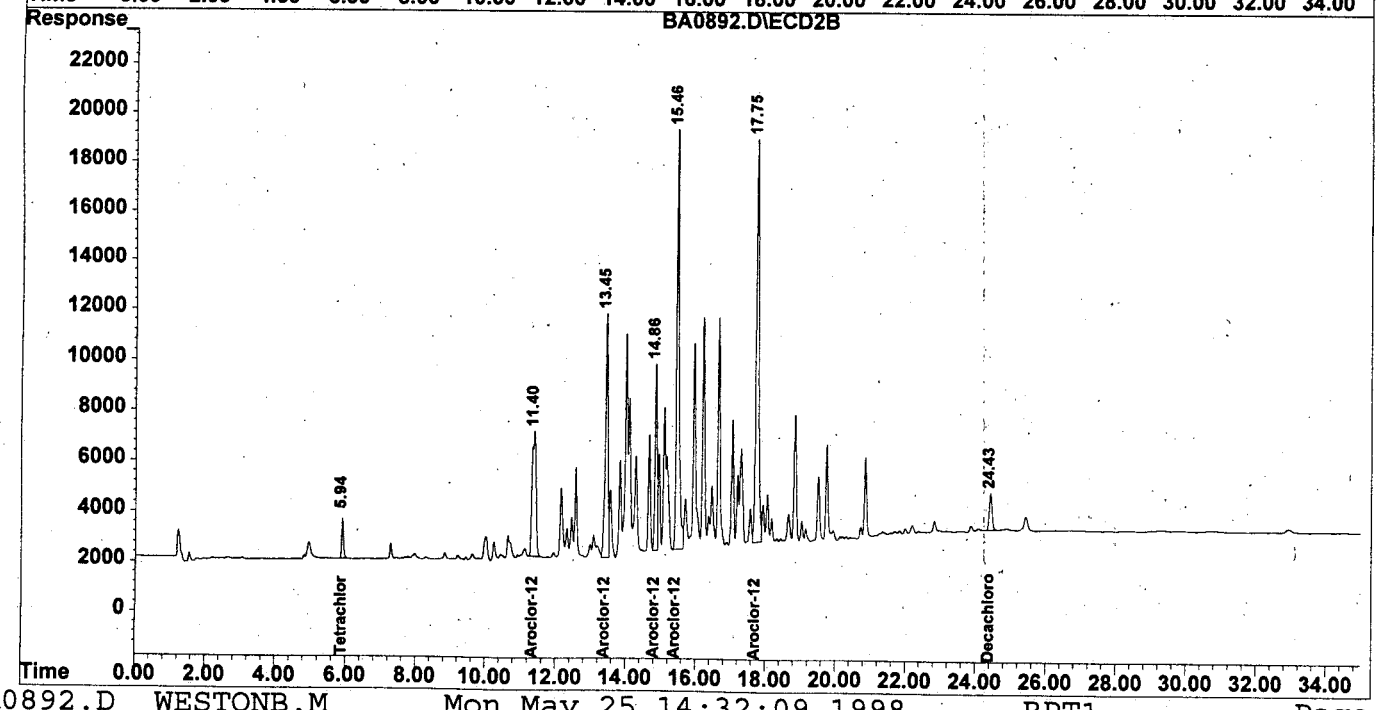
AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0892.D\ECD1A.CH Vial: 3
Signal #2 : E:\WESTDA~1\BA0892.D\ECD2B.CH
Acq On : 13 Dec 97 18:42 Operator:
Sample : 278221 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:35 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





565A

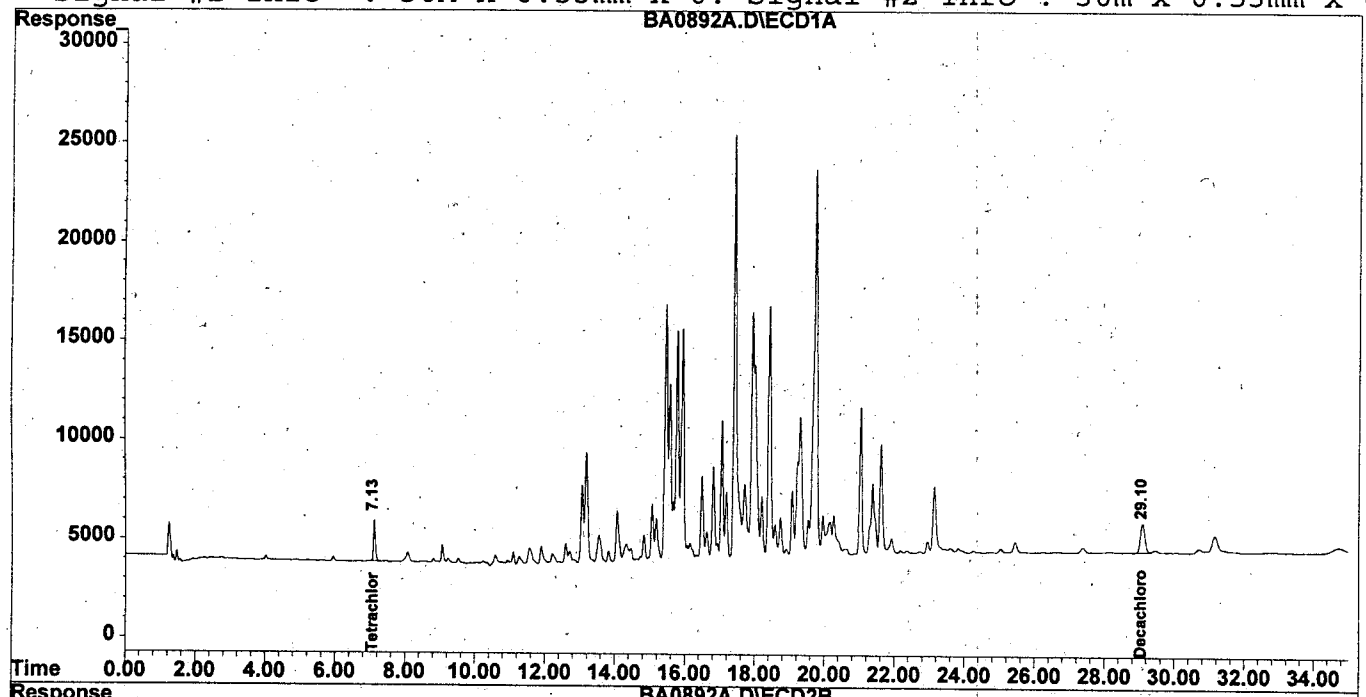
Quantitation Report

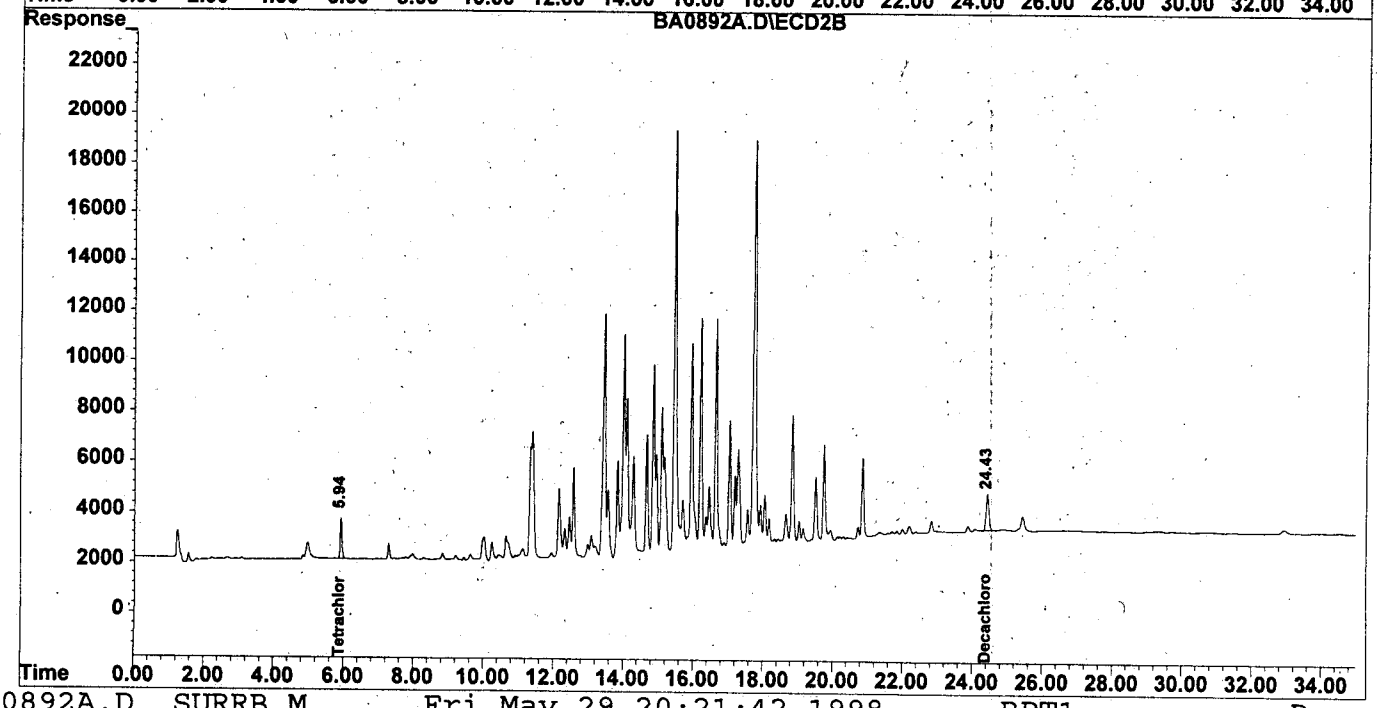
AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0892A.D\ECD1A.CH Vial: 3
Signal #2 : E:\WESTDA~1\BA0892A.D\ECD2B.CH
Acq On : 13 Dec 97 18:42 Operator:
Sample : 278221 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:31 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





565B

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 28 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278222
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNNS3
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	38.97%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	270	140
Aroclor-1221	U	U	550	380
Aroclor-1232	U	U	270	220
Aroclor-1242	U	U	270	140
Aroclor-1248	U	U	270	160
Aroclor-1254	4100	U	270	190
Aroclor-1260	U	U	270	220

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0893.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_B\BA0893.D\ECD2B.CH
Acq On : 13 Dec 97 19:21 Operator:
Sample : 278222 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:42 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	83849	56070	9.256m	8.657
Spiked Amount 40.000 Range 43 - 150 Recovery =					23.14%#	21.64%#
2) SA Decachlorobiphen	29.10	24.44	129144	81950	8.582	9.189
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.46%#	22.97%#
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	8.84	0	15903	N.D.	54.645 #
4) L1 Aroclor-1016{2}	10.58	10.25	19677	40466	41.735	71.484 #
5) L1 Aroclor-1016{3}	11.90	10.65	51538	95408	62.657	356.079 #
6) L1 Aroclor-1016{4}	0.00	12.17	0	222132	N.D.	865.880 #
7) L1 Aroclor-1016{5}	13.18	14.01	443834	374301	1359.245	2537.982 #
Sum Aroclor-1016			515049	748210	1463.637	3886.069
Average Aroclor-1016					487.879	777.214
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
11) L3 Aroclor-1232{1}	0.00	8.84	0	15903	N.D.	109.886 #
12) L3 Aroclor-1232{2}	0.00	10.00	0	84233	N.D.	2016.330 #
13) L3 Aroclor-1232{3}	10.58	11.40	19677	335164	90.659	4023.535 #
14) L3 Aroclor-1232{4}	11.90	13.09	51538	31541	146.818	557.502 #
Sum Aroclor-1232			71215	466841	237.476	6707.253
Average Aroclor-1232					118.738	1676.813
15) L4 Aroclor-1242{1}	0.00	8.84	0	15903	N.D.	63.639 #
16) L4 Aroclor-1242{2}	10.58	10.00	19677	84233	53.663	1097.458 #
17) L4 Aroclor-1242{3}	11.27	0.00	19344	0	174.486	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.17	0	222132	N.D.	959.903 #
19) L4 Aroclor-1242{5}	14.07	14.29	239911	230531	660.201	2579.363 #
Sum Aroclor-1242			278932	552799	888.350	4700.364
Average Aroclor-1242					296.117	1175.091
20) L5 Aroclor-1248{1}	10.58	10.25	19677	40466	101.431	97.155
21) L5 Aroclor-1248{2}	11.90	12.17	51538	222132	92.119	655.488 #
22) L5 Aroclor-1248{3}	13.18	12.47	443834	104077	1073.832	328.795 #

12/14/97

567

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0893.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_B\BA0893.D\ECD2B.CH
Acq On : 13 Dec 97 19:21 Operator:
Sample : 278222 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:42 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
23) L5	Aroclor-1248{4}	14.07	13.45	239911	507982	483.363	1887.857	#
24) L5	Aroclor-1248{5}	16.15	15.46	61003	826501	161.805	6562.020	#
Sum	Aroclor-1248			815963	1701158	1912.549	9531.315	
Average	Aroclor-1248					382.510	1906.263	
25) L6	Aroclor-1254{1}	14.07	11.35	239911	215384	1767.508	976.943	#
26) L6	Aroclor-1254{2}	15.45	13.45	677435	507982	1837.460	1213.022	#
27) L6	Aroclor-1254{3}	15.77	14.86	560461	317072	1216.160	2121.039	#
28) L6	Aroclor-1254{4}	18.41	15.46	643402	826501	1587.501	1700.865	
29) L6	Aroclor-1254{5}	19.73	17.75	1242895	806665	1440.195	1775.083	
Sum	Aroclor-1254			3364103	2673604	7848.824	7786.952	
Average	Aroclor-1254					1569.765	1557.390	
30) L7	Aroclor-1260{1}	17.99	15.95	463544	411749	890.675	1208.090	#
31) L7	Aroclor-1260{2}	18.41	16.66	643402	378613	1045.252	931.293	
32) L7	Aroclor-1260{3}	19.96	17.75	90670	806665	198.712	1564.088	#
33) L7	Aroclor-1260{4}	21.03	19.76	315533	155874	677.195	248.941	#
34) L7	Aroclor-1260{5}	21.61	20.86	276935	122499	214.824	259.344	
Sum	Aroclor-1260			1790084	1875400	3026.657	4211.755	
Average	Aroclor-1260					605.331	842.351	

568

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0893.D\ECD1A.CH Vial: 4
Signal #2 : E:\WESTDA~1\BA0893.D\ECD2B.CH
Acq On : 13 Dec 97 19:21 Operator:
Sample : 278222 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:36 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	80350	55808	4.288	4.363
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.72%#	10.91%#
2) SA Decachlorobiphen	29.10	24.44	129144	81567	5.856	8.781 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					14.64%#	21.95%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.07	11.35	258636	208280	1906.103m	937.420 #
4) L6 Aroclor-1254{2}	15.45	13.45	677435	505061	1766.077	1205.084 #
5) L6 Aroclor-1254{3}	15.77	14.86	560461	313139	1064.779	2088.557 #
6) L6 Aroclor-1254{4}	18.41	15.46	643402	823465	1500.541	1655.738
7) L6 Aroclor-1254{5}	19.73	17.75	1242895	794546	1431.191	1658.173
Sum Aroclor-1254			3382829	2644489	7668.691	~~7544.972~~
Average Aroclor-1254					1533.738	1508.994

568A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0893A.D\ECD1A.CH Vial: 4
Signal #2 : E:\WESTDA~1\BA0893A.D\ECD2B.CH
Acq On : 13 Dec 97 19:21 Operator:
Sample : 278222 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:31 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13f	5.94	79402	55808	8.535m	9.236
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.34%#	23.09%#
2) SA Decachlorobiphen	29.10	24.44	129144	81567	8.551	9.818
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.38%#	24.55%

Target Compounds

5 6 8B
7m-5/28/98

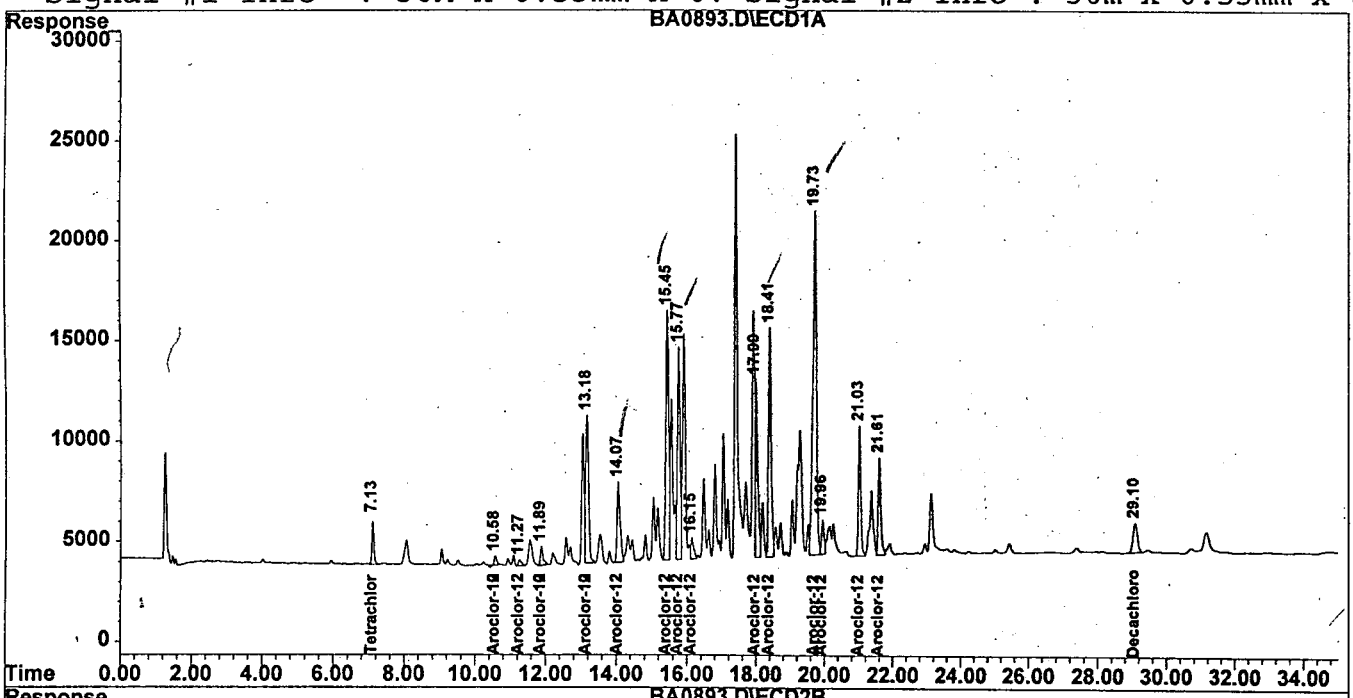
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

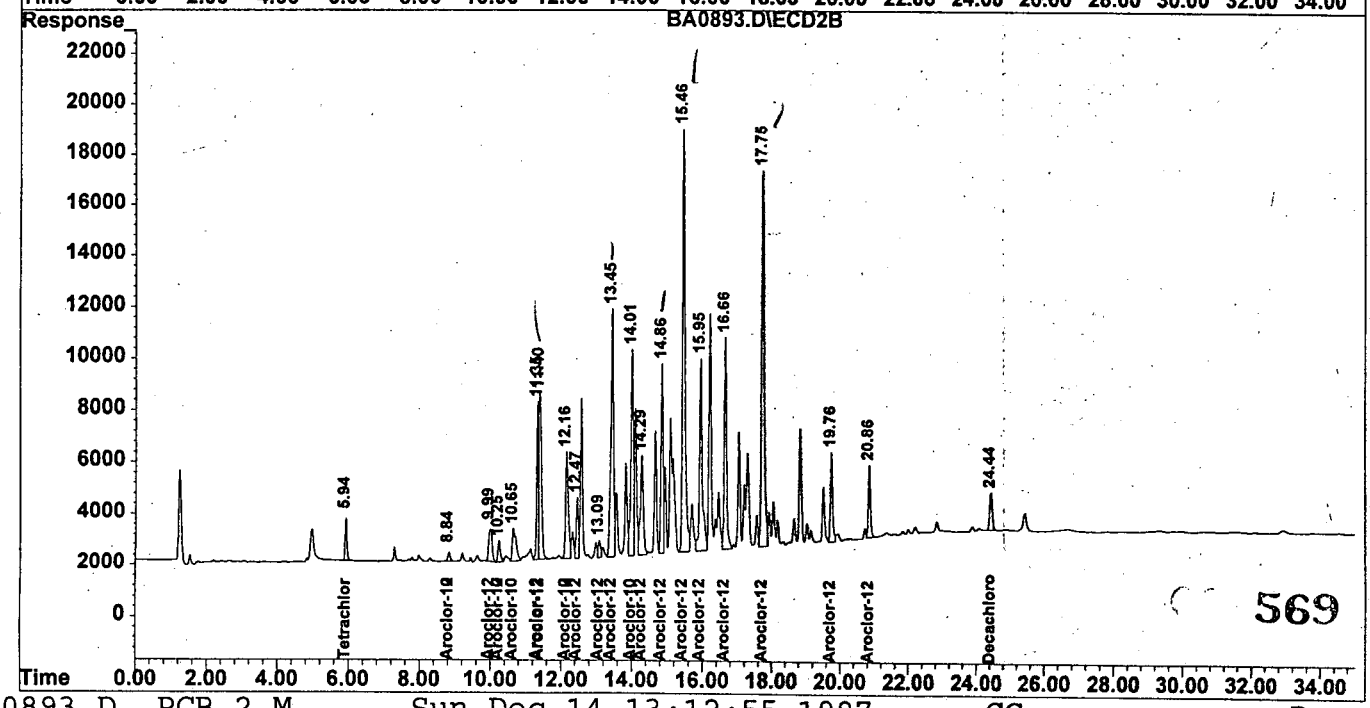
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0893.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_B\BA0893.D\ECD2B.CH
Acq On : 13 Dec 97 19:21 Operator:
Sample : 278222 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:42 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





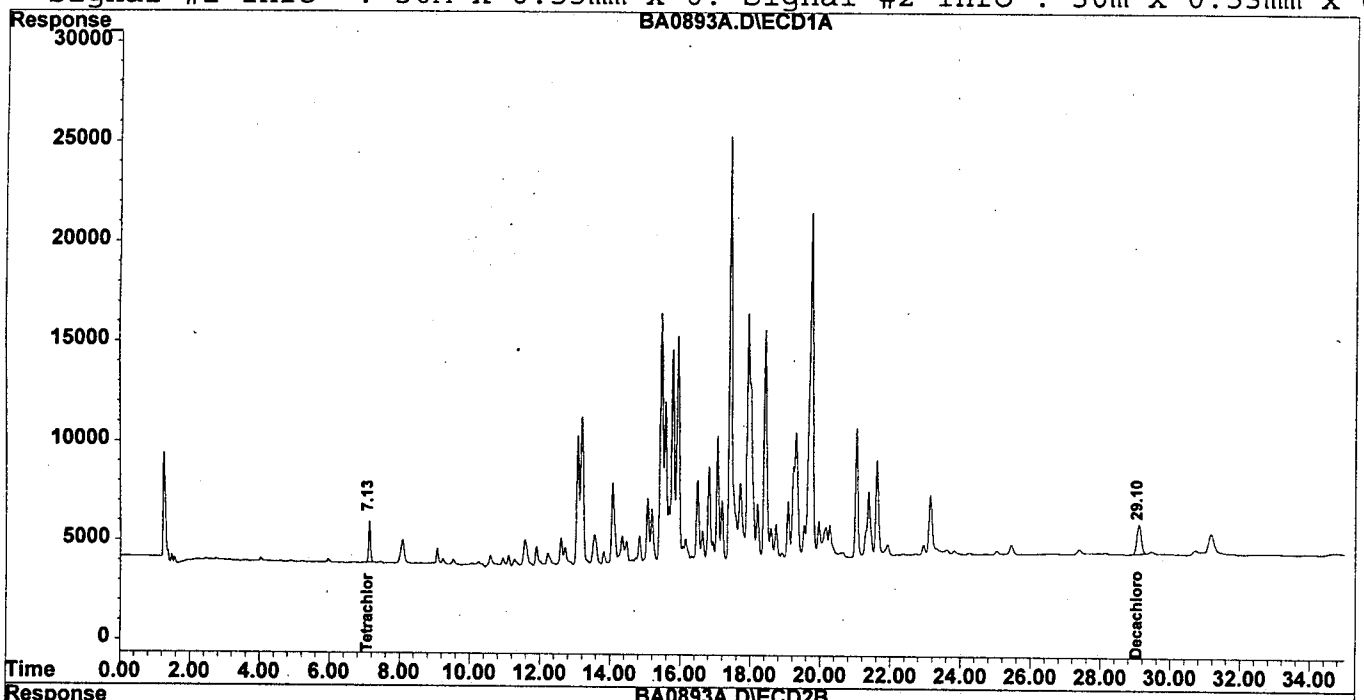
569

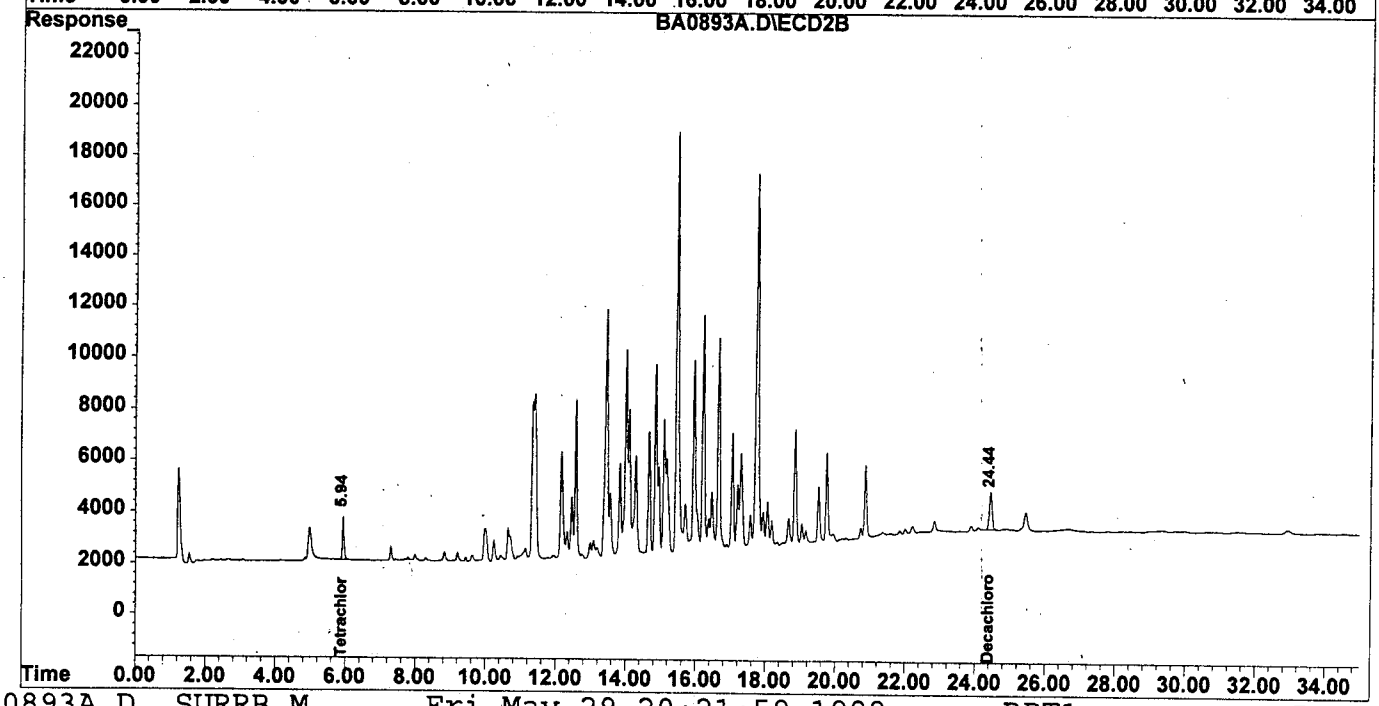
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0893A.D\ECD1A.CH Vial: 4
Signal #2 : E:\WESTDA~1\BA0893A.D\ECD2B.CH
Acq On : 13 Dec 97 19:21 Operator:
Sample : 278222 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:31 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





569B

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 2 8 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278223
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNND1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/11/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	45.51%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	61	30
Aroclor-1221	U	U	120	86
Aroclor-1232	U	U	61	49
Aroclor-1242	U	U	61	30
Aroclor-1248	U	U	61	37
Aroclor-1254	2800 J	U	61	43
Aroclor-1260	U	U	61	49

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

J AR1254 ? pk conc. >5000

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0865.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_B\BA0865.D\ECD2B.CH
Acq On : 11 Dec 97 19:35 Operator:
Sample : 278223 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:35 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	5.95	370986	251920	40.952	38.895
Spiked Amount 40.000 Range 43 - 150 Recovery =					102.38%	97.24%
2) SA Decachlorobiphen	29.15	24.46	542405	349369	36.043	39.176
Spiked Amount 40.000 Range 24 - 154 Recovery =					90.11%	97.94%
Target Compounds						
3) L1 Aroclor-1016{1}	9.14	8.85	152566	64570	716.734	221.876 #
4) L1 Aroclor-1016{2}	10.65	10.26	63690	134070	135.085	236.836 #
5) L1 Aroclor-1016{3}	11.95	10.67	155382	229156	188.907	855.245 #
6) L1 Aroclor-1016{4}	0.00	12.18	0	723327	N.D.	2819.557 #
7) L1 Aroclor-1016{5}	13.22	14.02	1529940	1021222	4685.453	6924.482 #
Sum Aroclor-1016			1901579	2172344	5726.178	11057.996
Average Aroclor-1016					1431.545	2211.599
8) L2 Aroclor-1221{1}	6.02	0.00	20015	0	227.455	N.D. #
10) L2 Aroclor-1221{3}	9.14	0.00	152566	0	504.009	N.D. #
Sum Aroclor-1221			172581	0	731.464	N.D.
Average Aroclor-1221					365.732	0.000
11) L3 Aroclor-1232{1}	0.00	8.85	0	64570	N.D.	446.172 #
12) L3 Aroclor-1232{2}	9.14	10.04	152566	258128	746.536	6178.942 #
13) L3 Aroclor-1232{3}	10.65	11.36	63690	570397	293.440	6847.421 #
14) L3 Aroclor-1232{4}	11.95	13.10	155382	85931	442.643	1518.889 #
Sum Aroclor-1232			371638	979026	1482.619	14991.424
Average Aroclor-1232					494.206	3747.856
15) L4 Aroclor-1242{1}	9.14	8.85	152566	64570	832.257	258.397 #
16) L4 Aroclor-1242{2}	10.65	10.04	63690	258128	173.693	3363.104 #
17) L4 Aroclor-1242{3}	11.34	11.02	61161	34192	551.666	211.970 #
18) L4 Aroclor-1242{4}	12.87	12.18	43394	723327	251.919	3125.725 #
19) L4 Aroclor-1242{5}	14.12	14.30	691397	688422	1902.631	7702.606 #
Sum Aroclor-1242			1012208	1768639	3712.166	14661.802
Average Aroclor-1242					742.433	2932.360
20) L5 Aroclor-1248{1}	10.65	10.26	63690	134070	328.307	321.888

571

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0865.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_B\BA0865.D\ECD2B.CH
Acq On : 11 Dec 97 19:35 Operator:
Sample : 278223 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:35 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
21) L5	Aroclor-1248{2}	11.95	12.18	155382	723327	277.730	2134.462 #
22) L5	Aroclor-1248{3}	13.22	12.48	1529940	347353	3701.603	1097.341 #
23) L5	Aroclor-1248{4}	14.12	13.46	691397	1381158	1393.001	5132.910 #
24) L5	Aroclor-1248{5}	0.00	15.47	0	2398974	N.D.	19046.707 #
Sum	Aroclor-1248			2440410	4984882	5700.642	27733.307
Average	Aroclor-1248					1425.160	5546.661
						NO	NO
25) L6	Aroclor-1254{1}	14.12	11.36	691397	570397	5093.773	2587.215 #
26) L6	Aroclor-1254{2}	15.49	13.46	2376116	1381158	6444.926	3298.096 #
27) L6	Aroclor-1254{3}	15.81	14.88	1641697	1143734	3562.367	7650.963 #
28) L6	Aroclor-1254{4}	18.44	15.47	2103865	2398974	5190.981	4936.876
29) L6	Aroclor-1254{5}	19.77	17.76	3948891	2593168	4575.748	5706.321
Sum	Aroclor-1254			10761967	8087432	24867.795	24179.471
Average	Aroclor-1254					4973.559	4835.894
30) L7	Aroclor-1260{1}	17.96	15.97	3192636	1122479	6134.471	3293.407 #
31) L7	Aroclor-1260{2}	18.44	16.67	2103865	1085401	3417.876	2669.813
32) L7	Aroclor-1260{3}	19.99	17.76	331001	2593168	725.424	5028.039 #
33) L7	Aroclor-1260{4}	21.06	19.77	1058130	487277	2270.947	778.212 #
34) L7	Aroclor-1260{5}	21.64	20.88	949939	392029	736.887	829.969
Sum	Aroclor-1260			7635572	5680355	13285.606	12599.440
Average	Aroclor-1260					2657.121	2519.888
						NO	NO

572

12/13/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 28 1998

Signal #1 : E:\WESTDA~1\BA0865.D\ECD1A.CH Vial: 14
Signal #2 : E:\WESTDA~1\BA0865.D\ECD2B.CH
Acq On : 11 Dec 97 19:35 Operator:
Sample : 278223 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:26 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.20	5.95	371287	243887	19.813	19.066	
Spiked Amount 40.000 Range 43 - 150 Recovery =					49.53%	47.67%	
2) SA Decachlorobiphen	29.15	24.46	542405	340643	24.596	36.672	#
Spiked Amount 40.000 Range 24 - 154 Recovery =					61.49%	91.68%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.12	11.36	584794	530252	4309.831m	2386.548	#
4) L6 Aroclor-1254{2}	15.49	13.46	2325413	1364042	6062.365	3254.629	#
5) L6 Aroclor-1254{3}	15.81	14.88	1604265	1125962	3047.827	7509.879	#
6) L6 Aroclor-1254{4}	18.44	15.47	2068290	2370830	4823.665	4767.022	
7) L6 Aroclor-1254{5}	19.77	17.76	3918858	2548599	4512.558	5318.783	
Sum Aroclor-1254			10501621	7939685	22756.246	23236.862	
Average Aroclor-1254					4551.249	4647.372	

572A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0865A.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0865A.D\ECD2B.CH
Acq On : 11 Dec 97 19:35
Sample : 278223
Misc : QPC7395
Vial: 14
Operator:
Inst : GC_5890_2
Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	5.95	371287	243887	39.912	40.360
Spiked Amount 40.000 Range 43 - 150 Recovery =					99.78%	100.90%
2) SA Decachlorobiphen	29.15	24.46	542405	340643	35.916	41.004
Spiked Amount 40.000 Range 24 - 154 Recovery =					89.79%	102.51%

Target Compounds

5 7 2 B

5/30/98

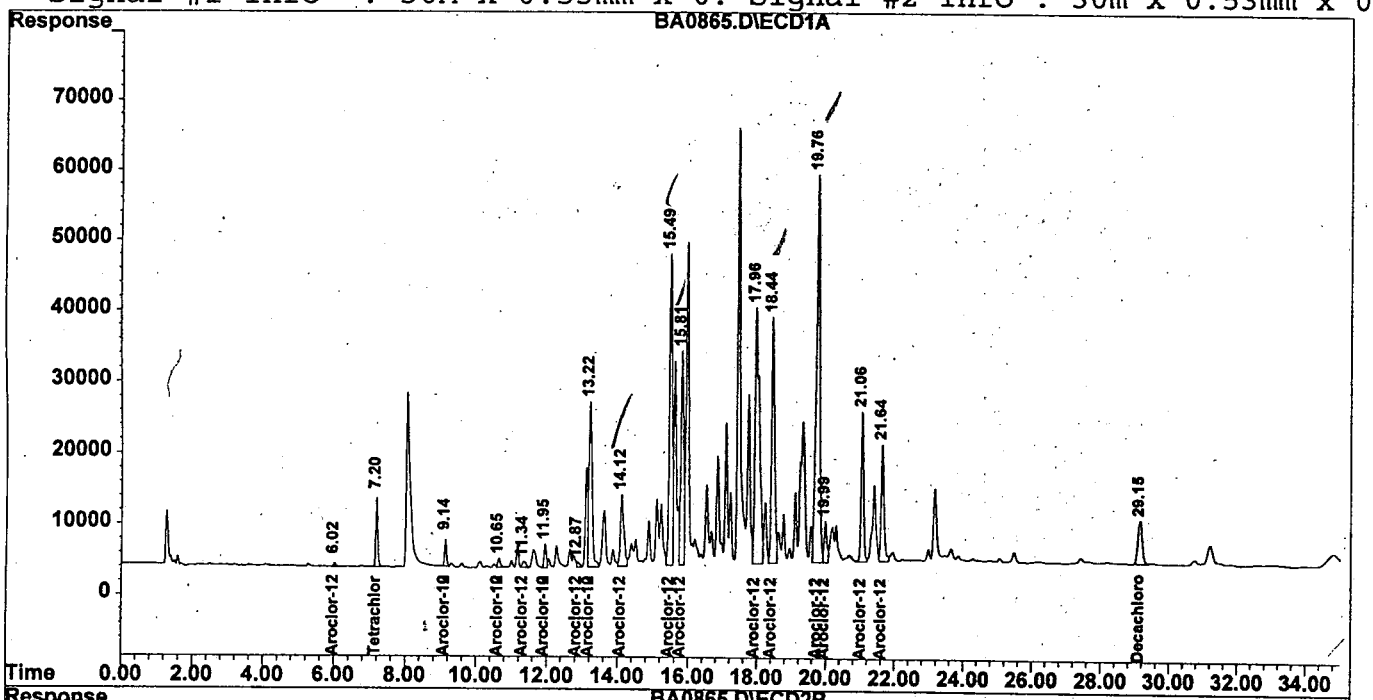
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

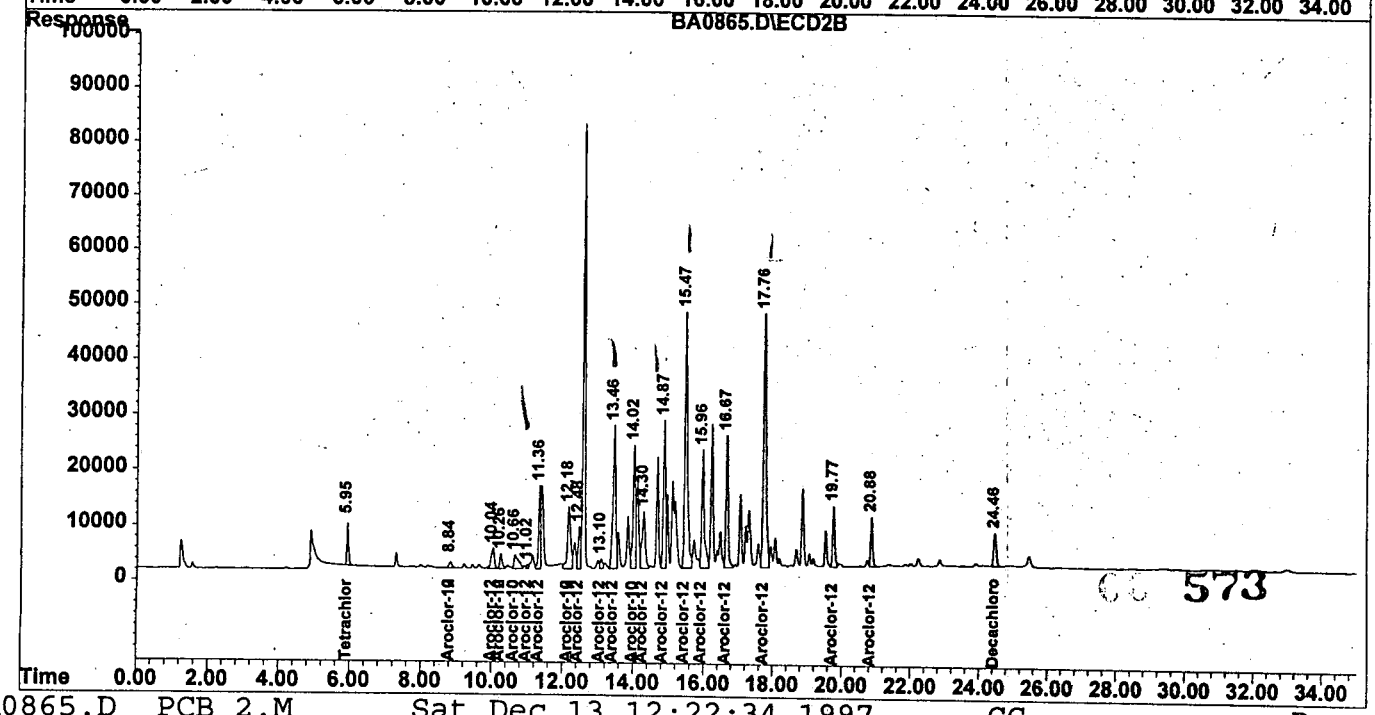
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0865.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_B\BA0865.D\ECD2B.CH
Acq On : 11 Dec 97 19:35 Operator:
Sample : 278223 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:35 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





573

Quantitation Report

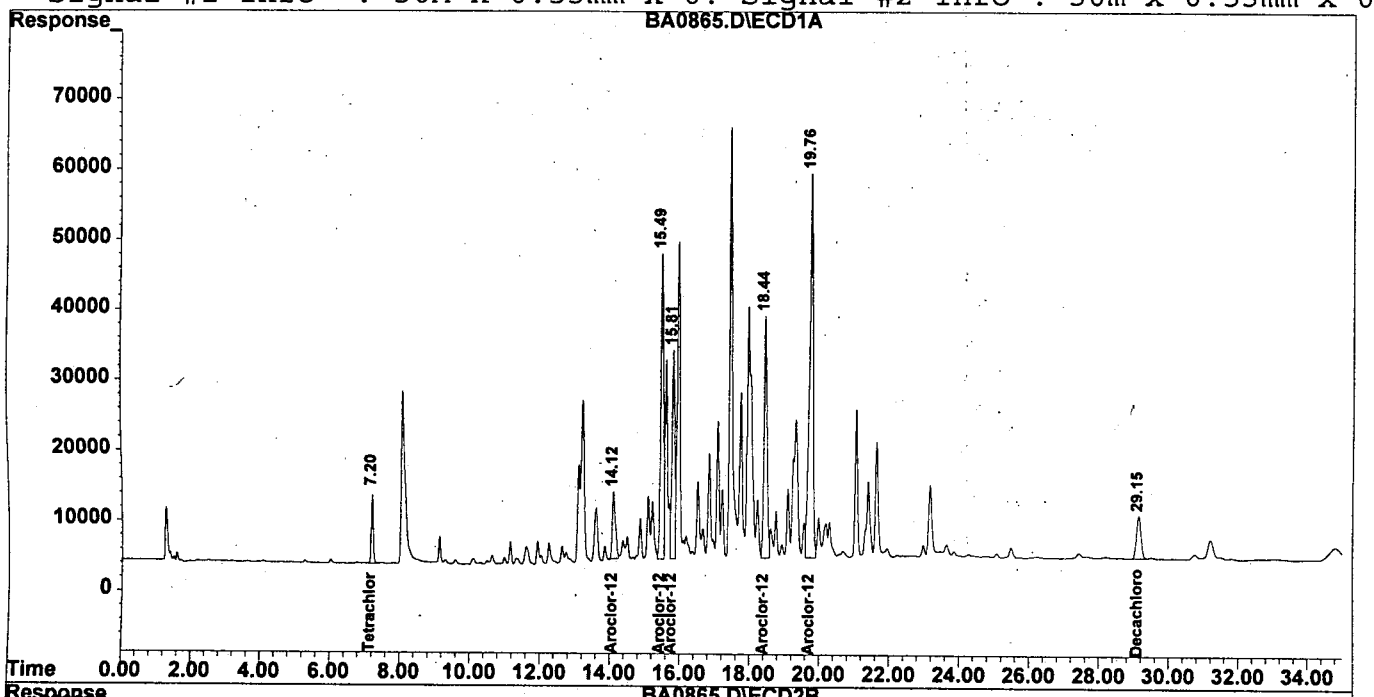
AMENDED REPORT MAY 2 8 1998

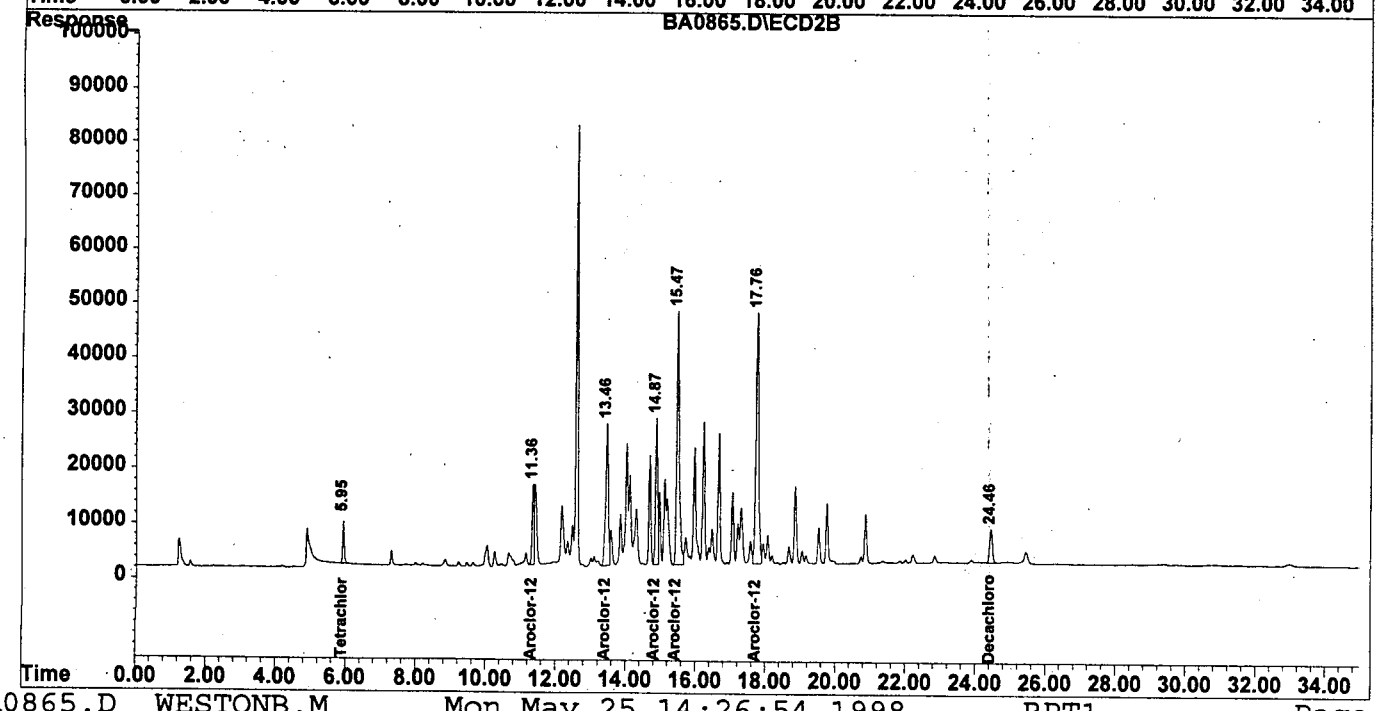
Signal #1 : E:\WESTDA~1\BA0865.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0865.D\ECD2B.CH
Acq On : 11 Dec 97 19:35
Sample : 278223
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:26 1998 Quant Results File: WESTONB.RES

Vial: 14
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





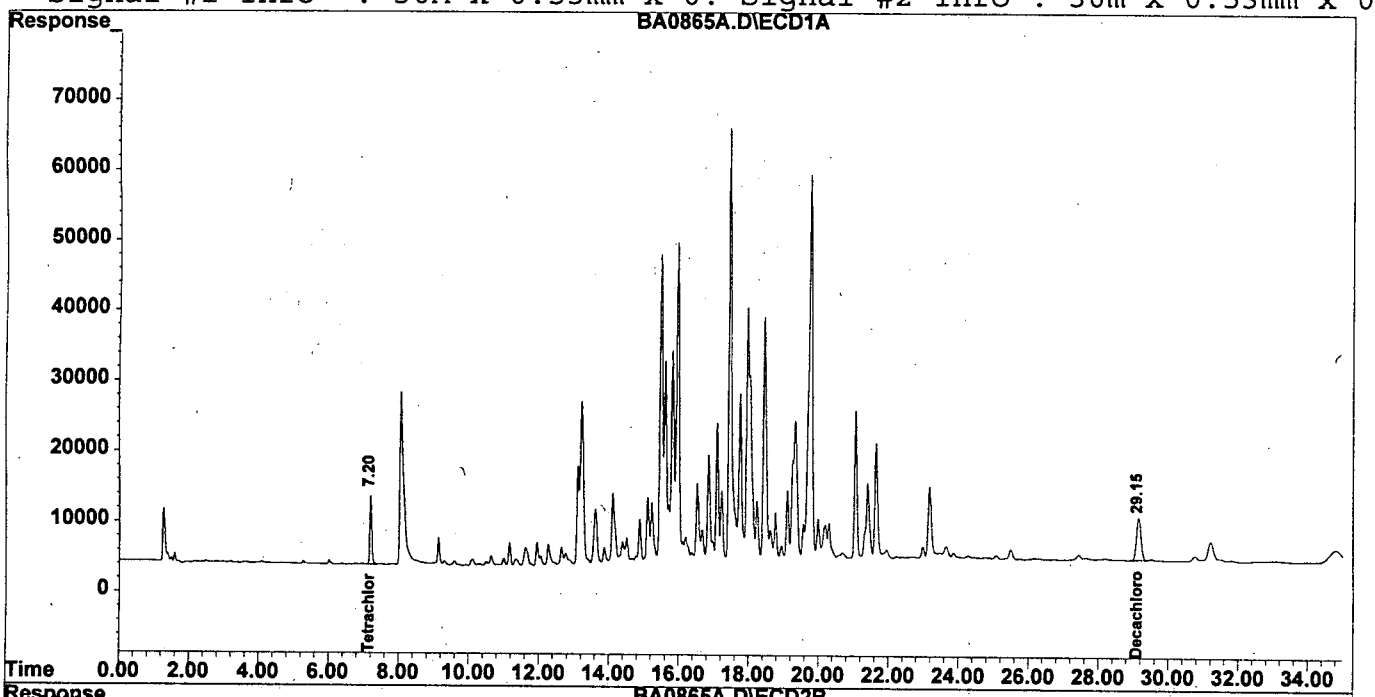
Quantitation Report

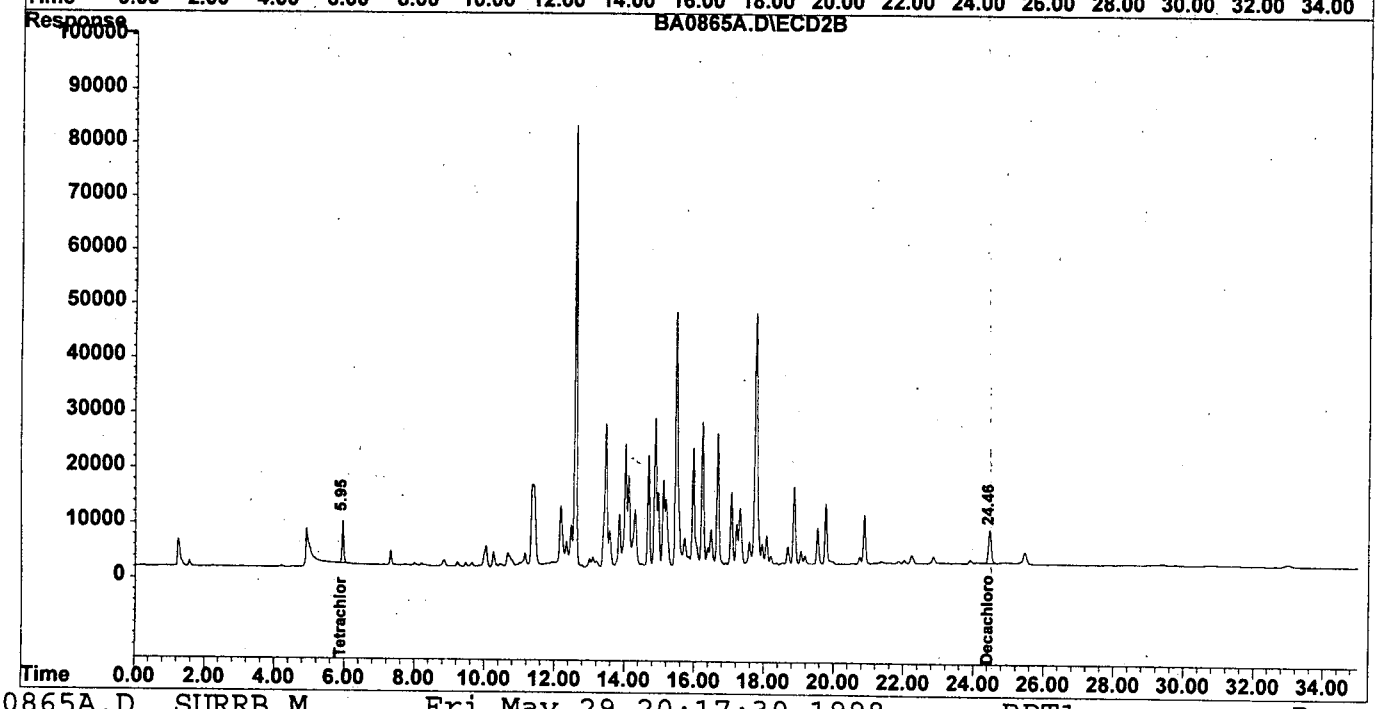
AMENDED REPORT Via MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0865A.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0865A.D\ECD2B.CH
Acq On : 11 Dec 97 19:35 Operator:
Sample : 278223 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





5 7 3B

AMENDED REPORT MAY 2 6 1998

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278224
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNND2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/11/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	35.87%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	52	26
Aroclor-1221	U	U	100	73
Aroclor-1232	U	U	52	42
Aroclor-1242	U	U	52	26
Aroclor-1248	U	U	52	31
Aroclor-1254	~~250~~ 320	U	52	36
Aroclor-1260	U	U	52	42

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0866.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_B\BA0866.D\ECD2B.CH
Acq On : 11 Dec 97 20:14 Operator:
Sample : 278224 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:58 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.20	5.95	370292	314444	40.875	48.548	
Spiked Amount 40.000 Range 43 - 150 Recovery =					102.19%	121.37%	
2) SA Decachlorobiphen	29.15	24.46	515642	362316	34.265	40.628	
Spiked Amount 40.000 Range 24 - 154 Recovery =					85.66%	101.57%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.14	0.00	17182	0	80.721	N.D.	#
4) L1 Aroclor-1016{2}	0.00	10.27	0	33030	N.D.	58.348	#
5) L1 Aroclor-1016{3}	11.96	10.67	14143	42471	17.195	158.509	#
6) L1 Aroclor-1016{4}	0.00	12.18	0	370029	N.D.	1442.387	#
7) L1 Aroclor-1016{5}	13.20	14.03	1065855	166568	3264.187	1129.426	#
Sum Aroclor-1016			1097180	612098	3362.102	2788.669	
Average Aroclor-1016					1120.701	697.167	
11) L2 Aroclor-1221{3}	9.14	0.00	17182	0	56.763	N.D.	#
Sum Aroclor-1221			17182	0	56.763	N.D.	
Average Aroclor-1221					56.763	0.000	
12) L3 Aroclor-1232{2}	9.14	10.04	17182	57945	84.078	1387.054	#
13) L3 Aroclor-1232{3}	0.00	11.36	0	244959	N.D.	2940.647	#
14) L3 Aroclor-1232{4}	11.96	13.10	14143	9383	40.290	165.842	#
Sum Aroclor-1232			31326	312286	124.368	4493.543	
Average Aroclor-1232					62.184	1497.848	
15) L4 Aroclor-1242{1}	9.14	0.00	17182	0	93.732	N.D.	#
16) L4 Aroclor-1242{2}	0.00	10.04	0	57945	N.D.	754.952	#
18) L4 Aroclor-1242{4}	0.00	12.18	0	370029	N.D.	1599.012	#
19) L4 Aroclor-1242{5}	14.12	14.30	45046	68750	123.961	769.233	#
Sum Aroclor-1242			62229	496724	217.693	3123.198	
Average Aroclor-1242					108.847	1041.066	
20) L5 Aroclor-1248{1}	0.00	10.27	0	33030	N.D.	79.302	#
21) L5 Aroclor-1248{2}	0.00	12.18	0	370029	N.D.	1091.916	#
22) L5 Aroclor-1248{3}	13.20	0.00	1065855	0	2578.774	N.D.	#
23) L5 Aroclor-1248{4}	14.12	13.46	45046	199142	90.758	740.089	#

575

12/13/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0866.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_B\BA0866.D\ECD2B.CH
Acq On : 11 Dec 97 20:14 Operator:
Sample : 278224 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:58 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
24) L5	Aroclor-1248{5}	0.00	15.48	0	318374	N.D.	2527.739	#
Sum	Aroclor-1248			1110901	920576	2669.532	4439.046	
Average	Aroclor-1248					1334.766	1109.762	
25) L6	Aroclor-1254{1}	14.12	11.36	45046	60364	331.872	273.800m	
26) L6	Aroclor-1254{2}	15.50	13.46	242776	199142	658.500	475.536	#
27) L6	Aroclor-1254{3}	15.82	14.87	226699	114482	491.920	765.824	#
28) L6	Aroclor-1254{4}	18.45	15.48	245575	318374	605.922	655.186	
29) L6	Aroclor-1254{5}	19.77	17.77	414595	331030	480.408	728.438	#
Sum	Aroclor-1254			1174691	1023393	2568.622	2898.784	
Average	Aroclor-1254					513.724	579.757	
31) L7	Aroclor-1260{1}	18.03	15.97	192435	158362	369.754	464.641	#
32) L7	Aroclor-1260{2}	18.45	16.67	245575	153132	398.955	376.666	
33) L7	Aroclor-1260{3}	19.99	17.77	23706	331030	51.955	641.852	#
34) L7	Aroclor-1260{4}	21.06	19.77	103151	43285	221.381	69.129	#
35) L7	Aroclor-1260{5}	21.64	20.88	74355	38453	57.679	81.409	#
Sum	Aroclor-1260			639223	724262	1099.724	1633.697	
Average	Aroclor-1260					219.945	326.739	

576

12/13/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 28 1998

Signal #1 : E:\WESTDA~1\BA0866.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0866.D\ECD2B.CH
Acq On : 11 Dec 97 20:14
Sample : 278224
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:03 1998 Quant Results File: WESTONB.RES

Vial: 15
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	5.95	370135	238398	19.752	18.637
Spiked Amount 40.000 Range 43 - 150 Recovery =					49.38%	46.59%
2) SA Decachlorobiphen	29.15	24.46	515642	330408	23.382	35.570 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					58.46%	88.93%
Target Compounds						
3) L6 Aroclor-1254{1}	14.12	11.36	36744	118189	270.798	531.942 #
4) L6 Aroclor-1254{2}	15.50	13.46	242778	196332	632.923	468.451 #
5) L6 Aroclor-1254{3}	15.82	14.87	226699	114099	430.690	761.010 #
6) L6 Aroclor-1254{4}	18.45	15.48	245531	312636	572.626	628.616
7) L6 Aroclor-1254{5}	19.77	17.77	414595	317773	477.405	663.174 #
Sum Aroclor-1254			1166347	1059028	2384.443	3053.194
Average Aroclor-1254					476.889	610.639

5/26/98 576A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0866A.D\ECD1A.CH Vial: 15
Signal #2 : E:\WESTDA~1\BA0866A.D\ECD2B.CH
Acq On : 11 Dec 97 20:14 Operator:
Sample : 278224 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	5.95	370135	238398	39.788	39.452
Spiked Amount 40.000 Range 43 - 150 Recovery =					99.47%	98.63%
2) SA Decachlorobiphen	29.15	24.46	515642	330408	34.144	39.772
Spiked Amount 40.000 Range 24 - 154 Recovery =					85.36%	99.43%

Target Compounds

5 7 6B 5/30/98

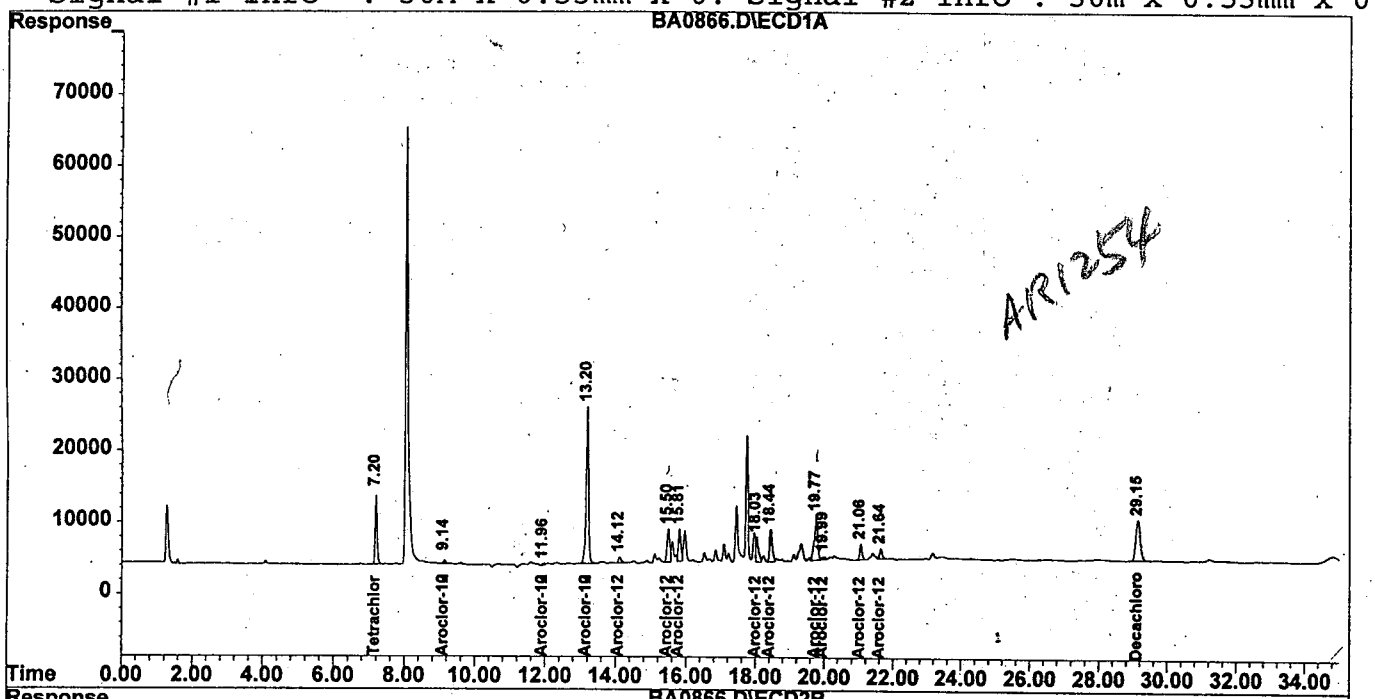
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

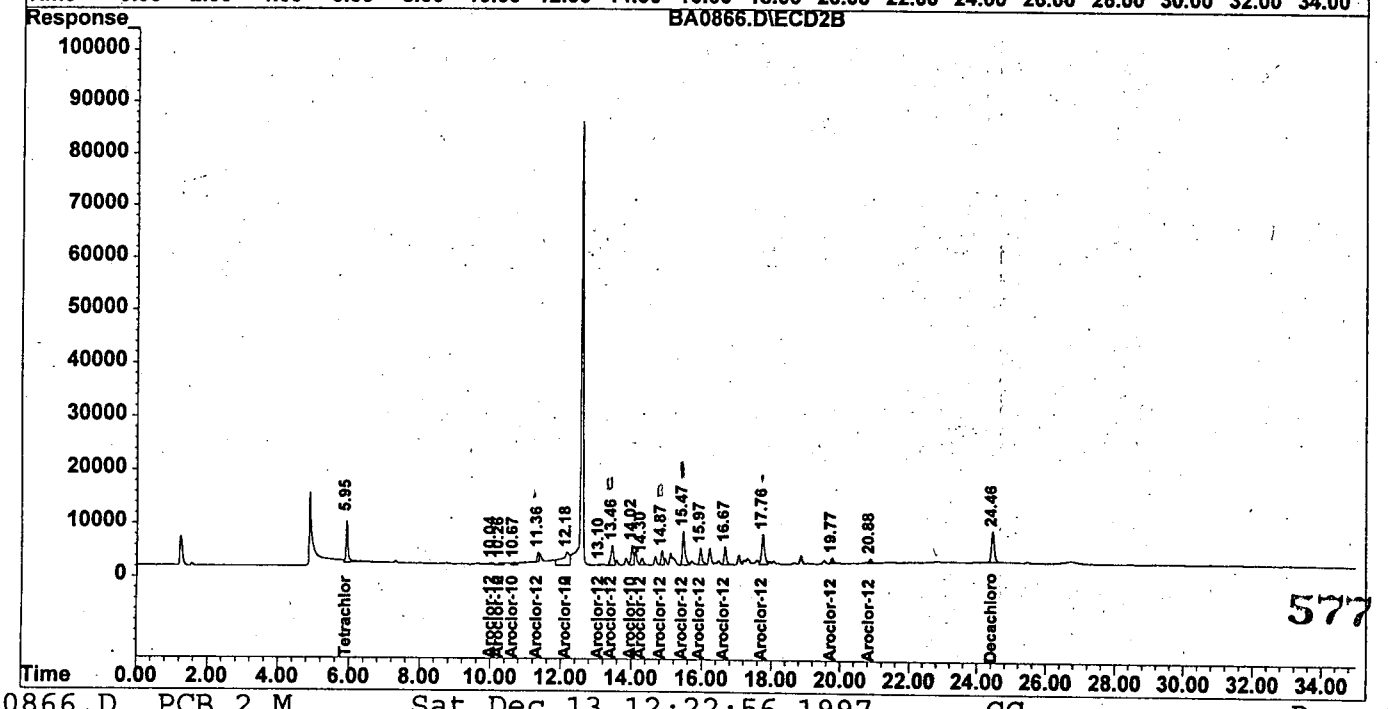
Signal #1 : C:\HPCHEM\1\DATA_B\BA0866.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_B\BA0866.D\ECD2B.CH
Acq On : 11 Dec 97 20:14 Operator:
Sample : 278224 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:58 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1254



577

Quantitation Report

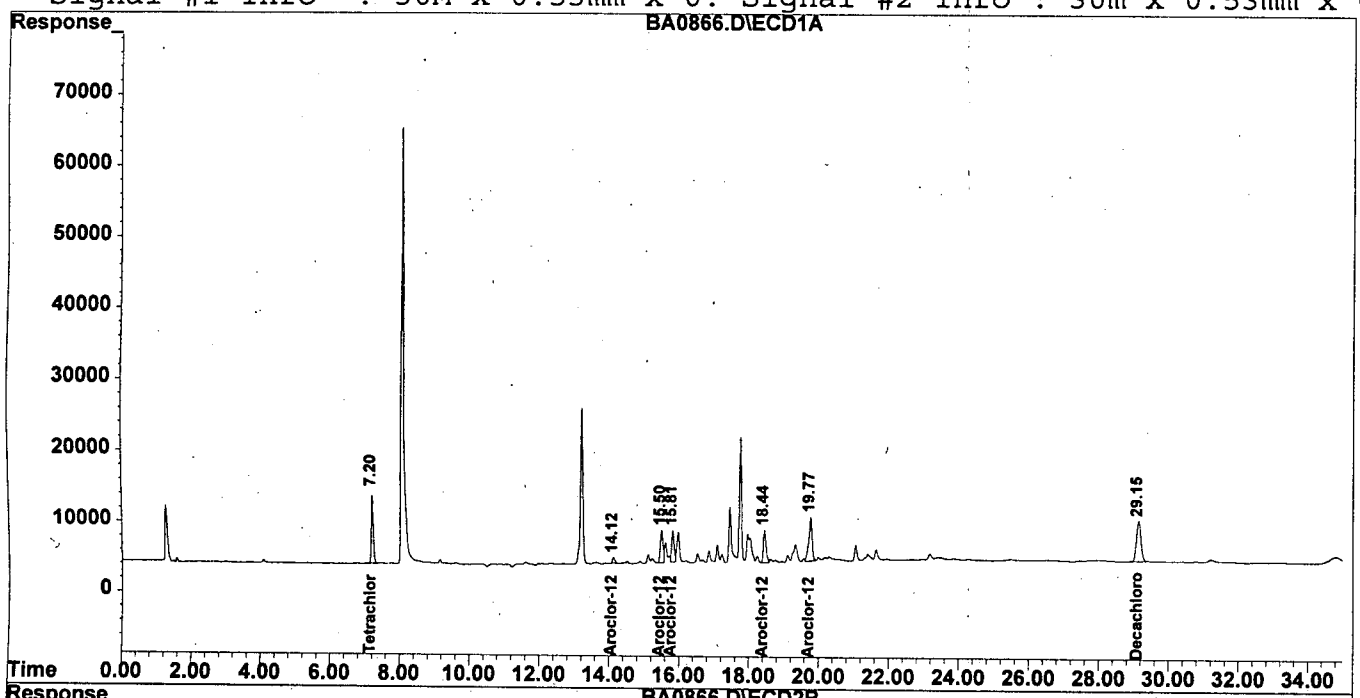
AMENDED REPORT MAY 2 8 1998

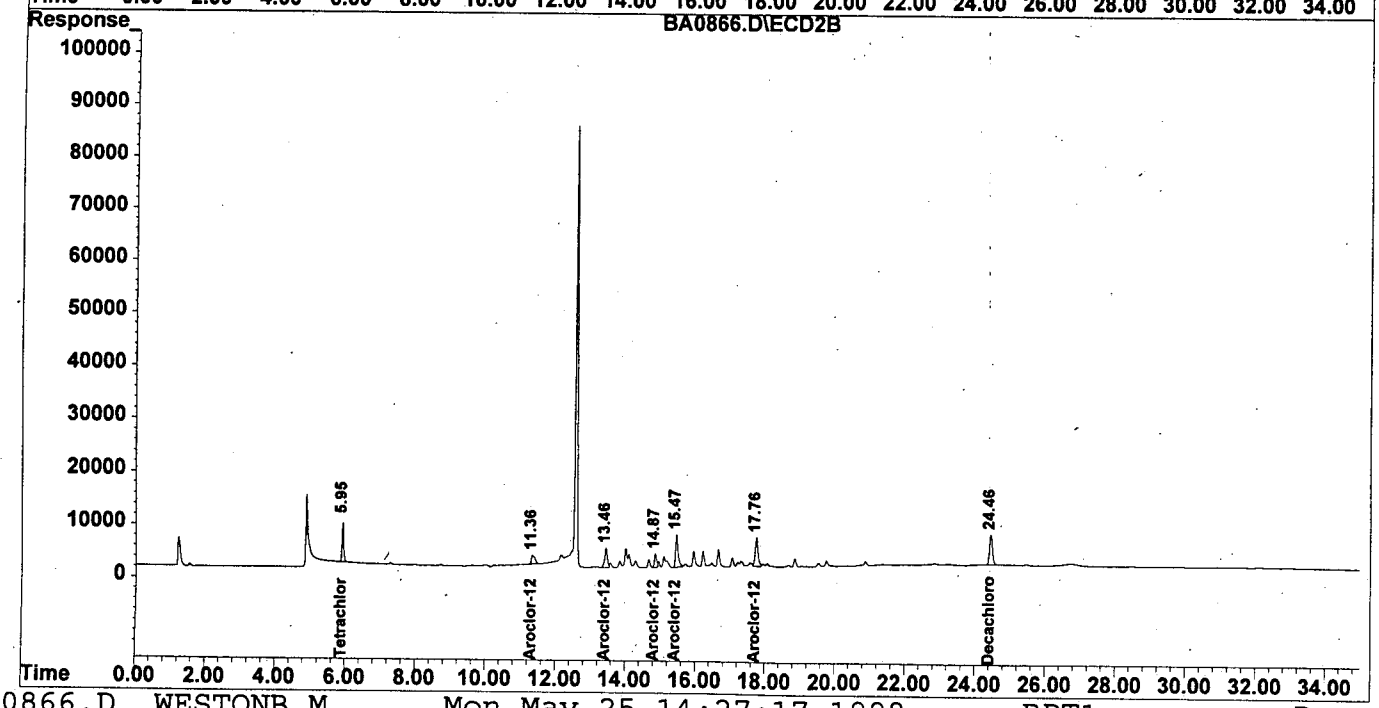
Signal #1 : E:\WESTDA~1\BA0866.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0866.D\ECD2B.CH
Acq On : 11 Dec 97 20:14
Sample : 278224
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:03 1998 Quant Results File: WESTONB.RES

Vial: 15
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





577A

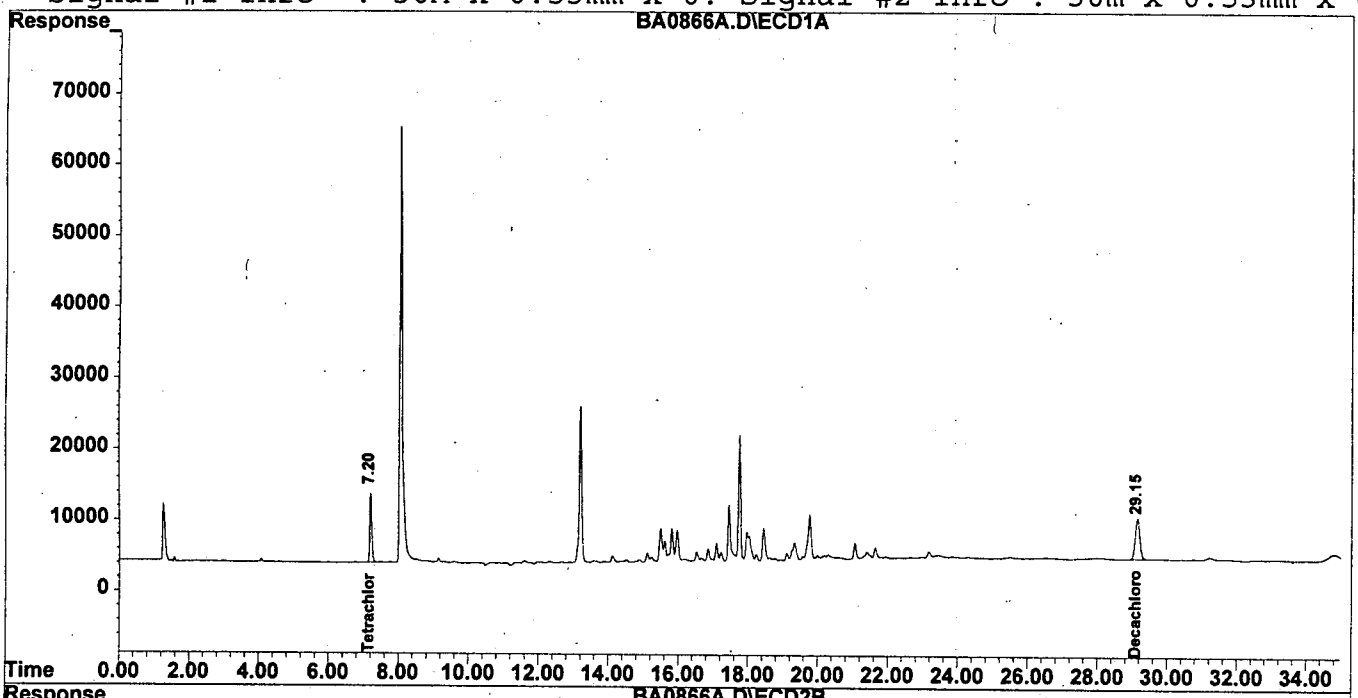
Quantitation Report

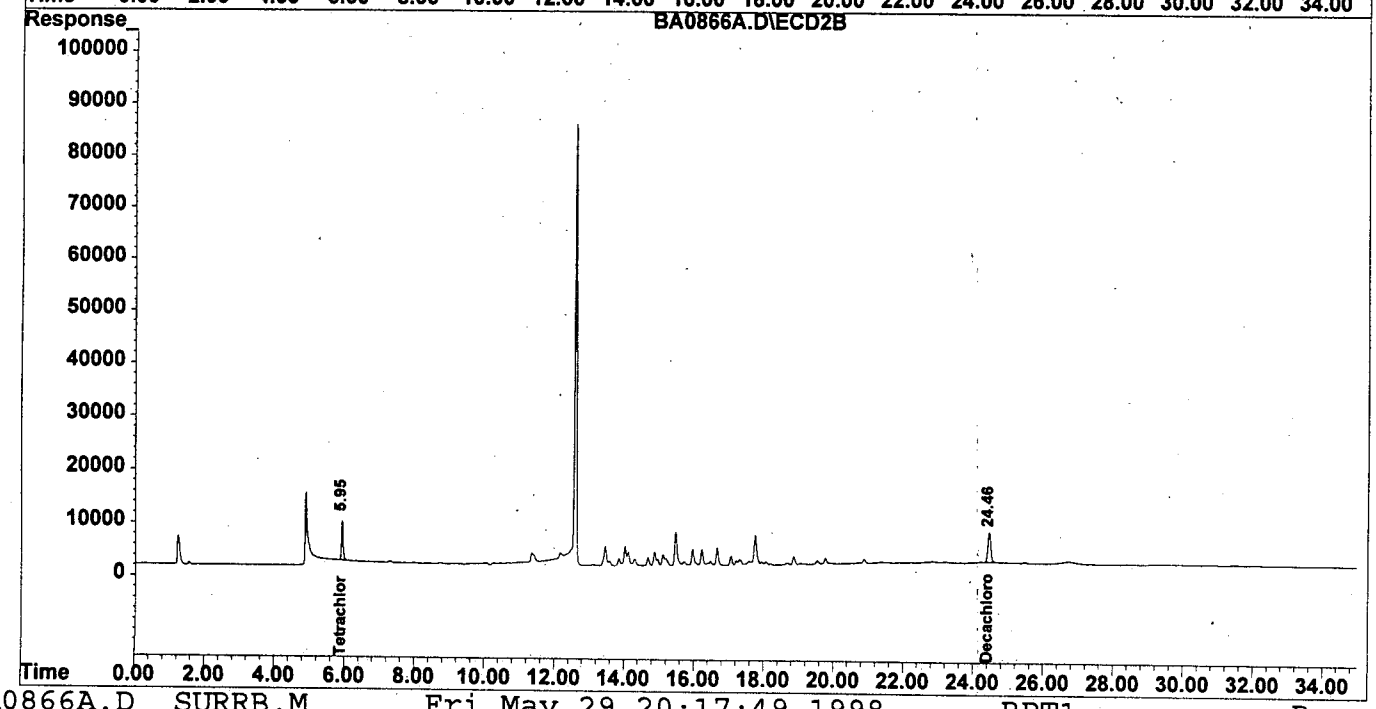
AMENDED REPORT MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0866A.D\ECD1A.CH Vial: 15
Signal #2 : E:\WESTDA~1\BA0866A.D\ECD2B.CH
Acq On : 11 Dec 97 20:14 Operator:
Sample : 278224 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 28 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278225
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOONS1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/11/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	16.32%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	40	20
Aroclor-1221	U	U	80	56
Aroclor-1232	U	U	40	32
Aroclor-1242	U	U	40	20
Aroclor-1248	U	U	40	24
Aroclor-1254	~~1300~~ 1600 J	U	40	28
Aroclor-1260	U	U	40	32

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

J AR1254 ; pk conc 25000

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0867.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_B\BA0867.D\ECD2B.CH
Acq On : 11 Dec 97 20:53 Operator:
Sample : 278225 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:59 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	5.95	381999	265635	42.168	41.012
Spiked Amount 40.000 Range 43 - 150 Recovery =					105.42%	102.53%
2) SA Decachlorobiphen	29.15	24.46	552626	369507	36.722	41.434
Spiked Amount 40.000 Range 24 - 154 Recovery =					91.81%	103.59%
Target Compounds						
3) L1 Aroclor-1016{1}	9.14	8.85	80087	33225	376.237	114.170 #
4) L1 Aroclor-1016{2}	10.65	10.26	63008	80826	133.639	142.781
5) L1 Aroclor-1016{3}	11.96	10.66	153688	246050	186.846	918.298 #
6) L1 Aroclor-1016{4}	0.00	12.18	0	436473	N.D.	1701.388 #
7) L1 Aroclor-1016{5}	13.24	14.02	1016074	767285	3111.732	5202.645 #
Sum Aroclor-1016			1312856	1563860	3808.454	8079.281
Average Aroclor-1016					952.114	1615.856
8) L2 Aroclor-1221{1}	6.02	0.00	9605	0	109.148	N.D. #
9) L2 Aroclor-1221{2}	8.88	0.00	21392	0	217.793	N.D. #
10) L2 Aroclor-1221{3}	9.14	0.00	80087	0	264.571	N.D. #
Sum Aroclor-1221			111083	0	591.513	N.D.
Average Aroclor-1221					197.171	0.000
11) L3 Aroclor-1232{1}	8.88	8.85	21392	33225	373.706	229.585 #
12) L3 Aroclor-1232{2}	9.14	10.02	80087	215610	391.881	5161.158 #
13) L3 Aroclor-1232{3}	10.65	11.41	63008	1160873	290.297	13935.883 #
14) L3 Aroclor-1232{4}	11.96	13.10	153688	66070	437.815	1167.829 #
Sum Aroclor-1232			318174	1475778	1493.700	20494.456
Average Aroclor-1232					373.425	5123.614
15) L4 Aroclor-1242{1}	9.14	8.85	80087	33225	436.879	132.963 #
16) L4 Aroclor-1242{2}	10.65	10.02	63008	215610	171.833	2809.140 #
17) L4 Aroclor-1242{3}	11.34	0.00	18624	0	167.989	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.18	0	436473	N.D.	1886.137 #
19) L4 Aroclor-1242{5}	14.12	14.30	481056	487024	1323.802	5449.204 #
Sum Aroclor-1242			642775	1172332	2100.503	10277.445
Average Aroclor-1242					525.126	2569.361

579

JRS 12/31/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0867.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_B\BA0867.D\ECD2B.CH
Acq On : 11 Dec 97 20:53 Operator:
Sample : 278225 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:59 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
20)	L5 Aroclor-1248{1}	10.53	10.26	18866	80826	97.251	194.056 #
21)	L5 Aroclor-1248{2}	0.00	12.18	0	436473	N.D.	1287.985 #
22)	L5 Aroclor-1248{3}	13.12	12.48	540861	222684	1308.582	703.493 #
23)	L5 Aroclor-1248{4}	14.12	13.46	481056	1092668	969.215	4060.771 #
24)	L5 Aroclor-1248{5}	0.00	15.47	0	1808366	N.D.	14357.558 #
	Sum Aroclor-1248			1040784	3641017	2375.048	20603.863
	Average Aroclor-1248					791.683	4120.773
25)	L6 Aroclor-1254{1}	14.12	11.36	481056	292986	3544.117	1328.930m#
26)	L6 Aroclor-1254{2}	15.49	13.46	1585260	1092668	4299.825	2609.205 #
27)	L6 Aroclor-1254{3}	15.82	14.87	1198600	689727	2600.879	4613.904 #
28)	L6 Aroclor-1254{4}	18.45	15.47	1410021	1808366	3479.020	3721.456
29)	L6 Aroclor-1254{5}	19.77	17.76	2670275	1736924	3094.162	3822.138
	Sum Aroclor-1254			7345213	5620671	17018.002	16095.633
	Average Aroclor-1254					3403.600	3219.127
30)	L7 Aroclor-1260{1}	17.96	15.97	2385105	800905	4582.846	2349.894 #
31)	L7 Aroclor-1260{2}	18.45	16.67	1410021	737176	2290.677	1813.269
32)	L7 Aroclor-1260{3}	19.99	17.76	213573	1736924	468.067	3367.819 #
33)	L7 Aroclor-1260{4}	21.06	19.77	674427	298069	1447.447	476.035 #
34)	L7 Aroclor-1260{5}	21.64	20.88	557193	252394	432.226	534.346
	Sum Aroclor-1260			5240318	3825469	9221.263	8541.362
	Average Aroclor-1260					1844.253	1708.272

580

12/13/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0867.D\ECD1A.CH Vial: 16
Signal #2 : E:\WESTDA~1\BA0867.D\ECD2B.CH
Acq On : 11 Dec 97 20:53 Operator:
Sample : 278225 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:27 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.20	5.95	376445	256280	20.089	20.035	
Spiked Amount 40.000 Range 43 - 150 Recovery =					50.22%	50.09%	
2) SA Decachlorobiphen	29.15	24.46	552626	358770	25.059	38.623	#
Spiked Amount 40.000 Range 24 - 154 Recovery =					62.65%	96.56%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.12	11.41	458630	1156489	3380.024m	5205.103	#
4) L6 Aroclor-1254{2}	15.49	13.46	1557127	1083484	4059.440	2585.214	#
5) L6 Aroclor-1254{3}	15.82	14.87	1177773	680205	2237.566	4536.792	#
6) L6 Aroclor-1254{4}	18.45	15.47	1390771	1796750	3243.554	3612.721	
7) L6 Aroclor-1254{5}	19.77	17.76	2653808	1726293	3055.855	3602.677	
Sum Aroclor-1254			7238109	6443221	15976.439	19542.507	
Average Aroclor-1254					3195.288	3908.501	

580A 5/26/98

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

AMENDED REPORT MAY 3 0 1998
(QT Reviewed)

ICM Laboratories Quantitation Report

Signal #1 : E:\WESTDA~1\BA0867A.D\ECD1A.CH Vial: 16
Signal #2 : E:\WESTDA~1\BA0867A.D\ECD2B.CH
Acq On : 11 Dec 97 20:53 Operator:
Sample : 278225 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.20	5.95	376445	256280	40.466	42.411
Spiked Amount 40.000 Range 43 - 150 Recovery =					101.17%	106.03%
2) SA Decachlorobiphen	29.15	24.46	552626	358770	36.593	43.186
Spiked Amount 40.000 Range 24 - 154 Recovery =					91.48%	107.97%

Target Compounds

5 8 0B

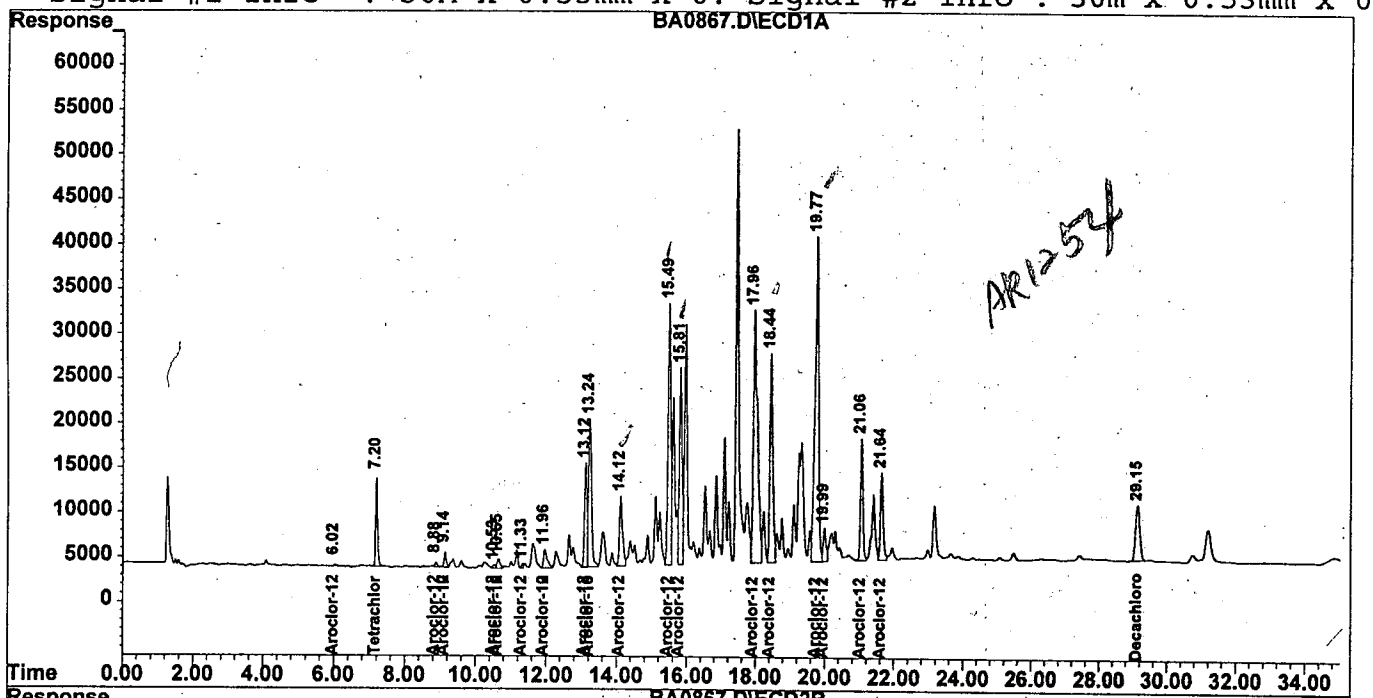
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

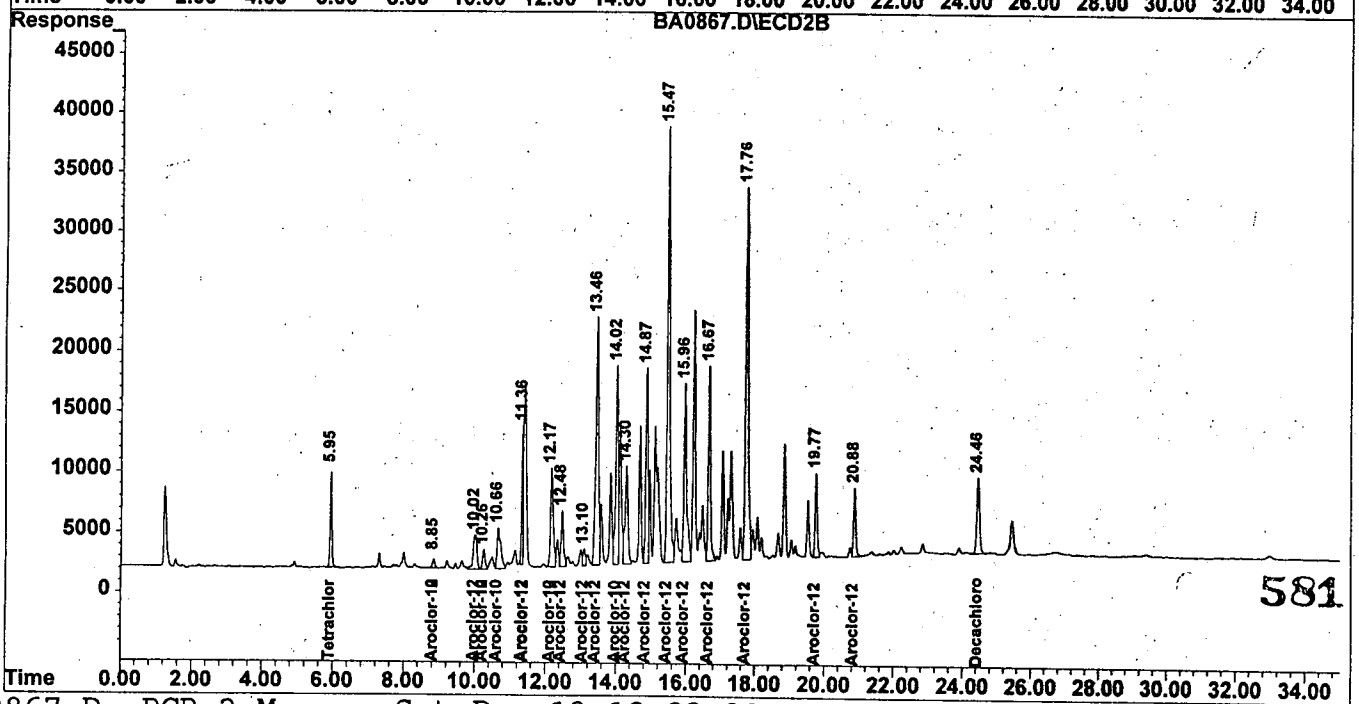
Signal #1 : C:\HPCHEM\1\DATA_B\BA0867.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_B\BA0867.D\ECD2B.CH
Acq On : 11 Dec 97 20:53 Operator:
Sample : 278225 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 11:59 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1254



581

Quantitation Report

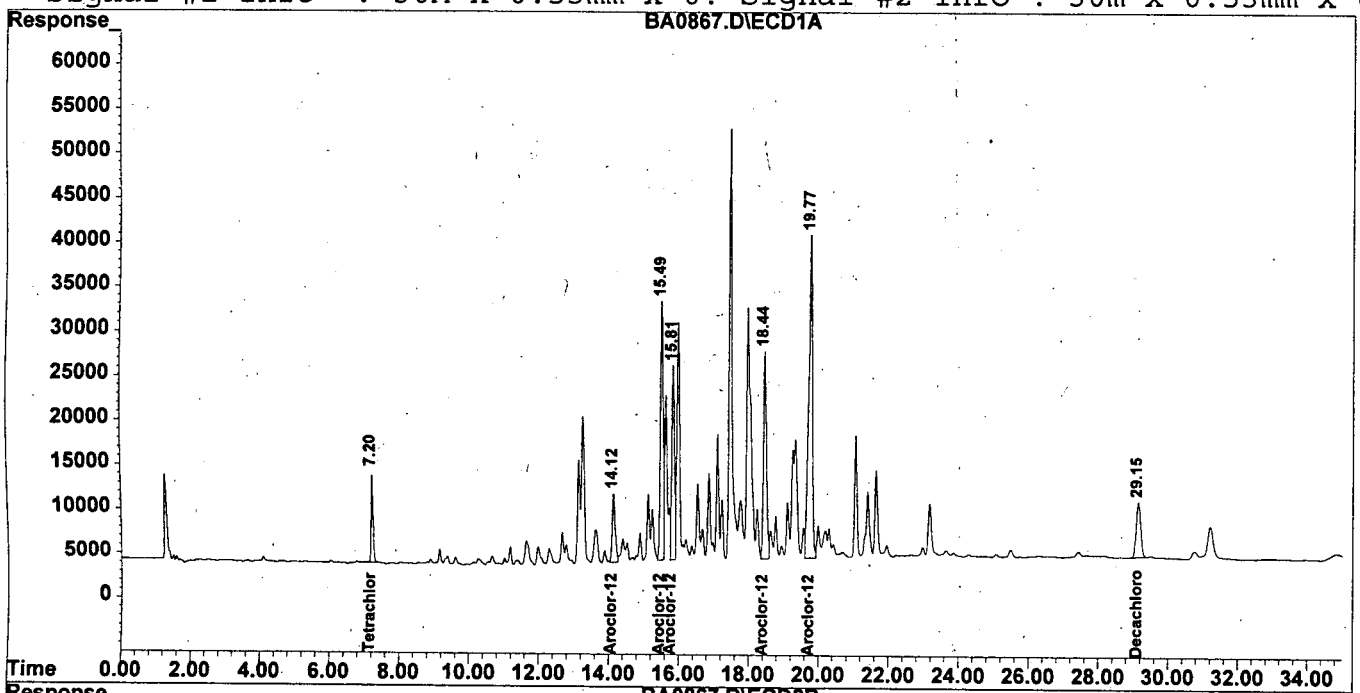
AMENDED REPORT MAY 2 8 1998

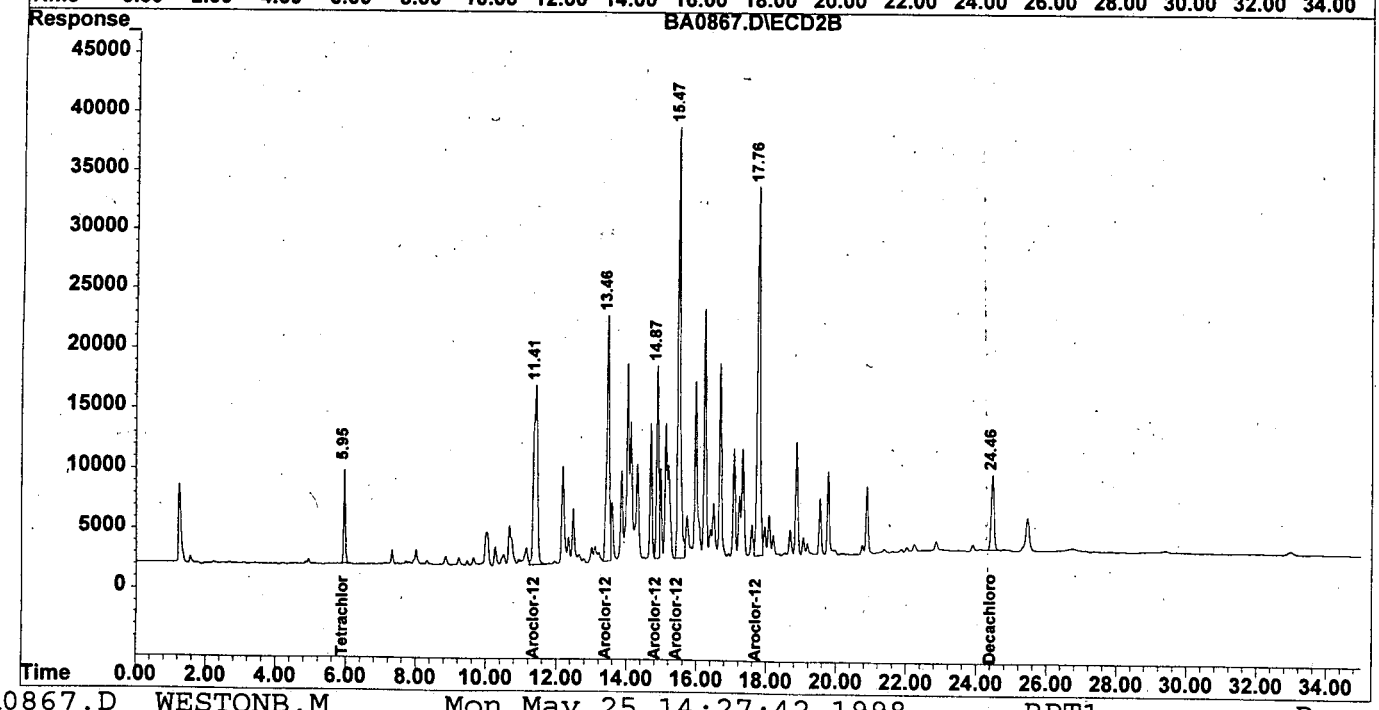
Signal #1 : E:\WESTDA~1\BA0867.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0867.D\ECD2B.CH
Acq On : 11 Dec 97 20:53
Sample : 278225
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:27 1998 Quant Results File: WESTONB.RES

Vial: 16
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





581A

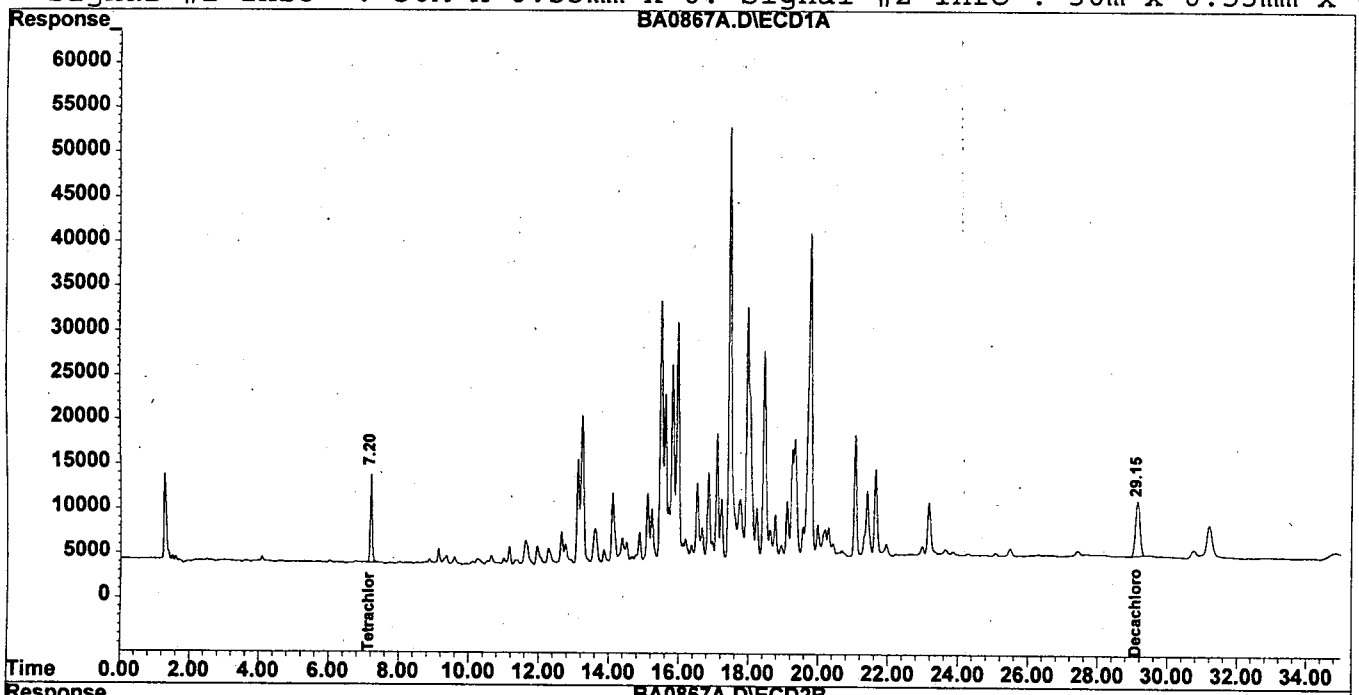
Quantitation Report

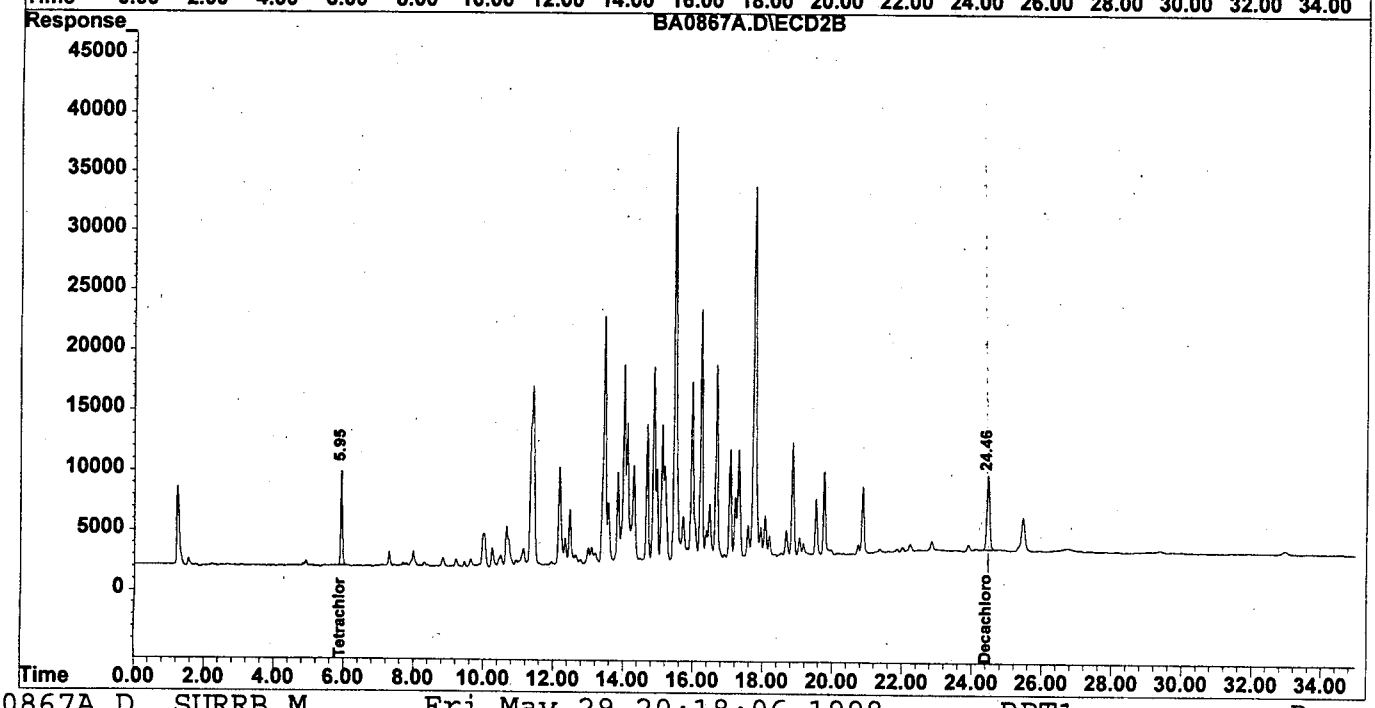
AMENDED REPORT MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0867A.D\ECD1A.CH Vial: 16
Signal #2 : E:\WESTDA~1\BA0867A.D\ECD2B.CH
Acq On : 11 Dec 97 20:53 Operator:
Sample : 278225 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 2 8 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278226
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOONS2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	31.36%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	240	120
Aroclor-1221	U	U	480	340
Aroclor-1232	U	U	240	190
Aroclor-1242	U	U	240	120
Aroclor-1248	U	U	240	140
Aroclor-1254	3200	U	240	170
Aroclor-1260	U	U	240	190

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0894.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_B\BA0894.D\ECD2B.CH
Acq On : 13 Dec 97 19:59 Operator:
Sample : 278226 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:44 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	91154	62303	10.062m	9.619
Spiked Amount 40.000 Range 43 - 150 Recovery =					25.16%#	24.05%#
2) SA Decachlorobiphen	29.10	24.44	143451	91531	9.532	10.264
Spiked Amount 40.000 Range 24 - 154 Recovery =					23.83%#	25.66%
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	8.84	0	16119	N.D.	55.388 #
4) L1 Aroclor-1016{2}	10.58	10.25	32077	39616	68.036	69.982
5) L1 Aroclor-1016{3}	11.92	10.65	77923	102436	94.735	382.306 #
6) L1 Aroclor-1016{4}	0.00	12.16	0	215636	N.D.	840.558 #
7) L1 Aroclor-1016{5}	13.18	14.01	464220	341312	1421.676	2314.294 #
Sum Aroclor-1016			574220	715118	1584.447	3662.527
Average Aroclor-1016					528.149	732.505
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
11) L3 Aroclor-1232{1}	0.00	8.84	0	16119	N.D.	111.380 #
12) L3 Aroclor-1232{2}	0.00	9.99	0	86708	N.D.	2075.574 #
13) L3 Aroclor-1232{3}	10.58	11.40	32077	525776	147.791	6311.764 #
14) L3 Aroclor-1232{4}	11.92	13.09	77923	26942	221.981	476.226 #
Sum Aroclor-1232			110000	655546	369.772	8974.944
Average Aroclor-1232					184.886	2243.736
15) L4 Aroclor-1242{1}	0.00	8.84	0	16119	N.D.	64.505 #
16) L4 Aroclor-1242{2}	10.58	9.99	32077	86708	87.480	1129.703 #
17) L4 Aroclor-1242{3}	11.27	0.00	17723	0	159.859	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.16	0	215636	N.D.	931.832 #
19) L4 Aroclor-1242{5}	14.07	14.29	217094	210671	597.413	2357.152 #
Sum Aroclor-1242			266894	529134	844.752	4483.192
Average Aroclor-1242					281.584	1120.798
20) L5 Aroclor-1248{1}	10.58	10.25	32077	39616	165.351	95.113 #
21) L5 Aroclor-1248{2}	11.92	12.16	77923	215636	139.279	636.319 #
22) L5 Aroclor-1248{3}	13.18	12.47	464220	103521	1123.153	327.038 #

12/14/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0894.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_B\BA0894.D\ECD2B.CH
Acq On : 13 Dec 97 19:59 Operator:
Sample : 278226 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:44 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
23)	L5 Aroclor-1248{4}	14.07	13.45	217094	462564	437.392	1719.063	#
24)	L5 Aroclor-1248{5}	16.15	15.46	58221	738264	154.426	5861.460	#
	Sum Aroclor-1248			849534	1559600	2019.602	8638.995	
	Average Aroclor-1248					403.920	1727.799	
25)	L6 Aroclor-1254{1}	14.07	11.36	217094	149550	1599.408	678.331	m#
26)	L6 Aroclor-1254{2}	15.45	13.45	601548	462564	1631.627	1104.566	#
27)	L6 Aroclor-1254{3}	15.77	14.86	511920	273840	1110.830	1831.842	#
28)	L6 Aroclor-1254{4}	18.41	15.46	557898	738264	1376.532	1519.281	
29)	L6 Aroclor-1254{5}	19.73	17.75	1042478	710885	1207.963	1564.318	#
	Sum Aroclor-1254			2930938	2335103	6926.360	6698.338	
	Average Aroclor-1254					1385.272	1339.668	
30)	L7 Aroclor-1260{1}	0.00	15.95	0	351779	N.D.	1032.136	#
31)	L7 Aroclor-1260{2}	18.41	16.66	557898	328789	906.344	808.738	
32)	L7 Aroclor-1260{3}	19.96	17.75	74492	710885	163.257	1378.376	#
33)	L7 Aroclor-1260{4}	21.03	19.76	255426	144007	548.192	229.988	#
34)	L7 Aroclor-1260{5}	21.61	20.86	200941	100567	155.874	212.912	#
	Sum Aroclor-1260			1088756	1636027	1773.667	3662.149	
	Average Aroclor-1260					443.417	732.430	

584

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0894.D\ECD1A.CH Vial: 5
Signal #2 : E:\WESTDA~1\BA0894.D\ECD2B.CH
Acq On : 13 Dec 97 19:59 Operator:
Sample : 278226 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:37 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	91039	61996	4.858	4.847
Spiked Amount 40.000 Range 43 - 150 Recovery =					12.15%#	12.12%#
2) SA Decachlorobiphen	29.10	24.44	143451	91715	6.505	9.873 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					16.26%#	24.68%
Target Compounds						
3) L6 Aroclor-1254{1}	14.07	11.36	230400	160844	1698.008m	723.923m#
4) L6 Aroclor-1254{2}	15.45	13.45	595910	460853	1553.542	1099.605 #
5) L6 Aroclor-1254{3}	15.77	14.86	508329	267639	965.737	1785.086 #
6) L6 Aroclor-1254{4}	18.41	15.46	557833	730028	1300.976	1467.865
7) L6 Aroclor-1254{5}	19.73	17.75	1042445	684524	1200.374	1428.563
Sum Aroclor-1254			2934917	2303888	6718.637	6505.042
Average Aroclor-1254					1343.727	1301.008

5 8 4A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report

AMENDED REPORT (QT Reviewed) MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0894A.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0894A.D\ECD2B.CH
Acq On : 13 Dec 97 19:59
Sample : 278226 1:5
Misc : QPC7395

Vial: 5
Operator:
Inst : GC_5890_2
Multiplr: 1.00

IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:32 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13f	5.94	94807	61996	10.191m	10.260
Spiked Amount 40.000 Range 43 - 150 Recovery =					25.48%#	25.65%#
2) SA Decachlorobiphen	29.10	24.44	143451	91715	9.499	11.040
Spiked Amount 40.000 Range 24 - 154 Recovery =					23.75%#	27.60%

Target Compounds

5 8 4B

7-5-98

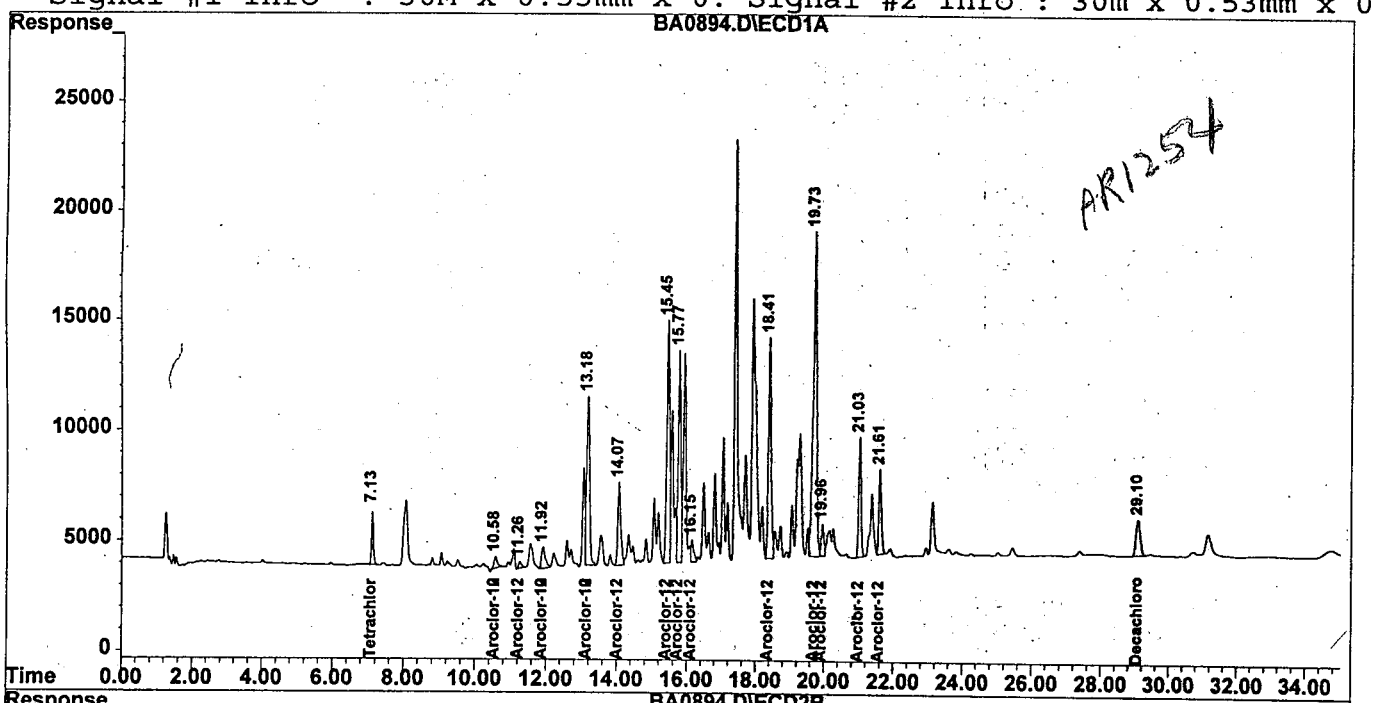
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

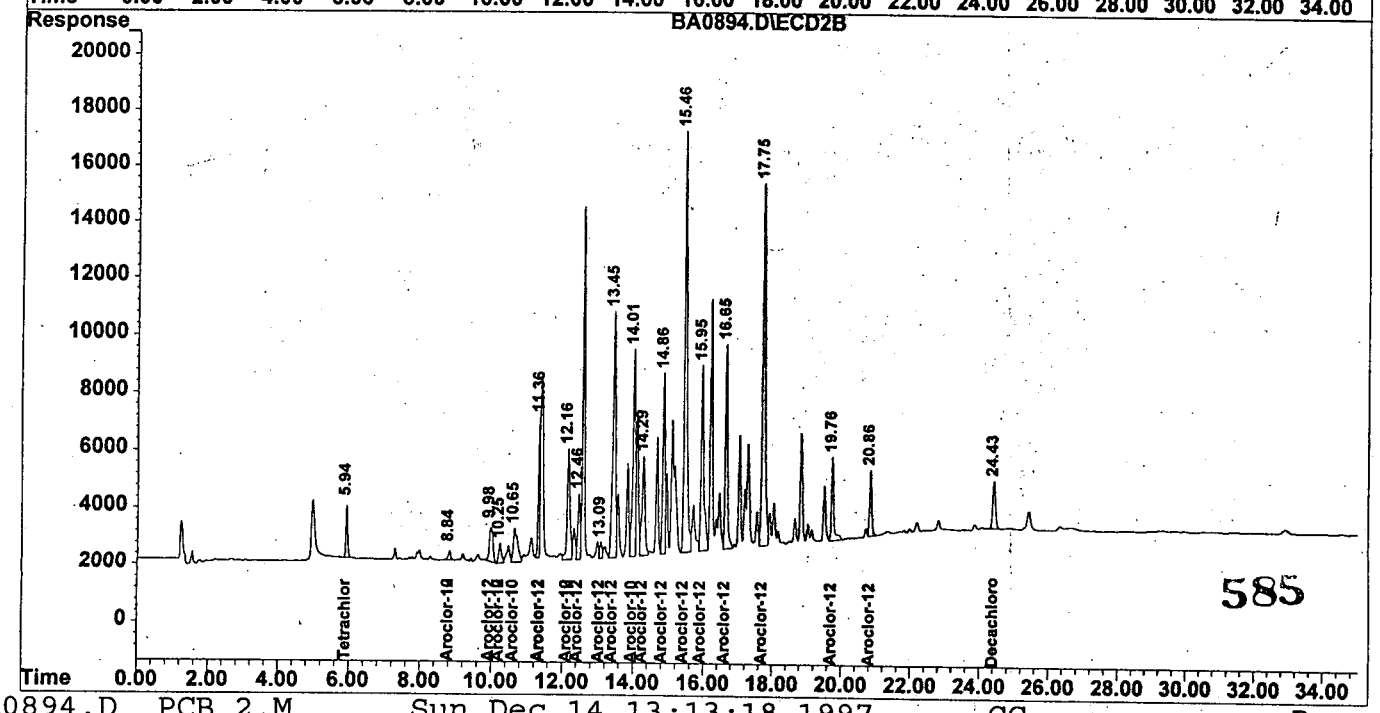
Signal #1 : C:\HPCHEM\1\DATA_B\BA0894.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_B\BA0894.D\ECD2B.CH
Acq On : 13 Dec 97 19:59 Operator:
Sample : 278226 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:44 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1254



585

Quantitation Report

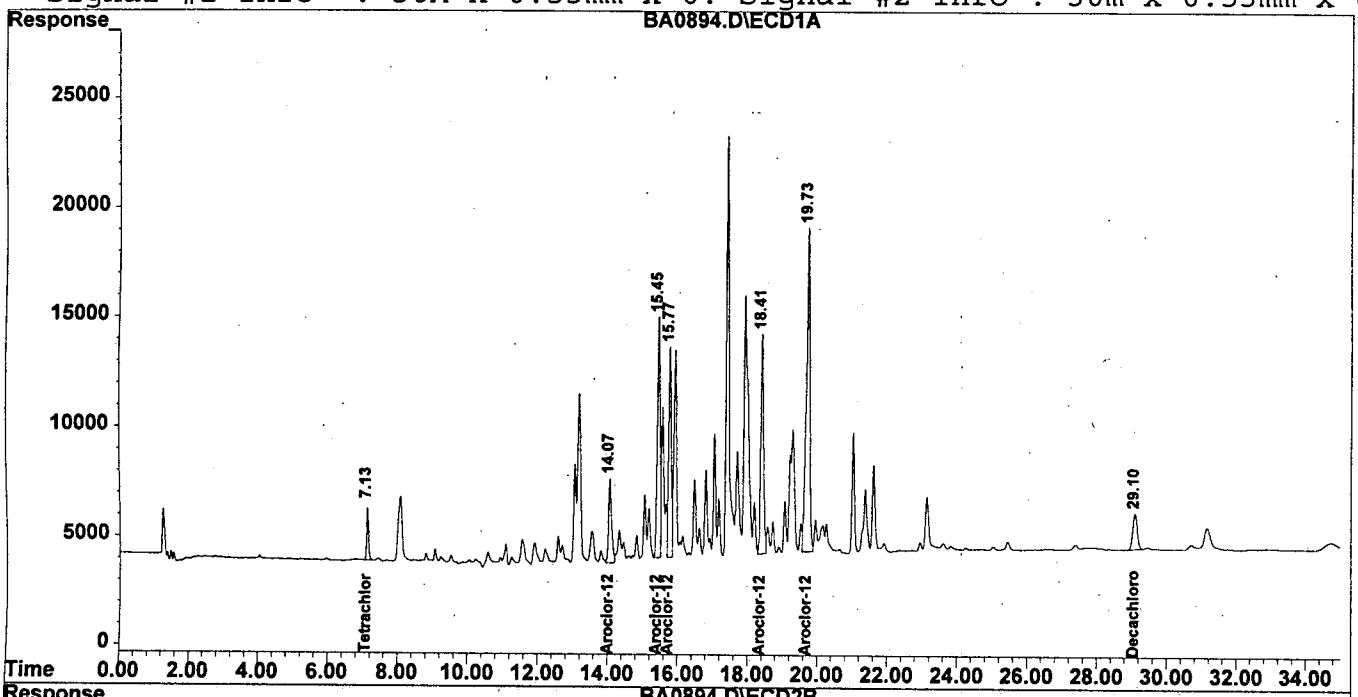
AMENDED REPORT MAY 2 8 1998

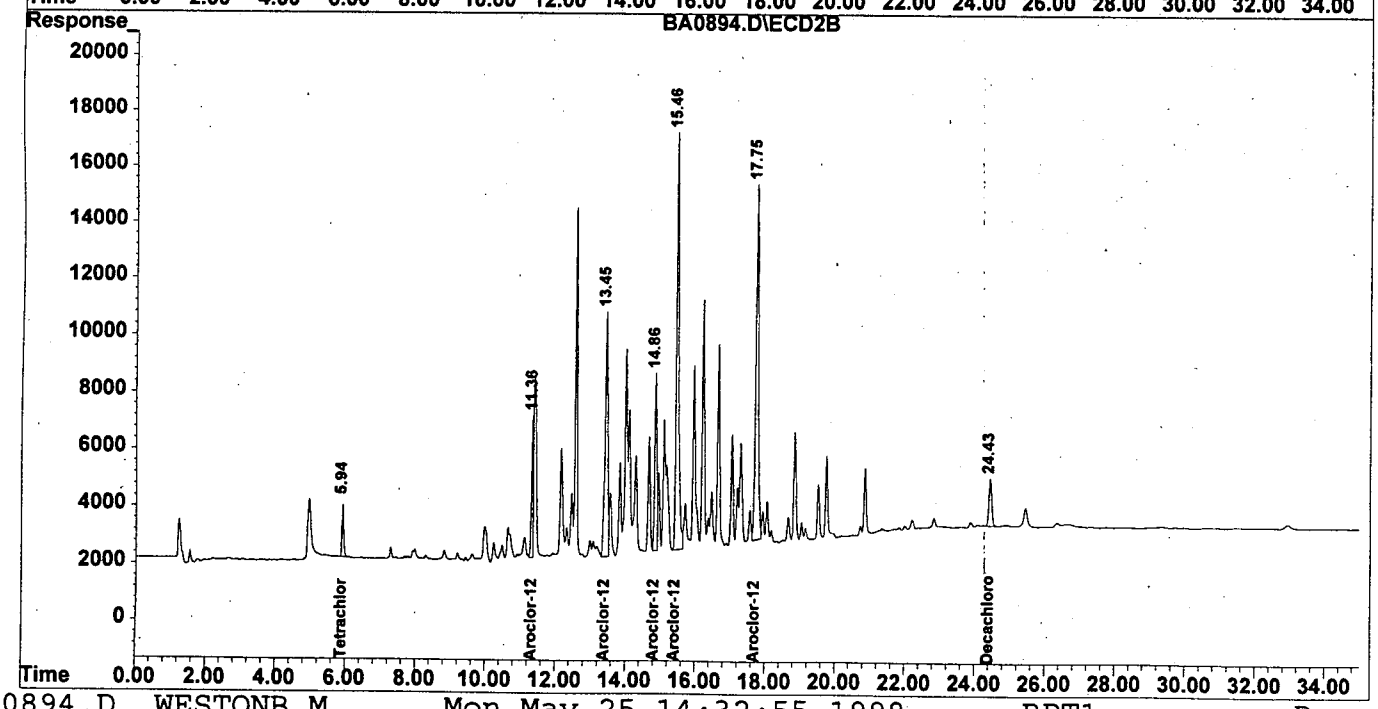
Signal #1 : E:\WESTDA~1\BA0894.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0894.D\ECD2B.CH
Acq On : 13 Dec 97 19:59
Sample : 278226 1:5
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:37 1998 Quant Results File: WESTONB.RES

Vial: 5
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





585A

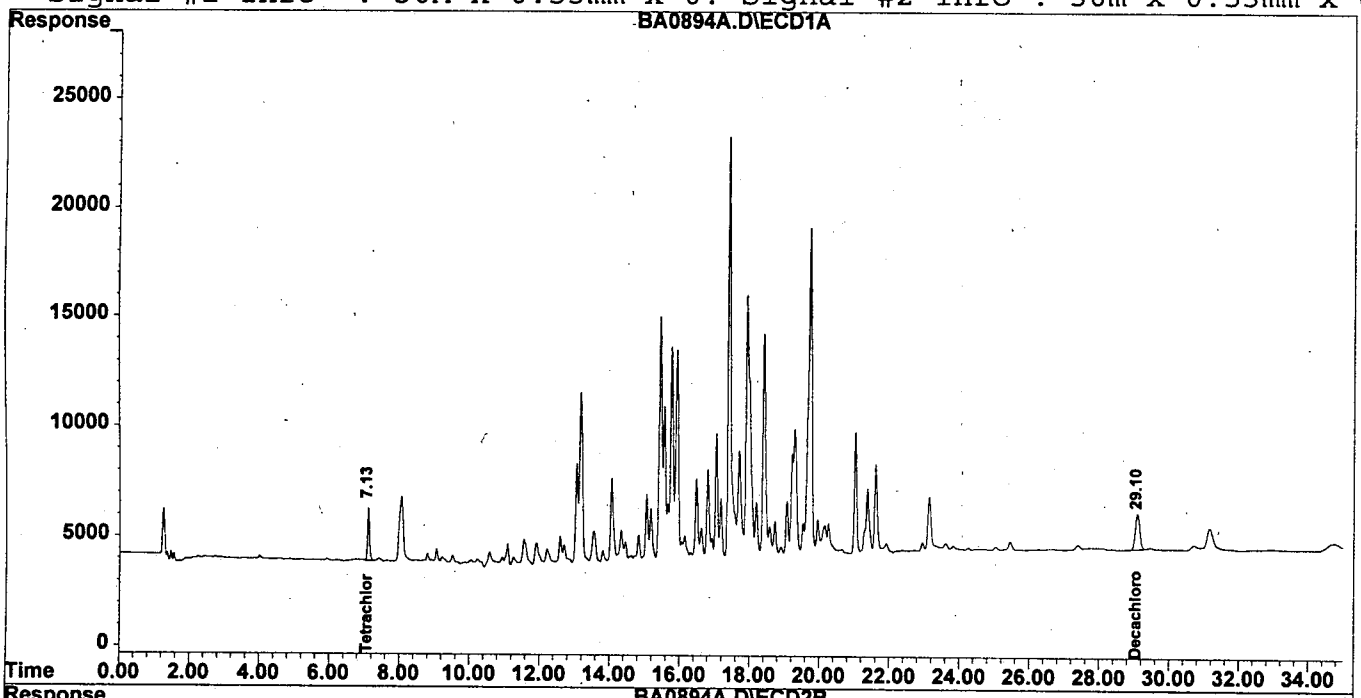
Quantitation Report

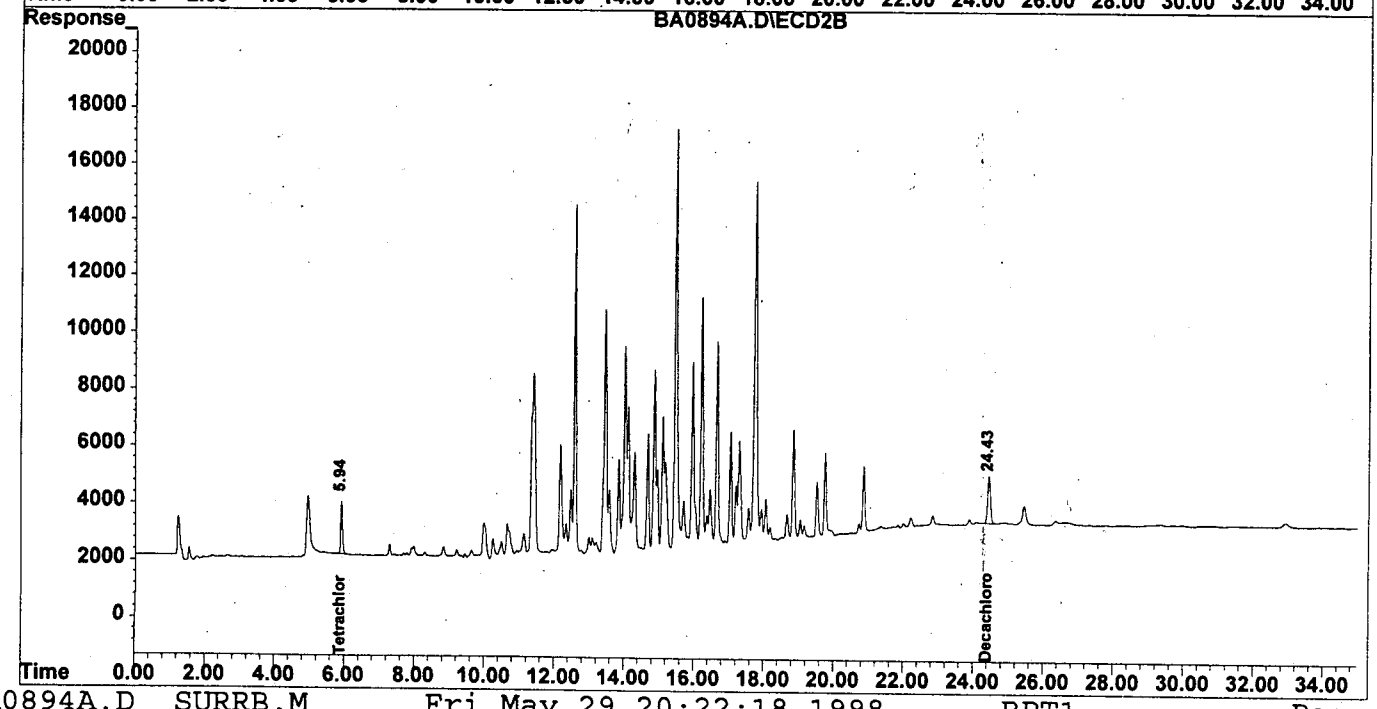
AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0894A.D\ECD1A.CH Vial: 5
Signal #2 : E:\WESTDA~1\BA0894A.D\ECD2B.CH
Acq On : 13 Dec 97 19:59 Operator:
Sample : 278226 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:32 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 2 8 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278227
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOOND1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	37.62%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	270	130
Aroclor-1221	U	U	530	370
Aroclor-1232	U	U	270	210
Aroclor-1242	U	U	270	130
Aroclor-1248	U	U	270	160
Aroclor-1254	~~3300~~ 3500	U	270	190
Aroclor-1260	U	U	270	210

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0895.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_B\BA0895.D\ECD2B.CH
Acq On : 13 Dec 97 20:38 Operator:
Sample : 278227 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:45 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.13	5.94	77794	51725	8.587m	7.986	
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.47%#	19.97%#	
) SA Decachlorobiphen	29.10	24.44	119346	76117	7.931	8.535	
Spiked Amount 40.000 Range 24 - 154 Recovery =					19.83%#	21.34%#	
Target Compounds							
) L1 Aroclor-1016{1}	0.00	8.84	0	6453	N.D.	22.173	#
4) L1 Aroclor-1016{2}	10.59	10.25	10532	31290	22.339	55.275	#
5) L1 Aroclor-1016{3}	11.89	10.75	19640	8291	23.877	30.944	#
) L1 Aroclor-1016{4}	0.00	12.16	0	57730	N.D.	225.034	#
7) L1 Aroclor-1016{5}	13.18	14.01	68132	234492	208.656	1589.995	#
Sum Aroclor-1016			98305	338256	254.872	1923.420	
Average Aroclor-1016					84.957	384.684	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
11) L3 Aroclor-1232{1}	0.00	8.84	0	6453	N.D.	44.588	#
12) L3 Aroclor-1232{2}	0.00	9.99	0	27192	N.D.	650.903	#
) L3 Aroclor-1232{3}	10.59	11.39	10532	58352	48.526	700.490	#
14) L3 Aroclor-1232{4}	11.89	13.10	19640	49643	55.949	877.481	#
Sum Aroclor-1232			30172	141639	104.475	2273.462	
Average Aroclor-1232					52.238	568.365	
15) L4 Aroclor-1242{1}	0.00	8.84	0	6453	N.D.	25.823	#
) L4 Aroclor-1242{2}	10.59	9.99	10532	27192	28.724	354.277	#
) L4 Aroclor-1242{3}	11.27	0.00	18553	0	167.344	N.D.	#
18) L4 Aroclor-1242{4}	0.00	12.16	0	57730	N.D.	249.470	#
19) L4 Aroclor-1242{5}	14.07	14.29	46537	82529	128.063	923.395	#
Sum Aroclor-1242			75622	173903	324.130	1552.964	
Average Aroclor-1242					108.043	388.241	
) L5 Aroclor-1248{1}	10.59	10.25	10532	31290	54.292	75.125	#
) L5 Aroclor-1248{2}	11.89	12.16	19640	57730	35.105	170.355	#
22) L5 Aroclor-1248{3}	13.18	12.46	68132	33821	164.842	106.847	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0895.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_B\BA0895.D\ECD2B.CH
Acq On : 13 Dec 97 20:38 Operator:
Sample : 278227 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:45 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
23) L5 Aroclor-1248{4}	14.07	13.45	46537	276888	93.761	1029.020	#
24) L5 Aroclor-1248{5}	16.15	15.46	38416	745459	101.895	5918.591	#
Sum Aroclor-1248			183258	1145189	449.895	7299.938	
Average Aroclor-1248					89.979	1459.988	
					NP	NP	
25) L6 Aroclor-1254{1}	14.07	11.35	46537	49407	342.853	224.101	#
26) L6 Aroclor-1254{2}	15.43	13.45	631864	276888	1713.854	661.186	#
27) L6 Aroclor-1254{3}	15.77	14.86	339417	346239	736.510	2316.150	#
28) L6 Aroclor-1254{4}	18.41	15.46	820356	745459	2024.110	1534.089	
29) L6 Aroclor-1254{5}	19.73	17.75	1496070	916837	1733.560	2017.518	
Sum Aroclor-1254			3334244	2334830	6550.888	6753.044	
Average Aroclor-1254					1310.178	1350.609	
30) L7 Aroclor-1260{1}	18.00	15.95	542640	384696	1042.651	1128.716	
31) L7 Aroclor-1260{2}	18.41	16.65	820356	438384	1332.726	1078.314	
32) L7 Aroclor-1260{3}	19.96	17.75	139788	916837	306.360	1777.706	#
33) L7 Aroclor-1260{4}	21.03	19.76	378966	191736	813.333	306.214	#
34) L7 Aroclor-1260{5}	21.61	20.86	344254	146367	267.045	309.875	
Sum Aroclor-1260			2226004	2078020	3762.115	4600.826	
Average Aroclor-1260					752.423	920.165	
					NP	NP	

588

PB 12/19/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0895.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\BA0895.D\ECD2B.CH
Acq On : 13 Dec 97 20:38 Operator:
Sample : 278227 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:38 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	73350	51460	3.914	4.023
Spiked Amount 40.000 Range 43 - 150 Recovery =					9.79%#	10.06%#
2) SA Decachlorobiphen	29.10	24.44	118739	75951	5.384	8.176 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					13.46%#	20.44%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.07	11.35	44252	47731	326.130m	214.827 #
4) L6 Aroclor-1254{2}	15.43	13.45	631864	276130	1647.273	658.850 #
5) L6 Aroclor-1254{3}	15.77	14.86	339417	344845	644.833	2300.029 #
6) L6 Aroclor-1254{4}	18.41	15.46	820356	740768	1913.234	1489.461
7) L6 Aroclor-1254{5}	19.73	17.75	1496070	898000	1722.722	1874.076
Sum Aroclor-1254			3331959	2307474	6254.192	6537.242
Average Aroclor-1254					1250.838	1307.448

5 8 8A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0895A.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\BA0895A.D\ECD2B.CH
Acq On : 13 Dec 97 20:38 Operator:
Sample : 278227 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:32 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13f	5.94	73339	51460	7.884m	8.516
Spiked Amount 40.000 Range 43 - 150 Recovery =					19.71%#	21.29%#
2) SA Decachlorobiphen	29.10	24.44	118739	75951	7.862	9.142
Spiked Amount 40.000 Range 24 - 154 Recovery =					19.66%#	22.86%#

Target Compounds

5 8 8B

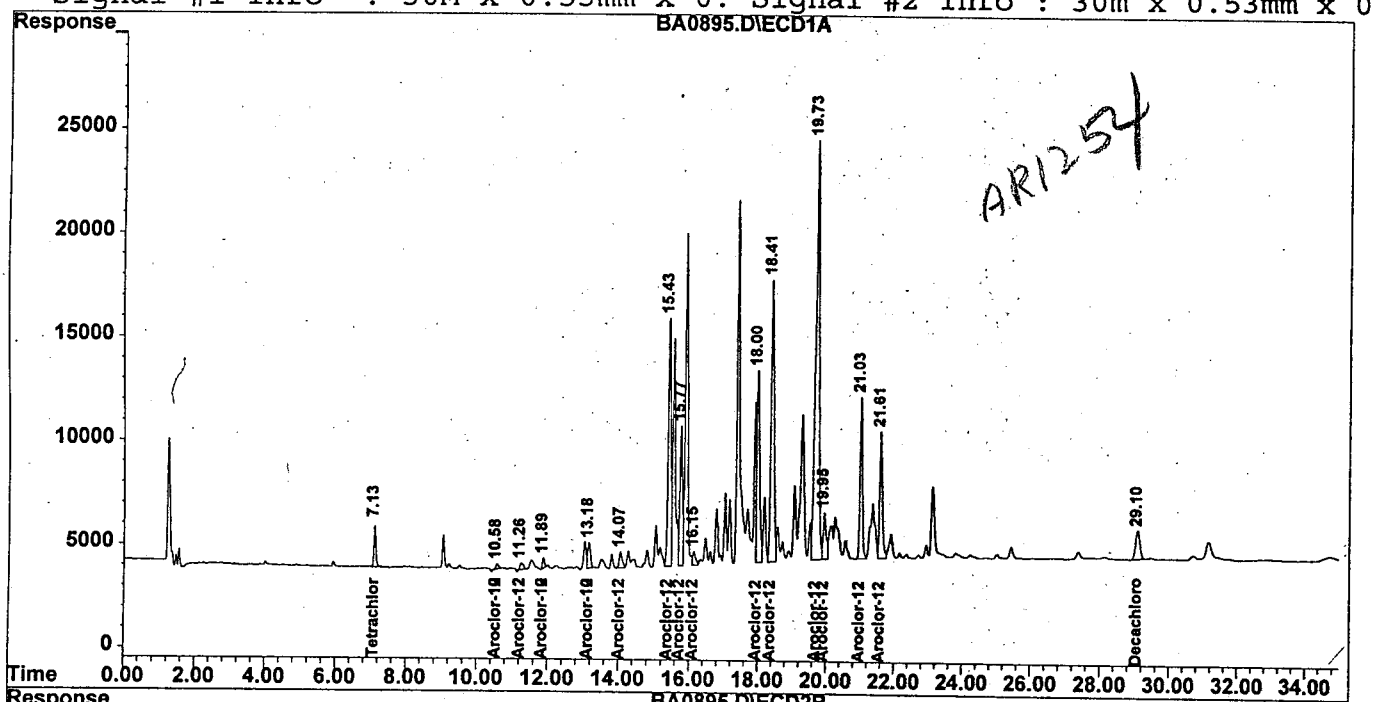
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

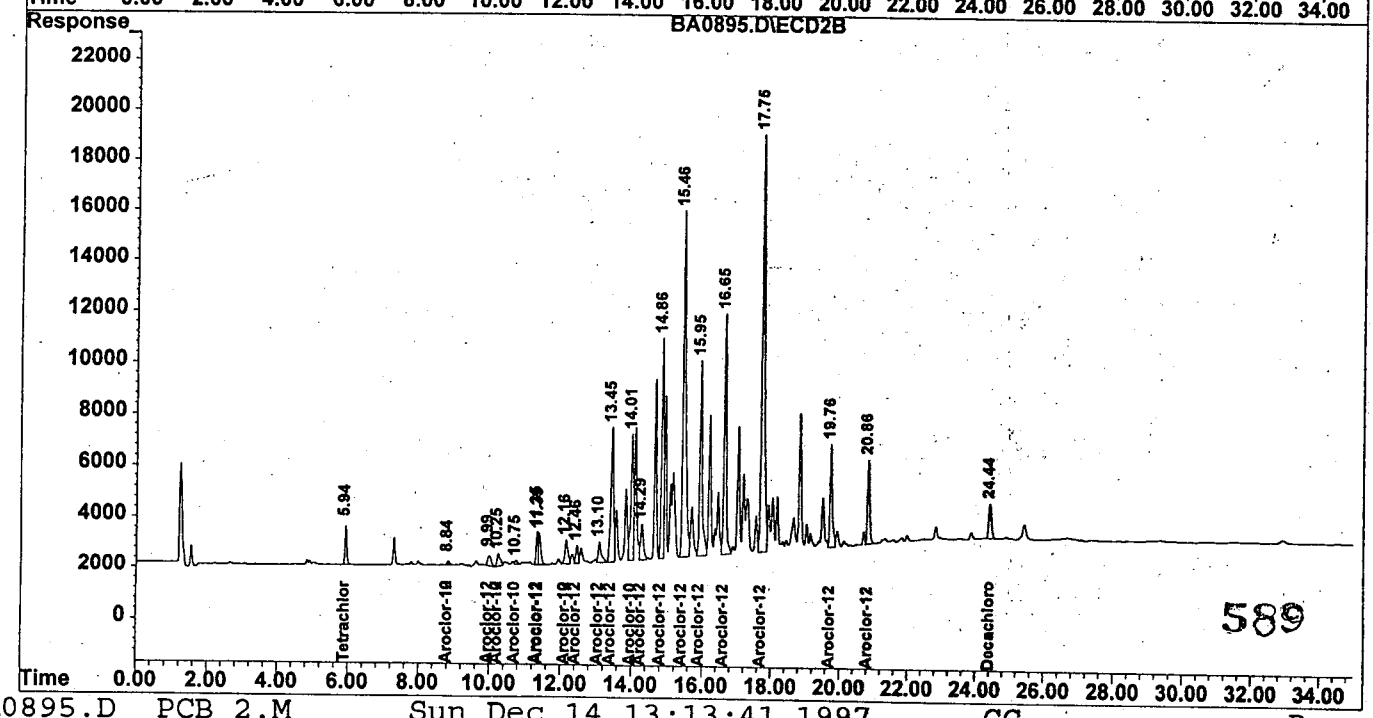
Signal #1 : C:\HPCHEM\1\DATA_B\BA0895.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_B\BA0895.D\ECD2B.CH
Acq On : 13 Dec 97 20:38 Operator:
Sample : 278227 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:45 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1254



589

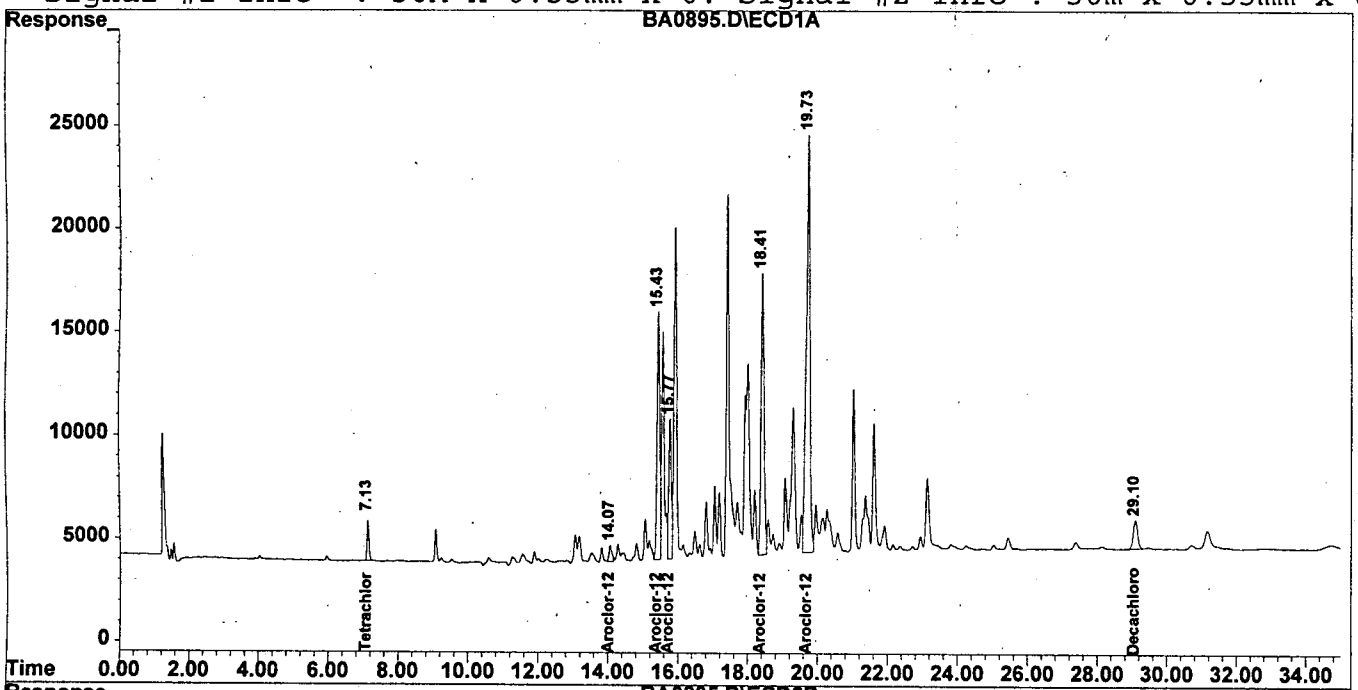
Quantitation Report

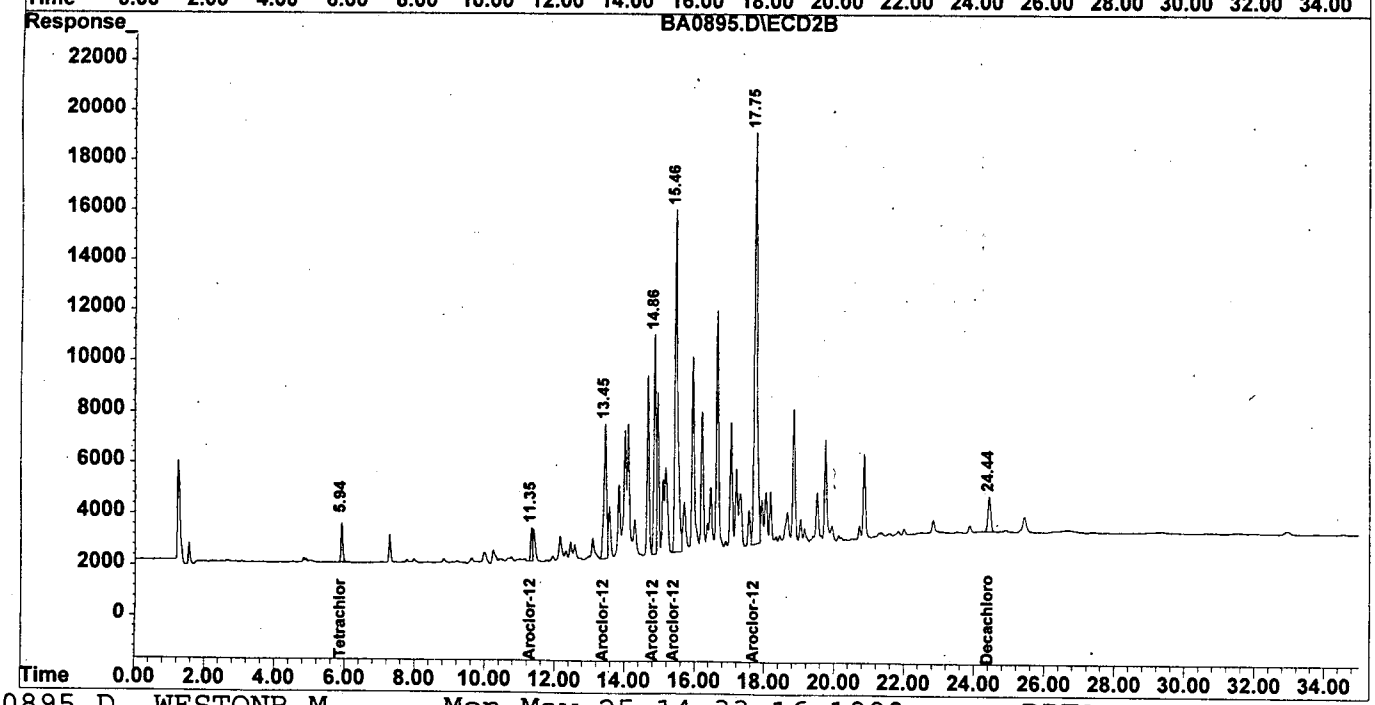
AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0895.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\BA0895.D\ECD2B.CH
Acq On : 13 Dec 97 20:38 Operator:
Sample : 278227 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:38 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





589A

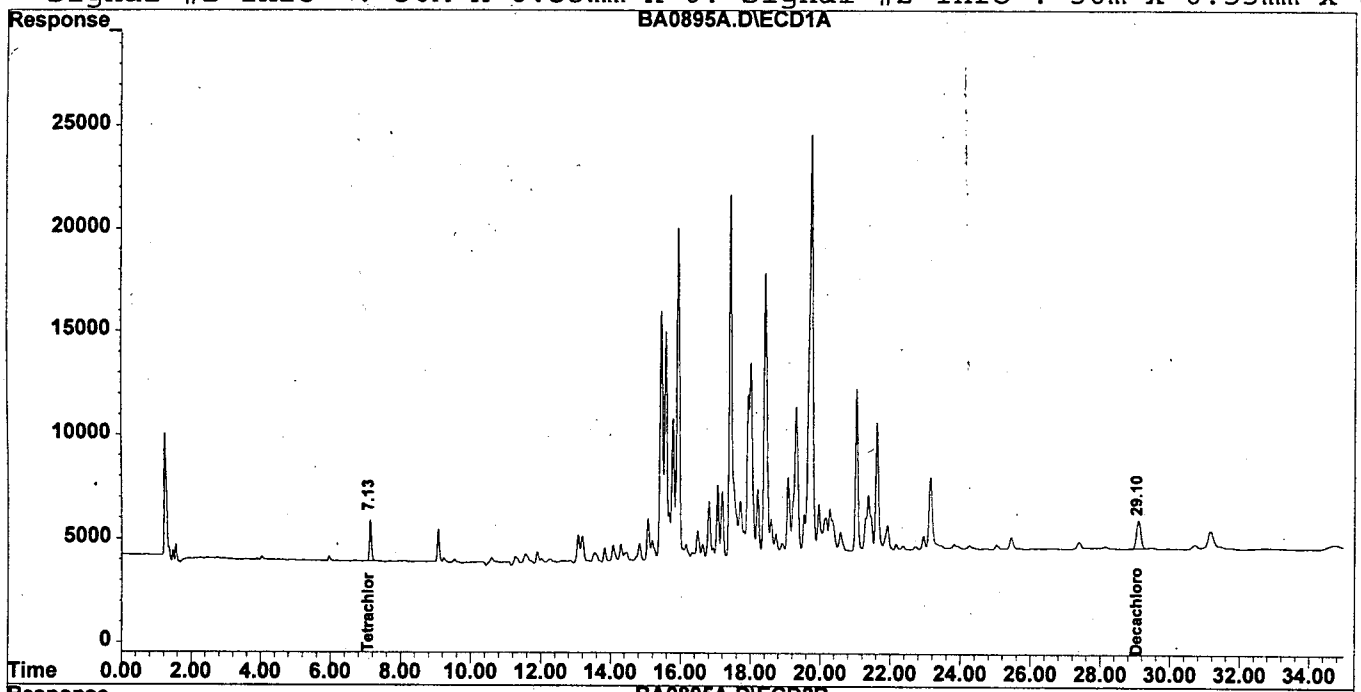
Quantitation Report

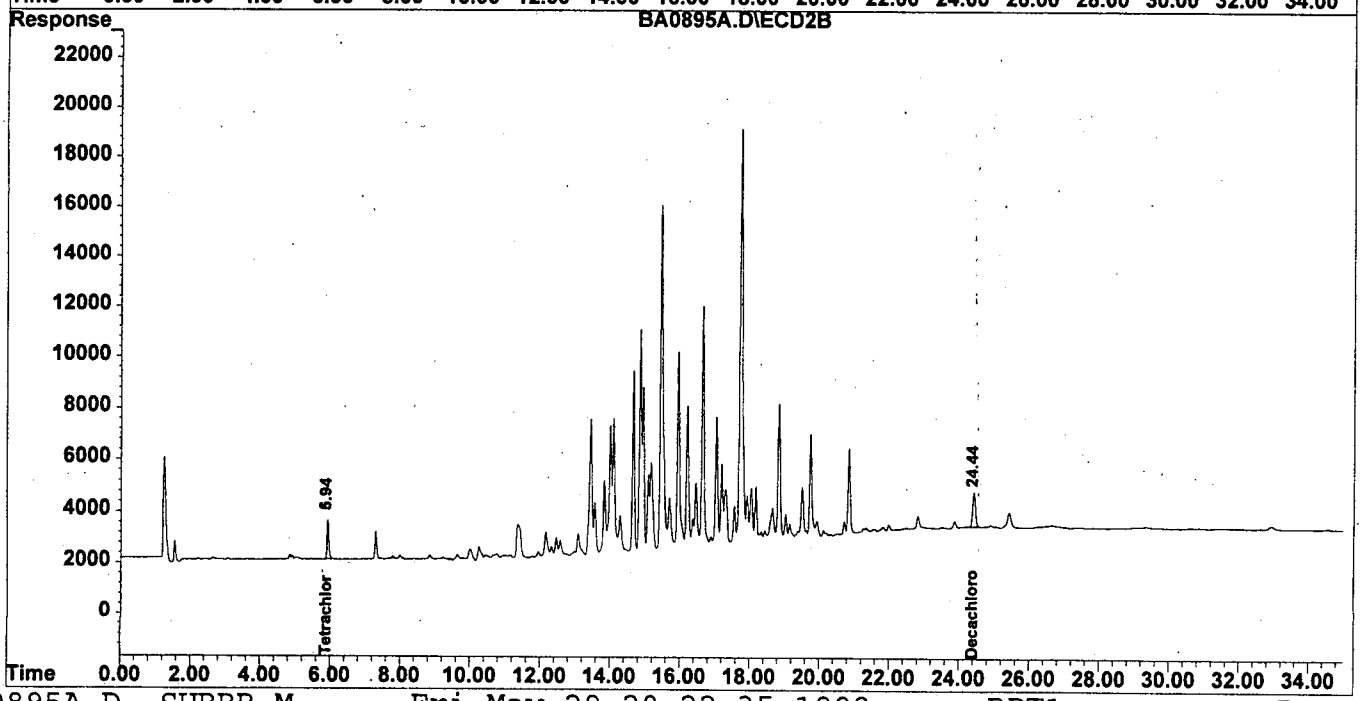
AMENDED REPORT MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0895A.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\BA0895A.D\ECD2B.CH
Acq On : 13 Dec 97 20:38 Operator:
Sample : 278227 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:32 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





589B

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 2 8 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278228
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOOND2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	42.86%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	580	290
Aroclor-1221	U	U	1200	820
Aroclor-1232	U	U	580	470
Aroclor-1242	U	U	580	290
Aroclor-1248	U	U	580	350
Aroclor-1254	~~110000~~ 12000	U	580	410
Aroclor-1260	U	U	580	470

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0896.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_B\BA0896.D\ECD2B.CH
Acq On : 13 Dec 97 21:17 Operator:
Sample : 278228 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:47 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	42003	29889	4.637m	4.615
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.59%#	11.54%#
2) SA Decachlorobiphen	29.10	24.44	70826	46166	4.706	5.177
Spiked Amount 40.000 Range 24 - 154 Recovery =					11.77%#	12.94%#
Target Compounds						
4) L1 Aroclor-1016{2}	0.00	10.25	0	22430	N.D.	39.623 #
5) L1 Aroclor-1016{3}	11.89	10.75	15294	8524	18.594	31.812 #
6) L1 Aroclor-1016{4}	0.00	12.16	0	93734	N.D.	365.378 #
7) L1 Aroclor-1016{5}	13.18	14.01	209269	602105	640.887	4082.627 #
Sum Aroclor-1016			224563	726793	659.480	4519.440
Average Aroclor-1016					329.740	1129.860
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
12) L3 Aroclor-1232{2}	0.00	10.02	0	29033	N.D.	694.976 #
13) L3 Aroclor-1232{3}	0.00	11.34	0	315322	N.D.	3785.337 #
14) L3 Aroclor-1232{4}	11.89	13.09	15294	18989	43.568	335.645 #
Sum Aroclor-1232			15294	363344	43.568	4815.957
Average Aroclor-1232					43.568	1605.319
16) L4 Aroclor-1242{2}	0.00	10.02	0	29033	N.D.	378.265 #
17) L4 Aroclor-1242{3}	11.33	0.00	29579	0	266.805	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.16	0	93734	N.D.	405.053 #
19) L4 Aroclor-1242{5}	14.07	14.30	70220	132361	193.237	1480.965 #
Sum Aroclor-1242			99800	255128	460.042	2264.283
Average Aroclor-1242					230.021	754.761
20) L5 Aroclor-1248{1}	0.00	10.25	0	22430	N.D.	53.852 #
21) L5 Aroclor-1248{2}	11.89	12.16	15294	93734	27.336	276.598 #
22) L5 Aroclor-1248{3}	13.18	12.47	209269	57826	506.314	182.682 #
23) L5 Aroclor-1248{4}	14.07	13.45	70220	583165	141.477	2167.264 #
24) L5 Aroclor-1248{5}	16.15	15.46	84620	1290552	224.447	10246.364 #
Sum Aroclor-1248			379402	2047707	899.574	12926.761
Average Aroclor-1248					224.894	2585.352

591

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0896.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_B\BA0896.D\ECD2B.CH
Acq On : 13 Dec 97 21:17 Operator:
Sample : 278228 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:47 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
2[illegible]) L6	Aroclor-1254{1}	14.07	11.34	70220	155862	517.338	706.961m#
2[illegible]) L6	Aroclor-1254{2}	15.45	13.45	621950	583165	1686.963	1392.552
27) L6	Aroclor-1254{3}	15.77	14.85	939893	308088	2039.502	2060.942
2[illegible]) L6	Aroclor-1254{4}	18.41	15.46	1120118	1290552	2763.727	2655.841
2[illegible]) L6	Aroclor-1254{5}	19.73	17.75	2374492	1354647	2751.425	2980.929
Sum	Aroclor-1254			5126673	3692314	9758.955	9797.225
Average	Aroclor-1254					1951.791	1959.445
3[illegible]) L7	Aroclor-1260{1}	0.00	15.95	0	677690	N.D.	1988.376 #
31) L7	Aroclor-1260{2}	18.41	16.65	1120118	678435	1819.710	1668.780
3[illegible]) L7	Aroclor-1260{3}	19.96	17.75	211801	1354647	464.184	2626.601 #
3[illegible]) L7	Aroclor-1260{4}	21.03	19.76	629573	266558	1351.182	425.709 #
34) L7	Aroclor-1260{5}	21.61	20.86	498360	204193	386.588	432.299
Sum	Aroclor-1260			2459851	3181523	4021.664	7141.765
Average	Aroclor-1260					1005.416	1428.353

00 592

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0896.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\BA0896.D\ECD2B.CH
Acq On : 13 Dec 97 21:17 Operator:
Sample : 278228 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:39 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	40992	29694	2.188	2.321
Spiked Amount 40.000 Range 43 - 150 Recovery =					5.47%#	5.80%#
2) SA Decachlorobiphen	29.10	24.44	70826	44851	3.212	4.828 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					8.03%#	12.07%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.07	11.34	74226	312301	547.033m	1405.596 #
4) L6 Aroclor-1254{2}	15.45	13.45	619235	582753	1614.350	1390.460
5) L6 Aroclor-1254{3}	15.77	14.85	932046	306209	1770.727	2042.333
6) L6 Aroclor-1254{4}	18.41	15.46	1114482	1283389	2599.195	2580.508
7) L6 Aroclor-1254{5}	19.73	17.75	2371103	1330147	2730.320	2775.942
Sum Aroclor-1254			5111092	3814798	9261.624	10194.839
Average Aroclor-1254					1852.325	2038.968

5 9 2A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

AMENDED REPORT MAY 30 1998

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : E:\WESTDA~1\BA0896A.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\BA0896A.D\ECD2B.CH
Acq On : 13 Dec 97 21:17 Operator:
Sample : 278228 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:32 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13f	5.94	40554	29694	4.359m	4.914
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.90%#	12.29%#
2) SA Decachlorobiphen	29.10	24.44	70826	44851	4.690	5.399
Spiked Amount 40.000 Range 24 - 154 Recovery =					11.73%#	13.50%#

Target Compounds

592B

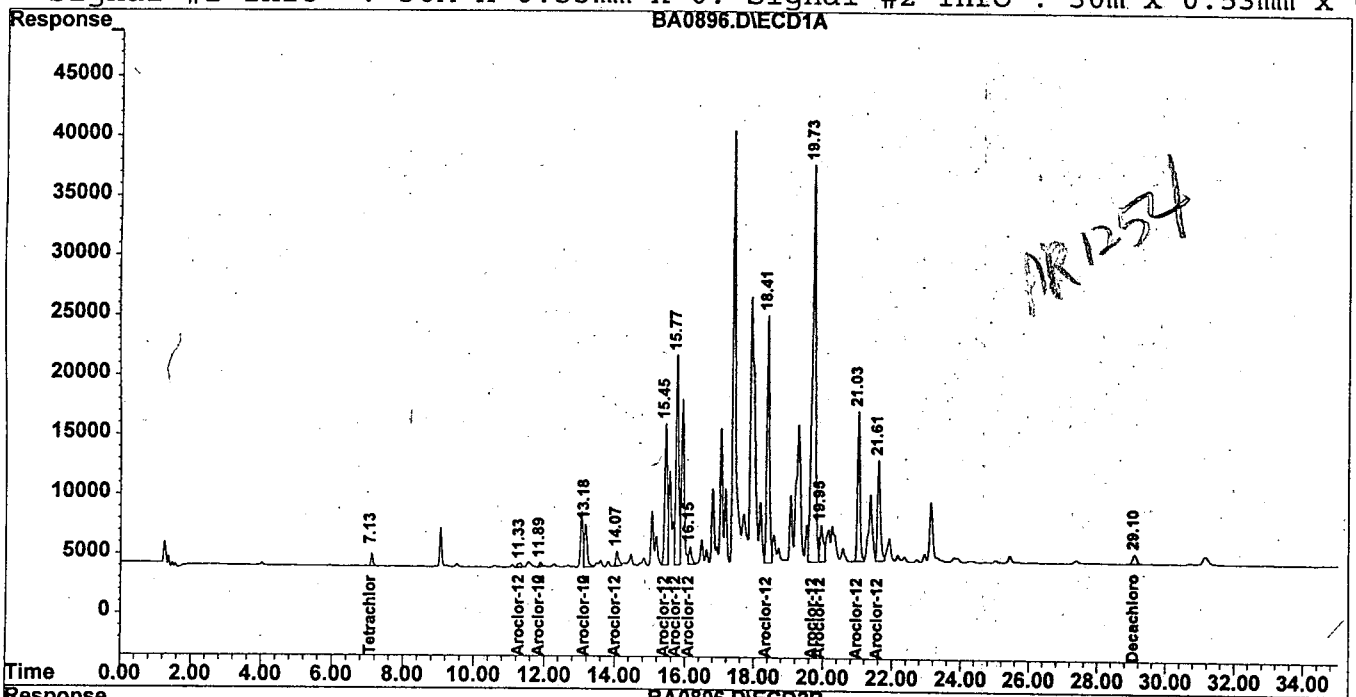
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

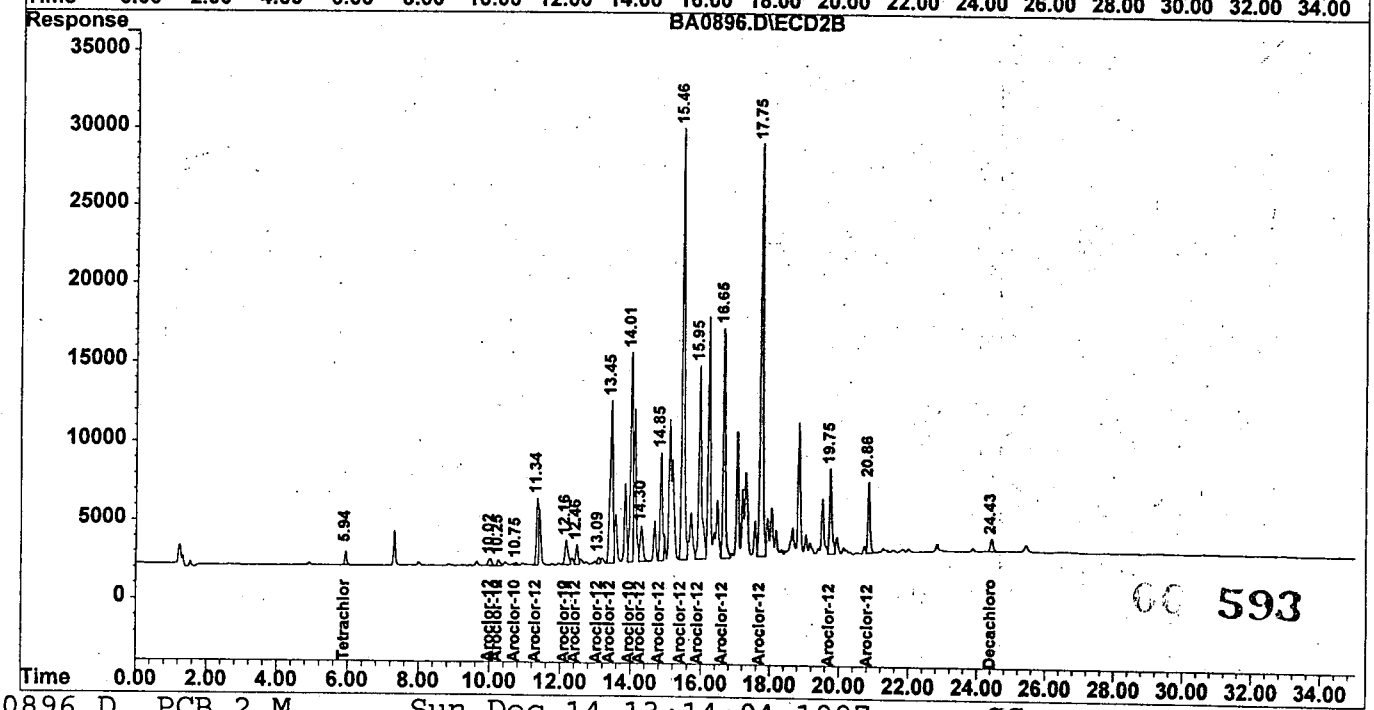
Signal #1 : C:\HPCHEM\1\DATA_B\BA0896.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_B\BA0896.D\ECD2B.CH
Acq On : 13 Dec 97 21:17 Operator:
Sample : 278228 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:47 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1254



GC 593

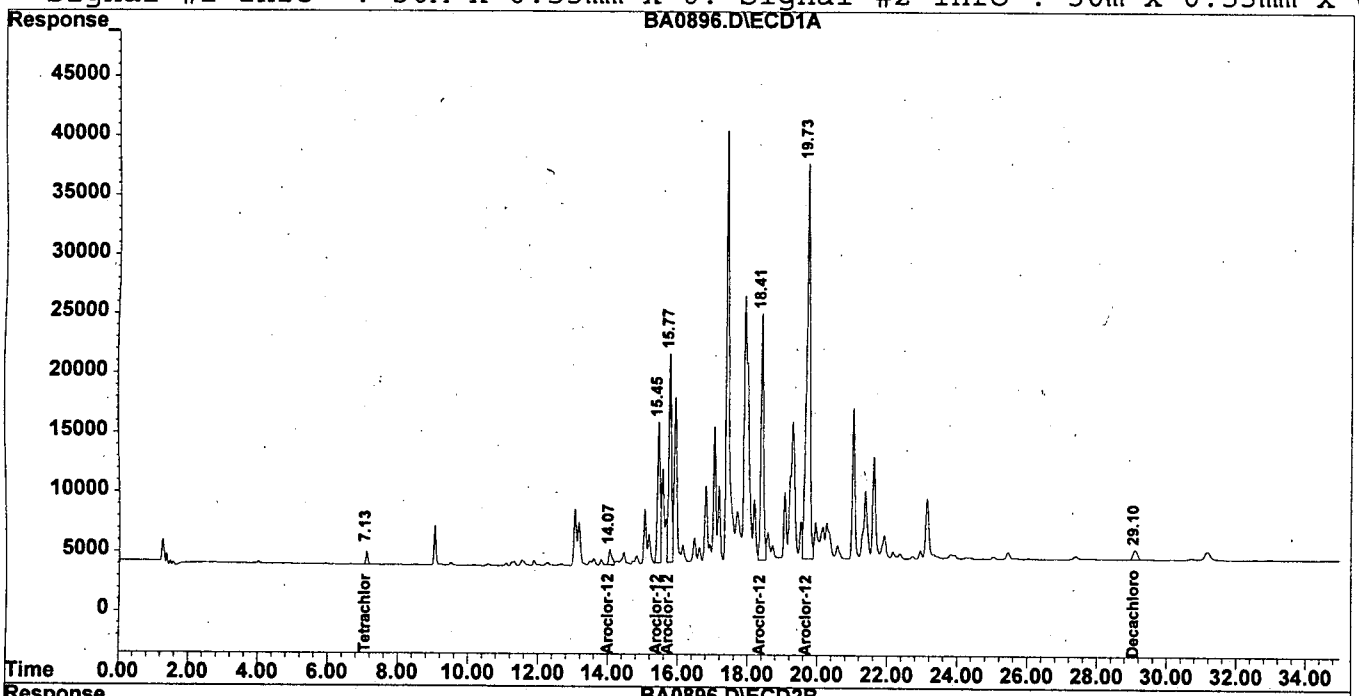
Quantitation Report

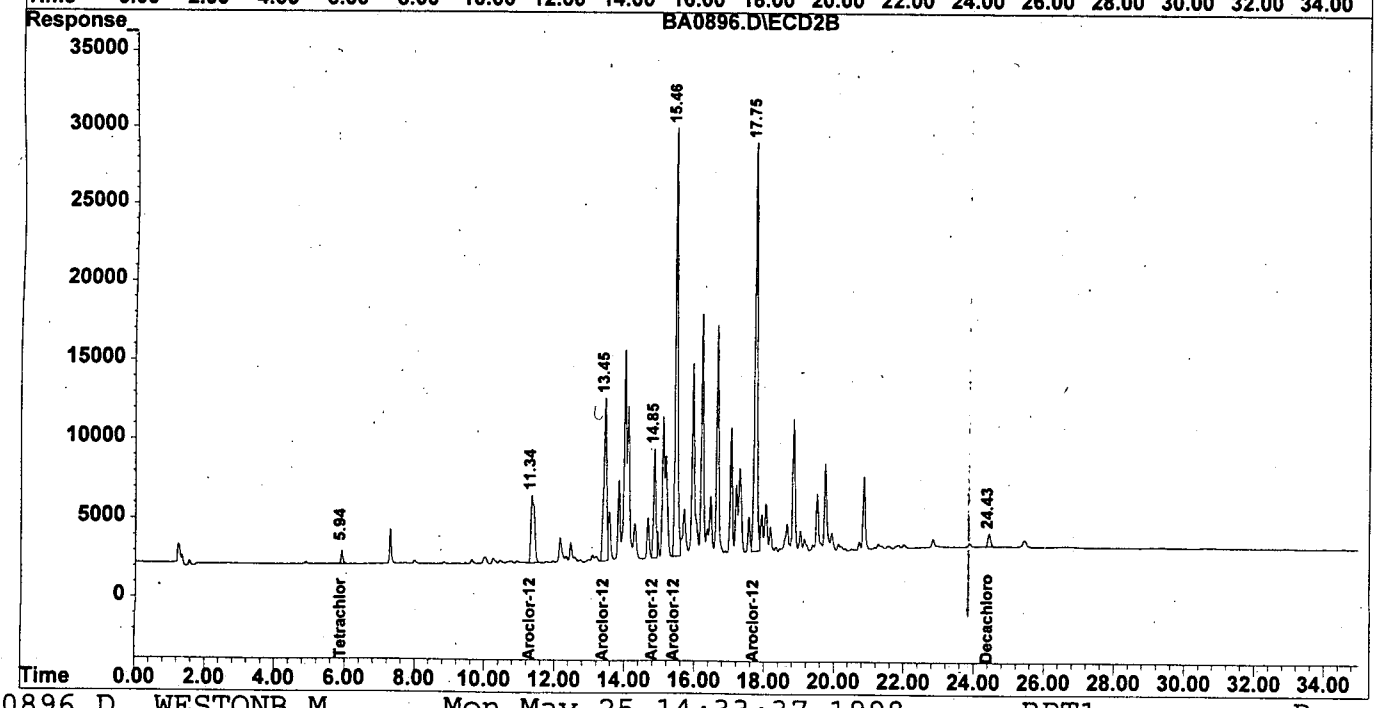
AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0896.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\BA0896.D\ECD2B.CH
Acq On : 13 Dec 97 21:17 Operator:
Sample : 278228 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:39 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



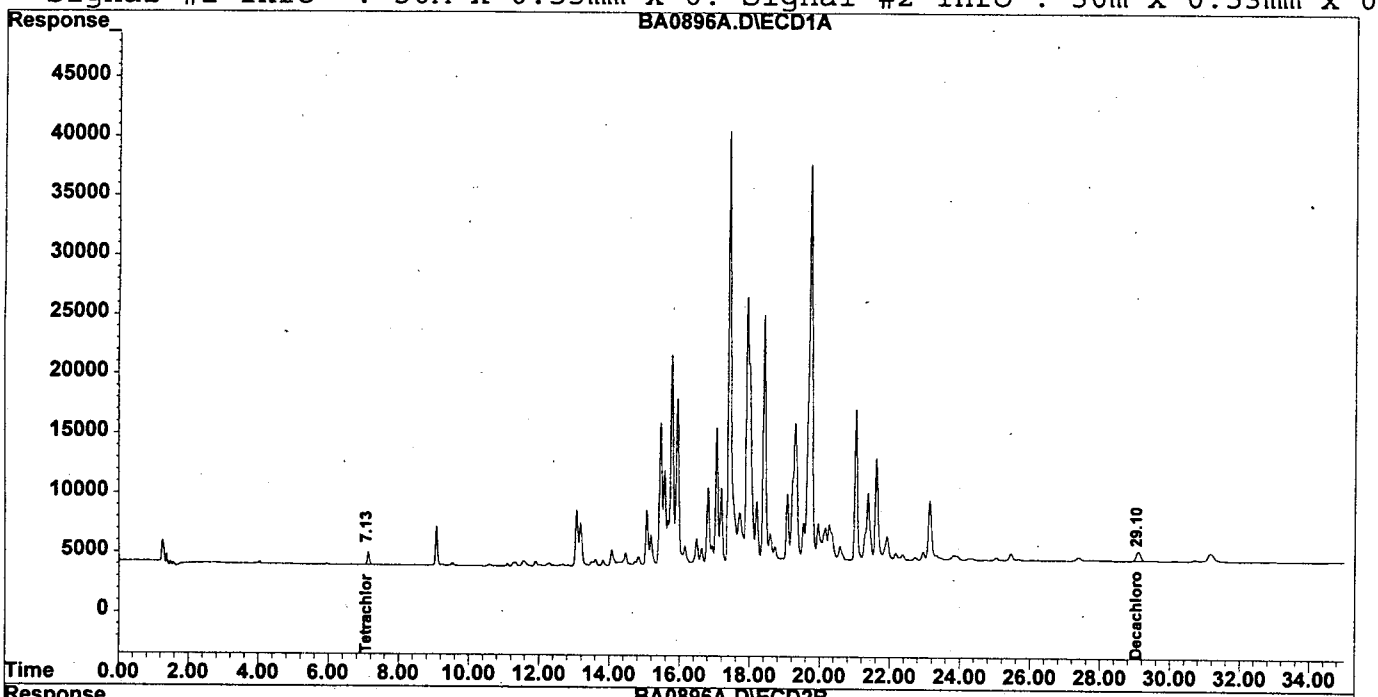


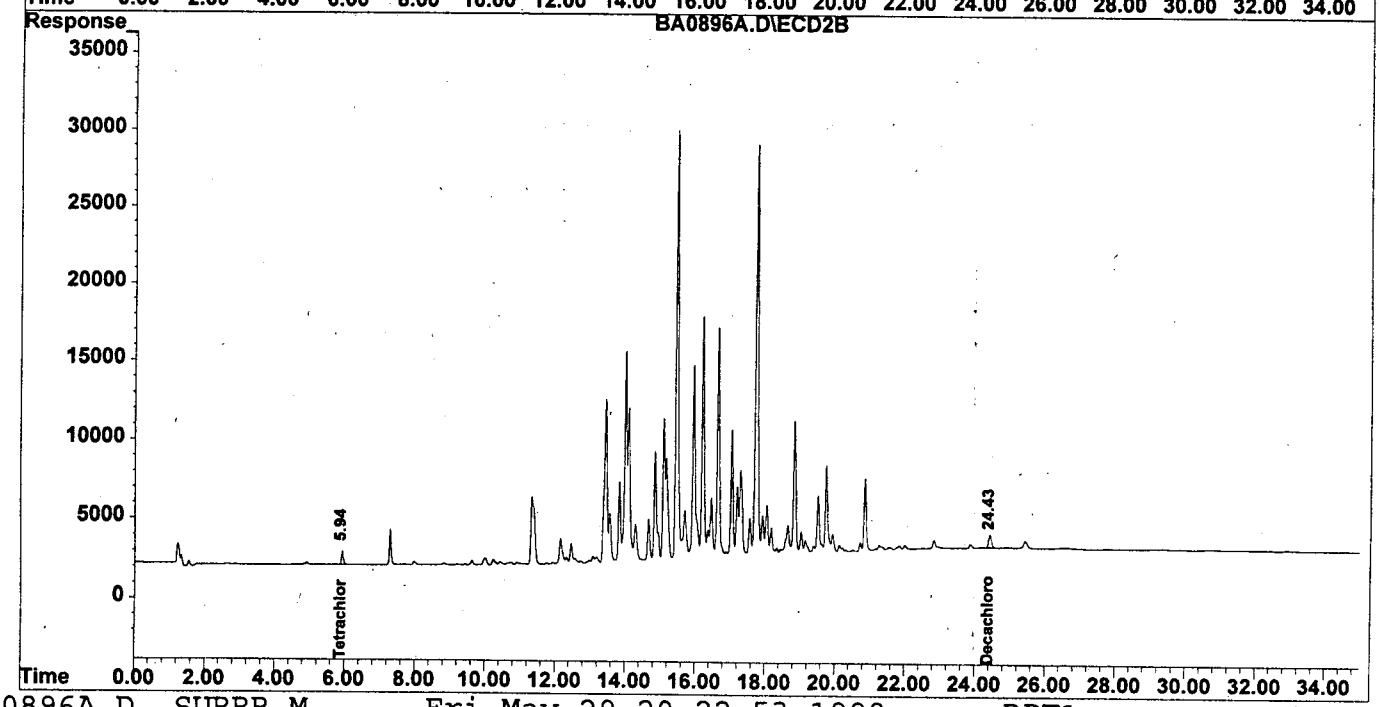
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0896A.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\BA0896A.D\ECD2B.CH
Acq On : 13 Dec 97 21:17 Operator:
Sample : 278228 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:32 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





593B

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 2 8 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278229
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPNS1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	27.31%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	230	110
Aroclor-1221	U	U	460	320
Aroclor-1232	U	U	230	180
Aroclor-1242	U	U	230	110
Aroclor-1248	U	U	230	140
Aroclor-1254	3600	U	230	160
Aroclor-1260	U	U	230	180

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0897.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA_B\BA0897.D\ECD2B.CH
Acq On : 13 Dec 97 21:56 Operator:
Sample : 278229 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:02 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	86171	58926	9.512m	9.098
Spiked Amount 40.000 Range 43 - 150 Recovery =					23.78%#	22.75%#
2) SA Decachlorobiphen	29.10	24.43	138497	87605	9.203	9.824
Spiked Amount 40.000 Range 24 - 154 Recovery =					23.01%#	24.56%
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	8.84	0	14633	N.D.	50.283 #
4) L1 Aroclor-1016{2}	10.58	10.25	22039	36533	46.744	64.537 #
5) L1 Aroclor-1016{3}	11.89	10.71	40753	51593	49.546	192.553 #
6) L1 Aroclor-1016{4}	0.00	12.16	0	178668	N.D.	696.456 #
7) L1 Aroclor-1016{5}	13.18	14.01	459639	423429	1407.646	2871.097 #
Sum Aroclor-1016			522431	704857	1503.936	3874.927
Average Aroclor-1016					501.312	774.985
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
11) L3 Aroclor-1232{1}	0.00	8.84	0	14633	N.D.	101.115 #
12) L3 Aroclor-1232{2}	0.00	10.02	0	86984	N.D.	2082.177 #
13) L3 Aroclor-1232{3}	10.58	11.40	22039	528365	101.540	6342.838 #
14) L3 Aroclor-1232{4}	11.89	13.09	40753	34508	116.095	609.954 #
Sum Aroclor-1232			62792	664490	217.635	9136.085
Average Aroclor-1232					108.818	2284.021
15) L4 Aroclor-1242{1}	0.00	8.84	0	14633	N.D.	58.560 #
16) L4 Aroclor-1242{2}	10.58	10.02	22039	86984	60.104	1133.298 #
17) L4 Aroclor-1242{3}	11.27	0.00	21486	0	193.301	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.16	0	178668	N.D.	772.083 #
19) L4 Aroclor-1242{5}	14.07	14.29	185280	248546	509.867	2780.929 #
Sum Aroclor-1242			228805	528832	763.771	4744.869
Average Aroclor-1242					254.590	1186.217
21) L5 Aroclor-1248{1}	10.58	10.25	22039	36533	113.606	87.713
22) L5 Aroclor-1248{2}	12.00	12.16	13284	178668	23.744	527.231 #
23) L5 Aroclor-1248{3}	13.18	12.46	459639	88351	1112.069	279.114 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0897.D\ECD1A.CH
Signal #2 : C:\HPCHEM\1\DATA_B\BA0897.D\ECD2B.CH
Acq On : 13 Dec 97 21:56
Sample : 278229 1:5
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:02 1997 Quant Results File: PCB_2.RES

Vial: 8
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
23)	L5 Aroclor-1248{4}	14.07	13.45	185280	553413	373.296	2056.693 #
24)	L5 Aroclor-1248{5}	16.15	15.46	63471	907646	168.353	7206.278 #
	Sum Aroclor-1248			743713	1764612	1791.068	10157.029
	Average Aroclor-1248					358.214	2031.406
						np	np
25)	L6 Aroclor-1254{1}	14.07	11.36	185280	157246	1365.028	713.239m#
26)	L6 Aroclor-1254{2}	15.45	13.45	776944	553413	2107.365	1321.506 #
27)	L6 Aroclor-1254{3}	15.77	14.86	652473	326959	1415.820	2187.182 #
28)	L6 Aroclor-1254{4}	18.41	15.46	724931	907646	1788.661	1867.856
29)	L6 Aroclor-1254{5}	19.78	17.75	1338063	906307	1550.470	1994.347 #
	Sum Aroclor-1254			3677690	2851572	8227.344	8084.130
	Average Aroclor-1254					1645.469	1616.826
30)	L7 Aroclor-1260{1}	0.00	15.95	0	439387	N.D.	1289.181 #
31)	L7 Aroclor-1260{2}	18.41	16.65	724931	425020	1177.701	1045.441
32)	L7 Aroclor-1260{3}	19.96	17.75	67172	906307	147.215	1757.289 #
33)	L7 Aroclor-1260{4}	21.03	19.76	355321	170516	762.585	272.324 #
34)	L7 Aroclor-1260{5}	21.61	20.86	305737	136934	237.167	289.904
	Sum Aroclor-1260			1453161	2078163	2324.668	4654.140
	Average Aroclor-1260					581.167	930.828
						np	np

12/14/98 596

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0897.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0897.D\ECD2B.CH
Acq On : 13 Dec 97 21:56
Sample : 278229 1:5
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:39 1998 Quant Results File: WESTONB.RES

Vial: 8
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	83940	58308	4.479	4.558
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.20%#	11.40%#
2) SA Decachlorobiphen	29.10	24.43	138497	87284	6.280	9.396 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					15.70%#	23.49%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.06	11.37	189546	184570	1396.921m	830.709m#
4) L6 Aroclor-1254{2}	15.45	13.45	767313	548008	2000.390	1307.558 #
5) L6 Aroclor-1254{3}	15.77	14.86	645919	322548	1227.135	2151.316 #
6) L6 Aroclor-1254{4}	18.41	15.46	723325	901411	1686.937	1812.465
7) L6 Aroclor-1254{5}	19.73	17.75	1337864	890022	1540.548	1857.427
Sum Aroclor-1254			3663967	2846560	7851.932	7959.474
Average Aroclor-1254					1570.386	1591.895

5 9 6A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

AMENDED REPORT MAY 3 0 1998

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : E:\WESTDA~1\BA0897A.D\ECD1A.CH Vial: 8
Signal #2 : E:\WESTDA~1\BA0897A.D\ECD2B.CH
Acq On : 13 Dec 97 21:56 Operator:
Sample : 278229 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:32 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13f	5.94	81236	58308	8.733m	9.649
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.83%#	24.12%#
2) SA Decachlorobiphen	29.10	24.43	138497	87284	9.171	10.507
Spiked Amount 40.000 Range 24 - 154 Recovery =					22.93%#	26.27%

Target Compounds

5 9 6B

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

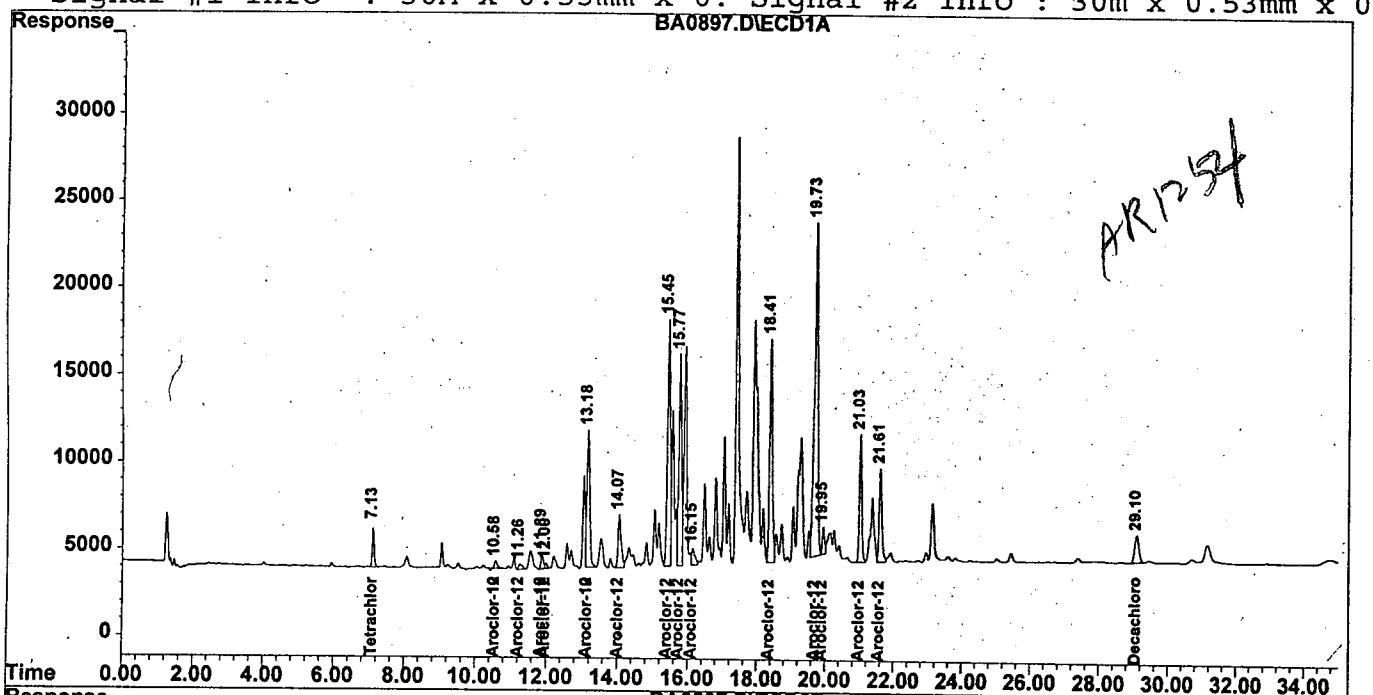
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0897.D\ECD1A.CH
Signal #2 : C:\HPCHEM\1\DATA_B\BA0897.D\ECD2B.CH
Acq On : 13 Dec 97 21:56
Sample : 278229 1:5
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:02 1997 Quant Results File: PCB_2.RES

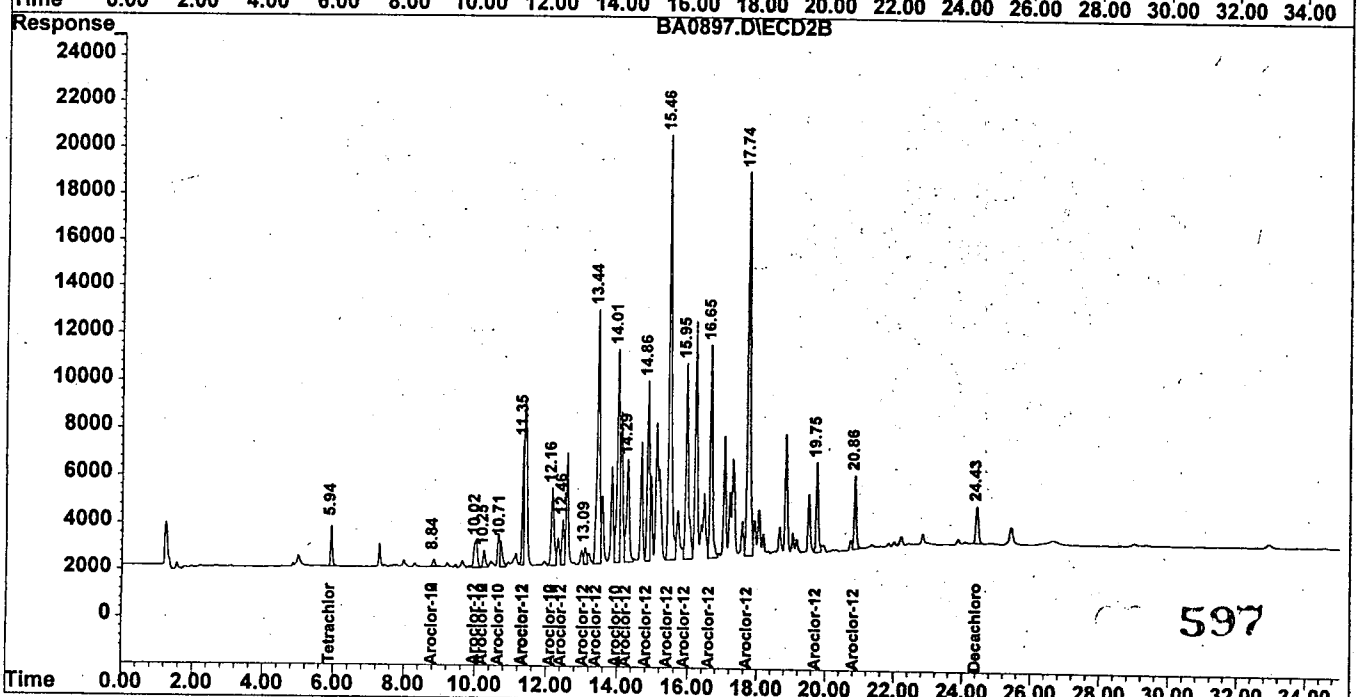
Vial: 8
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



AR1254



597

Quantitation Report

AMENDED REPORT MAY 2 8 1998

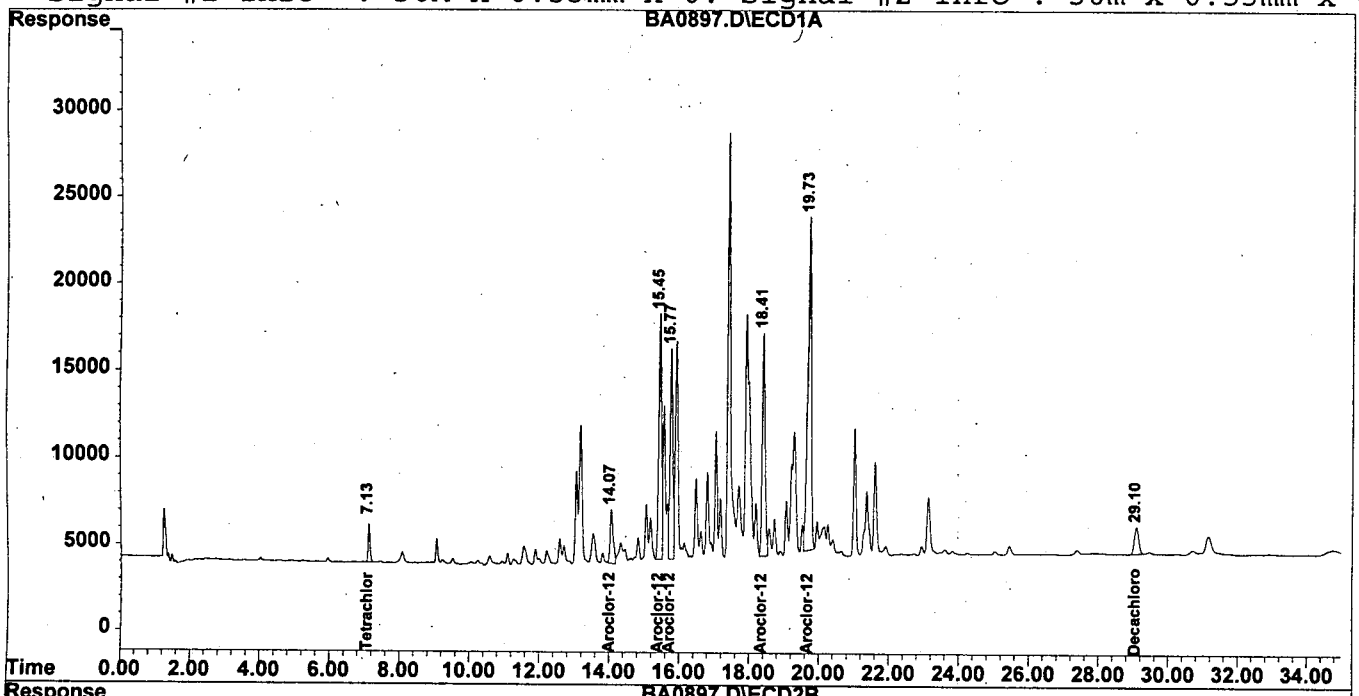
Signal #1 : E:\WESTDA~1\BA0897.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0897.D\ECD2B.CH
Acq On : 13 Dec 97 21:56
Sample : 278229 1:5
Misc : QPC7395

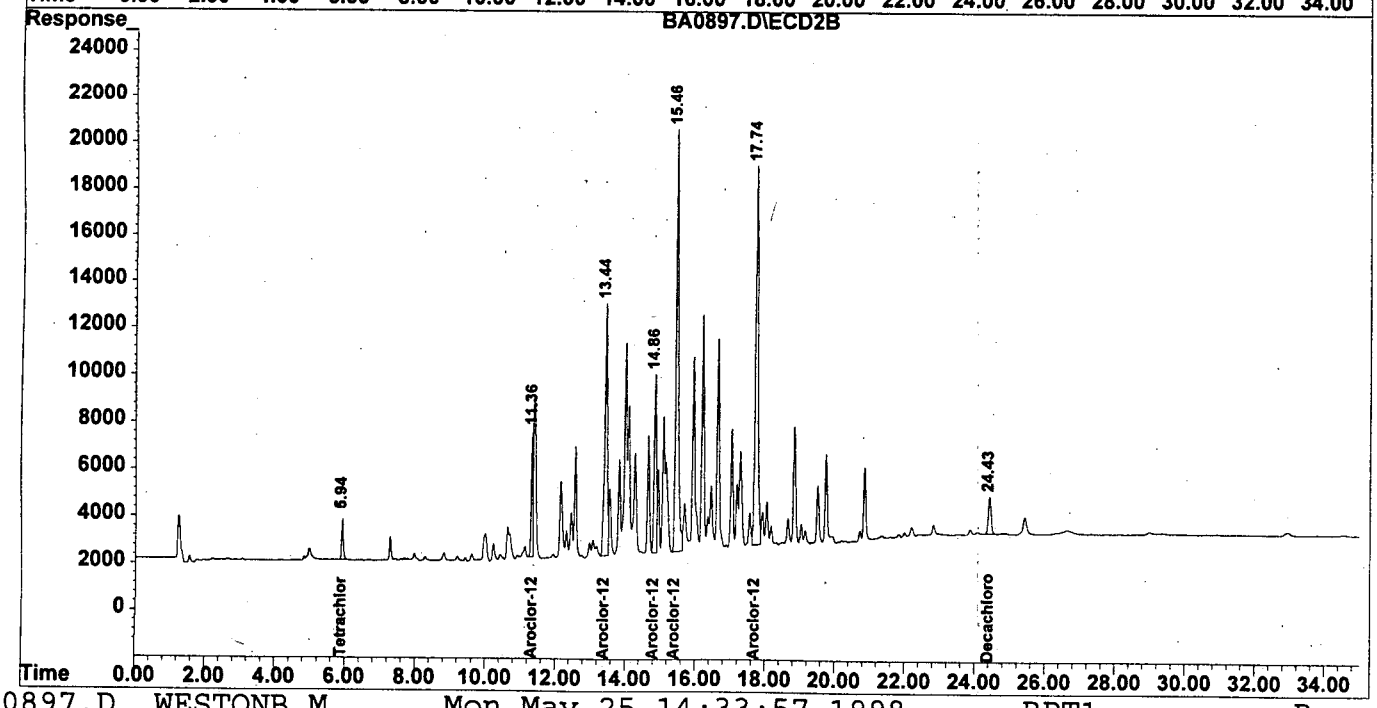
Vial: 8
Operator:
Inst : GC_5890_2
Multiplr: 1.00

IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:39 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





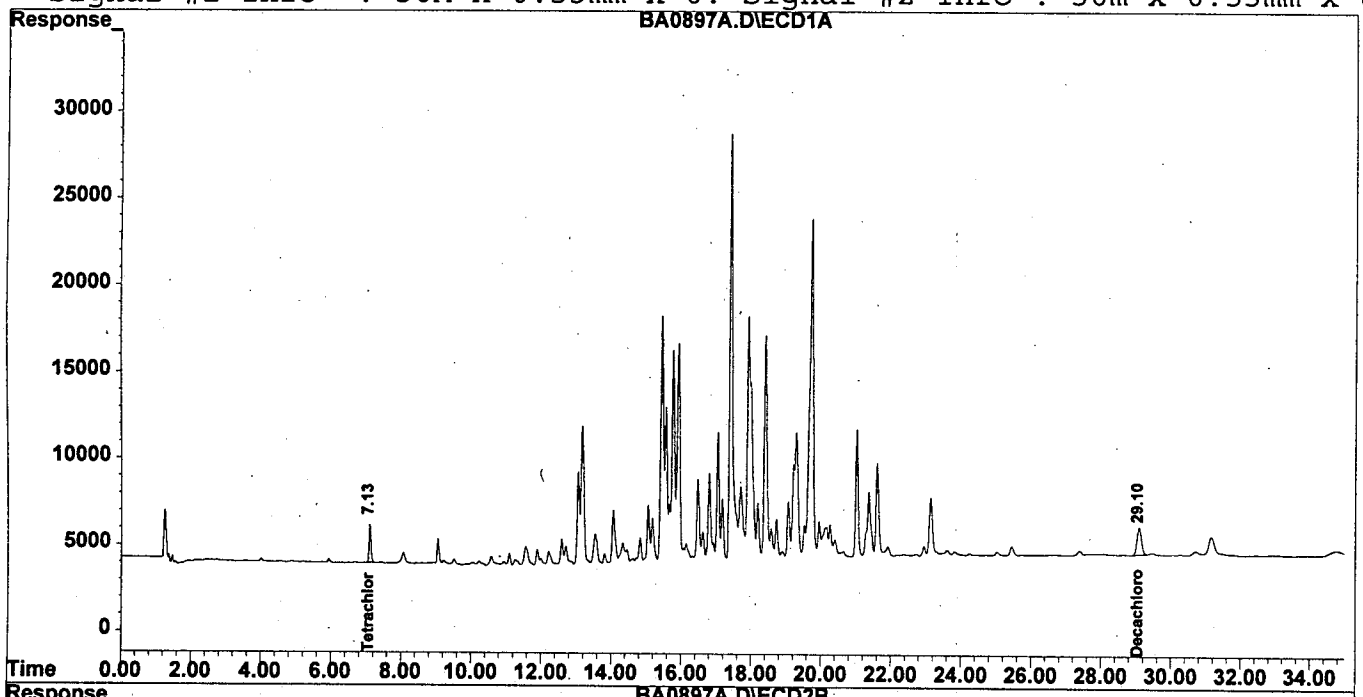
597A

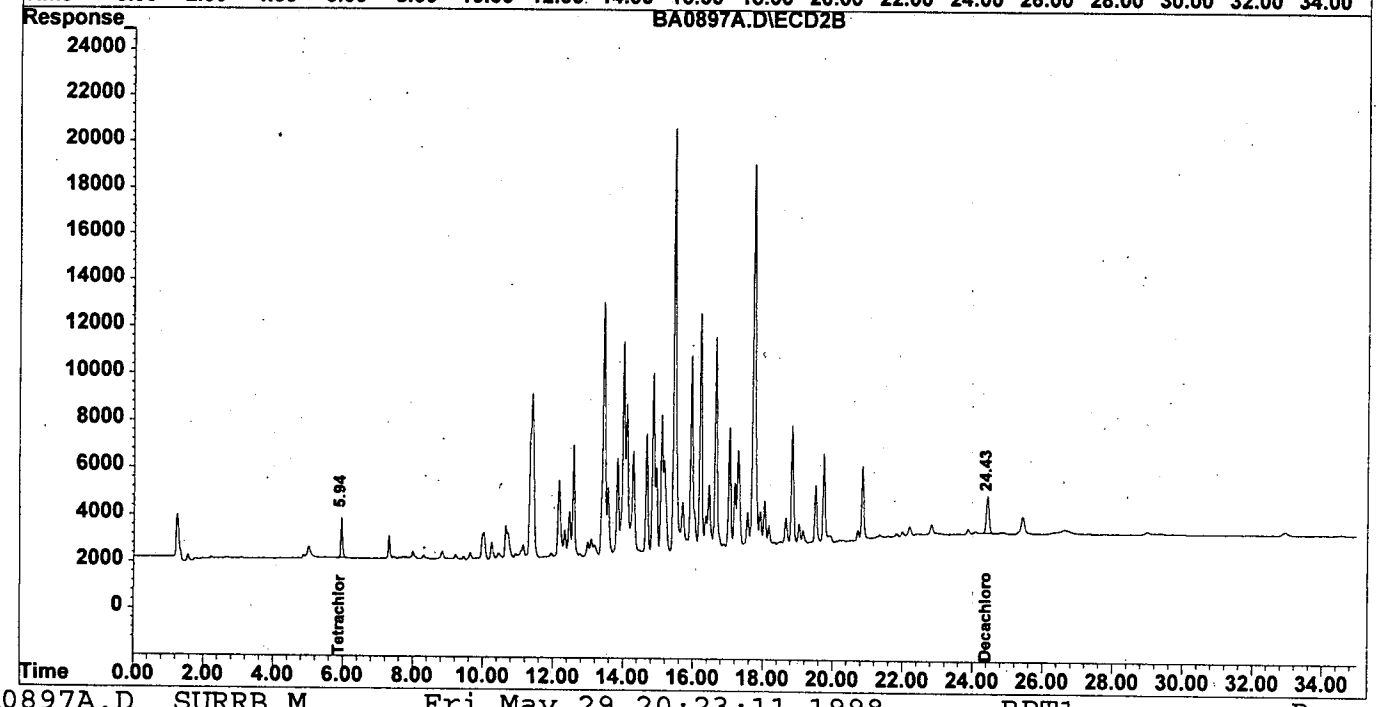
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0897A.D\ECD1A.CH Vial: 8
Signal #2 : E:\WESTDA~1\BA0897A.D\ECD2B.CH
Acq On : 13 Dec 97 21:56 Operator:
Sample : 278229 1:5 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:32 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 2 8 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278230
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPNS2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	41.81%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	570	290
Aroclor-1221	U	U	1100	800
Aroclor-1232	U	U	570	460
Aroclor-1242	U	U	570	290
Aroclor-1248	U	U	570	340
Aroclor-1254	5800	U	570	400
Aroclor-1260	U	U	570	460

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0898.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA_B\BA0898.D\ECD2B.CH
Acq On : 13 Dec 97 22:35 Operator:
Sample : 278230 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:04 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	44044	31736	4.862m	4.900
Spiked Amount 40.000 Range 43 - 150 Recovery =					12.16%#	12.25%#
2) SA Decachlorobiphen	29.10	24.43	70557	44163	4.689	4.952
Spiked Amount 40.000 Range 24 - 154 Recovery =					11.72%#	12.38%#
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	8.84	0	8853	N.D.	30.420 #
4) L1 Aroclor-1016{2}	10.58	10.25	12979	26314	27.529	46.484 #
5) L1 Aroclor-1016{3}	11.89	10.71	34648	33318	42.124	124.347 #
6) L1 Aroclor-1016{4}	0.00	12.16	0	138682	N.D.	540.588 #
7) L1 Aroclor-1016{5}	13.18	14.01	335884	280037	1028.646	1898.815 #
Sum Aroclor-1016			383511	487203	1098.299	2640.654
Average Aroclor-1016					366.100	528.131
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
11) L3 Aroclor-1232{1}	0.00	8.84	0	8853	N.D.	61.172 #
12) L3 Aroclor-1232{2}	0.00	10.02	0	50004	N.D.	1196.965 #
13) L3 Aroclor-1232{3}	10.58	11.40	12979	400193	59.800	4804.175 #
14) L3 Aroclor-1232{4}	11.89	13.09	34648	23331	98.704	412.396 #
Sum Aroclor-1232			47628	482380	158.504	6474.707
Average Aroclor-1232					79.252	1618.677
15) L4 Aroclor-1242{1}	0.00	8.84	0	8853	N.D.	35.427 #
16) L4 Aroclor-1242{2}	10.58	10.02	12979	50004	35.397	651.490 #
17) L4 Aroclor-1242{3}	11.27	0.00	14476	0	130.576	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.16	0	138682	N.D.	599.289 #
19) L4 Aroclor-1242{5}	14.07	14.29	152782	166688	420.434	1865.032 #
Sum Aroclor-1242			180237	364226	586.408	3151.238
Average Aroclor-1242					195.469	787.809
20) L5 Aroclor-1248{1}	10.58	10.25	12979	26314	66.906	63.177
21) L5 Aroclor-1248{2}	11.89	12.16	34648	138682	61.930	409.236 #
22) L5 Aroclor-1248{3}	13.18	12.46	335884	74481	812.651	235.298 #

00 599

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0898.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA_B\BA0898.D\ECD2B.CH
Acq On : 13 Dec 97 22:35 Operator:
Sample : 278230 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:04 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
23)	L5 Aroclor-1248{4}	14.07	13.45	152782	380388	307.819	1413.668	#
24)	L5 Aroclor-1248{5}	16.15	15.46	37900	579839	100.528	4603.646	#
	Sum Aroclor-1248			574193	1199705	1349.834	6725.025	
	Average Aroclor-1248					269.967	1345.005	
25)	L6 Aroclor-1254{1}	14.07	11.36	152782	121000	1125.597	548.834	m#
26)	L6 Aroclor-1254{2}	15.45	13.45	481849	380388	1306.956	908.337	#
27)	L6 Aroclor-1254{3}	15.77	14.86	421006	208625	913.554	1395.591	#
28)	L6 Aroclor-1254{4}	18.41	15.46	452702	579839	1116.976	1193.258	
29)	L6 Aroclor-1254{5}	19.73	17.75	830748	554924	962.623	1221.122	#
	Sum Aroclor-1254			2339086	1844777	5425.705	5267.141	
	Average Aroclor-1254					1085.141	1053.428	
30)	L7 Aroclor-1260{1}	0.00	15.95	0	279926	N.D.	821.315	#
31)	L7 Aroclor-1260{2}	18.41	16.65	452702	264035	735.446	649.460	
32)	L7 Aroclor-1260{3}	19.96	17.75	60137	554924	131.797	1075.973	#
33)	L7 Aroclor-1260{4}	21.03	19.76	204618	92994	439.148	148.517	#
34)	L7 Aroclor-1260{5}	21.61	20.86	163496	78936	126.827	167.117	#
	Sum Aroclor-1260			880952	1270815	1433.218	2862.382	
	Average Aroclor-1260					358.304	572.476	

12/14/97 600

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0898.D\ECD1A.CH Vial: 9
Signal #2 : E:\WESTDA~1\BA0898.D\ECD2B.CH
Acq On : 13 Dec 97 22:35 Operator:
Sample : 278230 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:40 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	43547	31558	2.324	2.467
Spiked Amount 40.000 Range 43 - 150 Recovery =					5.81%#	6.17%#
2) SA Decachlorobiphen	29.10	24.43	70557	44303	3.199	4.769 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					8.00%#	11.92%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.07	11.36	155750	123476	1147.851m	555.738m#
4) L6 Aroclor-1254{2}	15.45	13.45	479148	377969	1249.142	901.842 #
5) L6 Aroclor-1254{3}	15.77	14.86	420006	206671	797.940	1378.446 #
6) L6 Aroclor-1254{4}	18.41	15.46	452664	565860	1055.702	1137.773
7) L6 Aroclor-1254{5}	19.73	17.75	830729	537826	956.582	1122.414
Sum Aroclor-1254			2338297	1811803	5207.218	5096.213
Average Aroclor-1254					1041.444	1019.243

600A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0898A.D\ECD1A.CH Vial: 9
Signal #2 : E:\WESTDA~1\BA0898A.D\ECD2B.CH
Acq On : 13 Dec 97 22:35 Operator:
Sample : 278230 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:33 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13f	5.94	43264	31558	4.651m	5.222
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.63%#	13.06%#
2) SA Decachlorobiphen	29.10	24.43	70557	44303	4.672	5.333
Spiked Amount 40.000 Range 24 - 154 Recovery =					11.68%#	13.33%#
Target Compounds						

6 0 0B
7/3 5/30/98

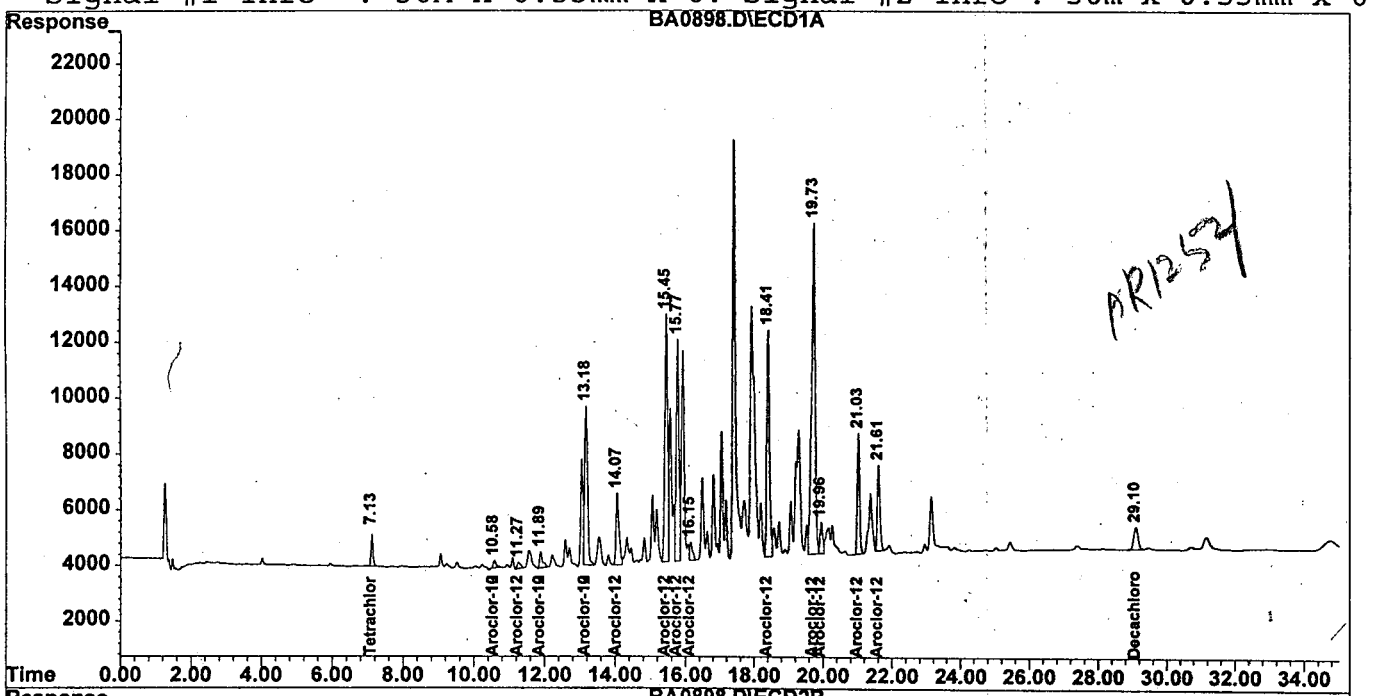
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

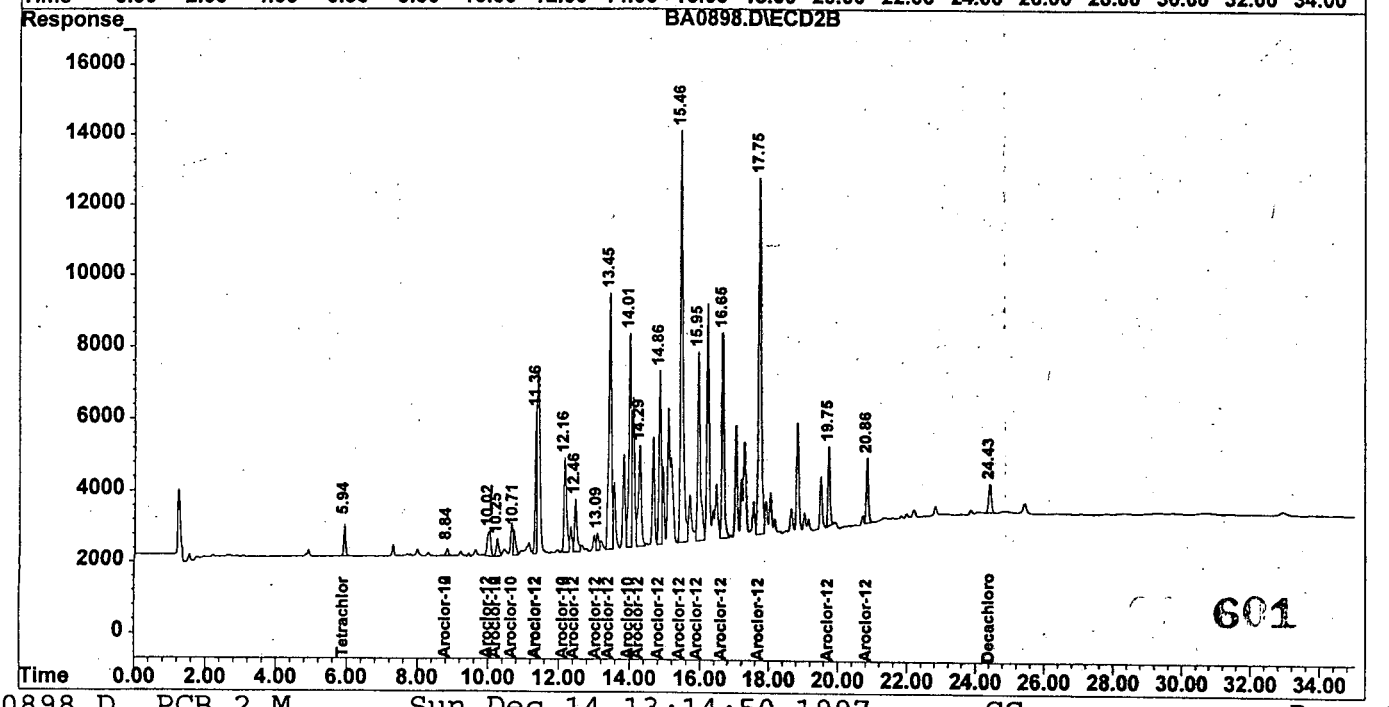
Signal #1 : C:\HPCHEM\1\DATA_B\BA0898.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA_B\BA0898.D\ECD2B.CH
Acq On : 13 Dec 97 22:35 Operator:
Sample : 278230 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:04 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm



PR1257



601

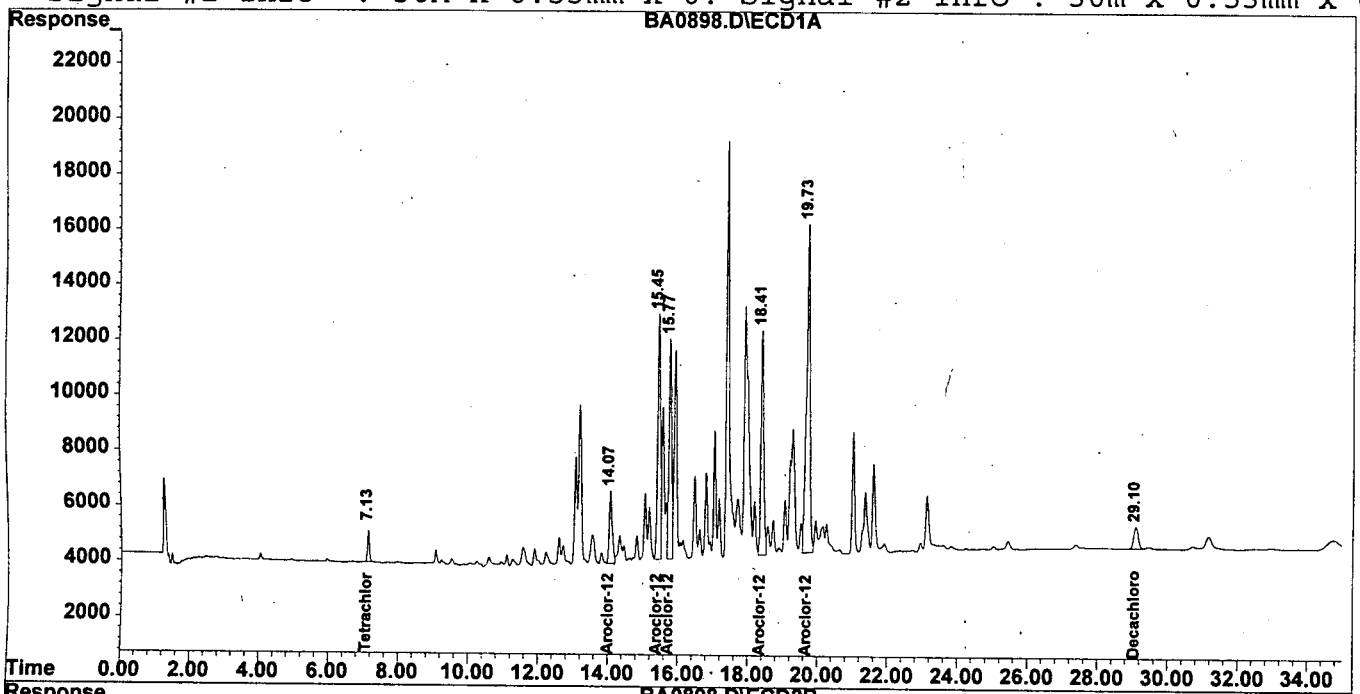
Quantitation Report

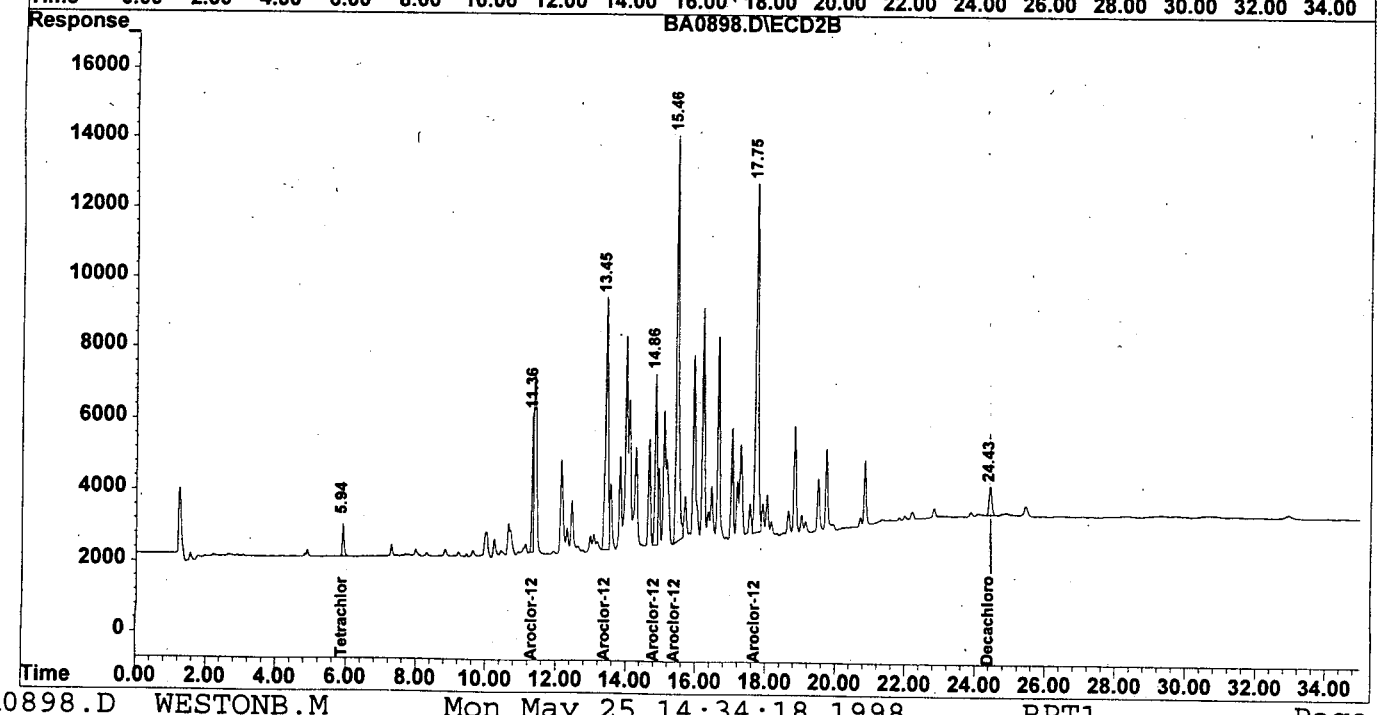
AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0898.D\ECD1A.CH Vial: 9
Signal #2 : E:\WESTDA~1\BA0898.D\ECD2B.CH
Acq On : 13 Dec 97 22:35 Operator:
Sample : 278230 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:40 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





601A

Quantitation Report

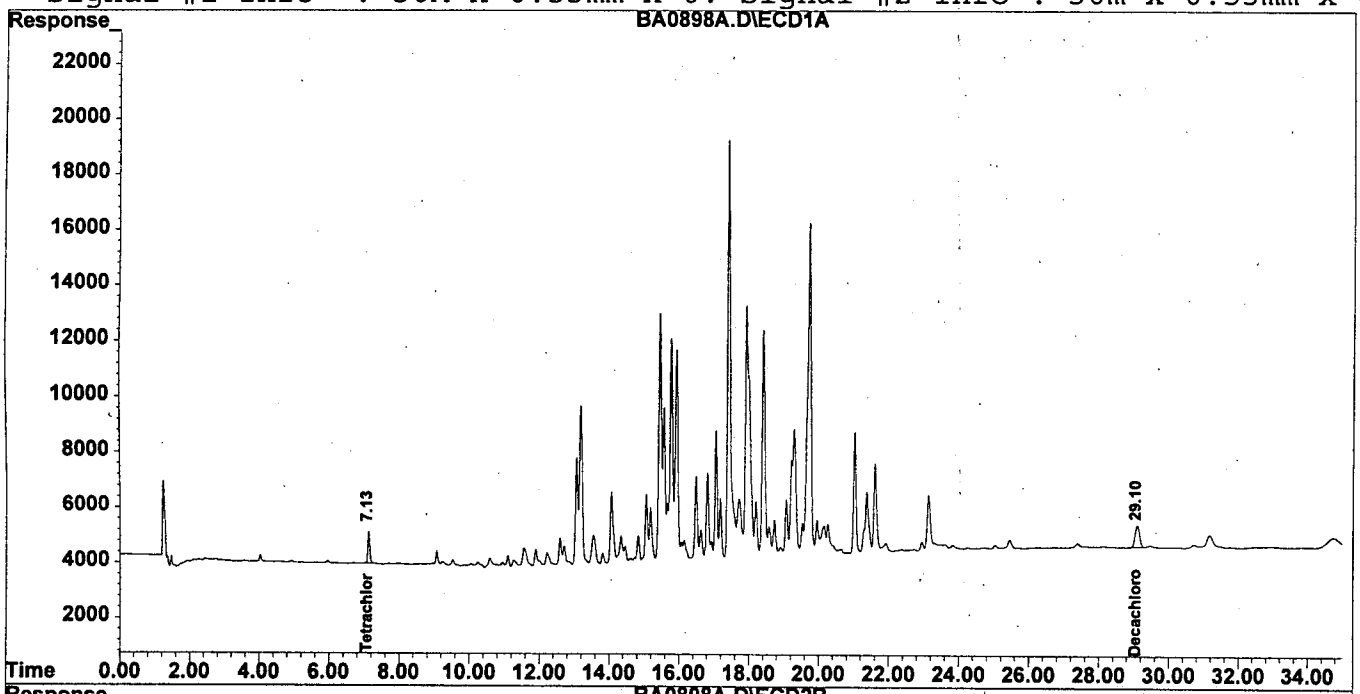
AMENDED REPORT MAY 30 1998

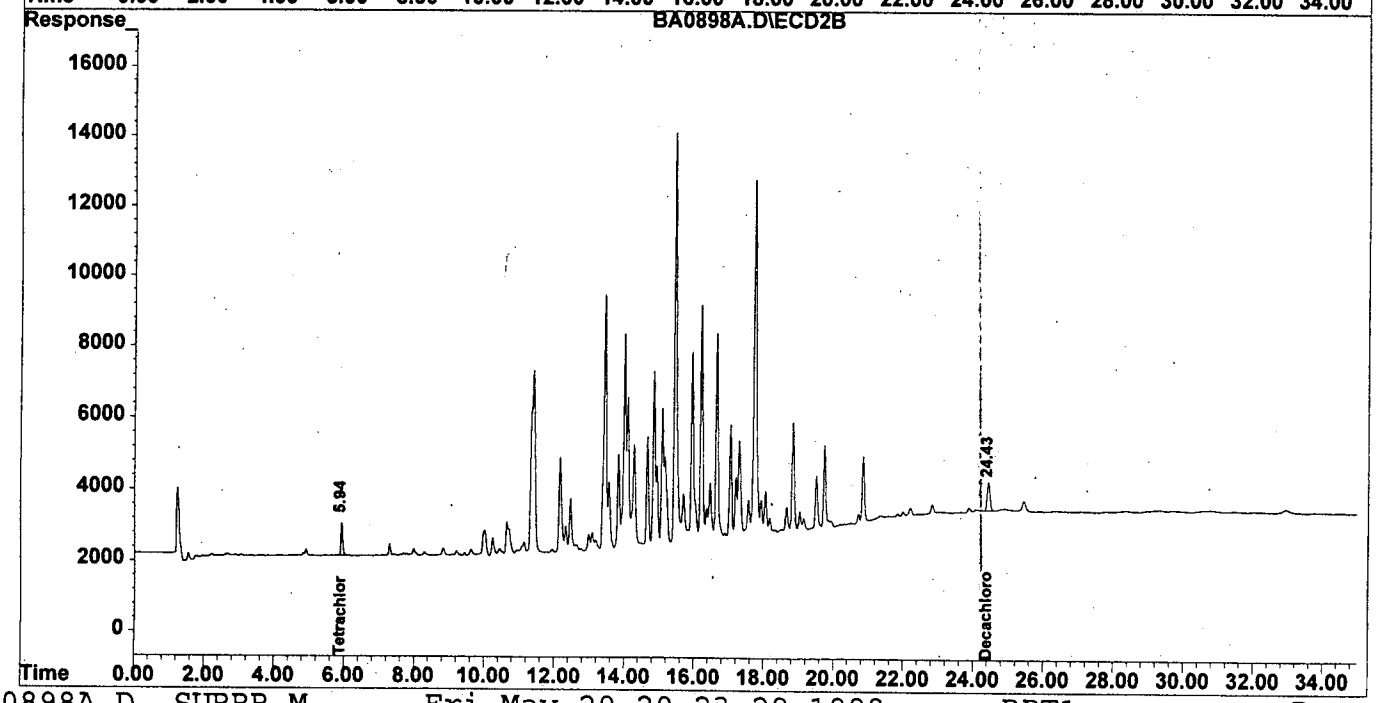
Signal #1 : E:\WESTDA~1\BA0898A.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0898A.D\ECD2B.CH
Acq On : 13 Dec 97 22:35
Sample : 278230 1:10
Misc : QPC7395
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:33 1998 Quant Results File: SURRB.RES

Vial: 9
Operator:
Inst : GC_5890_2
Multiplr: 1.00

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





601B

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 27, 1998

AMENDED REPORT MAY 28 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278231
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPND1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/12/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	36.35%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	52	26
Aroclor-1221	U	U	100	73
Aroclor-1232	U	U	52	42
Aroclor-1242	U	U	52	26
Aroclor-1248	U	U	52	31
Aroclor-1254	~~2200~~ 2000 J	U	52	37
Aroclor-1260	U	U	52	42

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

J ARE 5% 1" pk conc > 5000

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0873.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_B\BA0873.D\ECD2B.CH
Acq On : 12 Dec 97 00:46 Operator:
Sample : 278231 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 12:05 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.19	5.95	373979	260794	41.282	40.265	
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.21%	100.66%	
2) SA Decachlorobiphen	29.13	24.45	536440	371891	35.647	41.702	
Spiked Amount 40.000 Range 24 - 154 Recovery =					89.12%	104.26%	
Target Compounds							
4) L1 Aroclor-1016{1}	9.13	8.85	228285	34523	1072.456	118.629	#
5) L1 Aroclor-1016{2}	10.64	10.26	64844	110250	137.533	194.759	#
6) L1 Aroclor-1016{3}	11.95	10.66	116339	137276	141.440	512.338	#
7) L1 Aroclor-1016{4}	12.44	12.17	25111	312524	89.691	1218.232	#
8) L1 Aroclor-1016{5}	13.23	14.02	563205	790857	1724.819	5362.475	#
Sum Aroclor-1016			997784	1385431	3165.938	7406.432	
Average Aroclor-1016					633.188	1481.286	
8) L2 Aroclor-1221{1}	6.01	0.00	33961	0	385.936	N.D.	#
9) L2 Aroclor-1221{2}	0.00	7.47	0	6731	N.D.	95.458	#
10) L2 Aroclor-1221{3}	9.13	0.00	228285	0	754.154	N.D.	#
Sum Aroclor-1221			262247	6731	1140.090	95.458	
Average Aroclor-1221					570.045	95.458	
11) L3 Aroclor-1232{1}	0.00	8.85	0	34523	N.D.	238.552	#
12) L3 Aroclor-1232{2}	9.13	10.04	228285	179490	1117.049	4296.540	#
13) L3 Aroclor-1232{3}	10.64	11.41	64844	682411	298.756	8192.108	#
14) L3 Aroclor-1232{4}	11.95	13.10	116339	147416	331.419	2605.679	#
Sum Aroclor-1232			409469	1043840	1747.225	15332.879	
Average Aroclor-1232					582.408	3833.220	
15) L4 Aroclor-1242{1}	9.13	8.85	228285	34523	1245.314	138.155	#
16) L4 Aroclor-1242{2}	10.64	10.04	64844	179490	176.840	2338.542	#
17) L4 Aroclor-1242{3}	0.00	11.01	0	24234	N.D.	150.235	#
18) L4 Aroclor-1242{4}	12.87	12.17	38693	312524	224.626	1350.516	#
19) L4 Aroclor-1242{5}	14.11	14.30	285741	497853	786.320	5570.376	#
Sum Aroclor-1242			617563	1048625	2433.100	9547.824	
Average Aroclor-1242					608.275	1909.565	

603

12/13/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0873.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_B\BA0873.D\ECD2B.CH
Acq On : 12 Dec 97 00:46 Operator:
Sample : 278231 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 12:05 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
20) L5	Aroclor-1248{1}	10.64	10.26	64844	110250	334.255	264.700
21) L5	Aroclor-1248{2}	11.95	12.17	116339	312524	207.944	922.226 #
22) L5	Aroclor-1248{3}	13.23	12.47	563205	159062	1362.642	502.500 #
23) L5	Aroclor-1248{4}	14.11	13.46	285741	1079960	575.700	4013.542 #
24) L5	Aroclor-1248{5}	0.00	15.47	0	2354488	N.D.	18693.509 #
Sum	Aroclor-1248			1030129	4016284	2480.542	24396.478
Average	Aroclor-1248					620.135	4879.296
						no	no
25) L6	Aroclor-1254{1}	14.11	11.37	285741	219742	2105.156	996.709m#
26) L6	Aroclor-1254{2}	~~15.48~~	13.46	~~2733724~~	1079960	~~7414.894~~	2578.858 #
27) L6	Aroclor-1254{3}	15.81	~~14.87~~	1204406	~~1378328~~	2613.477	~~9220.272~~ #
28) L6	Aroclor-1254{4}	18.44	15.47	2198454	2354488	5424.364	4845.328
29) L6	Aroclor-1254{5}	19.76	17.76	4029432	2576431	4669.074	5669.489
Sum	Aroclor-1254			10451758	7608949	22226.966	23310.655
Average	Aroclor-1254					4445.393	4662.131
30) L7	Aroclor-1260{1}	18.03	15.96	1404575	1049151	2698.811	3078.260
31) L7	Aroclor-1260{2}	18.44	16.66	2198454	1078612	3571.642	2653.113 #
32) L7	Aroclor-1260{3}	19.98	17.76	362670	2576431	794.830	4995.585 #
33) L7	Aroclor-1260{4}	21.05	19.77	1044795	496837	2242.329	793.479 #
34) L7	Aroclor-1260{5}	21.63	20.87	953749	400719	739.843	848.366
Sum	Aroclor-1260			5964243	5601750	10047.355	12368.804
Average	Aroclor-1260					2009.471	2473.761
						no	no

604

12/13/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 0 1998

Signal #1 : E:\WESTDA~1\BA0873.D\ECD1A.CH Vial: 22
Signal #2 : E:\WESTDA~1\BA0873.D\ECD2B.CH
AMENDED REPORT MAY 2 8 1998
Acq On : 12 Dec 97 00:46 Operator:
Sample : 278231 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 27 19:40 1998 Quant Results File: WESTONB.RES

Quant Method : H:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:34:29 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.19	5.95	374660	253676	39.987	39.663
Spiked Amount 40.000 Range 43 - 150 Recovery =					99.97%	99.16%
2) SA Decachlorobiphen	29.13	24.45	536440	377939	24.325	40.687 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					60.81%	101.72%
Target Compounds						
3) L6 Aroclor-1254{1}	14.11	11.41	261808	659745	1929.480m	2969.365 #
4) L6 Aroclor-1254{2}	~~15.47~~	13.46	2681164	1066056	~~6989.809~~m	2543.630 #
5) L6 Aroclor-1254{3}	15.81	~~14.87~~	1189197	1364435	2259.269	~~9100.434~~ #
6) L6 Aroclor-1254{4}	18.44	15.47	2182223	2327519	5089.377	4679.936
7) L6 Aroclor-1254{5}	19.76	17.76	4016040	2565029	4624.462	5353.072
Sum Aroclor-1254			10330431	7982783	~~20892.397~~	~~24646.437~~
Average Aroclor-1254					~~4178.479~~ 3475.647	~~4929.287~~ 3886.501

NOT OK PRD 6/1/98

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

604A

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0873A.D\ECD1A.CH Vial: 22
Signal #2 : E:\WESTDA~1\BA0873A.D\ECD2B.CH
Acq On : 12 Dec 97 00:46 Operator:
Sample : 278231 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.19	5.95	374666	253676	40.275	41.980
Spiked Amount 40.000 Range 43 - 150 Recovery =					100.69%	104.95%
2) SA Decachlorobiphen	29.13	24.45	536440	377939	35.521	45.493 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					88.80%	113.73%
Target Compounds						

604B 7-5-98

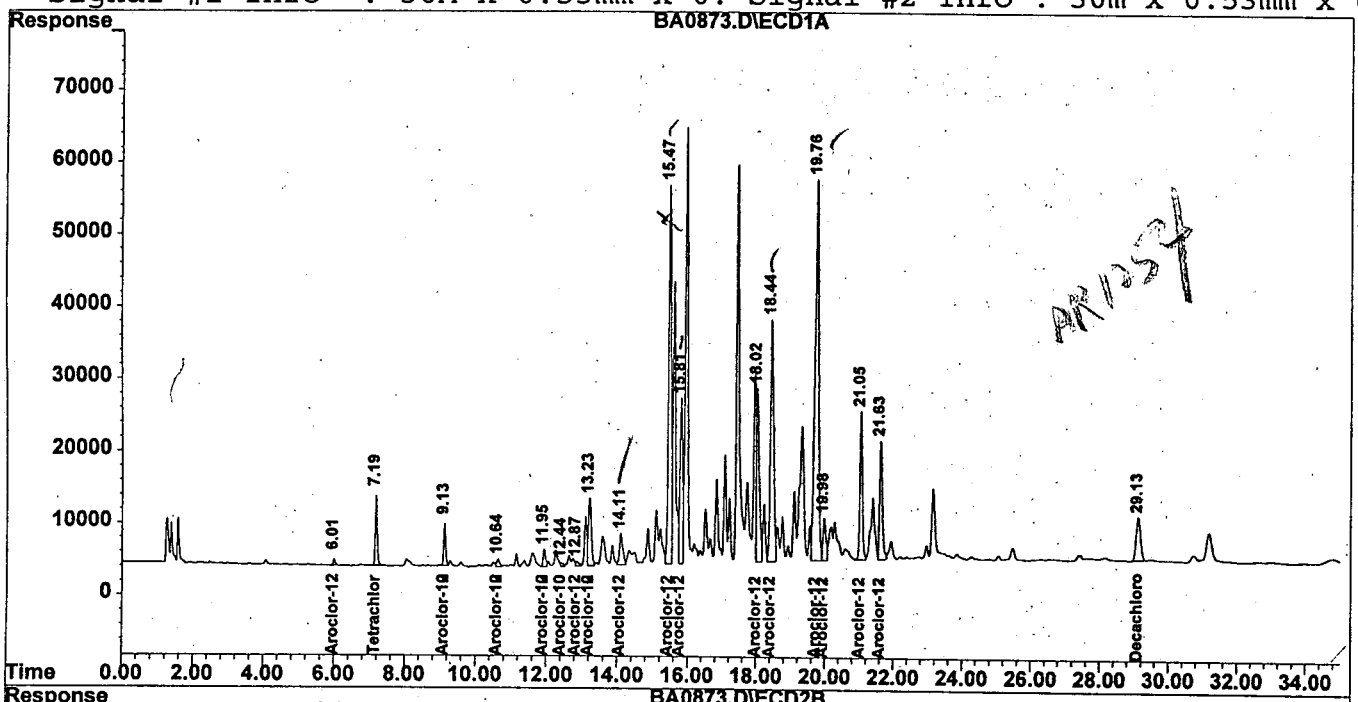
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

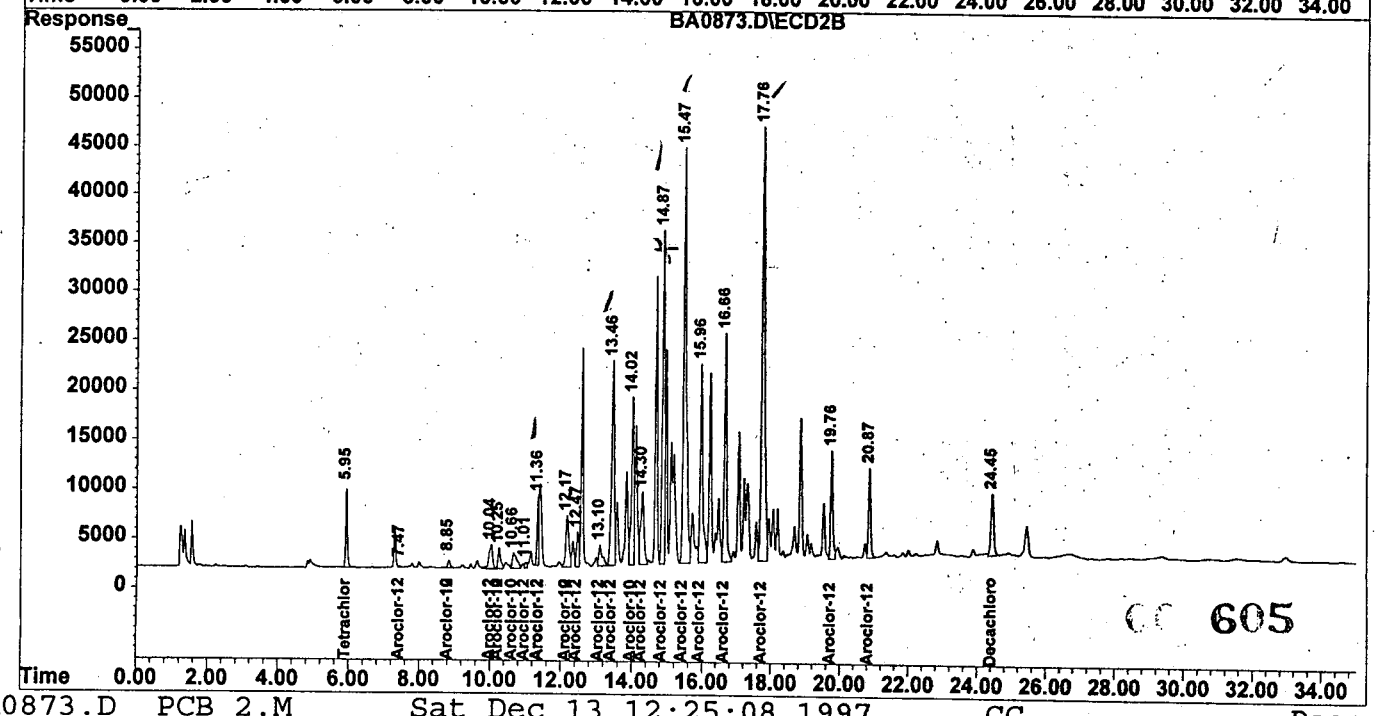
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0873.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_B\BA0873.D\ECD2B.CH
Acq On : 12 Dec 97 00:46 Operator:
Sample : 278231 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 13 12:05 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





AR1254

CC 605

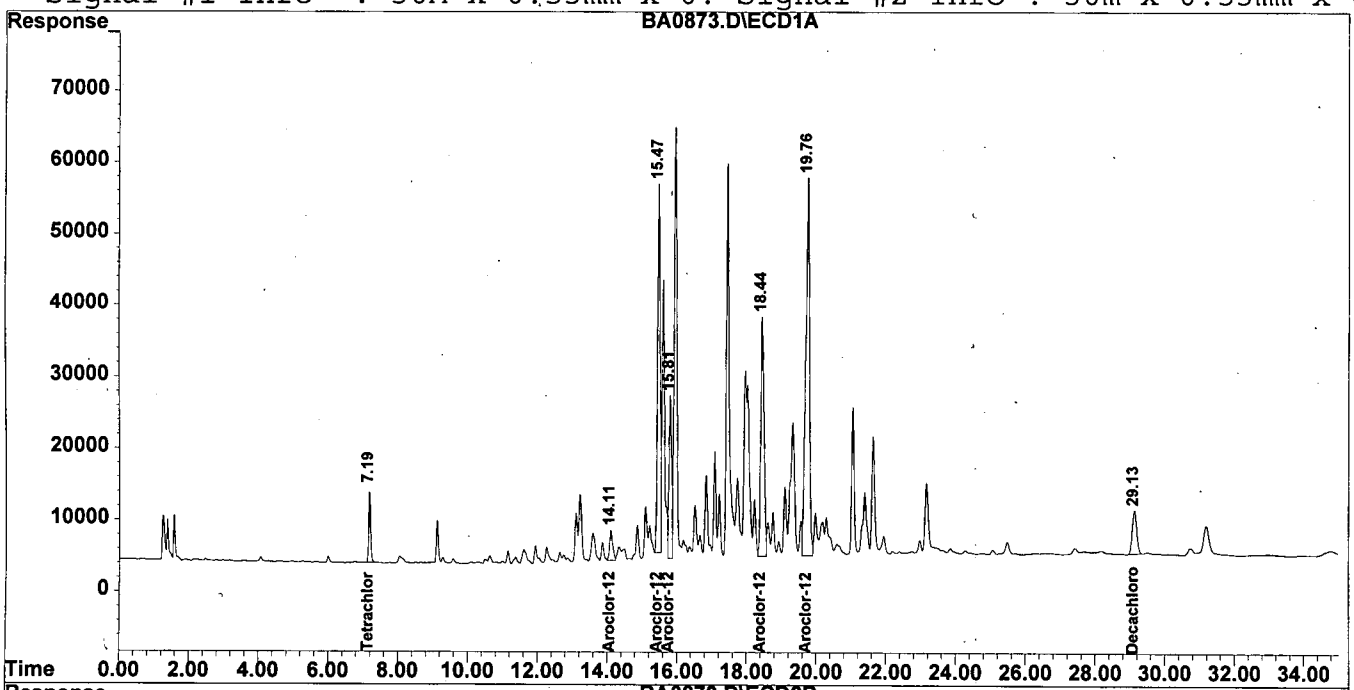
Quantitation Report

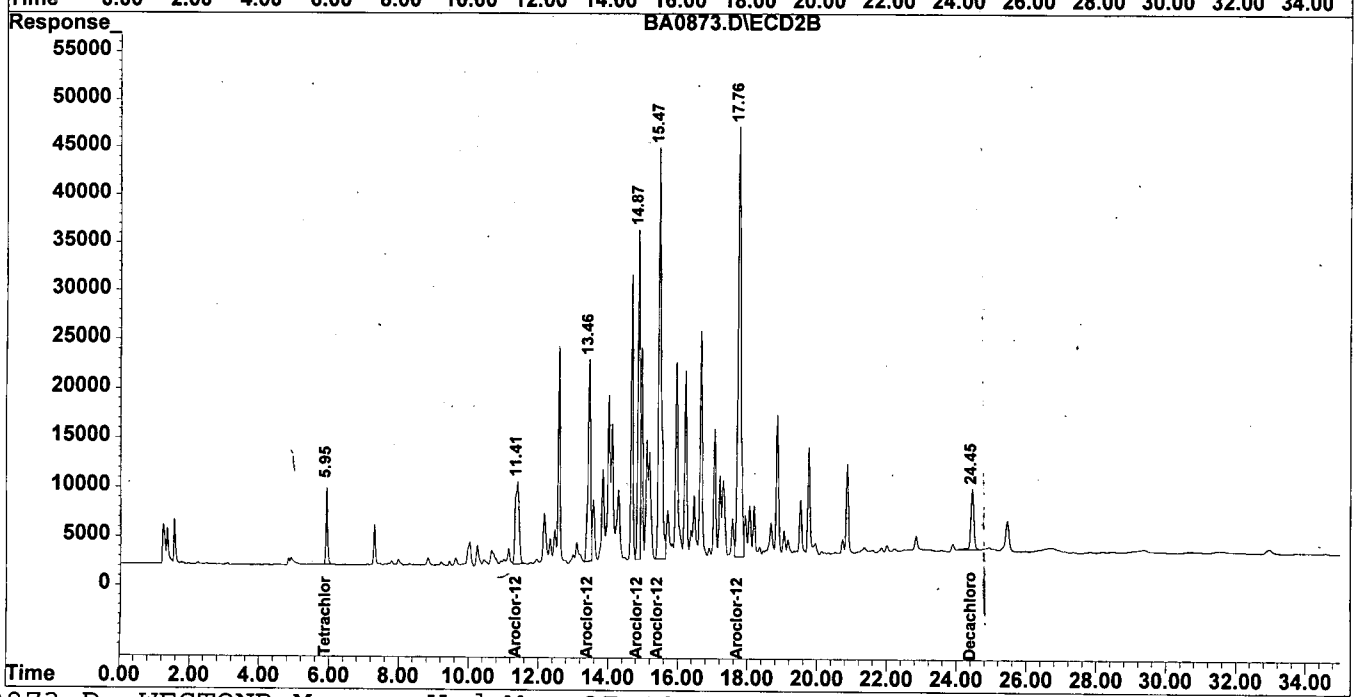
AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0873.D\ECD1A.CH Vial: 22
Signal #2 : E:\WESTDA~1\BA0873.D\ECD2B.CH
Acq On : 12 Dec 97 00:46 Operator:
Sample : 278231 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 27 19:40 1998 Quant Results File: WESTONB.RES

Quant Method : H:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:34:29 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





605A

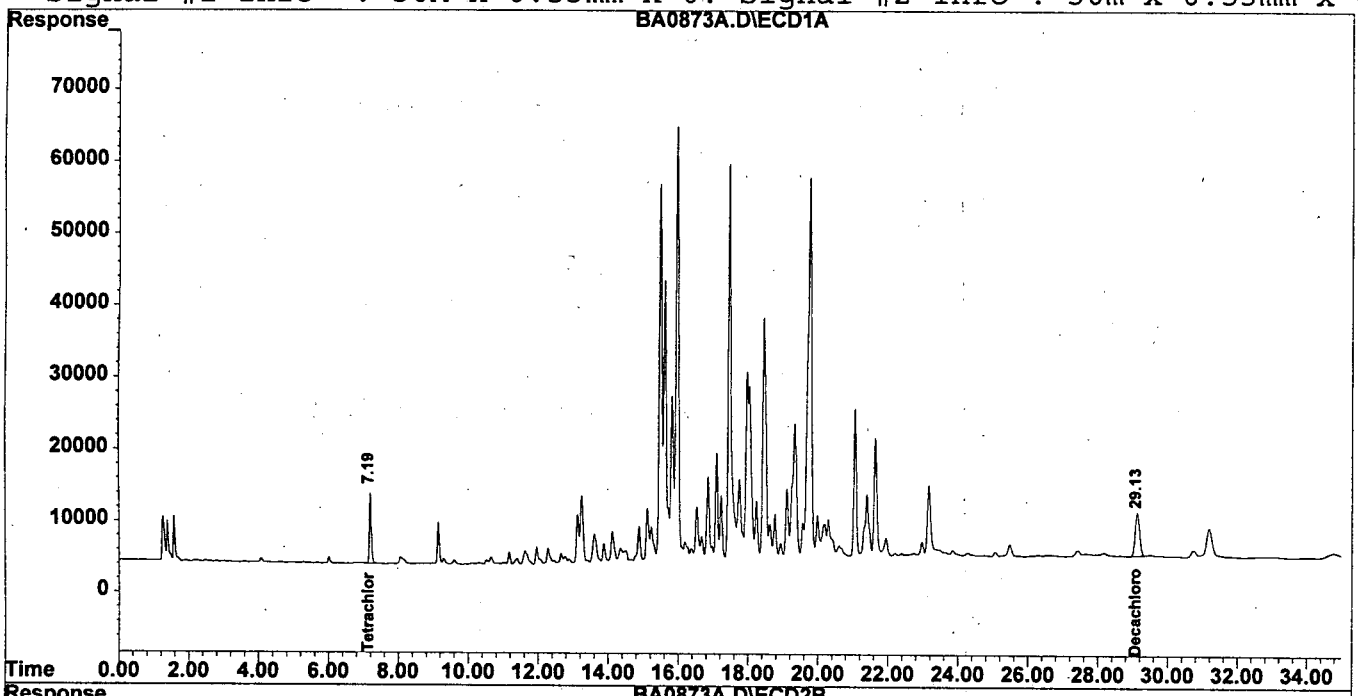
Quantitation Report

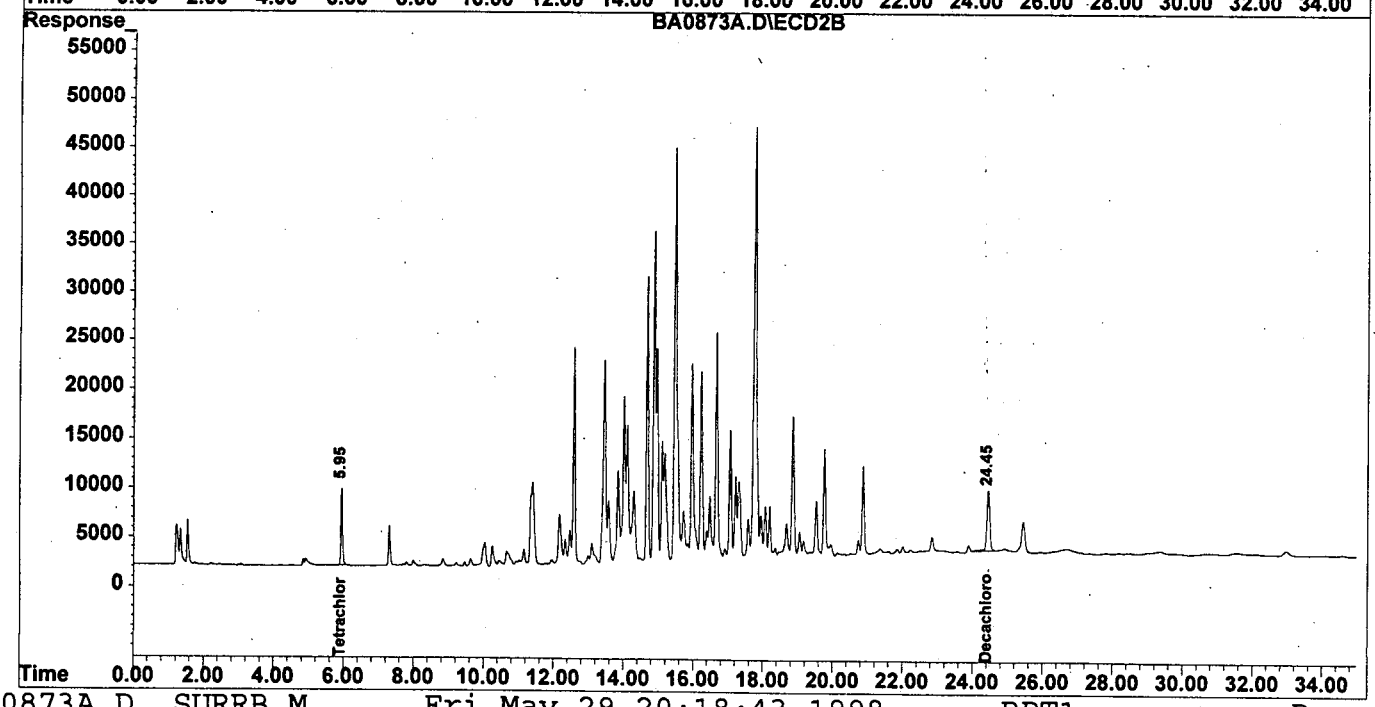
AMENDED REPORT MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0873A.D\ECD1A.CH Vial: 22
Signal #2 : E:\WESTDA~1\BA0873A.D\ECD2B.CH
Acq On : 12 Dec 97 00:46 Operator:
Sample : 278231 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:14 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





605B

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
MAY 26, 1998

AMENDED REPORT MAY 28 1998

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278232
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPND2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7395	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	46.77%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	630	310
Aroclor-1221	U	U	1200	880
Aroclor-1232	U	U	630	500
Aroclor-1242	U	U	630	310
Aroclor-1248	U	U	630	380
Aroclor-1254	~~11000~~ 6400	U	630	440
Aroclor-1260	U	U	630	500

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1998.
All rights reserved.
LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0899.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA_B\BA0899.D\ECD2B.CH
Acq On : 13 Dec 97 23:14 Operator:
Sample : 278232 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:05 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	7.13	5.94	38769	27743	4.280m	4.283	
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.70%#	10.71%#	
2) SA Decachlorobiphen	29.10	24.43	64475	40322	4.284	4.521	
Spiked Amount 40.000 Range 24 - 154 Recovery =					10.71%#	11.30%#	
Target Compounds							
3) L1 Aroclor-1016{1}	0.00	8.84	0	6778	N.D.	23.292	#
4) L1 Aroclor-1016{2}	10.58	10.25	13081	29016	27.743	51.258	#
5) L1 Aroclor-1016{3}	11.89	10.65	23887	14939	29.040	55.754	#
6) L1 Aroclor-1016{4}	0.00	12.17	0	111004	N.D.	432.697	#
7) L1 Aroclor-1016{5}	13.18	14.01	129417	258153	396.341	1750.431	#
Sum Aroclor-1016			166384	419891	453.125	2313.431	
Average Aroclor-1016					151.042	462.686	
					NP	NP	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
11) L3 Aroclor-1232{1}	0.00	8.84	0	6778	N.D.	46.837	#
12) L3 Aroclor-1232{2}	0.00	10.04	0	118903	N.D.	2846.230	#
13) L3 Aroclor-1232{3}	10.58	11.40	13081	109215	60.266	1311.085	#
14) L3 Aroclor-1232{4}	11.89	13.10	23887	46853	68.047	828.160	#
Sum Aroclor-1232			36967	281749	128.312	5032.312	
Average Aroclor-1232					64.156	1258.078	
					NP	NP	
15) L4 Aroclor-1242{1}	0.00	8.84	0	6778	N.D.	27.125	#
16) L4 Aroclor-1242{2}	10.58	10.04	13081	118903	35.673	1549.160	#
17) L4 Aroclor-1242{3}	11.32	0.00	22249	0	200.687	N.D.	#
18) L4 Aroclor-1242{4}	0.00	12.17	0	111004	N.D.	479.682	#
19) L4 Aroclor-1242{5}	14.06	14.24	70536	298303	194.105	3337.651	#
Sum Aroclor-1242			105865	534988	430.464	5393.618	
Average Aroclor-1242					143.488	1348.404	
					NP	NP	
20) L5 Aroclor-1248{1}	10.58	10.25	13081	29016	67.427	69.666	
21) L5 Aroclor-1248{2}	12.00	12.17	14568	111004	26.039	327.560	#
22) L5 Aroclor-1248{3}	13.18	12.46	129417	69426	313.118	219.329	#

JRS 12/19/97 NP NP

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0899.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA_B\BA0899.D\ECD2B.CH
Acq On : 13 Dec 97 23:14 Operator:
Sample : 278232 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:05 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
23) L5	Aroclor-1248{4}	14.06	13.45	70536	397066	142.113	1475.648	#
24) L5	Aroclor-1248{5}	16.16	15.46	39393	600954	104.486	4771.283	#
Sum	Aroclor-1248			266994	1207466	653.182	6863.486	
Average	Aroclor-1248					130.636	1372.697	
25) L6	Aroclor-1254{1}	14.06	11.34	70536	76509	519.662	347.029	#
26) L6	Aroclor-1254{2}	~~15.43~~	13.45	1761684	397066	~~4778.354~~	948.162	#
27) L6	Aroclor-1254{3}	15.77	~~14.86~~	431658	839636	936.668	~~5616.712~~	#
28) L6	Aroclor-1254{4}	18.42	15.46	810660	600954	2000.186	1236.709	#
29) L6	Aroclor-1254{5}	19.73	17.75	1028107	811861	1191.311	1786.517	#
Sum	Aroclor-1254			4102646	2726025	9426.181	9935.129	
Average	Aroclor-1254					1885.236	1987.026	
30) L7	Aroclor-1260{1}	18.00	15.95	467074	305821	897.457	897.292	
31) L7	Aroclor-1260{2}	18.42	16.65	810660	336762	1316.975	828.350	#
32) L7	Aroclor-1260{3}	19.95	17.75	103915	811861	227.740	1574.163	#
33) L7	Aroclor-1260{4}	21.03	19.76	264988	133174	568.715	212.687	#
34) L7	Aroclor-1260{5}	21.61	20.86	251169	103773	194.837	219.700	
Sum	Aroclor-1260			1897807	1691391	3205.723	3732.191	
Average	Aroclor-1260					641.145	746.438	

608

12/19/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0899.D\ECD1A.CH Vial: 10
Signal #2 : E:\WESTDA~1\BA0899.D\ECD2B.CH
Acq On : 13 Dec 97 23:14 Operator:
Sample : 278232 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:40 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13	5.94	38239	27493	2.041	2.149
Spiked Amount 40.000 Range 43 - 150 Recovery =					5.10%#	5.37%#
2) SA Decachlorobiphen	29.10	24.43	64667	40160	2.932	4.323 #
Spiked Amount 40.000 Range 24 - 154 Recovery =					7.33%#	10.81%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.06	11.34	74592	73668	549.730m	331.564 #
4) L6 Aroclor-1254{2}	~~15.43~~	13.45	1761684	386105	~~4592.720~~	921.254 #
5) L6 Aroclor-1254{3}	15.77	~~14.86~~	431658	823896	820.076	~~5495.179~~ #
6) L6 Aroclor-1254{4}	18.42	15.46	810660	581589	1890.621	1169.399 #
7) L6 Aroclor-1254{5}	19.73	17.75	1028107	797549	1183.863	1664.440 #
Sum Aroclor-1254			4106702	2662807	~~9037.011~~	9581.836
Average Aroclor-1254					~~1807.402~~ 1111.07	~~1916.367~~ 1021.66

608A

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 30 1998

Signal #1 : E:\WESTDA~1\BA0899A.D\ECD1A.CH Vial: 10
Signal #2 : E:\WESTDA~1\BA0899A.D\ECD2B.CH
Acq On : 13 Dec 97 23:14 Operator:
Sample : 278232 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:33 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Initial Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	7.13f	5.94	37397	27493	4.020m	4.550
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.05%#	11.38%#
2) SA Decachlorobiphen	29.10	24.43	64667	40160	4.282	4.834
Spiked Amount 40.000 Range 24 - 154 Recovery =					10.71%#	12.09%#

Target Compounds

608B

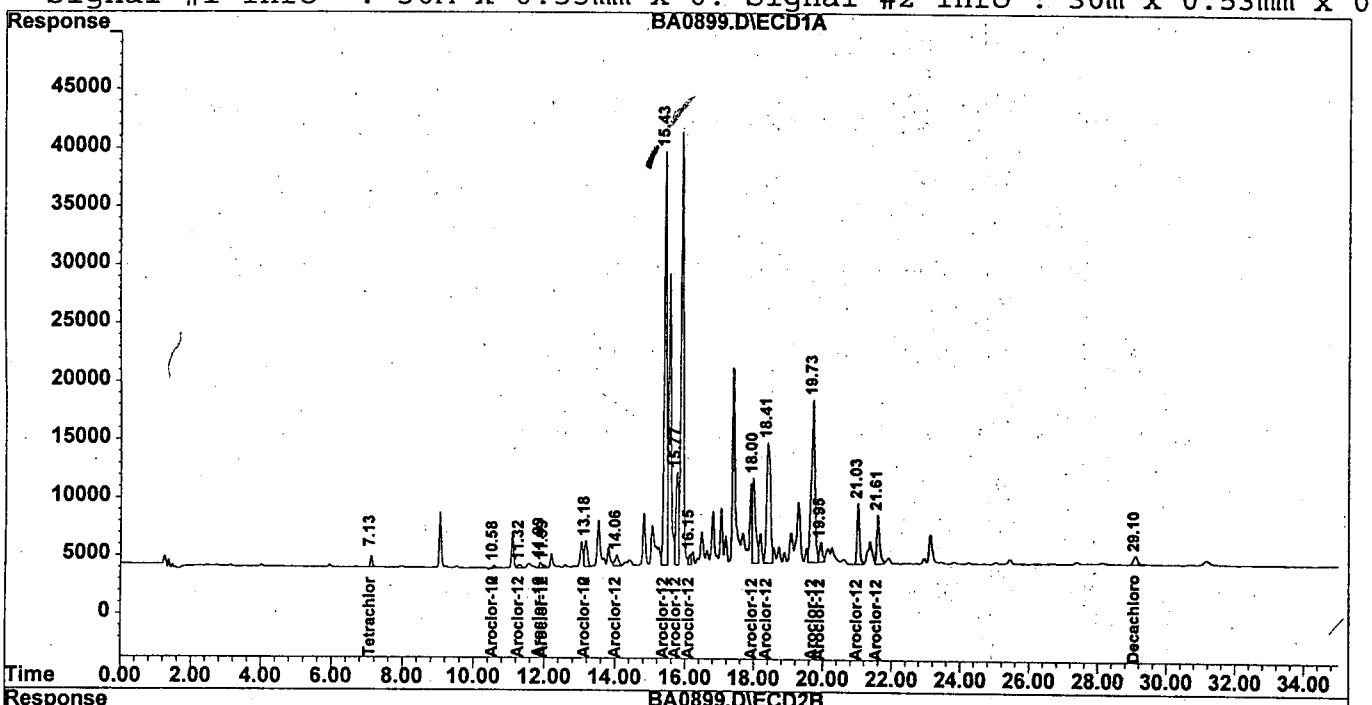
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

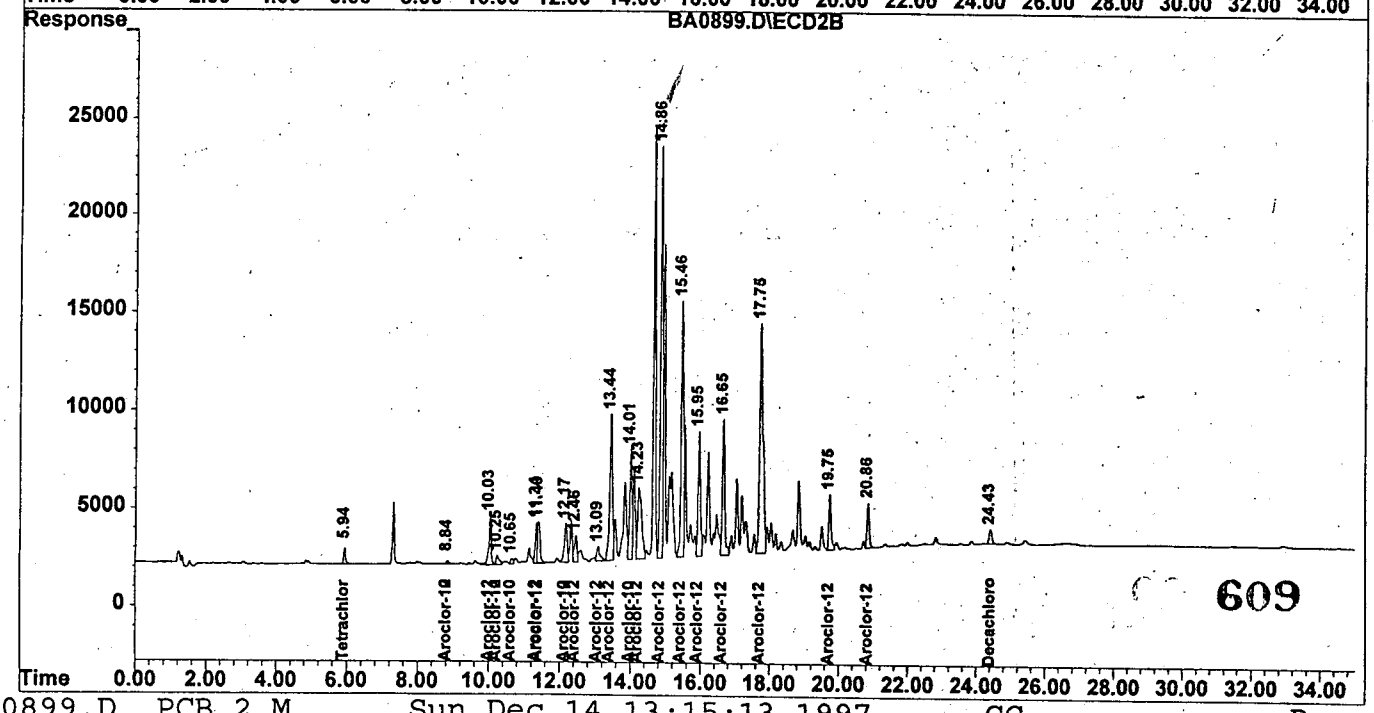
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0899.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA_B\BA0899.D\ECD2B.CH
Acq On : 13 Dec 97 23:14 Operator:
Sample : 278232 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:05 1997 Quant Results File: PCB_2.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB_2.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Mon Dec 01 08:43:08 1997
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





609

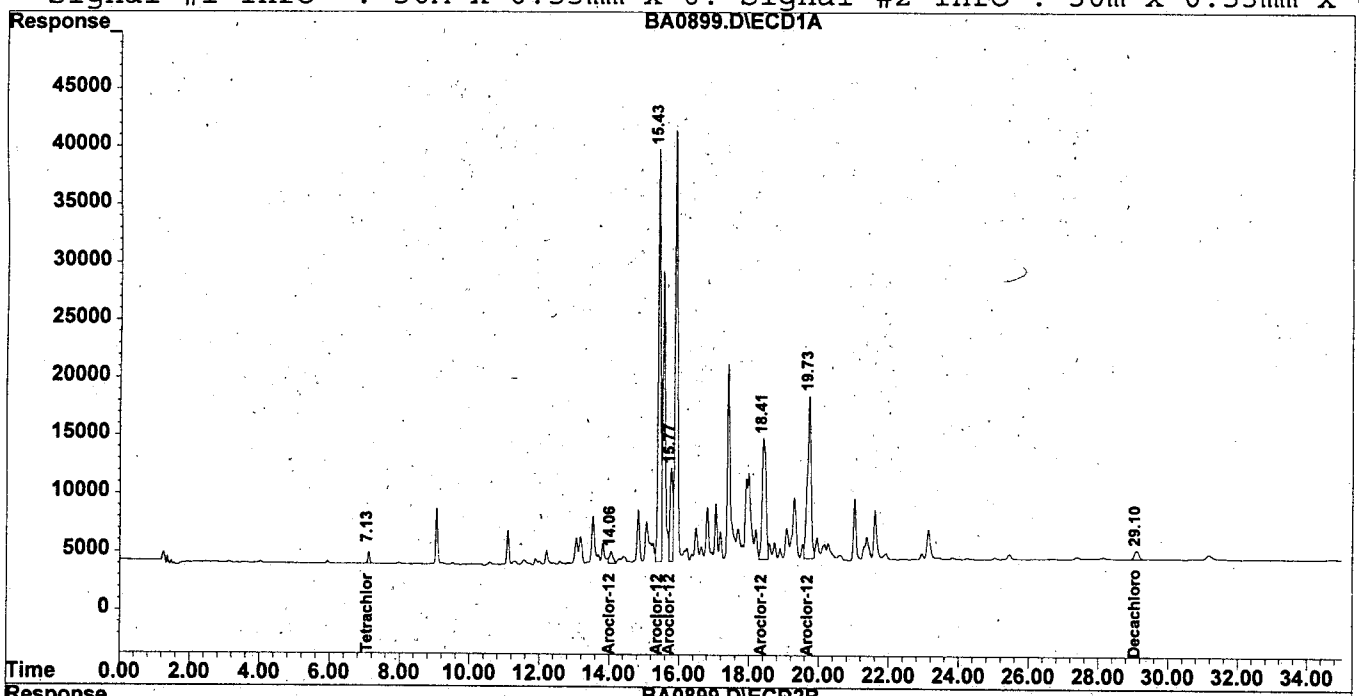
Quantitation Report

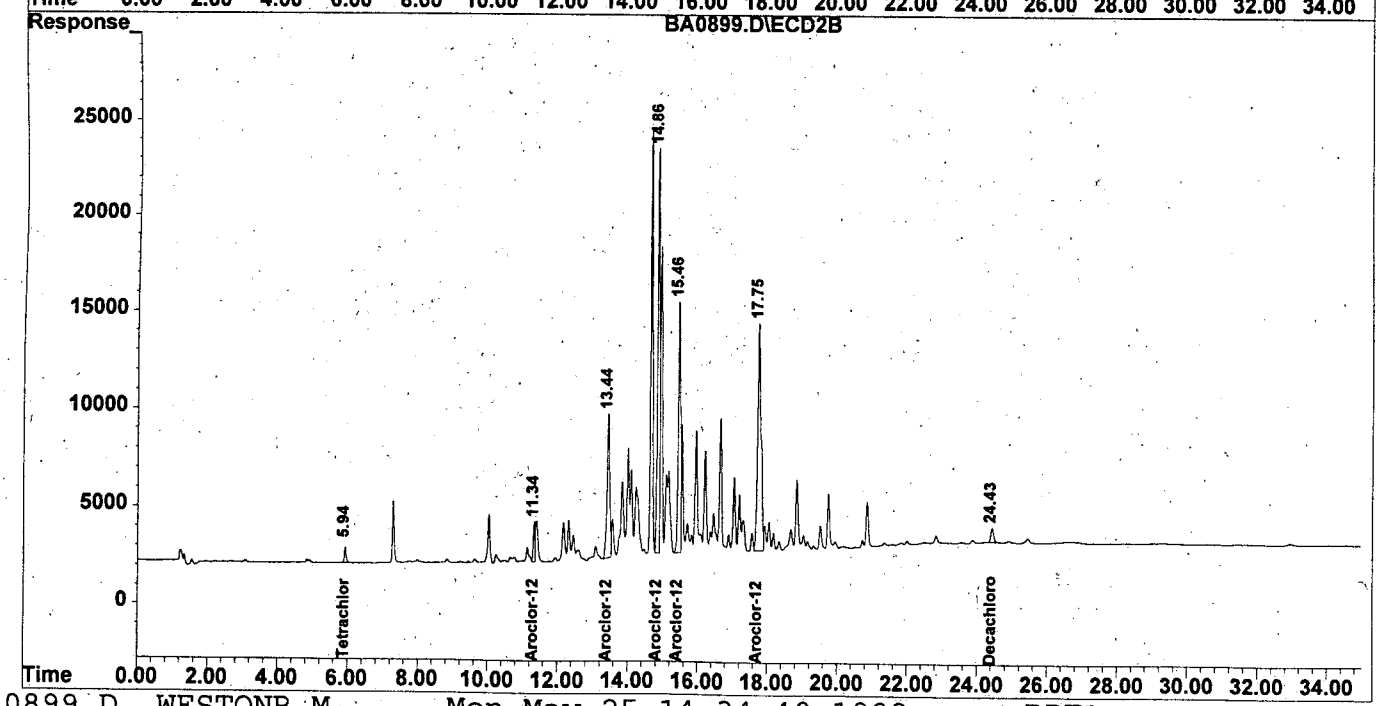
AMENDED REPORT MAY 2 8 1998

Signal #1 : E:\WESTDA~1\BA0899.D\ECD1A.CH Vial: 10
Signal #2 : E:\WESTDA~1\BA0899.D\ECD2B.CH
Acq On : 13 Dec 97 23:14 Operator:
Sample : 278232 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 20 14:40 1998 Quant Results File: WESTONB.RES

Quant Method : D:\1\METHODS\WESTONB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Fri May 22 10:41:21 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





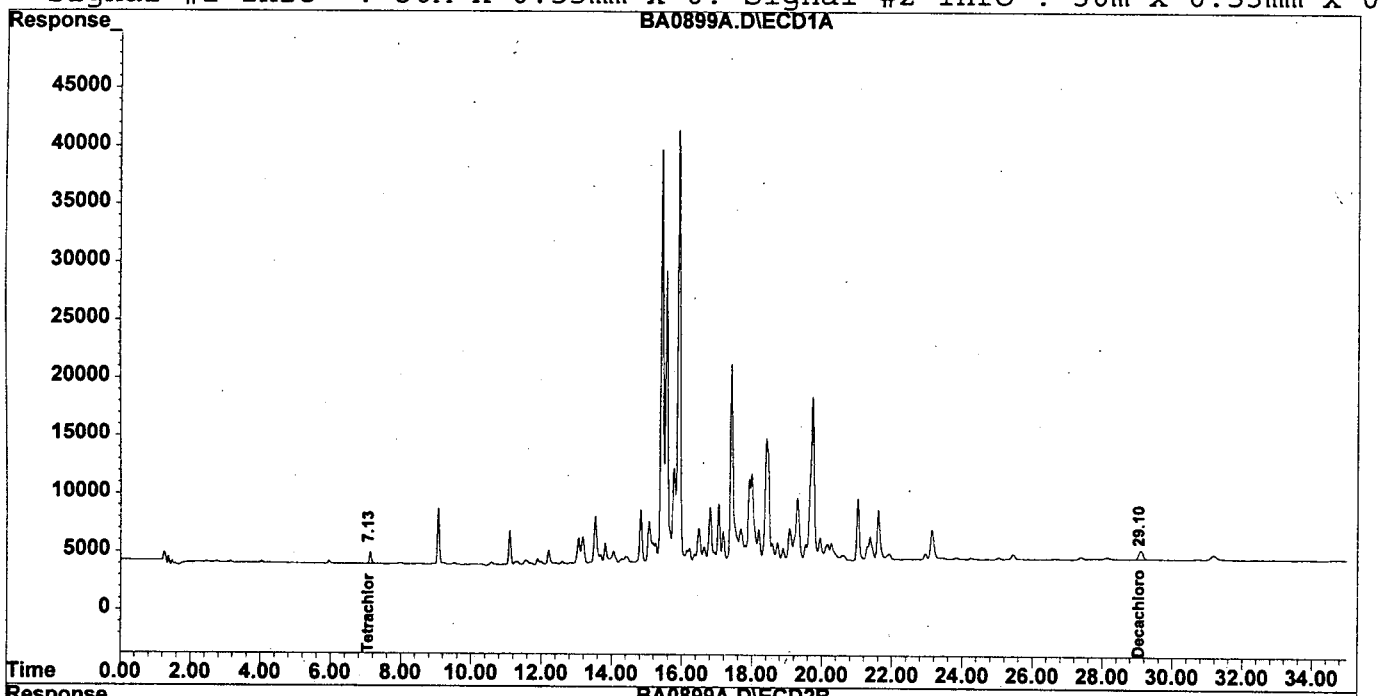
609A

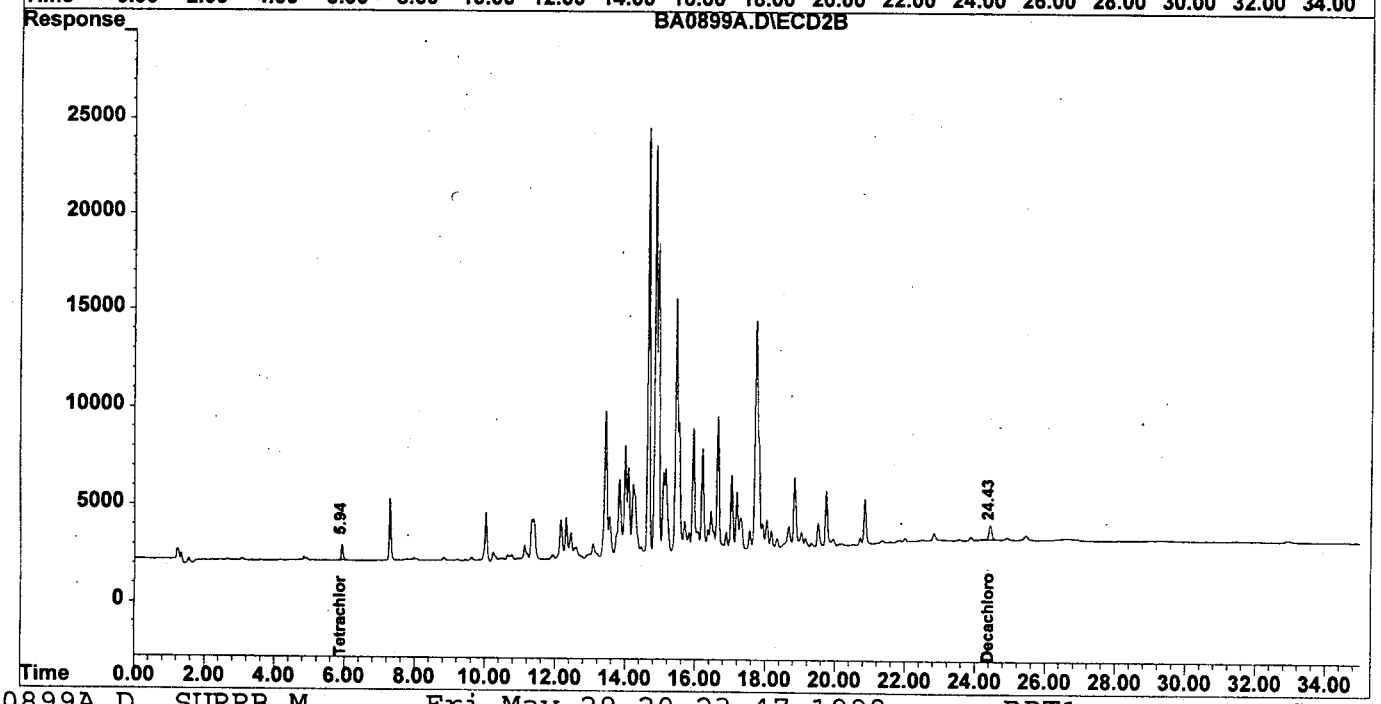
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : E:\WESTDA~1\BA0899A.D\ECD1A.CH Vial: 10
Signal #2 : E:\WESTDA~1\BA0899A.D\ECD2B.CH
Acq On : 13 Dec 97 23:14 Operator:
Sample : 278232 1:10 Inst : GC_5890_2
Misc : QPC7395 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 29 19:33 1998 Quant Results File: SURRB.RES

Quant Method : H:\1\METHODS\SURRB.M (Chemstation Integrator)
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:33:23 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.5µm





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 16, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278233
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQNS1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7396	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	31.52%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	240	120
Aroclor-1221	U	U	490	340
Aroclor-1232	U	U	240	190
Aroclor-1242	U	U	240	120
Aroclor-1248	U	U	240	150
Aroclor-1254	4100	U	240	170
Aroclor-1260	U	U	240	190

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1997.
All rights reserved.
NEE

ICM Laboratories Quantitation Report AMENDED REPORT (QT Reviewed) JUN 0 4 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1754.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA_E\EA1754.D\ECD2B.CH
Acq On : 13 Dec 97 17:25 Operator:
Sample : 278233 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:12 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.27	5.09	118534	194065	8.616	9.758
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.54%#	24.40%#
2) SA Decachlorobiphen	25.93	21.45	190895	202822	8.205m	9.334
Spiked Amount 40.000 Range 24 - 154 Recovery =					20.51%#	23.34%#
Target Compounds						
3) L1 Aroclor-1016{1}	8.02	0.00	67742	0	203.553	N.D. #
4) L1 Aroclor-1016{2}	9.39	7.60	31518	61446	46.488	70.558 #
5) L1 Aroclor-1016{3}	10.59	8.86	81075	211546	63.488	113.990 #
6) L1 Aroclor-1016{4}	0.00	9.21	0	327693	N.D.	388.524 #
7) L1 Aroclor-1016{5}	12.58	10.57	300832	596980	460.824	708.632 #
Sum Aroclor-1016			481167	1197666	774.352	1281.704
Average Aroclor-1016					193.588	320.426
8) L2 Aroclor-1221{1}	5.22	0.00	16565	0	127.751	N.D. #
11) L2 Aroclor-1221{4}	8.02	8.86	67742	211546	166.080	1540.218 #
Sum Aroclor-1221			84307	211546	293.831	1540.218
Average Aroclor-1221					146.915	1540.218
12) L3 Aroclor-1232{1}	8.02	0.00	67742	0	233.760	N.D. #
13) L3 Aroclor-1232{2}	9.39	7.60	31518	61446	101.490	167.399 #
14) L3 Aroclor-1232{3}	10.59	8.86	81075	211546	159.419	281.161 #
15) L3 Aroclor-1232{4}	12.58	9.21	300832	327693	953.810	971.342
16) L3 Aroclor-1232{5}	13.50	10.57	265306	596980	1169.573	1566.006 #
Sum Aroclor-1232			746473	1197666	2618.052	2985.908
Average Aroclor-1232					523.610	746.477
17) L4 Aroclor-1242{1}	8.02	0.00	67742	0	259.928	N.D. #
18) L4 Aroclor-1242{2}	9.39	7.60	31518	61446	58.627	94.695 #
19) L4 Aroclor-1242{3}	10.59	8.86	81075	211546	83.408	151.669 #
20) L4 Aroclor-1242{4}	0.00	9.21	0	327693	N.D.	535.527 #
21) L4 Aroclor-1242{5}	12.58	10.57	300832	596980	539.833	902.518 #
Sum Aroclor-1242			481167	1197666	941.796	1684.409
Average Aroclor-1242					235.449	421.102

611

12/5/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 30 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1754.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\WESTDA~1\EA1754.D\ECD2B.CH
Acq On : 13 Dec 97 17:25 Operator:
Sample : 278233 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:41 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.27	5.09	118534	204378	8.334	9.439
Spiked Amount 40.000 Range 43 - 150 Recovery =					20.84%#	23.60%#
2) SA Decachlorobiphen	25.93	21.45	208174	202993	8.851	8.898
Spiked Amount 40.000 Range 24 - 154 Recovery =					22.13%#	22.25%#

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

61 1A

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1754.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA_E\EA1754.D\ECD2B.CH
Acq On : 13 Dec 97 17:25 Operator:
Sample : 278233 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:12 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
22) L5	Aroclor-1248{1}	9.39	7.60	31518	61446	109.622	172.618	#
23) L5	Aroclor-1248{2}	10.59	8.86	81075	211546	96.649	174.468	#
24) L5	Aroclor-1248{3}	12.58	10.57	300832	596980	395.551	635.346	#
25) L5	Aroclor-1248{4}	13.50	10.84	265306	323591	373.520	373.075	
26) L5	Aroclor-1248{5}	15.66	13.54	2336020	2994785	7037.023	8461.681	
Sum	Aroclor-1248			3014751	4188349	8012.365	9817.188	
Average	Aroclor-1248					1602.473 ng	1963.438 ng	
27) L6	Aroclor-1254{1}	11.66	9.86	395700	549574	1057.668m	891.609m	
28) L6	Aroclor-1254{2}	13.85	11.72	1237205	1812289	2084.917	1467.225	#
29) L6	Aroclor-1254{3}	15.66	12.24	2359588	1430189	1815.995m	1447.234	
30) L6	Aroclor-1254{4}	16.58	13.54	1369988	2994785	2193.596m	2138.812	
31) L6	Aroclor-1254{5}	17.80	15.62	2564406	3314455	2114.295m	2412.821	
Sum	Aroclor-1254			7926887	10101292	9266.470	8357.700	
Average	Aroclor-1254					1853.294	1671.540	
32) L7	Aroclor-1260{1}	16.13	13.99	2158343	1558238	2221.622	1420.293	#
33) L7	Aroclor-1260{2}	16.58	14.63	1350331	1709426	1145.417	1174.128	
34) L7	Aroclor-1260{3}	18.99	15.62	621760	3314455	749.434	1746.452	#
35) L7	Aroclor-1260{4}	19.53	17.44	545637	612792	284.688	274.818	
36) L7	Aroclor-1260{5}	20.86	18.45	408836	485558	261.632	298.107	
Sum	Aroclor-1260			5084906	7680469	4662.794	4913.797	
Average	Aroclor-1260					932.559	982.759	

612

gmw 12/15/97

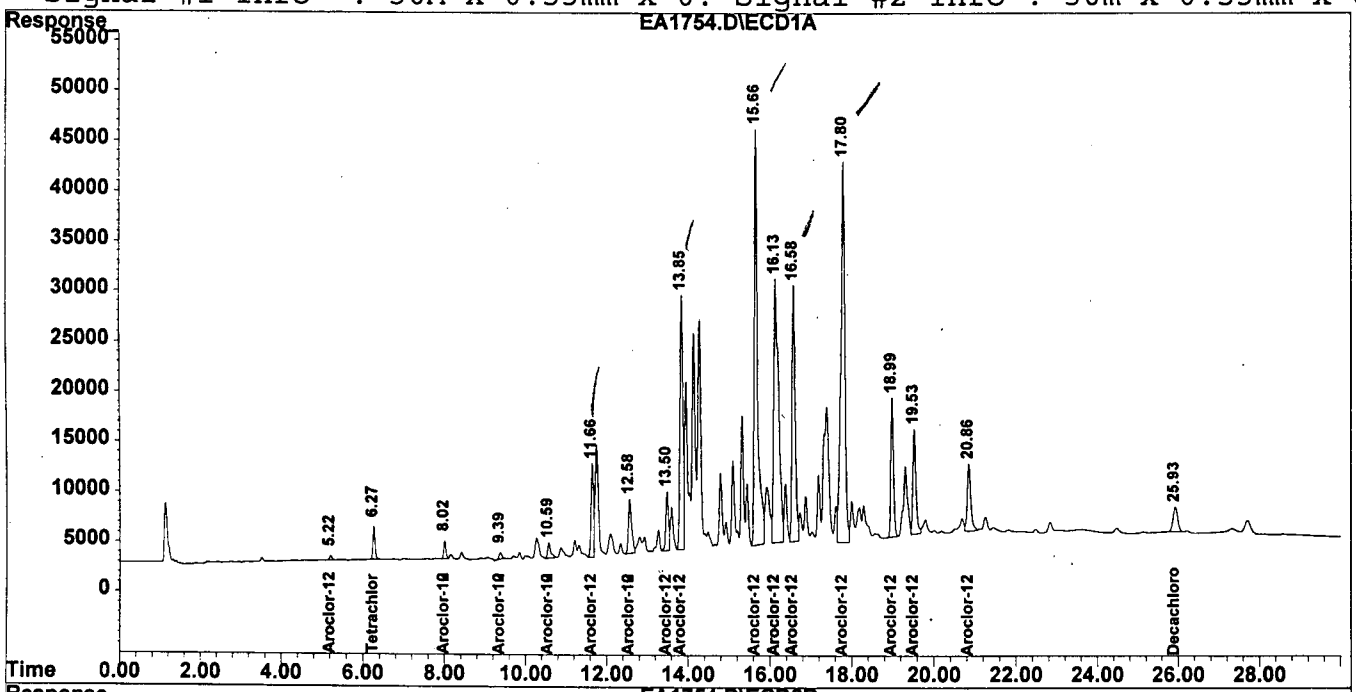
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

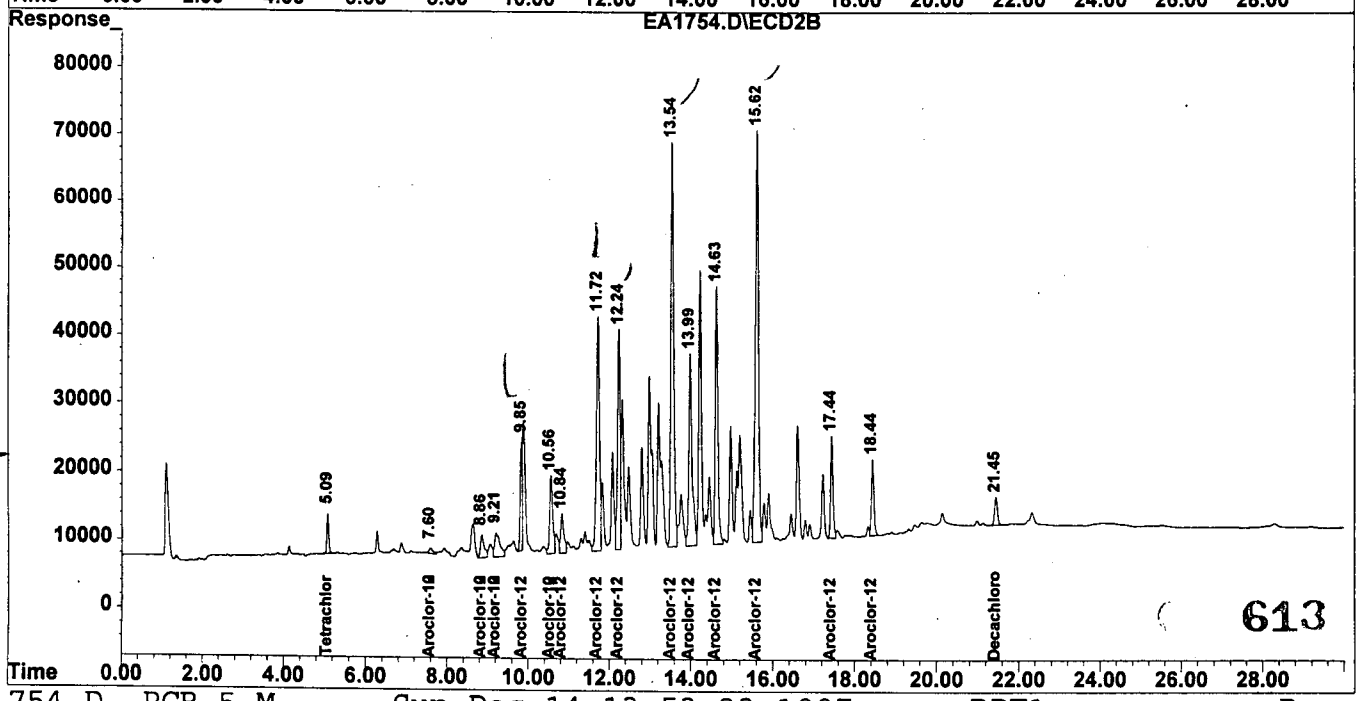
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1754.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA_E\EA1754.D\ECD2B.CH
Acq On : 13 Dec 97 17:25 Operator:
Sample : 278233 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:12 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





613

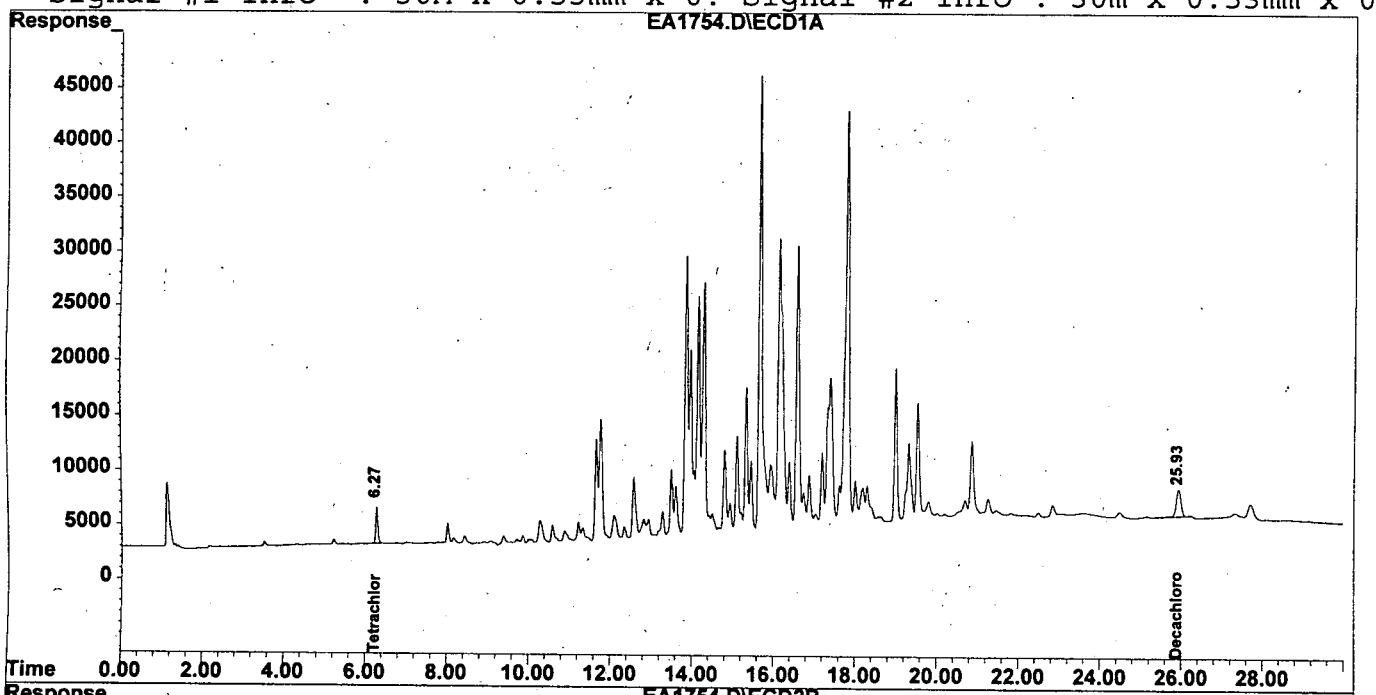
Quantitation Report

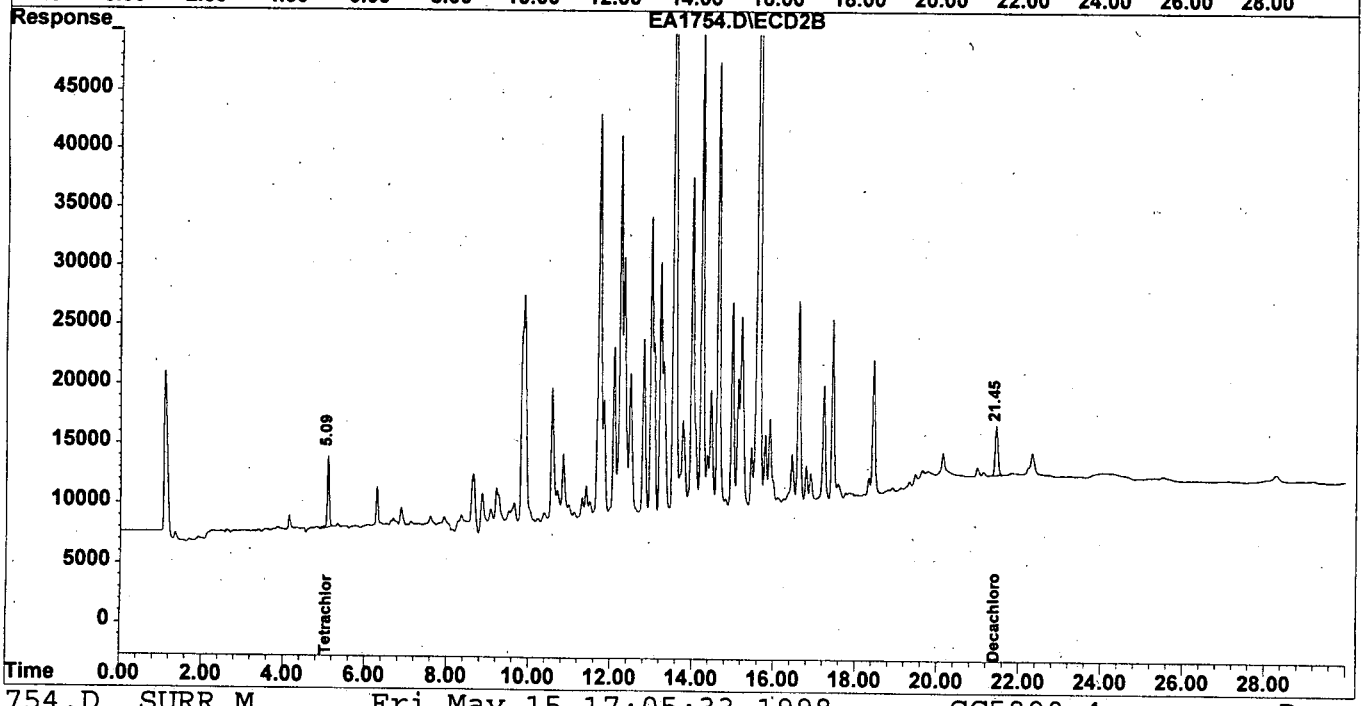
AMENDED REPORT MAY 30 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1754.D\ECD1A.CH Vial: 1
Signal #2 : C:\HPCHEM\WESTDA~1\EA1754.D\ECD2B.CH
Acq On : 13 Dec 97 17:25 Operator:
Sample : 278233 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:41 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





613A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 16, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278234
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQNS2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7396	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	30.15%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	240	120
Aroclor-1221	U	U	480	330
Aroclor-1232	U	U	240	190
Aroclor-1242	U	U	240	120
Aroclor-1248	U	U	240	140
Aroclor-1254	4000	U	240	170
Aroclor-1260	U	U	240	190

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1997.
All rights reserved.
NEE

AMENDED REPORT JUN 0 4 1998

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1755.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_E\EA1755.D\ECD2B.CH
Acq On : 13 Dec 97 17:59 Operator:
Sample : 278234 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:13 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.25	5.09	133186	204948	9.681	10.305
Spiked Amount 40.000 Range 43 - 150 Recovery =					24.20%#	25.76%#
2) SA Decachlorobiphen	25.90	21.44	216569	230351	9.308	10.601
Spiked Amount 40.000 Range 24 - 154 Recovery =					23.27%#	26.50%
Target Compounds						
3) L1 Aroclor-1016{1}	8.00	0.00	61643	0	185.224	N.D. #
4) L1 Aroclor-1016{2}	9.36	7.59	43887	42532	64.732	48.839
5) L1 Aroclor-1016{3}	10.57	8.86	108452	208684	84.927	112.448 #
6) L1 Aroclor-1016{4}	0.00	9.21	0	395799	N.D.	469.273 #
7) L1 Aroclor-1016{5}	12.55	10.56	313668	616379	480.487	731.659 #
Sum Aroclor-1016			527650	1263395	815.369	1362.219
Average Aroclor-1016					203.842 NP	340.555 NP
8) L2 Aroclor-1221{1}	5.21	0.00	12164	0	93.814	N.D. #
11) L2 Aroclor-1221{4}	8.00	8.86	61643	208684	151.125	1519.383 #
Sum Aroclor-1221			73807	208684	244.940	1519.383
Average Aroclor-1221					122.470 NP	1519.383 NP
12) L3 Aroclor-1232{1}	8.00	0.00	61643	0	212.712	N.D. #
13) L3 Aroclor-1232{2}	9.36	7.59	43887	42532	141.320	115.871
14) L3 Aroclor-1232{3}	10.57	8.86	108452	208684	213.251	277.357 #
15) L3 Aroclor-1232{4}	12.55	9.21	313668	395799	994.508	1173.222
16) L3 Aroclor-1232{5}	13.47	10.56	286418	616379	1262.643	1616.893 #
Sum Aroclor-1232			814068	1263395	2824.433	3183.343
Average Aroclor-1232					564.887 NP	795.836 NP
17) L4 Aroclor-1242{1}	8.00	0.00	61643	0	236.524	N.D. #
18) L4 Aroclor-1242{2}	9.36	7.59	43887	42532	81.635	65.546
19) L4 Aroclor-1242{3}	10.57	8.86	108452	208684	111.574	149.617 #
20) L4 Aroclor-1242{4}	0.00	9.21	0	395799	N.D.	646.828 #
21) L4 Aroclor-1242{5}	12.55	10.56	313668	616379	562.866	931.845 #
Sum Aroclor-1242			527650	1263395	992.599	1793.837
Average Aroclor-1242					248.150 NP	448.459 NP

615

MW 12/17/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 30 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1755.D\ECD1A.CH
Signal #2 : C:\HPCHEM\WESTDA~1\EA1755.D\ECD2B.CH
Acq On : 13 Dec 97 17:59 Operator:
Sample : 278234 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:46 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.25	5.08	133186	195260	9.364	9.018m
Spiked Amount 40.000 Range 43 - 150 Recovery =					23.41%#	22.55%#
2) SA Decachlorobiphen	25.90	21.44	228802	255282	9.728	11.190m
Spiked Amount 40.000 Range 24 - 154 Recovery =					24.32%	27.98%

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

6 1 5 BA

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1755.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_E\EA1755.D\ECD2B.CH
Acq On : 13 Dec 97 17:59 Operator:
Sample : 278234 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:13 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
22) L5	Aroclor-1248{1}	9.36	7.59	43887	42532	152.644	119.483
23) L5	Aroclor-1248{2}	10.57	8.86	108452	208684	129.285	172.108 #
24) L5	Aroclor-1248{3}	12.55	10.56	313668	616379	412.428	655.992 #
25) L5	Aroclor-1248{4}	13.47	10.83	286418	305639	403.243	352.378
26) L5	Aroclor-1248{5}	15.63	13.54	2444009	3050347	7362.329	8618.668
Sum	Aroclor-1248			3196434	4223581	8459.930	9918.629
Average	Aroclor-1248					1691.986 NP	1983.726 NP
27) L6	Aroclor-1254{1}	11.63	9.85	403814	559294	1079.356	907.378m
28) L6	Aroclor-1254{2}	13.82	11.71	1295148	1874944	2182.562	1517.950 #
29) L6	Aroclor-1254{3}	15.63	12.23	2444009	1448420	1880.967	1465.682
30) L6	Aroclor-1254{4}	16.55	13.54	1329682	3050347	2129.059	2178.492
31) L6	Aroclor-1254{5}	17.77	15.61	2322504	3235284	1914.852	2355.187
Sum	Aroclor-1254			7795157	10168288	9186.795	8424.689
Average	Aroclor-1254					1837.359	1684.938
32) L7	Aroclor-1260{1}	0.00	13.98	0	1533296	N.D.	1397.559 #
33) L7	Aroclor-1260{2}	16.55	14.62	1329682	1583971	1127.902	1087.959
34) L7	Aroclor-1260{3}	18.96	15.61	605323	3235284	729.622	1704.735 #
35) L7	Aroclor-1260{4}	19.50	17.44	520070	573608	271.348	257.245
36) L7	Aroclor-1260{5}	20.83	18.44	375048	449041	240.010	275.687
Sum	Aroclor-1260			2830122	7375199	2368.882	4723.184
Average	Aroclor-1260					592.220 NP	944.637 NP

616

DMW 12/17/97

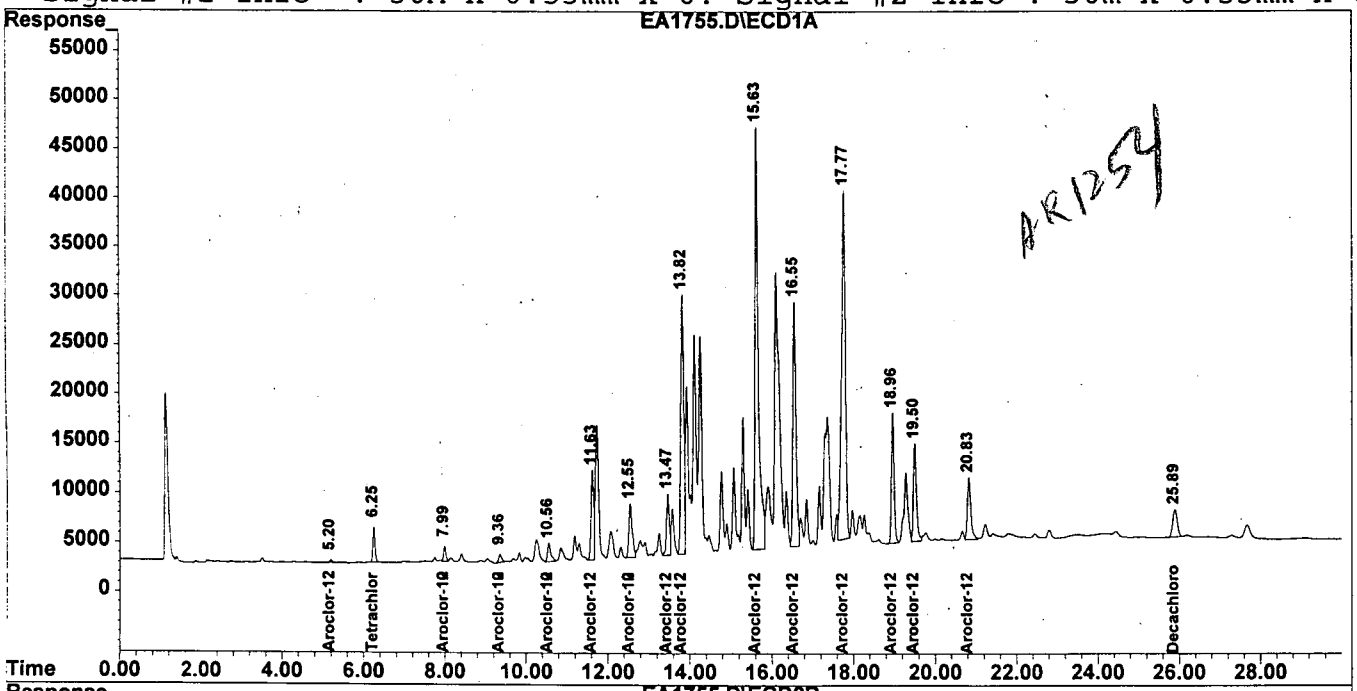
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

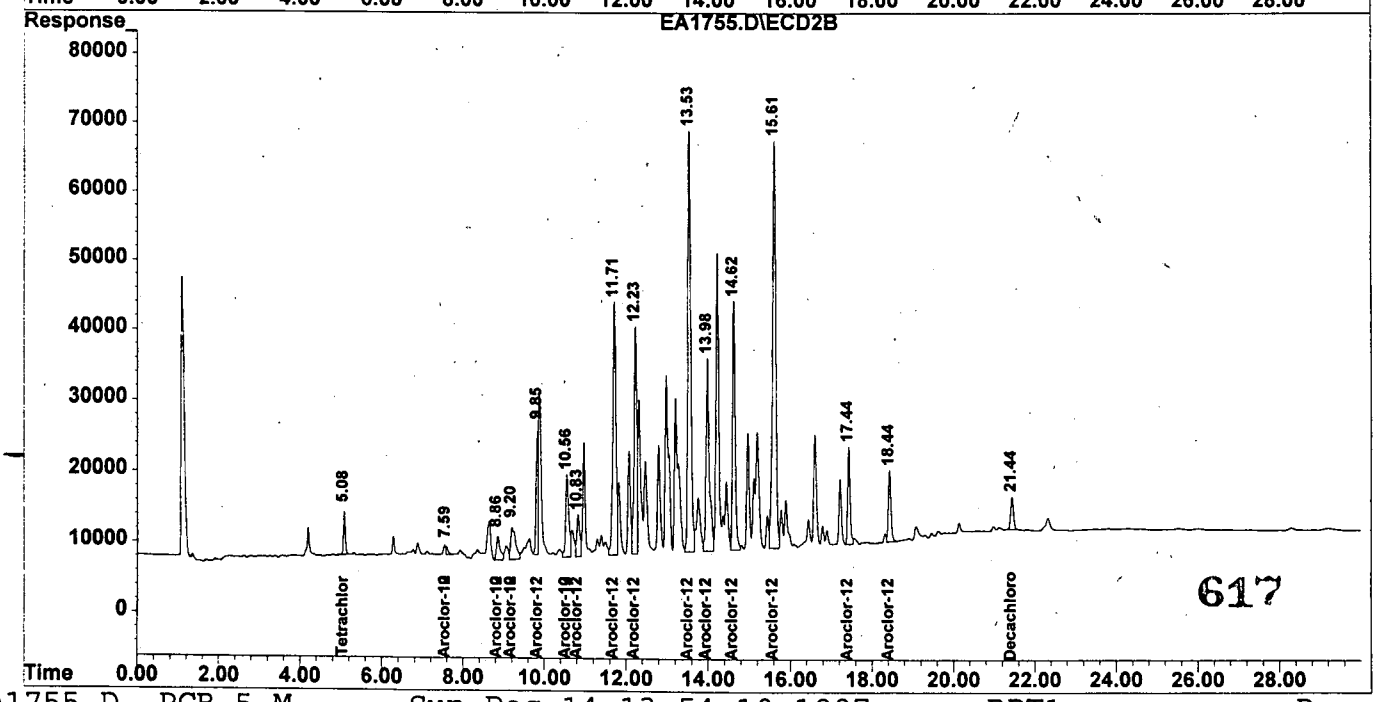
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1755.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA_E\EA1755.D\ECD2B.CH
Acq On : 13 Dec 97 17:59 Operator:
Sample : 278234 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:13 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





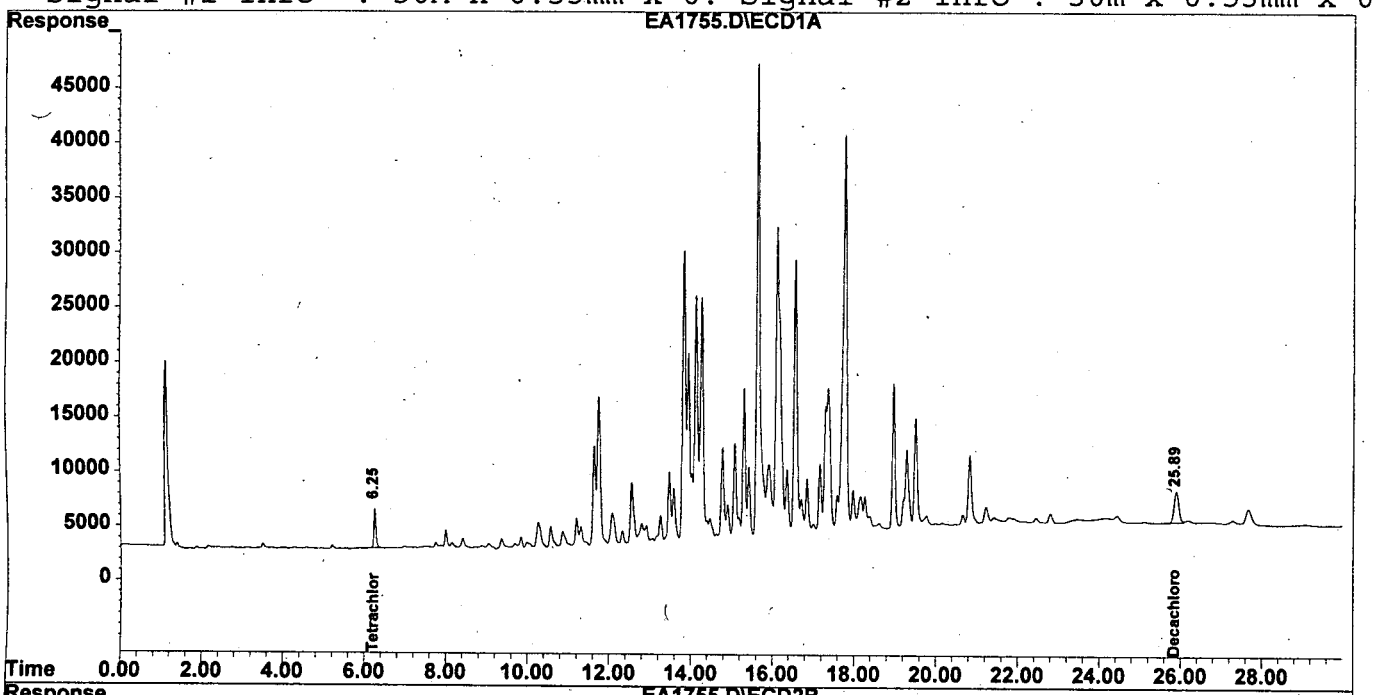
Quantitation Report

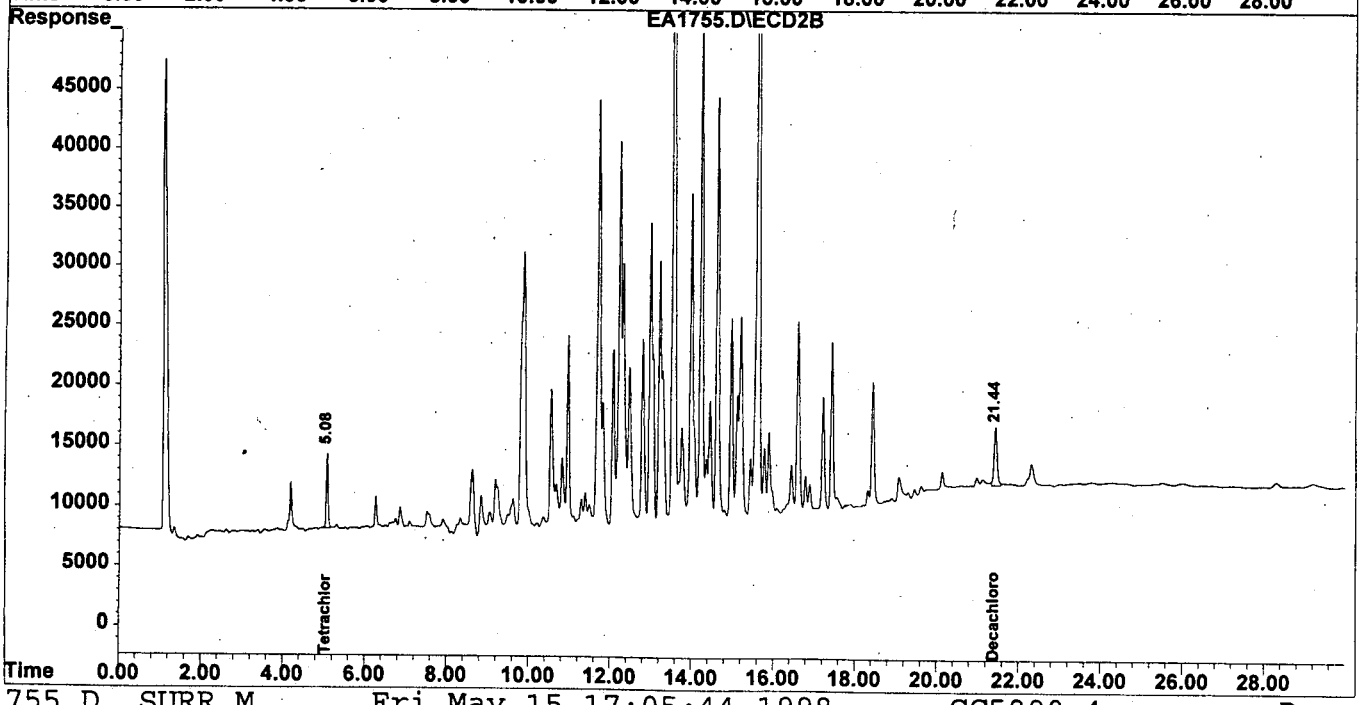
AMENDED REPORT MAY 3 0 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1755.D\ECD1A.CH Vial: 2
Signal #2 : C:\HPCHEM\WESTDA~1\EA1755.D\ECD2B.CH
Acq On : 13 Dec 97 17:59 Operator:
Sample : 278234 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:46 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





617A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 16, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278235
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQNS3
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7396	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	30.54%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	240	120
Aroclor-1221	U	U	480	340
Aroclor-1232	U	U	240	190
Aroclor-1242	U	U	240	120
Aroclor-1248	U	U	240	140
Aroclor-1254	4100	U	240	170
Aroclor-1260	U	U	240	190

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1997.
All rights reserved.
NEE

AMENDED REPORT JUN 0 4 1998
(QT Reviewed)

ICM Laboratories Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1756.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_E\EA1756.D\ECD2B.CH
Acq On : 13 Dec 97 18:33 Operator:
Sample : 278235 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:14 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.25	5.08	131473	198394	9.556	9.975
Spiked Amount 40.000 Range 43 - 150 Recovery =					23.89%#	24.94%#
2) SA Decachlorobiphen	25.89	21.44	201335	212367	8.653	9.773
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.63%#	24.43%
Target Compounds						
3) L1 Aroclor-1016{1}	7.99	0.00	85481	0	256.854	N.D. #
4) L1 Aroclor-1016{2}	9.36	7.60	47674	28200	70.318	32.381 #
5) L1 Aroclor-1016{3}	10.56	8.86	93908	214100	73.537	115.366 #
6) L1 Aroclor-1016{4}	0.00	9.20	0	329671	N.D.	390.869 #
7) L1 Aroclor-1016{5}	12.55	10.56	312151	607818	478.163	721.497 #
Sum Aroclor-1016			539214	1179789	878.872	1260.113
Average Aroclor-1016					219.718 NP	315.028 NP
8) L2 Aroclor-1221{1}	5.20	0.00	15884	0	122.503	N.D. #
11) L2 Aroclor-1221{4}	7.99	8.86	85481	214100	209.568	1558.813 #
Sum Aroclor-1221			101365	214100	332.071	1558.813
Average Aroclor-1221					166.036 NP	1558.813 NP
12) L3 Aroclor-1232{1}	7.99	0.00	85481	0	294.972	N.D. #
13) L3 Aroclor-1232{2}	9.36	7.60	47674	28200	153.515	76.825 #
14) L3 Aroclor-1232{3}	10.56	8.86	93908	214100	184.653	284.555 #
15) L3 Aroclor-1232{4}	12.55	9.20	312151	329671	989.698	977.206
16) L3 Aroclor-1232{5}	13.47	10.56	283125	607818	1248.124	1594.435 #
Sum Aroclor-1232			822339	1179789	2870.961	2933.021
Average Aroclor-1232					574.192 NP	733.255 NP
17) L4 Aroclor-1242{1}	7.99	0.00	85481	0	327.991	N.D. #
18) L4 Aroclor-1242{2}	9.36	7.60	47674	28200	88.680	43.459 #
19) L4 Aroclor-1242{3}	10.56	8.86	93908	214100	96.611	153.500 #
20) L4 Aroclor-1242{4}	0.00	9.20	0	329671	N.D.	538.760 #
21) L4 Aroclor-1242{5}	12.55	10.56	312151	607818	560.144	918.902 #
Sum Aroclor-1242			539214	1179789	1073.426	1654.621
Average Aroclor-1242					268.356 NP	413.655 NP

619

DW 12/15/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed) AMENDED REPORT MAY 30 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1756.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\WESTDA~1\EA1756.D\ECD2B.CH
Acq On : 13 Dec 97 18:33 Operator:
Sample : 278235 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:47 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.25	5.08	131473	199740	9.244	9.225
Spiked Amount 40.000 Range 43 - 150 Recovery =					23.11%#	23.06%#
2) SA Decachlorobiphen	25.89	21.44	200437	245654	8.522	10.768m#
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.31%#	26.92%

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

6 ~~20~~ 19A

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1756.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_E\EA1756.D\ECD2B.CH
Acq On : 13 Dec 97 18:33 Operator:
Sample : 278235 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:14 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
22)	L5 Aroclor-1248{1}	9.36	7.60	47674	28200	165.816	79.220	#
23)	L5 Aroclor-1248{2}	10.56	8.86	93908	214100	111.947	176.574	#
24)	L5 Aroclor-1248{3}	12.55	10.56	312151	607818	410.434	646.880	#
25)	L5 Aroclor-1248{4}	13.47	10.83	283125	326425	398.606	376.343	
26)	L5 Aroclor-1248{5}	15.63	13.53	2465816	3092129	7428.021	8736.723	
	Sum Aroclor-1248			3202674	4268672	8514.824	10015.740	
	Average Aroclor-1248					1702.965 NP	2003.148 NP	
27)	L6 Aroclor-1254{1}	11.63	9.84	382544	515032	1022.502	835.569	m
28)	L6 Aroclor-1254{2}	13.82	11.71	1322723	1870581	2229.030	1514.418	#
29)	L6 Aroclor-1254{3}	15.63	12.23	2465816	1468363	1897.750	1485.862	
30)	L6 Aroclor-1254{4}	16.55	13.53	1420081	3092129	2273.804	2208.332	
31)	L6 Aroclor-1254{5}	17.77	15.61	2600878	3409093	2144.365	2481.715	
	Sum Aroclor-1254			8192042	10355198	9567.451	8525.897	
	Average Aroclor-1254					1913.490	1705.179	
32)	L7 Aroclor-1260{1}	0.00	13.98	0	1618260	N.D.	1475.001	#
33)	L7 Aroclor-1260{2}	16.55	14.62	1420081	1715065	1204.583	1178.001	
34)	L7 Aroclor-1260{3}	18.96	15.61	673545	3409093	811.853	1796.319	#
35)	L7 Aroclor-1260{4}	19.50	17.44	583616	633984	304.504	284.322	
36)	L7 Aroclor-1260{5}	20.83	18.44	403345	504325	258.119	309.629	
	Sum Aroclor-1260			3080588	7880727	2579.059	5043.271	
	Average Aroclor-1260					644.765 NP	1008.654 NP	

MAW 12/15/97 620

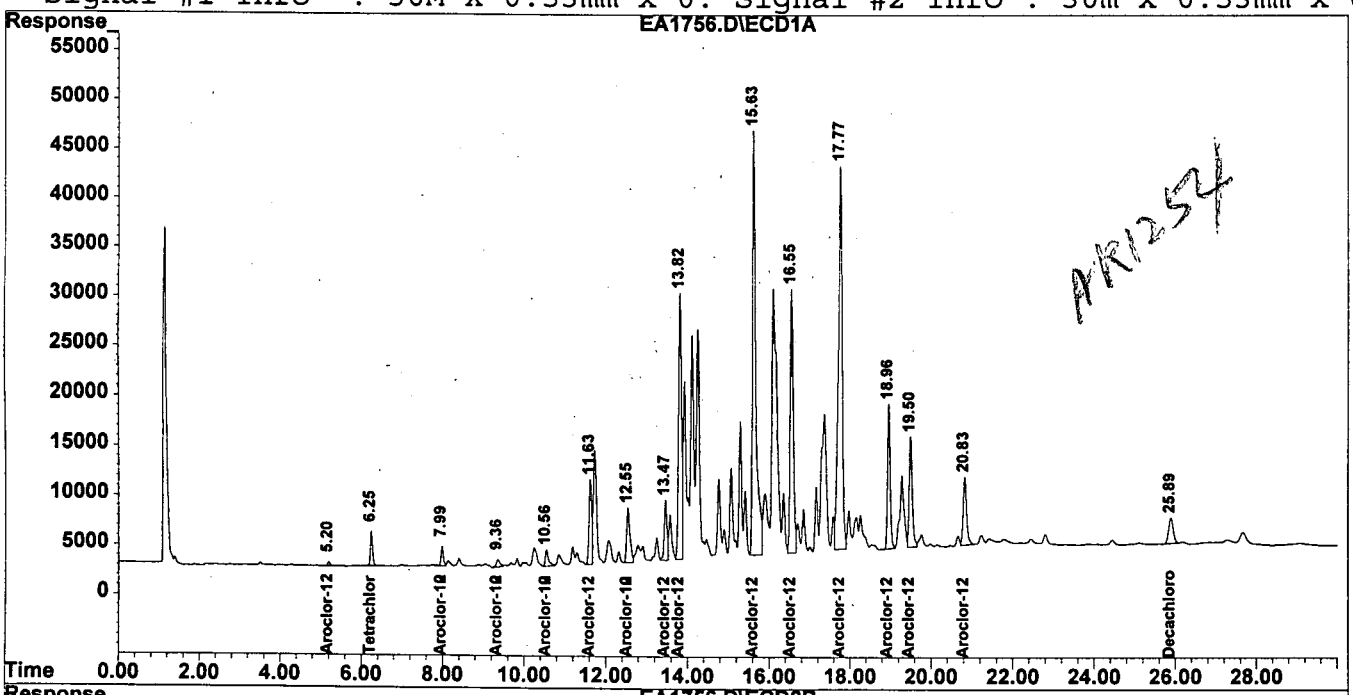
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

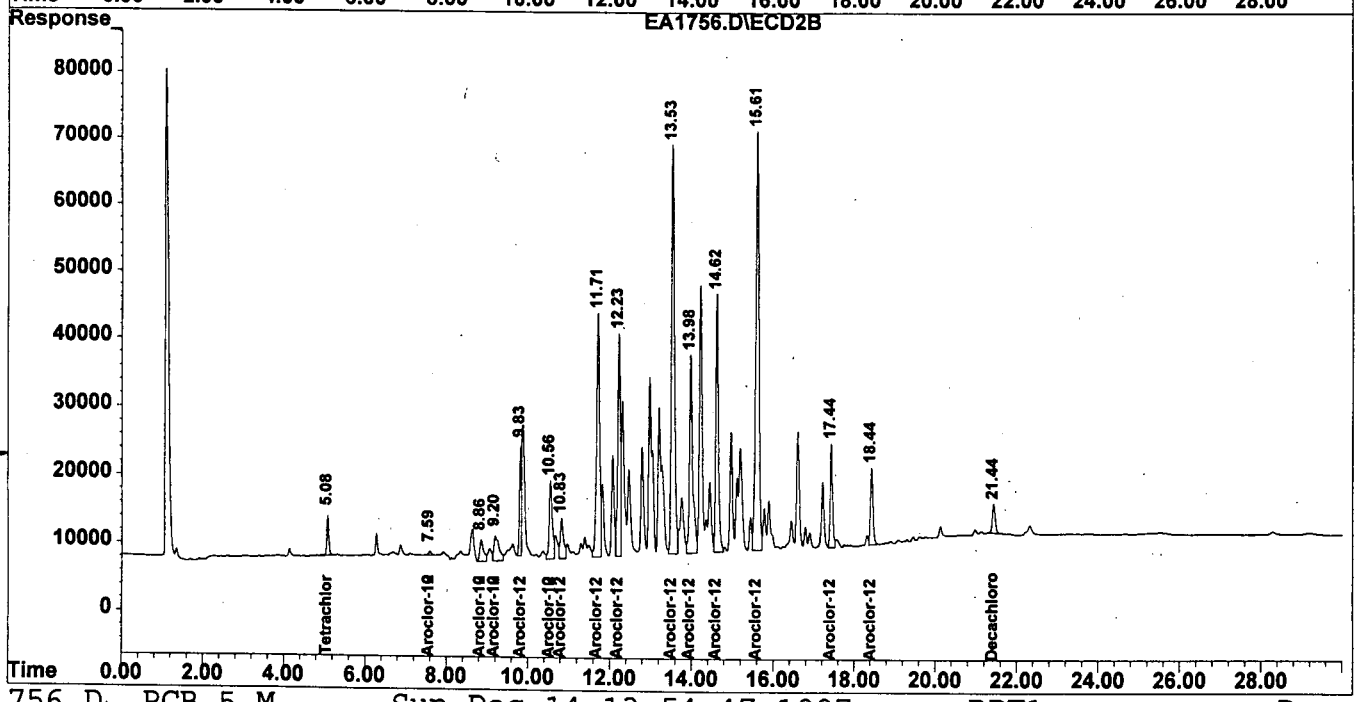
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1756.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_E\EA1756.D\ECD2B.CH
Acq On : 13 Dec 97 18:33 Operator:
Sample : 278235 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:14 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





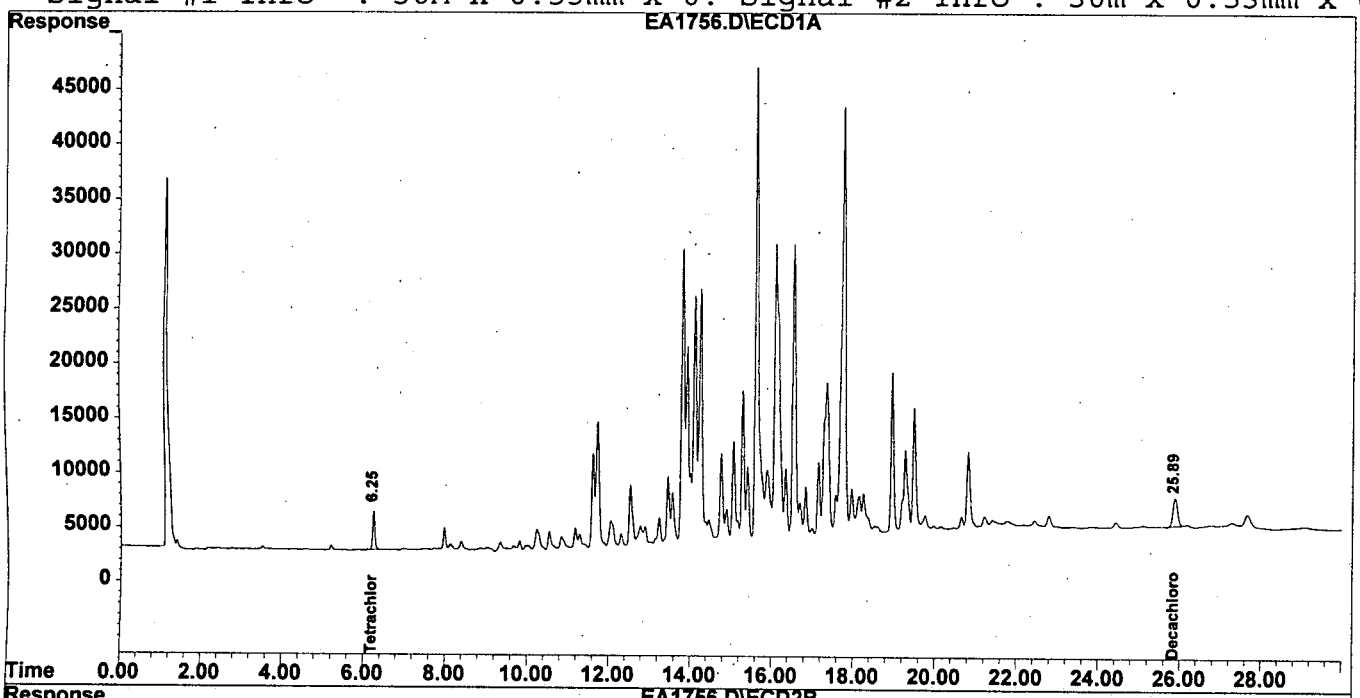
Quantitation Report

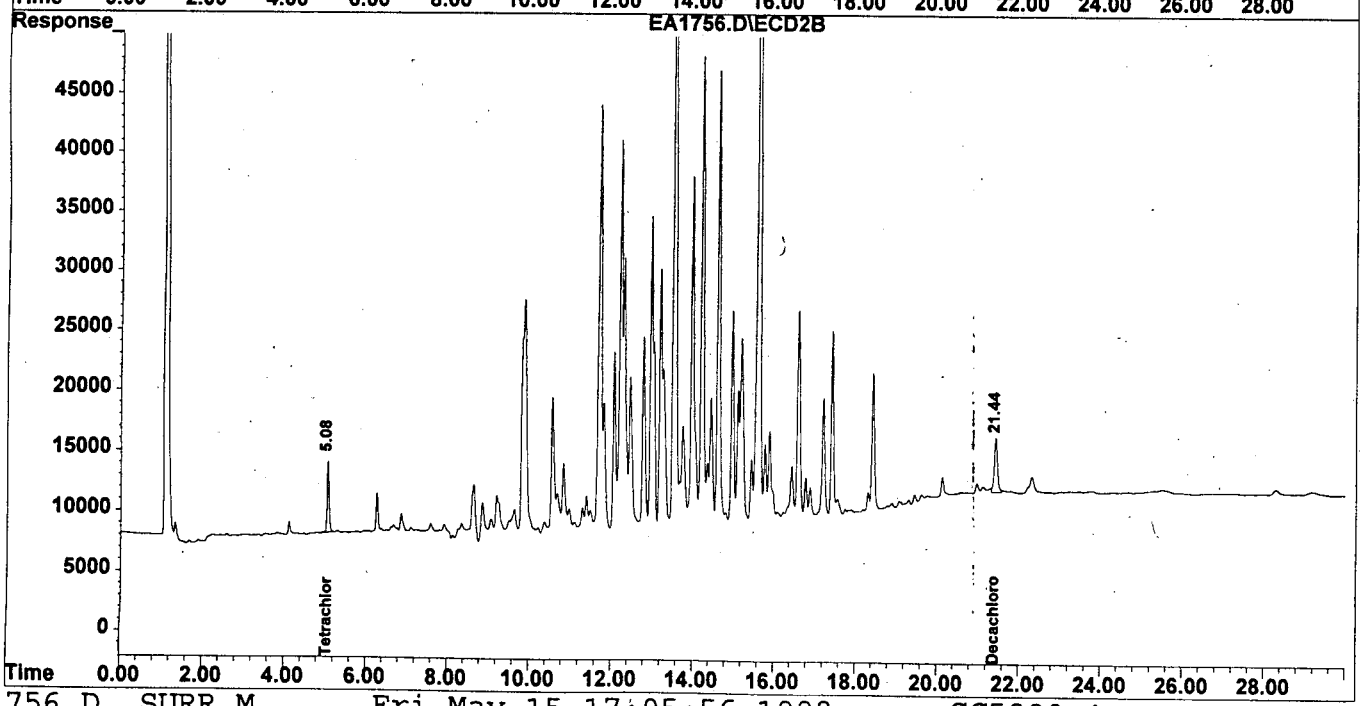
AMENDED REPORT MAY 30 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1756.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\WESTDA~1\EA1756.D\ECD2B.CH
Acq On : 13 Dec 97 18:33 Operator:
Sample : 278235 1:5 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:47 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





621A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 16, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278236
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQND1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7396	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	10.0ml
Dilution Factor:	10	Sample Moisture:	53.78%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U J	U	720	360
Aroclor-1221	U	U	1400	1000
Aroclor-1232	U	U	720	580
Aroclor-1242	U	U	720	360
Aroclor-1248	U	U	720	430
Aroclor-1254	11000	U	720	500
Aroclor-1260	U	U	720	580

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1997.
All rights reserved.
NEE

AMENDED REPORT JUN 0 4 1998

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1757.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_E\EA1757.D\ECD2B.CH
Acq On : 13 Dec 97 19:07 Operator:
Sample : 278236 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:32 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
System Monitoring Compounds							
1) SA Tetrachloro-m-xy	6.25	5.08	68016	100707	4.944	5.064	
Spiked Amount 40.000 Range 43 - 150 Recovery =					12.36%#	12.66%#	
2) SA Decachlorobiphen	25.89	21.43	117102	128810	5.033	5.928m	
Spiked Amount 40.000 Range 24 - 154 Recovery =					12.58%#	14.82%#	
Target Compounds							
3) L1 Aroclor-1016{1}	7.99	0.00	229017	0	688.152	N.D.	#
4) L1 Aroclor-1016{2}	9.36	7.56	28449	196827	41.962	226.012	#
5) L1 Aroclor-1016{3}	10.56	8.86	61463	164724	48.131	88.761	#
6) L1 Aroclor-1016{4}	0.00	9.20	0	99594	N.D.	118.082	#
7) L1 Aroclor-1016{5}	12.54	10.56	339602	696207	520.213	826.417	#
Sum Aroclor-1016			658532	1157352	1298.457	1259.271	
Average Aroclor-1016					324.614µg	314.818	µg
8) L2 Aroclor-1221{1}	5.20	0.00	22720	0	175.224	N.D.	#
10) L2 Aroclor-1221{3}	7.90	0.00	15500	0	112.552	N.D.	#
11) L2 Aroclor-1221{4}	7.99	8.86	229017	164724	561.466	1199.318	#
Sum Aroclor-1221			267237	164724	849.242	1199.318	
Average Aroclor-1221					283.081µg	1199.318	µg
12) L3 Aroclor-1232{1}	7.99	0.00	229017	0	790.276	N.D.	#
13) L3 Aroclor-1232{2}	9.36	7.56	28449	196827	91.609	536.218	#
14) L3 Aroclor-1232{3}	10.56	8.86	61463	164724	120.856	218.931	#
15) L3 Aroclor-1232{4}	12.54	9.20	339602	99594	1076.733	295.215	#
16) L3 Aroclor-1232{5}	13.47	10.56	361885	696207	1595.332	1826.298	
Sum Aroclor-1232			1020417	1157352	3674.806	2876.661	
Average Aroclor-1232					734.961µg	719.165	µg
17) L4 Aroclor-1242{1}	7.99	0.00	229017	0	878.741	N.D.	#
18) L4 Aroclor-1242{2}	9.36	7.56	28449	196827	52.919	303.329	#
19) L4 Aroclor-1242{3}	10.56	8.86	61463	164724	63.232	118.100	#
20) L4 Aroclor-1242{4}	0.00	9.20	0	99594	N.D.	162.760	#
21) L4 Aroclor-1242{5}	12.54	10.56	339602	696207	609.404	1052.529	#
Sum Aroclor-1242			658532	1157352	1604.296	1636.718	
Average Aroclor-1242					401.074µg	409.180	µg

623

2nd 12/5/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 30 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1757.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\WESTDA~1\EA1757.D\ECD2B.CH
Acq On : 13 Dec 97 19:07 Operator:
Sample : 278236 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:48 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.25	5.08	68016	106311	4.782	4.910
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.96%#	12.28%#
2) SA Decachlorobiphen	25.89	21.43	118409	150550	5.034	6.599m#
Spiked Amount 40.000 Range 24 - 154 Recovery =					12.59%#	16.50%#

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

6 2 3/4A

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1757.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_E\EA1757.D\ECD2B.CH
Acq On : 13 Dec 97 19:07 Operator:
Sample : 278236 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:32 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
22) L5	Aroclor-1248{1}	9.36	7.56	28449	196827	98.950	552.934	#
23) L5	Aroclor-1248{2}	10.56	8.86	61463	164724	73.270	135.852	#
24) L5	Aroclor-1248{3}	12.54	10.56	339602	696207	446.528	740.950	#
25) L5	Aroclor-1248{4}	13.47	10.82	361885	304729	509.492	351.329	#
26) L5	Aroclor-1248{5}	15.63	13.54	1895290	3169972	5709.369	8956.665	#
Sum	Aroclor-1248			2686690	4532459	6837.609	10737.731	
Average	Aroclor-1248					1367.522	2147.546	
27) L6	Aroclor-1254{1}	11.63	9.83	323161	419138	863.778	679.994	
28) L6	Aroclor-1254{2}	~~13.80~~	11.71	3543000	1658803	~~5970.604~~	1342.963	#
29) L6	Aroclor-1254{3}	15.63	12.23	1895290	984874	1458.660	996.611	#
30) L6	Aroclor-1254{4}	16.55	13.54	1599101	3169972	2560.448	2263.926	
31) L6	Aroclor-1254{5}	17.77	15.62	1920072	3182755	1583.056	2316.947	#
Sum	Aroclor-1254			9280624	9415542	12436.545	7600.442	
Average	Aroclor-1254					2487.309	1520.088	
32) L7	Aroclor-1260{1}	16.17	13.98	897128	1256184	923.430	1144.978	
33) L7	Aroclor-1260{2}	16.55	14.62	1599101	1357228	1356.437	932.219	#
34) L7	Aroclor-1260{3}	18.96	15.62	476697	3182755	574.584	1677.056	#
35) L7	Aroclor-1260{4}	19.50	17.44	404524	439364	211.062	197.041	
36) L7	Aroclor-1260{5}	20.83	18.44	310431	378890	198.659	232.618	
Sum	Aroclor-1260			3687883	6614420	3264.172	4183.912	
Average	Aroclor-1260					652.834	836.782	

624

AMW 12/15/97

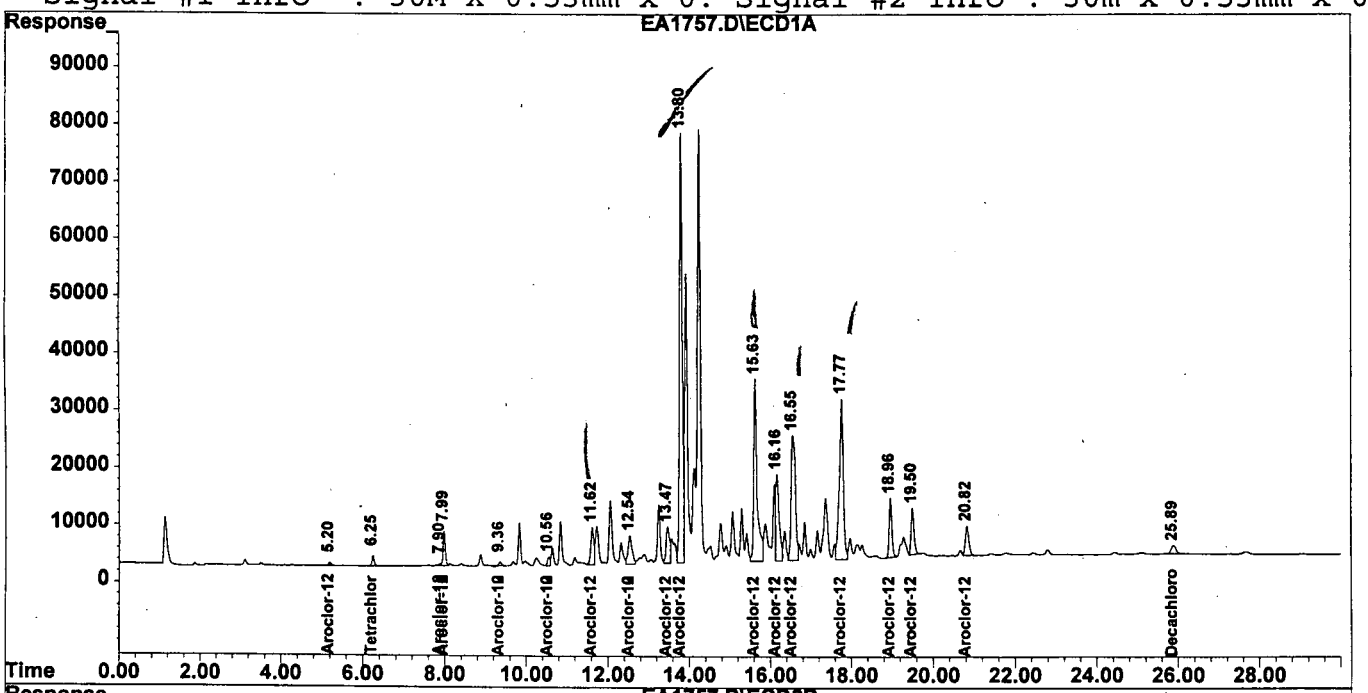
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

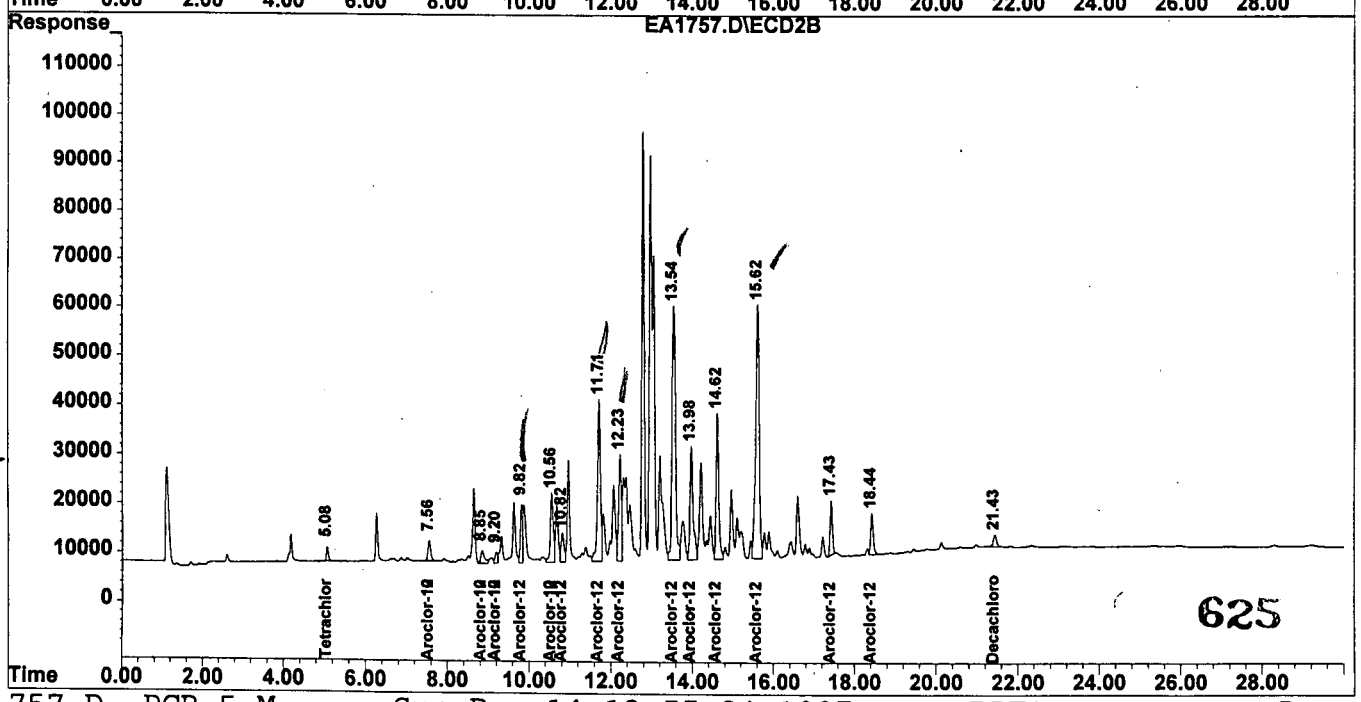
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1757.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_E\EA1757.D\ECD2B.CH
Acq On : 13 Dec 97 19:07 Operator:
Sample : 278236 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:32 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





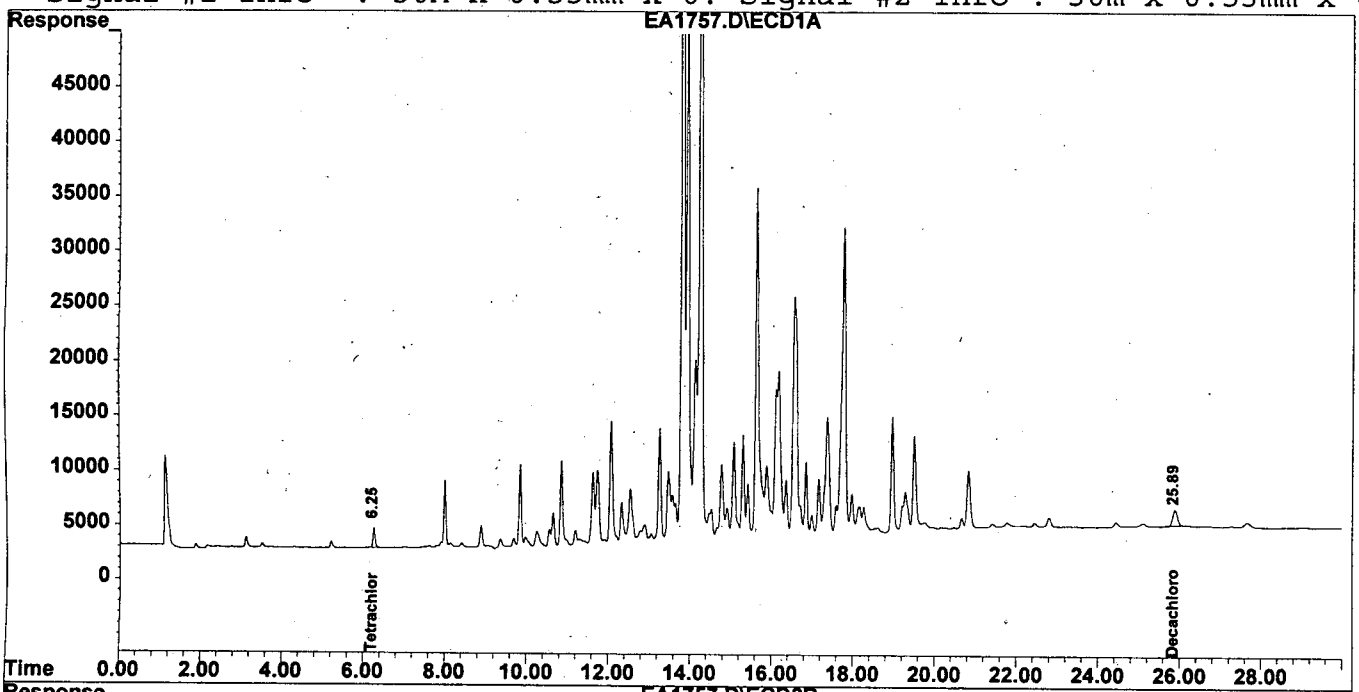
625

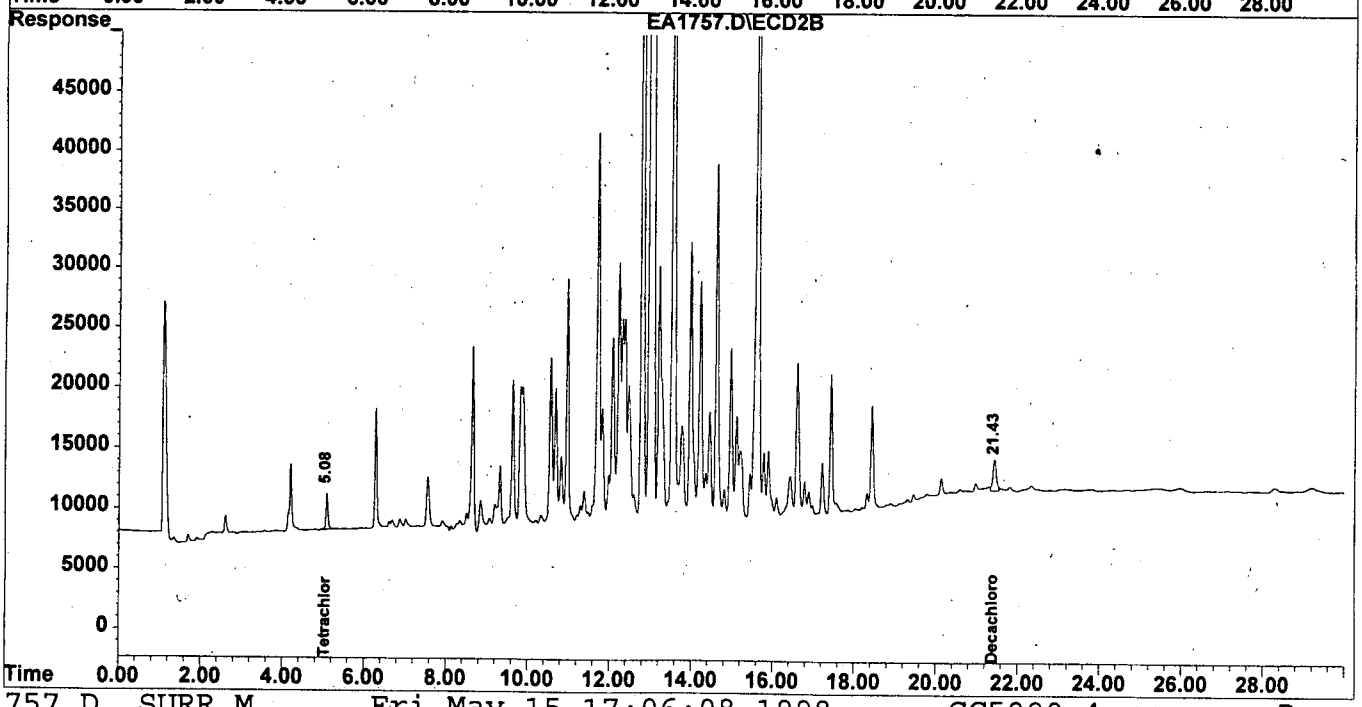
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1757.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\WESTDA~1\EA1757.D\ECD2B.CH
Acq On : 13 Dec 97 19:07 Operator:
Sample : 278236 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:48 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





625A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 16, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278237
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQND2
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: SOIL

Batch #:	QPC7396	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/13/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	62.08%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U J	U	880	440
Aroclor-1221	U	U	1800	1200
Aroclor-1232	U	U	880	700
Aroclor-1242	U	U	880	440
Aroclor-1248	U	U	880	530
Aroclor-1254	12000	U	880	620
Aroclor-1260	U	U	880	700

UG/KG = micrograms/kilogram or ppb
Results are in ug/kg, they are reported on a dry weight basis.

U: Indicates a compound was analyzed for but not detected at the PQL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1997.
All rights reserved.
NEE

ICM Laboratories Quantitation Report AMENDED REPORT (QT Reviewed) JUN 0 4 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1758.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_E\EA1758.D\ECD2B.CH
Acq On : 13 Dec 97 19:41 Operator:
Sample : 278237 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:33 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.25	5.08	64498	89374	4.688	4.494
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.72%#	11.24%#
2) SA Decachlorobiphen	25.89	21.44	111254	118299	4.782	5.444m
Spiked Amount 40.000 Range 24 - 154 Recovery =					11.96%#	13.61%#
Target Compounds						
3) L1 Aroclor-1016{1}	7.99	0.00	55457	0	166.636	N.D. #
4) L1 Aroclor-1016{2}	9.36	7.55	38842	262209	57.290	301.088 #
5) L1 Aroclor-1016{3}	10.56	8.86	61695	138162	48.312	74.448 #
6) L1 Aroclor-1016{4}	0.00	9.20	0	151624	N.D.	179.770 #
7) L1 Aroclor-1016{5}	12.55	10.56	454136	732328	695.660	869.294
Sum Aroclor-1016			610130	1284323	967.899	1424.600
Average Aroclor-1016					241.975	356.150
8) L2 Aroclor-1221{1}	5.20	0.00	10080	0	77.742	N.D. #
10) L2 Aroclor-1221{3}	7.90	0.00	16772	0	121.788	N.D. #
11) L2 Aroclor-1221{4}	7.99	8.86	55457	138162	135.959	1005.929 #
Sum Aroclor-1221			82309	138162	335.490	1005.929
Average Aroclor-1221					111.830	1005.929
12) L3 Aroclor-1232{1}	7.99	0.00	55457	0	191.366	N.D. #
13) L3 Aroclor-1232{2}	9.36	7.55	38842	262209	125.074	714.338 #
14) L3 Aroclor-1232{3}	10.56	8.86	61695	138162	121.312	183.628 #
15) L3 Aroclor-1232{4}	12.55	9.20	454136	151624	1439.872	449.441 #
16) L3 Aroclor-1232{5}	13.47	10.56	254841	732328	1123.437	1921.051 #
Sum Aroclor-1232			864970	1284323	3001.061	3268.459
Average Aroclor-1232					600.212	817.115
17) L4 Aroclor-1242{1}	7.99	0.00	55457	0	212.787	N.D. #
18) L4 Aroclor-1242{2}	9.36	7.55	38842	262209	72.251	404.089 #
19) L4 Aroclor-1242{3}	10.56	8.86	61695	138162	63.471	99.056 #
20) L4 Aroclor-1242{4}	0.00	9.20	0	151624	N.D.	247.789 #
21) L4 Aroclor-1242{5}	12.55	10.56	454136	732328	814.931	1107.138 #
Sum Aroclor-1242			610130	1284323	1163.440	1858.071
Average Aroclor-1242					290.860	464.518

627

12/15/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 3 0 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1758.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\WESTDA~1\EA1758.D\ECD2B.CH
Acq On : 13 Dec 97 19:41 Operator:
Sample : 278237 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:49 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.25	5.08	64498	96938	4.535	4.477
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.34%#	11.19%#
2) SA Decachlorobiphen	25.89	21.44	114153	155404	4.853	6.812m#
Spiked Amount 40.000 Range 24 - 154 Recovery =					12.13%#	17.03%#

Target Compounds

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

6 27 8A

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1758.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_E\EA1758.D\ECD2B.CH
Acq On : 13 Dec 97 19:41 Operator:
Sample : 278237 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:33 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
22)	L5 Aroclor-1248{1}	9.36	7.55	38842	262209	135.096	736.607	#
23)	L5 Aroclor-1248{2}	10.56	8.86	61695	138162	73.547	113.946	#
24)	L5 Aroclor-1248{3}	12.55	10.56	454136	732328	597.124	779.392	#
25)	L5 Aroclor-1248{4}	13.47	10.83	254841	255132	358.786	294.148	
26)	L5 Aroclor-1248{5}	15.63	13.54	1764960	2541211	5316.763	7180.119	#
	Sum Aroclor-1248			2574474	3929042	6481.315	9104.212	
	Average Aroclor-1248					1296.263	1820.842	
27)	L6 Aroclor-1254{1}	11.63	9.83	374294	528297	1000.453	857.090	
28)	L6 Aroclor-1254{2}	~~13.81~~	11.71	~~2177279~~	1485120	~~3669.113~~	1202.350	#
29)	L6 Aroclor-1254{3}	15.63	12.23	1764960	989845	1358.355	1001.642	#
30)	L6 Aroclor-1254{4}	16.55	13.54	1148324	2541211	1838.672	1814.878	
31)	L6 Aroclor-1254{5}	17.77	15.62	1634260	2652436	1347.410	1930.892	#
	Sum Aroclor-1254			7099117	8196910	9214.003	6806.852	
	Average Aroclor-1254					1842.801	1361.370	
32)	L7 Aroclor-1260{1}	16.16	13.98	737757	1075752	759.387	980.520	#
33)	L7 Aroclor-1260{2}	16.55	14.62	1148324	1108579	974.065	761.433	
34)	L7 Aroclor-1260{3}	18.96	15.62	405486	2652436	488.749	1397.621	#
35)	L7 Aroclor-1260{4}	19.50	17.44	340673	432740	177.747	194.070	
36)	L7 Aroclor-1260{5}	20.83	18.44	252022	306891	161.281	188.414	
	Sum Aroclor-1260			2884261	5576398	2561.228	3522.058	
	Average Aroclor-1260					512.246	704.412	

DMC 12/15/97 OK

628

DMC 12/15/97

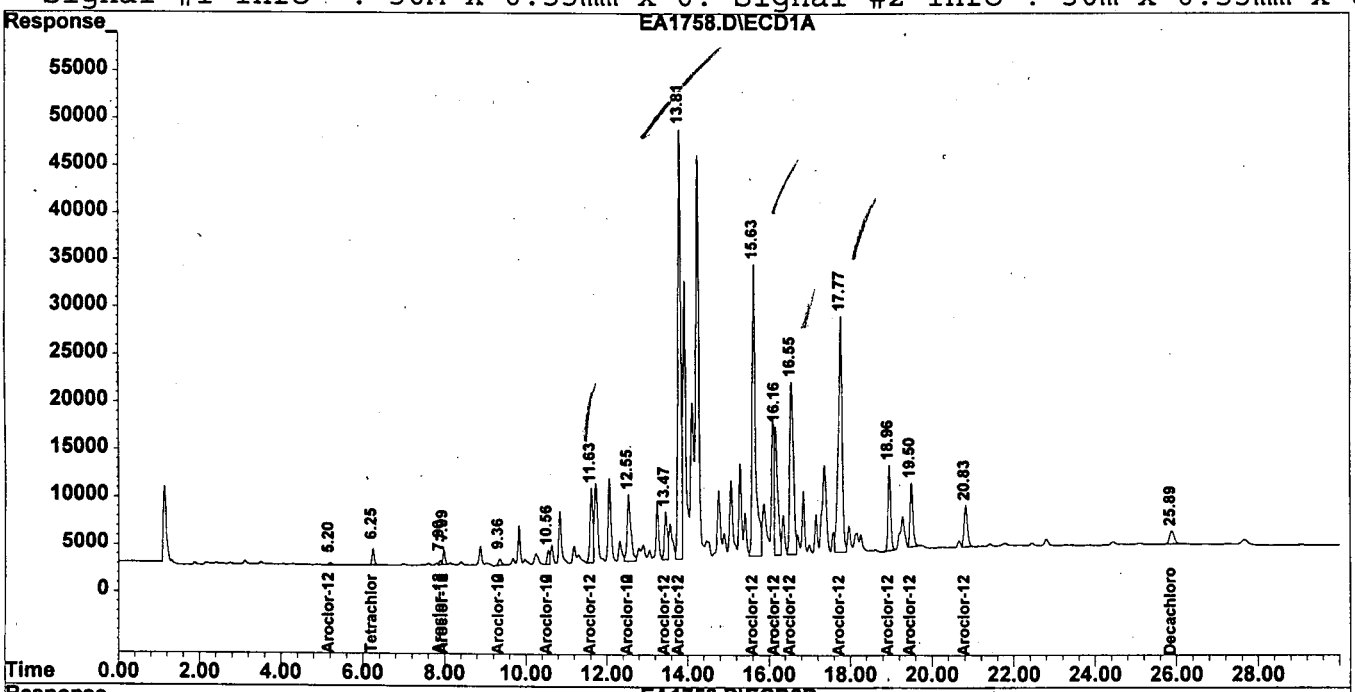
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

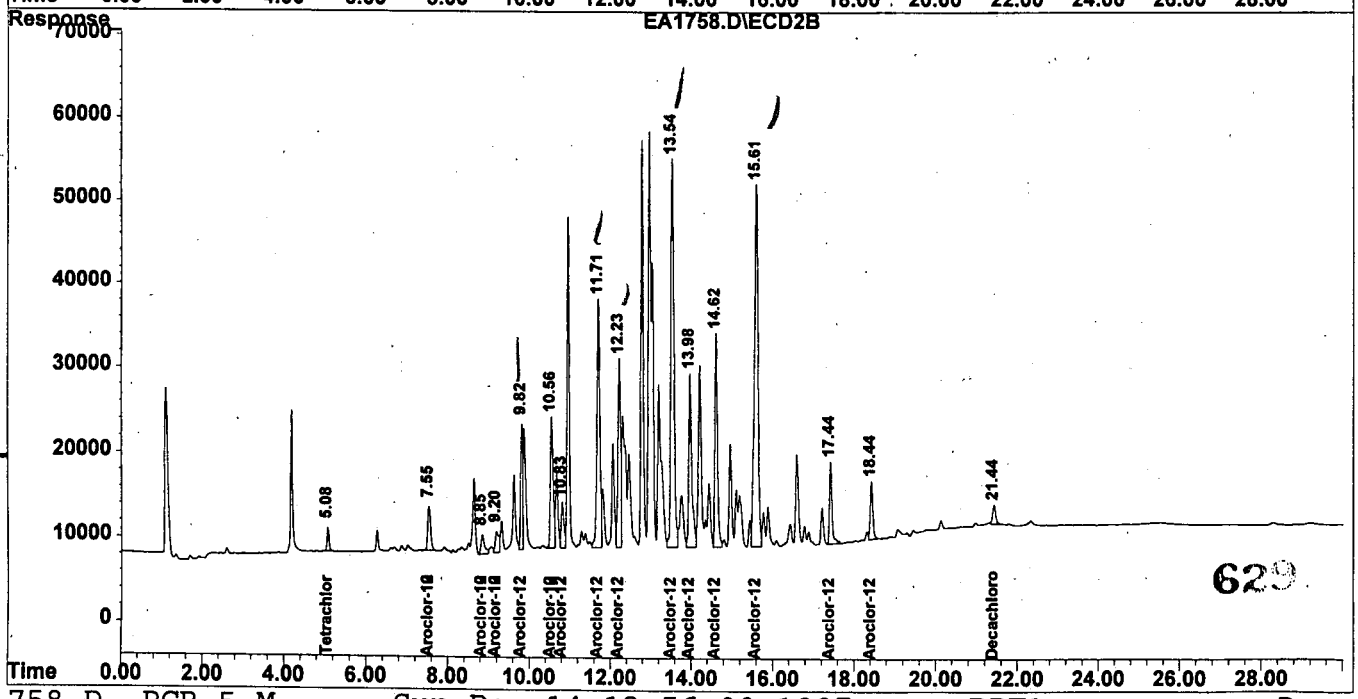
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1758.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_E\EA1758.D\ECD2B.CH
Acq On : 13 Dec 97 19:41 Operator:
Sample : 278237 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 13:33 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





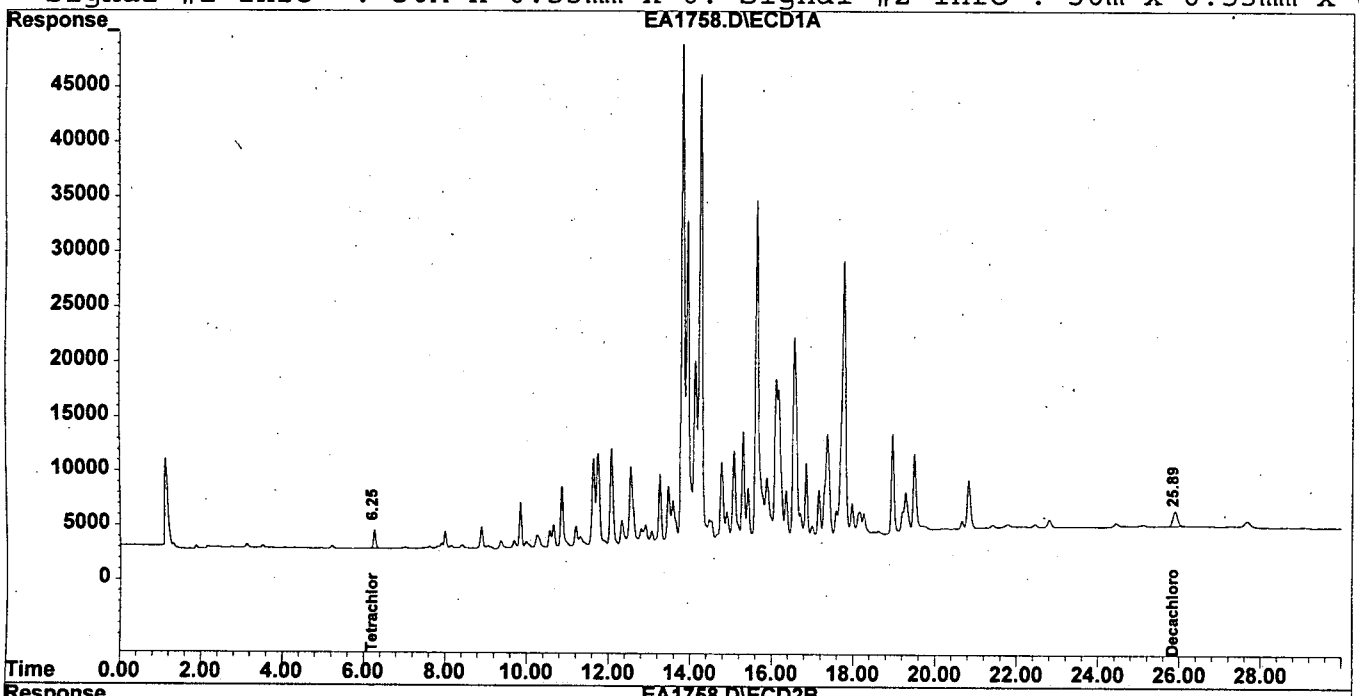
629

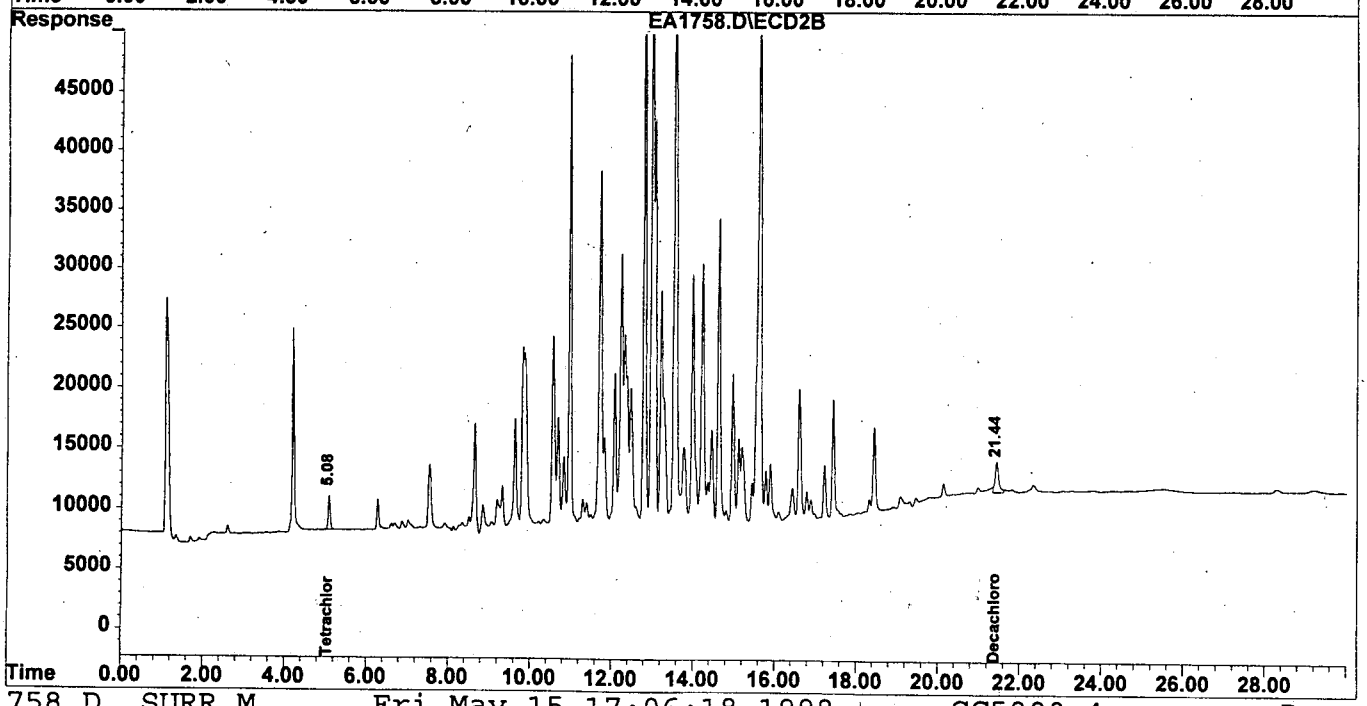
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1758.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\WESTDA~1\EA1758.D\ECD2B.CH
Acq On : 13 Dec 97 19:41 Operator:
Sample : 278237 1:10 Inst : GC_5890_5
Misc : QPC7396 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:49 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





629A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 16, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
US EPA CLP Lab

PCB Results
Analysis by Gas Chromatography

Lab Number: 278238
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RB-1
Sample date: 12/03/97
Sampled by: Customer
At lab date: 12/04/97
Matrix: AQUEOUS

Batch #:	QPC7403	Column used:	DB 1701/DB 608
Extraction date:	12/09/97	Analysis date:	12/14/97
Weight/Volume:	1000ml	Final Volume:	10ml
Dilution Factor:	1		

ANALYTE NAME	RESULT UG/L	METHOD BLANK RESULT UG/L	PRACTICAL QUANTITATION LIMIT UG/L	MINIMUM DETECTION LIMIT UG/L
Aroclor-1016	U	U	1.0	0.5
Aroclor-1221	U	U	2.0	1.4
Aroclor-1232	U	U	1.0	0.8
Aroclor-1242	U	U	1.0	0.5
Aroclor-1248	U	U	1.0	0.6
Aroclor-1254	U	U	1.0	0.7
Aroclor-1260	U	U	1.0	0.8

UG/L = micrograms/liter or ppb

U: Indicates a compound was analyzed for but not detected at the MDL
J: Indicates an estimated value. It is utilized when a reported value meets the identification criteria but the result is less than the specified detection limit but greater than zero.
B: Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.
ND: Not Determined.

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
Copyright ICM, Inc., 1997.
All rights reserved.
NEE

AMENDED REPORT JUN 0 3 1998

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1769.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_E\EA1769.D\ECD2B.CH
Acq On : 14 Dec 97 1:54 Operator:
Sample : 278238 Inst : GC_5890_5
Misc : QPC7403 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:41 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.25	5.09	652171	887189	47.404	44.609
Spiked Amount 40.000 Range 43 - 150 Recovery =					118.51%	111.52%
2) SA Decachlorobiphen	25.90	21.44	689867	640054	29.650	29.455
Spiked Amount 40.000 Range 24 - 154 Recovery =					74.13%	73.64%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
8) L2 Aroclor-1221{1}	5.32	6.00	7048	24524	54.360	89.805 #
9) L2 Aroclor-1221{2}	7.45	0.00	10615	0	111.866	N.D. #
Sum Aroclor-1221			17663	24524	166.226	89.805
Average Aroclor-1221					83.113 NP	89.805 NP
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
29) L6 Aroclor-1254{3}	0.00	12.23	0	10874	N.D.	11.003 #
Sum Aroclor-1254			0	10874	N.D.	11.003
Average Aroclor-1254					0.000	11.003 NP
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

631

12/15/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT MAY 30 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1769.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\WESTDA~1\EA1769.D\ECD2B.CH
Acq On : 14 Dec 97 1:54 Operator:
Sample : 278238 Inst : GC_5890_5
Misc : QPC7403 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:46 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Initial Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
System Monitoring Compounds						
1) SA Tetrachloro-m-xy	6.25	5.09	652171	916567	45.853	42.331
Spiked Amount 40.000 Range 43 - 150 Recovery =					114.63%	105.83%
2) SA Decachlorobiphen	25.90	21.44	693739	729162	29.496	31.961
Spiked Amount 40.000 Range 24 - 154 Recovery =					73.74%	79.90%
Target Compounds						

631A

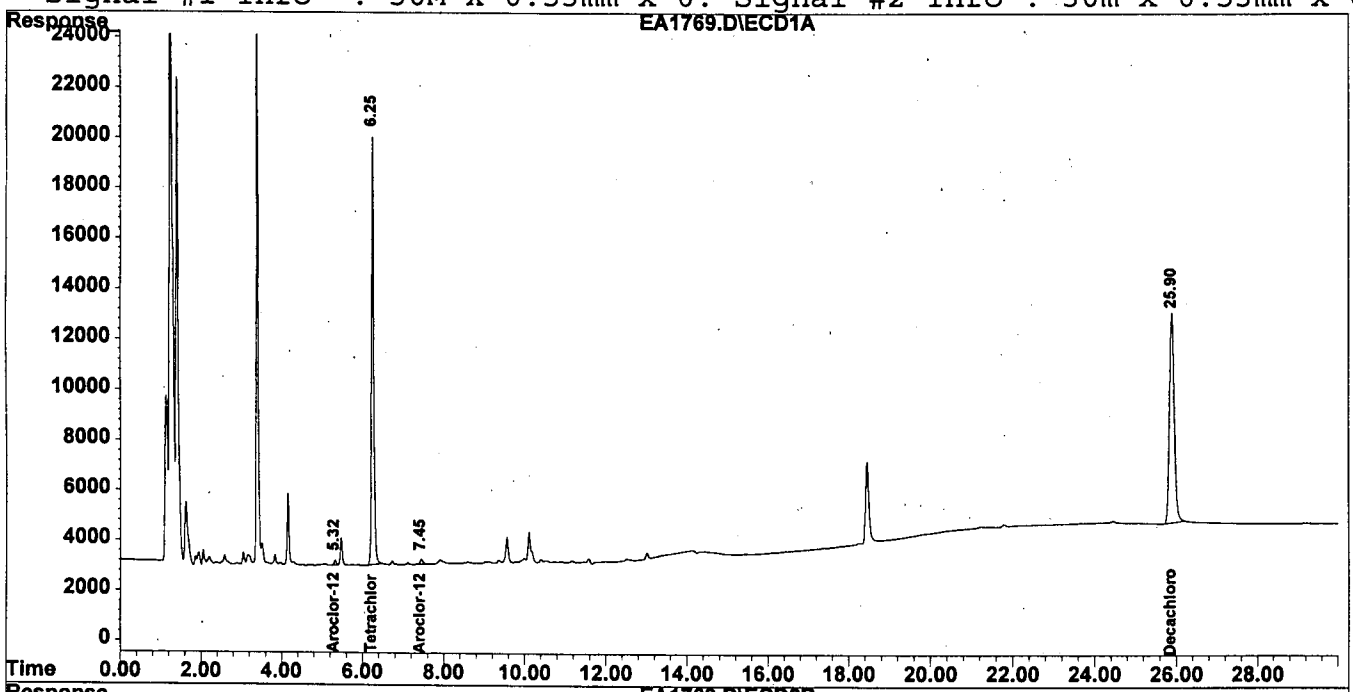
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

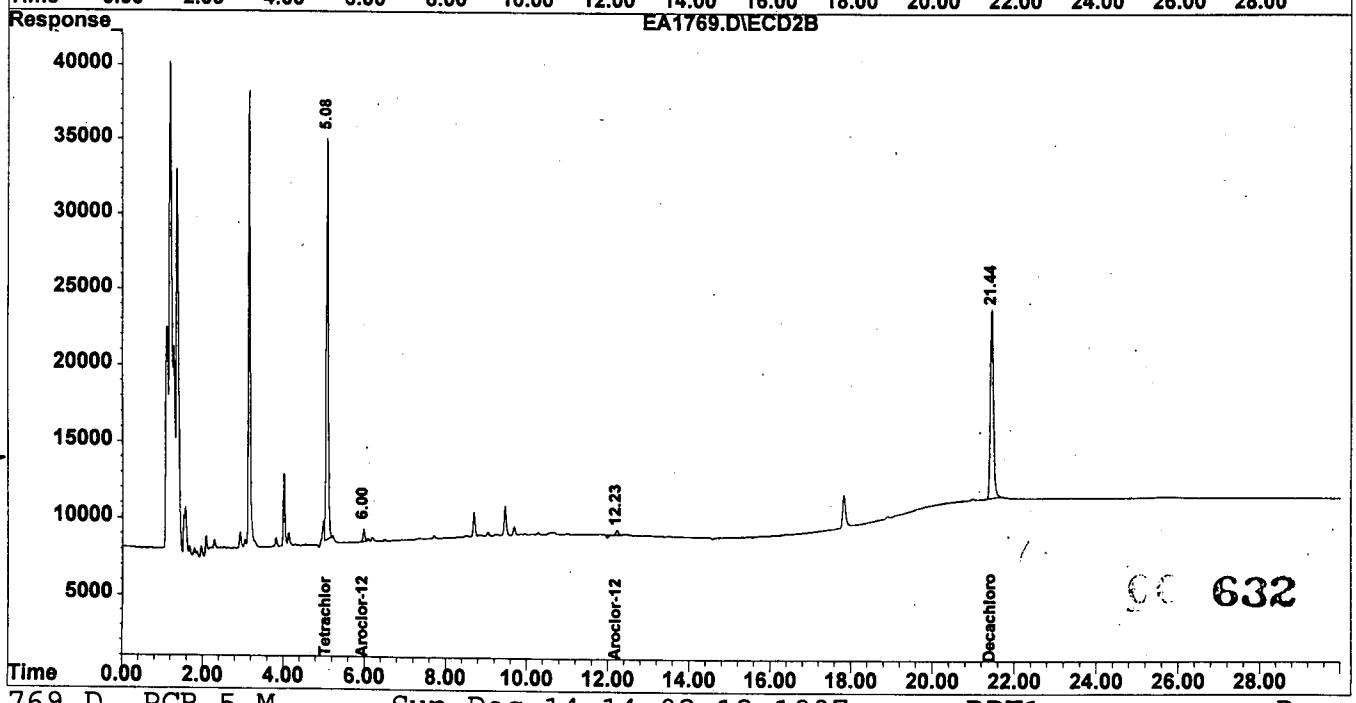
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1769.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_E\EA1769.D\ECD2B.CH
Acq On : 14 Dec 97 1:54 Operator:
Sample : 278238 Inst : GC_5890_5
Misc : QPC7403 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 14 12:41 1997 Quant Results File: PCB_5.RES

Quant Method : H:\1\METHODS\PCB_5.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





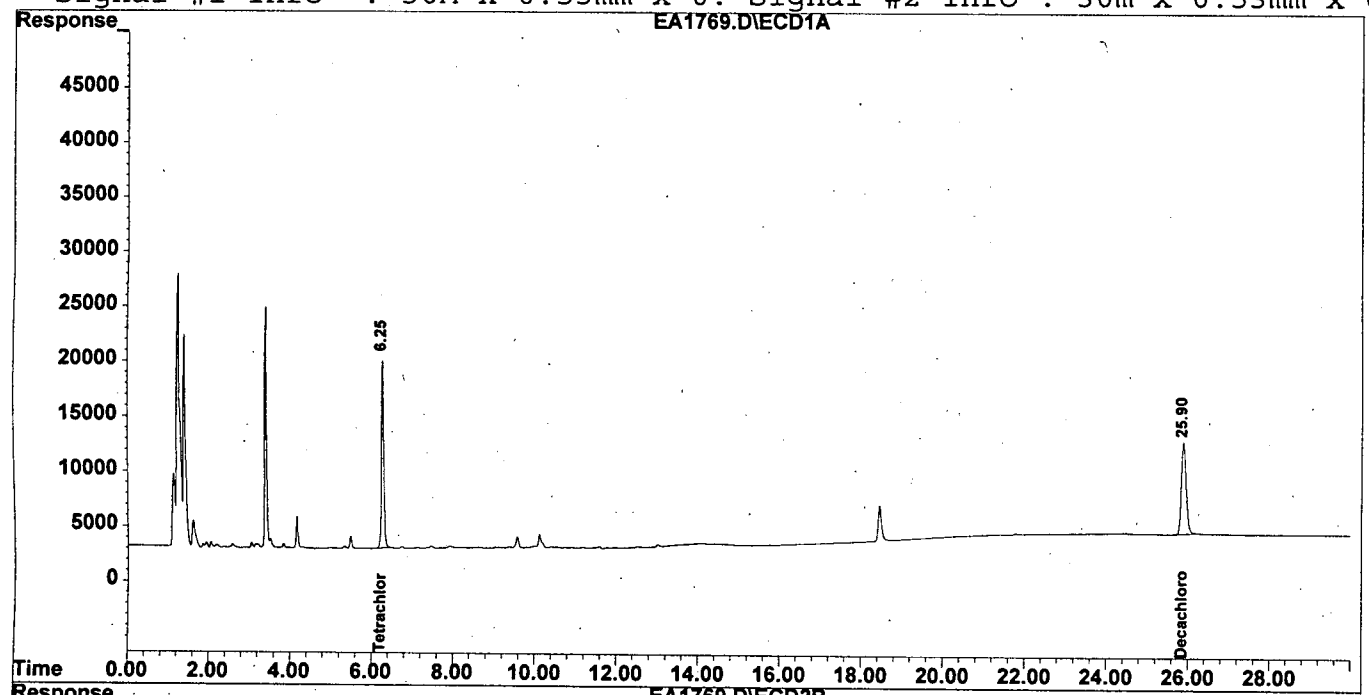
CC 632

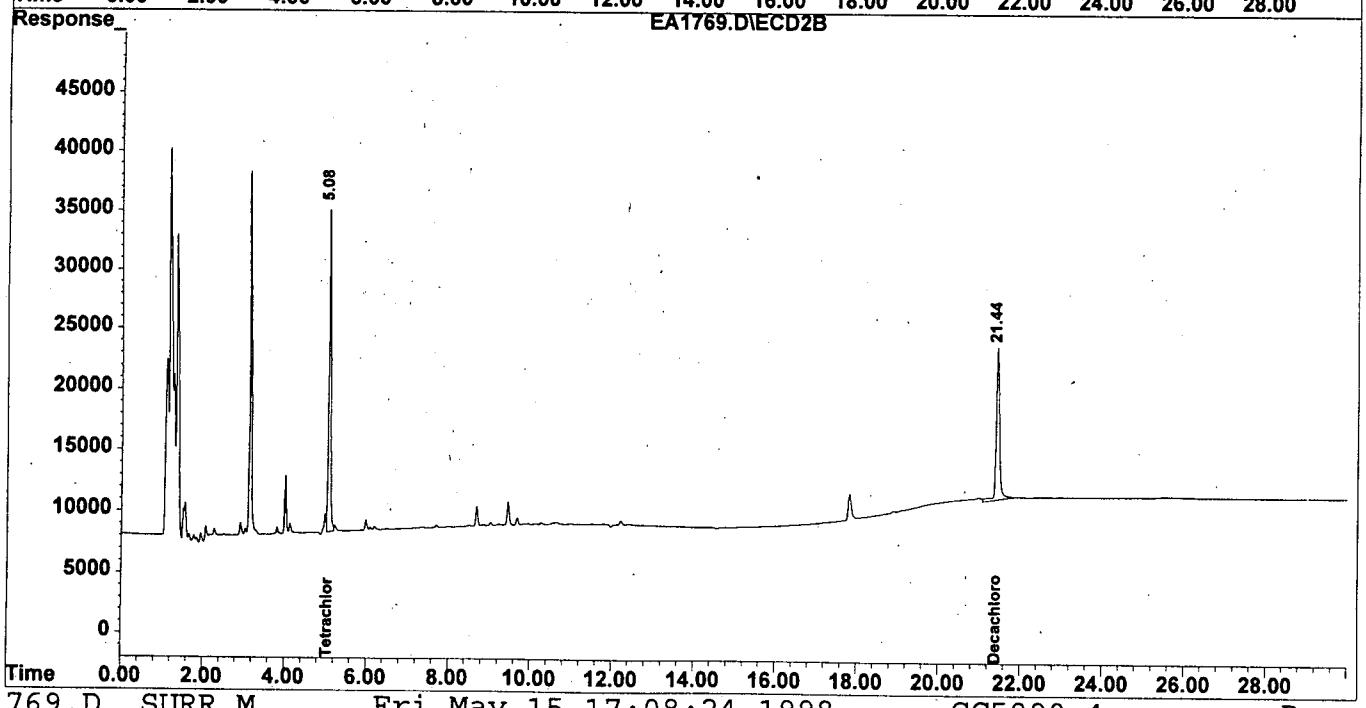
Quantitation Report AMENDED REPORT MAY 3 0 1998

Signal #1 : C:\HPCHEM\WESTDA~1\EA1769.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\WESTDA~1\EA1769.D\ECD2B.CH
Acq On : 14 Dec 97 1:54 Operator:
Sample : 278238 Inst : GC_5890_5
Misc : QPC7403 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: May 15 16:46 1998 Quant Results File: SURR.RES

Quant Method : D:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue May 05 13:43:59 1998
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

Volume Inj. : 2 µl
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-1701
Signal #1 Info : 30M X 0.53mm x 0. Signal #2 Info : 30m x 0.53mm x 0.50µ





632A