211034

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ICM

ICM LABORATORIES
1152 ROUTE 10
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201-584-0330
FAX 201-584-0515

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ANALYTICAL DATA REPORT PACKAGE

December 29, 1997

ROY F. WESTON, INC.

RFP#2272

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
201-584-0330

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LLLLSED(D)	Lab #278373	
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NNNNSED(D)	Lab #278375	
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NNNNSD1	Lab #278377	
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RRRRSS1	Lab #278405	
RRRRSS2	Lab #278406	
RRRRSD2	Lab #278407	
RRRRNS3	Lab #278408	
SSSSSED(S)	Lab #278409	

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11:48:41

Client:
ROY F. WESTON, INC.
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ANALYTICAL DATA SUMMARY REPORT--FOOTNOTE PAGE

U = Indicates a compound was analyzed for but not detected.
For results marked U, the numerical value is the compound MDL or 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 and greater than zero.

B = Indicates that the analyte was found in the blank as well as the sample. It indicates possible/probable blank contamination.

W = Analytical Spike recovery for furnace AA analysis was not within control limits but was greater than or equal to 40%.

NA = Not Applicable; P = Positive; N = Negative

IND = Indeterminable - compound decomposes in water.

+ = Indicates that an MDL was not available for this compound. PQL was reported.
++ = Sample boiled at 100 degree C with no flash

NOTES
ROBIN 12/29/97

ICM Laboratories
Industrial Corrosion Management, Inc.
1152 Route 10
Randolph, NJ 07869
Phone: 973-584-0330 FAX: 973-584-0515

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12:44:43

Client:
ROY F. WESTON, INC.
Source:
RFP#2272

ANALYTICAL DATA SUMMARY REPORT

Client ID	KKKKSED(S)		KKKKSED(D)		LLLLSED(S)		LLLLSED(D)		NNNNSED(S)		NNNNSED(D)		NNNNSS1		NNNNSD1		NNNNSS2	
ICM Sample Number	278370		278371		278372		278373		278374		278375		278376		278377		278378	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCBs																		
Aroclor-1016	1800	U	500	U	51	U	49	U	55	U	57	U	240	U	500	U	61	U
Aroclor-1221	3600	U	990	U	100	U	99	U	110	U	110	U	490	U	1000	U	120	U
Aroclor-1232	1800	U	500	U	51	U	49	U	55	U	57	U	240	U	500	U	61	U
Aroclor-1242	1800	U	500	U	51	U	49	U	55	U	57	U	240	U	500	U	61	U
Aroclor-1248	1800	U	500	U	51	U	49	U	55	U	57	U	240	U	500	U	61	U
Aroclor-1254	24000		15000		560		66		420		57	U	4100		6000		2300	
Aroclor-1260	1800	U	500	U	51	U	49	U	55	U	57	U	240	U	500	U	61	U

ICM Laboratories
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Client:
ROY F. WESTON, INC.
Source:
RFP#2272

ANALYTICAL DATA SUMMARY REPORT

Client ID	NNNNSD2		0000SED(S)		0000SED(D)		0000SS1		0000SD1		0000SS2		0000SD2		0000SS3		PPPPSED(S)	
ICM Sample Number	278379		278380		278381		278382		278383		278384		278385		278386		278387	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCBs																		
Aroclor-1016	44	U	56	U	49	U	41	U	72	U	46	U	47	U	40	U	57	U
Aroclor-1221	89	U	110	U	97	U	82	U	140	U	91	U	95	U	80	U	110	U
Aroclor-1232	44	U	56	U	49	U	41	U	72	U	46	U	47	U	40	U	57	U
Aroclor-1242	44	U	56	U	49	U	41	U	72	U	46	U	47	U	40	U	57	U
Aroclor-1248	44	U	56	U	49	U	41	U	72	U	46	U	47	U	40	U	57	U
Aroclor-1254	1300		90		140		1100		2100		2200		250		1200		57	U
Aroclor-1260	44	U	56	U	49	U	41	U	72	U	46	U	47	U	40	U	57	U

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Client:
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ANALYTICAL DATA SUMMARY REPORT

Client ID	PPPPSED(D)		PPPPSS1		PPPPSD1		PPPPSS2		PPPPSD2		QQQQSED(S)		QQQQSED(D)		QQQQSS1		QQQQSD1	
ICM Sample Number	278388		278389		278390		278391		278392		278393		278394		278395		278396	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCBs																		
Aroclor-1016	39	U	50	U	54	U	52	U	48	U	60	U	44	U	39	U	54	U
Aroclor-1221	78	U	100	U	110	U	100	U	96	U	120	U	89	U	79	U	110	U
Aroclor-1232	39	U	50	U	54	U	52	U	48	U	60	U	44	U	39	U	54	U
Aroclor-1242	39	U	50	U	54	U	52	U	48	U	60	U	44	U	39	U	54	U
Aroclor-1248	39	U	50	U	54	U	52	U	48	U	60	U	44	U	39	U	54	U
Aroclor-1254	39	U	1100		1500		1400		48	U	1000		450		1800		2600	
Aroclor-1260	39	U	50	U	54	U	52	U	410		60	U	44	U	39	U	54	U

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Client:
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ANALYTICAL DATA SUMMARY REPORT

Client ID	QQQQSS2		QQQQSD2		RRRRSED(S)		RRRRSED(D)		RRRRNS1		RRRRND1		RRRRNS2		RRRRND2		RRRRSS1	
ICM Sample Number	278397		278398		278399		278400		278401		278402		278403		278404		278405	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCBs																		
Aroclor-1016	38	U	220	U	42	U	43	U	71	U	67	U	75	U	69	U	610	U
Aroclor-1221	76	U	440	U	84	U	86	U	140	U	130	U	150	U	140	U	1200	U
Aroclor-1232	38	U	220	U	42	U	43	U	71	U	67	U	75	U	69	U	610	U
Aroclor-1242	38	U	220	U	42	U	43	U	71	U	67	U	75	U	69	U	610	U
Aroclor-1248	38	U	220	U	42	U	43	U	71	U	730		75	U	580		610	U
Aroclor-1254	720		2700		180		980		1100		1700		1200		1700		8100	
Aroclor-1260	38	U	220	U	42	U	43	U	71	U	67	U	75	U	69	U	610	U

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Client:
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ANALYTICAL DATA SUMMARY REPORT

Client ID	RRRRSS2		RRRRSD2		RRRRNS3		SSSSSED(S)		SSSSSED(D)		SSSSNS1		SSSSND1	
ICM Sample Number	278406		278407		278408		278409		278410		278411		278412	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCBs														
Aroclor-1016	49	U	46	U	68	U	46	U	45	U	41	U	41	U
Aroclor-1221	98	U	92	U	140	U	92	U	91	U	83	U	82	U
Aroclor-1232	49	U	46	U	68	U	46	U	45	U	41	U	41	U
Aroclor-1242	49	U	46	U	68	U	46	U	45	U	41	U	41	U
Aroclor-1248	49	U	46	U	68	U	46	U	45	U	41	U	41	U
Aroclor-1254	700		800		1200		200		360		400		34	J
Aroclor-1260	49	U	46	U	68	U	46	U	45	U	41	U	41	U

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Client:
ROY F. WESTON, INC.
Source:
RFP#2272

ANALYTICAL DATA SUMMARY REPORT

Client ID	SSSSNS2		SSSSND2		SSSSSS1		SSSSSD1		SSSSSS2		SSSSSD2		TTTTSED(S)		TTTTSED(D)		TTTTNS1	
ICM Sample Number	278426		278427		278428		278429		278430		278431		278432		278433		278434	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCBs																		
Aroclor-1016	45	U	40	U	49	U	380	U	49	U	62	U	90	U	320	U	68	U
Aroclor-1221	90	U	79	U	98	U	770	U	98	U	120	U	180	U	650	U	140	U
Aroclor-1232	45	U	40	U	49	U	380	U	49	U	62	U	90	U	320	U	68	U
Aroclor-1242	45	U	40	U	49	U	380	U	49	U	62	U	90	U	320	U	68	U
Aroclor-1248	45	U	40	U	49	U	380	U	49	U	62	U	90	U	320	U	68	U
Aroclor-1254	190		34	J	1400		5500		1200		1500		1600		4000		420	
Aroclor-1260	45	U	40	U	49	U	380	U	49	U	62	U	90	U	320	U	68	U

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Client:
ROY F. WESTON, INC.
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ANALYTICAL DATA SUMMARY REPORT

Client ID	TTTTND1		TTTTNS2		TTTTND2		TTTTSS1		TTTTSD1		TTTTSS2		TTTTSD2		TTTTNS3		UUUUSED(S)	
ICM Sample Number	278435		278436		278437		278438		278439		278440		278441		278442		278443	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCBs																		
Aroclor-1016	70	U	71	U	38	U	240	U	66	U	48	U	47	U	75	U	45	U
Aroclor-1221	140	U	140	U	77	U	490	U	130	U	97	U	93	U	150	U	90	U
Aroclor-1232	70	U	71	U	38	U	240	U	66	U	48	U	47	U	75	U	45	U
Aroclor-1242	70	U	71	U	38	U	240	U	66	U	48	U	47	U	75	U	45	U
Aroclor-1248	70	U	71	U	38	U	240	U	66	U	48	U	47	U	75	U	45	U
Aroclor-1254	220		68	J	38	U	2600		2300		48	U	47	U	760		1500	
Aroclor-1260	70	U	71	U	38	U	240	U	66	U	1400		1200		75	U	45	U

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Client:
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ANALYTICAL DATA SUMMARY REPORT

Client ID	UUUUSED(D)		UUUUNS1		UUUUND1		UUUUNS2		UUUUND2		UUUUSS1		UUUUSD1		UUUUSS2		UUUUSD2	
ICM Sample Number	278444		278445		278446		278447		278448		278449		278450		278451		278452	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCBs																		
Aroclor-1016	48	U	43	U	39	U	36	U	36	U	66	U	260	U	57	U	400	U
Aroclor-1221	96	U	87	U	78	U	73	U	72	U	130	U	530	U	110	U	800	U
Aroclor-1232	48	U	43	U	39	U	36	U	36	U	66	U	260	U	57	U	400	U
Aroclor-1242	48	U	43	U	39	U	36	U	36	U	66	U	260	U	57	U	400	U
Aroclor-1248	48	U	43	U	39	U	36	U	36	U	66	U	260	U	57	U	400	U
Aroclor-1254	530		300		39	U	36	U	36	U	1900		5200		1900		7000	
Aroclor-1260	48	U	43	U	39	U	36	U	36	U	66	U	260	U	57	U	400	U

600

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DECEMBER 29, 1997
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Client:
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RFP#2272

ANALYTICAL DATA SUMMARY REPORT

Client ID	VVVVSED(S)		VVVVSED(D)		VVVVNS1		VVVVND1		VVVVNS2		VVVVND2		VVVVSS1		VVVVSS2		VVVVSD2	
ICM Sample Number	278453		278454		278455		278456		278457		278458		278459		278460		278461	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
PCBs																		
Aroclor-1016	42	U	41	U	64	U	46	U	63	U	290	U	74	U	58	U	87	U
Aroclor-1221	85	U	82	U	130	U	92	U	120	U	580	U	150	U	120	U	170	U
Aroclor-1232	42	U	41	U	64	U	46	U	63	U	290	U	74	U	58	U	87	U
Aroclor-1242	42	U	41	U	64	U	46	U	63	U	290	U	74	U	58	U	87	U
Aroclor-1248	42	U	41	U	64	U	46	U	63	U	290	U	74	U	58	U	87	U
Aroclor-1254	42	U	41	U	1500		820		2000		4600		1600		2400		87	U
Aroclor-1260	42	U	41	U	64	U	46	U	63	U	290	U	74	U	58	U	87	U

010

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Industrial Corrosion Management, Inc.
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Client:
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Source:
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ANALYTICAL DATA SUMMARY REPORT

Client ID	VVVVNS3		RB2		MMMMSED(S)		MMMMSED(D)	
ICM Sample Number	278462		278463		278464		278465	
Sampling Date	12/04/97		12/04/97		12/04/97		12/04/97	
Units	UG/KG		UG/L		UG/KG		UG/KG	
PCBs								
Aroclor-1016	63	U	0.5	U	42	U	39	U
Aroclor-1221	130	U	1.4	U	84	U	78	U
Aroclor-1232	63	U	0.8	U	42	U	39	U
Aroclor-1242	63	U	0.5	U	42	U	39	U
Aroclor-1248	63	U	0.6	U	42	U	39	U
Aroclor-1254	1400		0.7	U	50		39	U
Aroclor-1260	63	U	0.8	U	42	U	39	U

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
973-584-0330
December 29, 1997

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

ANALYTICAL DATA REPORT PACKAGE

Client: ROY F. WESTON, INC.
Sampled By: Customer

SAMPLE ID:	MATRIX	LAB NUMBER	DATE & TIME COLLECTED	AT LAB DATE
KKKKSED(S)	Soil	278370	12/04/97 12:15	12/05/97
KKKKSED(D)	Soil	278371	12/04/97 12:20	12/05/97
LLLLSED(S)	Soil	278372	12/04/97 12:25	12/05/97
LLLLSED(D)	Soil	278373	12/04/97 12:15	12/05/97
NNNNSED(S)	Soil	278374	12/04/97 11:55	12/05/97
NNNNSED(D)	Soil	278375	12/04/97 12:00	12/05/97
NNNNSS1	Soil	278376	12/04/97 11:55	12/05/97
NNNNSD1	Soil	278377	12/04/97 12:00	12/05/97
NNNNSS2	Soil	278378	12/04/97 11:55	12/05/97
NNNNSD2	Soil	278379	12/04/97 12:00	12/05/97
OOOOSED(S)	Soil	278380	12/04/97 11:40	12/05/97
OOOOSED(D)	Soil	278381	12/04/97 11:43	12/05/97
OOOOSS1	Soil	278382	12/04/97 11:32	12/05/97
OOOOSD1	Soil	278383	12/04/97 11:37	12/05/97
OOOOSS2	Soil	278384	12/04/97 11:32	12/05/97
OOOOSD2	Soil	278385	12/04/97 11:40	12/05/97
OOOOSS3	Soil	278386	12/04/97 11:32	12/05/97
PPPPSED(S)	Soil	278387	12/04/97 11:31	12/05/97
PPPPSED(D)	Soil	278388	12/04/97 11:34	12/05/97
PPPPSS1	Soil	278389	12/04/97 11:14	12/05/97
PPPPSD1	Soil	278390	12/04/97 11:19	12/05/97
PPPPSS2	Soil	278391	12/04/97 11:14	12/05/97
PPPPSD2	Soil	278392	12/04/97 11:20	12/05/97
QQQQSED(S)	Soil	278393	12/04/97 11:25	12/05/97
QQQQSED(D)	Soil	278394	12/04/97 11:30	12/05/97
QQQQSS1	Soil	278395	12/04/97 10:55	12/05/97
QQQQSD1	Soil	278396	12/04/97 11:00	12/05/97
QQQQSS2	Soil	278397	12/04/97 10:55	12/05/97
QQQQSD2	Soil	278398	12/04/97 11:00	12/05/97
RRRRSED(S)	Soil	278399	12/04/97 10:55	12/05/97
RRRRSED(D)	Soil	278400	12/04/97 11:00	12/05/97
RRRRNS1	Soil	278401	12/04/97 09:08	12/05/97
RRRRND1	Soil	278402	12/04/97 09:15	12/05/97
RRRRNS2	Soil	278403	12/04/97 09:08	12/05/97
RRRRND2	Soil	278404	12/04/97 09:13	12/05/97

Continued on next page.

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
973-584-0330
December 29, 1997

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

ANALYTICAL DATA REPORT PACKAGE

Client: ROY F. WESTON, INC.
Sampled By: Customer

SAMPLE ID:	MATRIX	LAB NUMBER	DATE & TIME COLLECTED	AT LAB DATE
RRRRSS1	Soil	278405	12/04/97 11:06	12/05/97
RRRRSS2	Soil	278406	12/04/97 11:06	12/05/97
RRRRSD2	Soil	278407	12/04/97 11:14	12/05/97
RRRRNS3	Soil	278408	12/04/97 09:08	12/05/97
SSSSSED(S)	Soil	278409	12/04/97 10:34	12/05/97
SSSSSED(D)	Soil	278410	12/04/97 10:40	12/05/97
SSSSNS1	Soil	278411	12/04/97 09:25	12/05/97
SSSSND1	Soil	278412	12/04/97 09:30	12/05/97

Supervisor/Manager Signature:

Sunil Tripathi/Thomas J. Mancuso

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ROB

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
973-584-0330
December 29, 1997

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

ANALYTICAL DATA REPORT PACKAGE

Client: ROY F. WESTON, INC.
Sampled By: Customer

SAMPLE ID:	MATRIX	LAB NUMBER	DATE & TIME COLLECTED	AT LAB DATE
SSSSNS2	Soil	278426	12/04/97 09:25	12/05/97
SSSSND2	Soil	278427	12/04/97 09:30	12/05/97
SSSSSS1	Soil	278428	12/04/97 10:43	12/05/97
SSSSSD1	Soil	278429	12/04/97 10:47	12/05/97
SSSSSS2	Soil	278430	12/04/97 10:42	12/05/97
SSSSSD2	Soil	278431	12/04/97 10:50	12/05/97
TTTTSED(S)	Soil	278432	12/04/97 10:18	12/05/97
TTTTSED(D)	Soil	278433	12/04/97 10:26	12/05/97
TTTTNS1	Soil	278434	12/04/97 09:42	12/05/97
TTTTND1	Soil	278435	12/04/97 09:50	12/05/97
TTTTNS2	Soil	278436	12/04/97 09:42	12/05/97
TTTTND2	Soil	278437	12/04/97 09:47	12/05/97
TTTTSS1	Soil	278438	12/04/97 10:03	12/05/97
TTTTSD1	Soil	278439	12/04/97 10:08	12/05/97
TTTTSS2	Soil	278440	12/04/97 10:03	12/05/97
TTTTSD2	Soil	278441	12/04/97 10:12	12/05/97
TTTTNS3	Soil	278442	12/04/97 09:42	12/05/97
UUUUSED(S)	Soil	278443	12/04/97 09:50	12/05/97
UUUUSED(D)	Soil	278444	12/04/97 09:52	12/05/97
UUUUNS1	Soil	278445	12/04/97 10:10	12/05/97
UUUUND1	Soil	278446	12/04/97 10:17	12/05/97
UUUUNS2	Soil	278447	12/04/97 10:10	12/05/97
UUUUND2	Soil	278448	12/04/97 10:17	12/05/97
UUUUSS1	Soil	278449	12/04/97 09:40	12/05/97
UUUUSD1	Soil	278450	12/04/97 09:45	12/05/97
UUUUSS2	Soil	278451	12/04/97 09:42	12/05/97
UUUUSD2	Soil	278452	12/04/97 09:46	12/05/97
VVVVSED(S)	Soil	278453	12/04/97 09:31	12/05/97
VVVVSED(D)	Soil	278454	12/04/97 09:35	12/05/97
VVVVNS1	Soil	278455	12/04/97 10:32	12/05/97
VVVVND1	Soil	278456	12/04/97 10:37	12/05/97
VVVVNS2	Soil	278457	12/04/97 10:32	12/05/97
VVVVND2	Soil	278458	12/04/97 10:37	12/05/97
VVVVSS1	Soil	278459	12/04/97 09:22	12/05/97
VVVVSS2	Soil	278460	12/04/97 09:22	12/05/97

Continued on next page.

INDUSTRIAL CORROSION MANAGEMENT, Inc.
1152 Route 10
Randolph, NJ 07869
973-584-0330
December 29, 1997

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

ANALYTICAL DATA REPORT PACKAGE

Client: ROY F. WESTON, INC.
Sampled By: Customer

SAMPLE ID:	MATRIX	LAB NUMBER	DATE & TIME COLLECTED	AT LAB DATE
VVVVSD2	Soil	278461	12/04/97 09:26	12/05/97
VVVVNS3	Soil	278462	12/04/97 10:37	12/05/97
RB2	Aqueous	278463	12/04/97 12:50	12/05/97
MMMMSED(S)	Soil	278464	12/04/97 12:13	12/05/97
MMMMSED(D)	Soil	278465	12/04/97 12:15	12/05/97

Supervisor/Manager Signature:

Sunil Tripathi/Thomas J. Mancuso

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ROB

INDUSTRIAL CORROSION MANAGEMENT, INC
1152 Route 10
Randolph, NJ 07869
Phone: 973-584-0330 FAX: 973-584-0515

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following laboratory deliverables shall be included in the data submissions. All deviations from the accepted methodology and procedures or performance values outside acceptable ranges shall be summarized in the Non-Conformance statement. The NJDEP "Technical Requirements for Site Remediation" rules, effective June 7, 1993 and readopted February 18,1997 (operative date - July 18, 1997), provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results &summary sheets listing all targeted and non-targeted compounds with the method detection limits be included in one section of the data package and in the main body of the report.

		Check if Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name & address, and date of report	✓
2.	Table of Contents	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds	✓
4	Summary Table cross-referencing field ID #'s vs. Lab ID #'s.	✓
5.	Document bound, paginated and legible	✓
6.	Chain of Custody	✓
7.	Methodology Summary	✓
6.	Laboratory Chronicle and Holding Time Check	✓
9.	Results submitted on a dry weight basis (if applicable)	✓
10.	Method Detection Limits	✓
11.	Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP	✓
12.	Non-Conformance Summary	✓

ICM LABORATORIES
Quality Assurance Officer

12/29/97
Date

CHAIN OF CUSTODY RECORD

RFP No.: 2272

PO No.: 37961

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-5116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS KEN	COR	REAC	OTHER
KKKSED(S)	12/4/97/1215	5	L/M	G	6				X						278370
KKKSED(D)	12/4/97/1220														371
LLLSED(S)	12/4/97/1225														372
LLLSED(D)	12/4/97/1215														373
NNNNSED(S)	12/4/97/1155														374
SED(D)	12/4/97/~~1155~~ 1200														375
SS1	12/4/97/~~1200~~ 1155														376
SD1	12/4/97/1200														377
SS2	12/4/97/1155														378
SD2	12/4/97/1200														379
0000SED(S)	12/4/97/1140														380

Comments: PCB only

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Malek	1700	12/4/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	M. Malek	1700	12/4/97	FEDEX 4811729602	DELIVER TO LAB
ALL	FEDEX 4811729602	10:50	12/5/97	SHANNON CHARTERS	RECEIPT AT LAB

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

RFP No.: 2272

PO No.: 07961

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-5116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS GEN	COR	REAC	OTHER
000 SED(0)	12/4/97/1143	5	L/M	G	6				X						278381
SS1	12/4/97/1132														MS/MSD 382
SD1	12/4/97/1137														383
SS2	12/4/97/1132														384
SD2	12/4/97/1140														385
SS3	12/4/97/1132														386
000P SED(s)	12/4/97/1131														387
SED(0)	12/4/97/1134														388
SS1	12/4/97/1114														389
SD1	12/4/97/1119														390
SS2	12/4/97/1114														391

Comments: PCB only

Person Assuming Responsibility for Sample: M. Mahoney — Time: 1700 — Date (MM/DD/YY): 12/4/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	M. Mahoney	1700	12/4/97	FEDEX 4811729602	DELIVER TO LAB
ALL	FEDEX 4811729602	10:50	12/5/97	SHANNON CHARTERS	RECEIPT AT LAB
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

REP No.: 2272

PO No.: 87961

WESTON

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL/CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
PPS02	12/4/97/1120	5	L/M	G	6				X					278392
QQQSEP(S)	12/4/97/1125													393
SED(D)	12/4/97/1130													394
SS1	12/4/97/1055													395
SO2	12/4/97/1100													396
SS2	12/4/97/1055													397
SO2	12/4/97/1100													398
RRR SED(S)	12/4/97/1055													399
SED(D)	12/4/97/1100													400
NS1	12/4/97/0908													MS/MSD 401

Comments: PCB only

Person Assuming Responsibility for Sample: M. Mackey — Time: 1700 — Date (MM/DD/YY): 12/4/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	M. Mackey	1700	12/4/97	FEDEX 4811729602	DELIVER TO LAB
ALL	FEDEX 4811729602	10:50	12/5/97	SHANNON CHARTERS	RECEIPT AT LAB

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

RFP No.: 2272

PO No.: 87961

CHAIN OF CUSTODY RECORD

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaiy, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
RRR ND1	12/4/97/0915	5	L/m	G	6				X						278402
NS2	12/4/97/0908														403
ND2	12/4/97/0913														404
SS1	12/4/97/1106														405
SS2	12/4/97/1106														406
SD2	12/4/97/1114														407
NS3	12/4/97/0908														408
SSSS SED(S)	12/4/97/1034														409
SED(D)	12/4/97/1040														410
NS1	12/4/97/0925														411
ND1	12/4/97/0930														412

Comments: PCB only

Person Assuming Responsibility for Sample: M. Mahfood — Time: 1700 — Date (MM/DD/YY): 12/4/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	M. Mahfood	1700	12/4/97	FEDEX 4811729602	DELIVER TO LAB
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	FEDEX 4811729602	10:50	12/5/97	SHANNON CHARTERS	RECEIPT AT LAB
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

RFP No.: 2272

PO No.: 87961

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS CEN	COR	REAC	OTHER
SSS NS2	12/4/97/0925	5	L/M	G	6				X						278426
NA2	12/4/97/0930														278427
SS1	12/4/97/1043														428
SD1	12/4/97/1047														429
SS2	12/4/97/1042														430
SD2	12/4/97/1050														431
TTT SED(S)	12/4/97/1018														432
SED(D)	12/4/97/1026														433
NS1	12/4/97/0942														MS/MSD 434
NO1	12/4/97/0950														435
NS2	12/4/97/0942														436

Comments: PCB only

Person Assuming Responsibility for Sample: M. Mahoney — Time: 1700 — Date (MM/DD/YY): 12/4/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	M. Mahoney	1700	12/4/97	FEDEX 4811729602	DELIVER TO LAB
ALL	FEDEX 4811729602	10:50	12/5/97	SHANNON CHARTERS	RECEIPT AT LAB 2.9°C

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

REP No.: 2272

PO No.: 87961

WESTON — MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
TTTN02	12/4/97/0947	5	L/M	G	6				X						278437
SS1	12/4/97/1003														438
SD1	12/4/97/1008														439
SS2	12/4/97/1003														440
SD2	12/4/97/1012														441
NS3	12/4/97/0942														442
UUU SED(S)	12/4/97/0950														443
SED(D)	12/4/97/0952														444
NS1	12/4/97/~~1017~~ 1010														445
~~NS2~~ NO1	12/4/97/1017														446
NS2	12/4/97/1010														447

Comments: PCB only

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Mahankey	1700	12/4/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	M. Mahankey	1700	12/4/97	FEDEX 4811729602	DELIVER TO LAB
ALL	FEDEX 4811729602	10:50	12/5/97	SHANNON CHARTERS	RECEIPT AT LAB 2.9°C

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

RFP No.: 2272

PO No.: 87961

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
MUU ND2	12/4/97/1017	5	L/M	G	6				X						278448
SS1	12/4/97/0940														449
SD1	12/4/97/0945														450
SS2	12/4/97/0942														451
SD2	12/4/97/0946														452
VVV SED(S)	12/4/97/0931														453
SED(D)	12/4/97/0935														454
NS1	12/4/97/1032														MS/MSD 455
ND1	12/4/97/1037														456
NS2	12/4/97/1032														457
ND2	12/4/97/1037														458

Comments: PCB only

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Mahnkopf	1700	12/4/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	M. Mahnkopf	1700	12/4/97	FEDEX 4811729602	DELIVER TO LAB
ALL	FEDEX 4811729602	10:50	12/5/97	SHANNON CHARTERS	RECEIPT AT LAB 2.9°C

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

RFP No.: 2272

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WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaiy, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
NV SS1	12/4/97/0922	5	L/M	G	6				X						278459
SS2	12/4/97/0922	↓	↓	↓	↓				↓						460
SD2	12/4/97/0926														461
NS3	12/4/97 1037														462
RB2	12/4/97/~~12~~ 1250	4	L/M	G	6				X						463
MMMM SED(s)	12/4/97/1213	5	L/M	G	6				X						464
MMMM SED(D)	12/4/97/1215	5	L/M	G	6				X						465

Comments: PCB only

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Mahoney	1700	12/4/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	M. Mahoney	1700	12/4/97	FEDEX 4811729602	DELIVER TO LAB

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
ALL	FEDEX 4811729602	10:50	12/5/97	SHANNON CHARTERS	RECEIPT AT LAB

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

ICM Laboratories, Inc.
Internal Chain-of-Custody

LINK: 278370-278412

Account number: WA2513
Project: RFP#2272
Tier Level: Regulatory

ROY F. WESTON, INC.

Laboratory Person Breaking Seal on Shuttle: Shannon Charters
Title: Login

Lab Number	Relinq. By	Recd. By	Date	Time	Reason for Transfer	Aliquot ID
All	[illegible]	[illegible]	12/05/97	13:30	STORAGE	ALL
all	JL	[illegible]	12-9-97	1600	PCB	Bal
all	[illegible]	SC	12-22-97	830	storage	Bal

ICM Laboratories, Inc.
Internal Chain-of-Custody

INK: 278426-278465

Account number: WA2513
Project: RFP#2272
Tier Level: Regulatory

ROY F. WESTON, INC.

Laboratory Person Breaking Seal on Shuttle: Sharon Charters

Title: Login

Lab Number	Relinq. By	Recd. By	Date	Time	Reason for Transfer	Aliquot ID
All	[illegible]	SV	12/05/97	1413	STORAGE	ALL
all	JL	ATP	12-9-97	1600	PCB	841
all	ATP	SV	12-22-97	830	storage	841

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278370
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
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DECEMBER 29, 1997

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LABORATORY CHRONICLE

LAB #:	278371
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DATE SAMPLED:	12/04/97
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*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

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DECEMBER 29, 1997

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LABORATORY CHRONICLE

LAB #:	278372
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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LABORATORY CHRONICLE

LAB #:	278373
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
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*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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DECEMBER 29, 1997

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NJ #14116 NY #11376
US EPA CLP Lab

LABORATORY CHRONICLE

LAB #:	278374
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278375
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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1152 Route 10
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DECEMBER 29, 1997

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US EPA CLP Lab

LABORATORY CHRONICLE

LAB #:	278376
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

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1152 Route 10
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DECEMBER 29, 1997

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LABORATORY CHRONICLE

LAB #:	278377
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

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DECEMBER 29, 1997

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LABORATORY CHRONICLE

LAB #:	278378
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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LABORATORY CHRONICLE

LAB #:	278379
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278380
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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1152 Route 10
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973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278381
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278382
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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DECEMBER 29, 1997

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LABORATORY CHRONICLE

LAB #:	278383
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
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PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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DECEMBER 29, 1997

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US EPA CLP Lab

LABORATORY CHRONICLE

LAB #:	278384
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

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PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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DECEMBER 29, 1997

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LABORATORY CHRONICLE

LAB #:	278385
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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LABORATORY CHRONICLE

LAB #:	278386
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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1152 Route 10
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DECEMBER 29, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
NJ #14116 NY #11376
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LABORATORY CHRONICLE

LAB #:	278387
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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1152 Route 10
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DECEMBER 29, 1997

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US EPA CLP Lab

LABORATORY CHRONICLE

LAB #:	278388
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/16/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
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DECEMBER 29, 1997

Certified for: NJ, PA, DE, CT, NY(DOH)
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LABORATORY CHRONICLE

LAB #:	278389
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/16/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
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LABORATORY CHRONICLE

LAB #:	278390
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
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DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278391
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
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DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278392
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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LABORATORY CHRONICLE

LAB #:	278393
SOURCE:	RFP#2272
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LABORATORY CHRONICLE

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DATE SAMPLED:	12/04/97
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PCB Analyzed:	12/15/97

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DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278395
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
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DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278396
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278397
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

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1152 Route 10
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DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278398
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/17/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278399
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278400
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278401
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278402
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278403
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278404
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278405
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/17/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278406
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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LABORATORY CHRONICLE

LAB #:	278407
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278408
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278409
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/15/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278410
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278411
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/17/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278412
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/17/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278426
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/17/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278427
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/17/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278428
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/17/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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US EPA CLP Lab

LABORATORY CHRONICLE

LAB #:	278429
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278430
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/17/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278431
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/17/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278432
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278433
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278434
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278435
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278436
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278437
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278438
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/17/97
PCB Analyzed:	12/22/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278439
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278440
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278441
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/18/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278442
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/22/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278443
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/17/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278444
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278445
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278446
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278447
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278448
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278449
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278450
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278451
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278452
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278453
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
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Certified for: NJ, PA, DE, CT, NY(DOH)
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LABORATORY CHRONICLE

LAB #:	278454
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278455
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278456
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278457
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278458
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278459
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278460
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278461
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278462
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/12/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278463
SOURCE:	RFP#2272
MATRIX:	Liquid (Aqueous)
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/09/97
PCB Analyzed:	12/14/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278464
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/17/97
PCB Analyzed:	12/19/97

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 29, 1997

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

LABORATORY CHRONICLE

LAB #:	278465
SOURCE:	RFP#2272
MATRIX:	Soil
DATE SAMPLED:	12/04/97
DATE RECEIPT:	12/05/97

*** GC PESTICIDES/PCB'S/HERBICIDES: ***

PCB Extracted:	12/17/97
PCB Analyzed:	12/19/97

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	NO	YES
1. Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks)	____	✓
2. Standards Summary Submitted	____	✓
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis	____	✓

4. Blank Contamination - If yes, list compounds and concentrations in each blank:

   a. VOA Fraction _____
   b. B/N Fraction _____
   c. Acid Fraction _____
   d. Pesticides/PCB's _____
   e. Other _____

5. Surrogate Recoveries Meet Criteria (if applicable) ____ ✓

   If not met, list those compounds and their recoveries which fall outside the acceptable range:

   a. VOA Fraction _____
   b. B/N Fraction _____
   c. Acid Fraction _____
   d. Pesticides/PCB's _____
   e. Other _____

   If not met, were the calculations checked and the results qualified as "estimated?" ____N/A____

6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (if applicable) ____ ✓*

   (If not met, list those compounds and their recoveries which fall outside the acceptable range)

   a. VOA Fraction _____
   b. B/N Fraction _____
   c. Acid Fraction _____
   d. * Pesticides/PCB's The following samples had MS/MSD recoveries outside QC limits due to interferences from the presence of aroclor 1254: 278352, 278401, 278434, and 278453
   e. Other _____

7. Retention Time Shift Meet Criteria (if applicable) ____ ✓

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (CONTINUED)

	NO	YES
8. Extraction Holding Time Met	___	✓

If not met, list number of days exceeded for each sample: _____

	NO	YES
9. Analysis Holding Time Met	___	✓

If not met, list number of days exceeded for each sample: _____

Additional Comments: Order 1248#3 on 12/15/97 at 1:32 had 1 surrogate outside the windows - this is an ending standard and is not being used for quantitation

Quality Assurance Manager: Paula Kolero Blaze Date: 12/29/97

Organochlorine Pesticides and PCB's
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 8080A

GC Extraction - Sonication Extraction
*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition
**Method 3550A

* Indicates reference.
** Indicates method.

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278370
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: KKKKSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	200ml
Dilution Factor:	20	Sample Moisture:	62.6%

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	1800	890
Aroclor-1221	U	U	3600	2500
Aroclor-1232	U	U	1800	1400
Aroclor-1242	U	U	1800	890
Aroclor-1248	U	U	1800	1100
Aroclor-1254	~~24000~~-22000 J	U	1800	1200
Aroclor-1260	U J	U	1800	1400

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.
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LOU

AMENDED REPORT JUN 0 9 1998

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1845.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_E\EA1845.D\ECD2B.CH
Acq On : 18 Dec 97 16:16 Operator:
Sample : 278370 1:20 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 22:11 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	6.24	5.06	18060	25792	1.313	1.297
Spiked Amount 40.000 Range 43 - 150 Recovery =					3.28%#	3.24%#
2) SA Decachlorobiphen	25.84	21.39	32631	32392	1.402m	1.491m
Spiked Amount 40.000 Range 24 - 154 Recovery =					3.51%#	3.73%#
Target Compounds						
4) L1 Aroclor-1016{2}	9.35	7.57	71804	90481	105.909	103.897
5) L1 Aroclor-1016{3}	10.55	8.81	51161	78093	40.063	42.080
6) L1 Aroclor-1016{4}	0.00	9.24	0	185233	N.D.	219.618 #
7) L1 Aroclor-1016{5}	12.54	10.52	813693	1204914	1246.441	1430.266
Sum Aroclor-1016			936659	1558721	1392.413	1795.861
Average Aroclor-1016					464.138	448.965
11) L2 Aroclor-1221{4}	0.00	8.81	0	78093	N.D.	568.578 #
Sum Aroclor-1221			0	78093	N.D.	568.578
Average Aroclor-1221					0.000	568.578
13) L3 Aroclor-1232{2}	9.35	7.57	71804	90481	231.216	246.498
14) L3 Aroclor-1232{3}	10.55	8.81	51161	78093	100.599	103.792
15) L3 Aroclor-1232{4}	12.54	9.24	813693	185233	2579.875	549.065 #
16) L3 Aroclor-1232{5}	13.45	10.52	270378	1204914	1191.934	3160.743 #
Sum Aroclor-1232			1207037	1558721	4103.623	4060.097
Average Aroclor-1232					1025.906	1015.024
18) L4 Aroclor-1242{2}	9.35	7.57	71804	90481	133.565	139.440
19) L4 Aroclor-1242{3}	10.55	8.81	51161	78093	52.634	55.989
20) L4 Aroclor-1242{4}	0.00	9.24	0	185233	N.D.	302.714 #
21) L4 Aroclor-1242{5}	12.54	10.52	813693	1204914	1460.144	1821.595
Sum Aroclor-1242			936659	1558721	1646.343	2319.738
Average Aroclor-1242					548.781	579.934
22) L5 Aroclor-1248{1}	9.35	7.57	71804	90481	249.744	254.182
23) L5 Aroclor-1248{2}	10.55	8.81	51161	78093	60.989	64.406
24) L5 Aroclor-1248{3}	12.54	10.52	813693	1204914	1069.890	1282.349
25) L5 Aroclor-1248{4}	13.45	10.80	270378	269947	380.661	311.227

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12/18/97

(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_E\EA1845.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_E\EA1845.D\ECD2B.CH
Acq On : 18 Dec 97 16:16 Operator:
Sample : 278370 1:20 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 22:11 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	
26) L5	Aroclor-1248{5}	15.61	13.50	2033965	2441189	6127.115	6897.511	
Sum	Aroclor-1248			3241002	4084623	7888.398	8809.675	
Average	Aroclor-1248					1577.680	1761.935	
27) L6	Aroclor-1254{1}	~~11.61~~	~~9.79~~	~~914353~~	~~1218742~~	~~2443.978~~	~~1977.242m~~	
2[illegible]) L6	Aroclor-1254{2}	13.81	11.68	889975	1575804	1499.771	1275.767	
2[illegible]) L6	Aroclor-1254{3}	15.61	12.20	2033965	647439	1565.388	655.155	#
30) L6	Aroclor-1254{4}	16.53	13.50	597873	2441189	957.302	1743.445	#
31) L6	Aroclor-1254{5}	17.75	15.58	1304041	1608966	1075.152	1171.277	
Sum	Aroclor-1254			5740208	7492140	7541.591	6822.887	
Average	Aroclor-1254					~~1508.318~~ 1274.43	~~1364.577~~ 1211	
3[illegible]) L7	Aroclor-1260{1}	0.00	13.95	0	800892	N.D.	729.992	#
3[illegible]) L7	Aroclor-1260{2}	16.53	14.59	597873	806572	507.146	553.998	
34) L7	Aroclor-1260{3}	18.95	15.58	306589	1608966	369.545	847.796	#
3[illegible]) L7	Aroclor-1260{4}	19.48	17.40	259689	290484	135.494	130.273	
3[illegible]) L7	Aroclor-1260{5}	20.80	0.00	197867	0	126.624	N.D.	#
Sum	Aroclor-1260			1362018	3506913	1138.808	2262.058	
Average	Aroclor-1260					284.702	565.515	

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12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1845.D\ECD1A.CH Vial: 3
Signal #2 : E:\WESTDA~1\EA1845.D\ECD2B.CH
Acq On : 18 Dec 97 16:16 Operator:
Sample : 278370 1:20 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:24 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.06	18060	25770	1.270	1.190
Spiked Amount 40.000 Range 43 - 150 Recovery =					3.18%#	2.98%#
2) SA Decachlorobiphen	25.84	21.40	33601	32361	1.429m	1.418
Spiked Amount 40.000 Range 24 - 154 Recovery =					3.57%#	3.54%#

Target Compounds

6/5/98

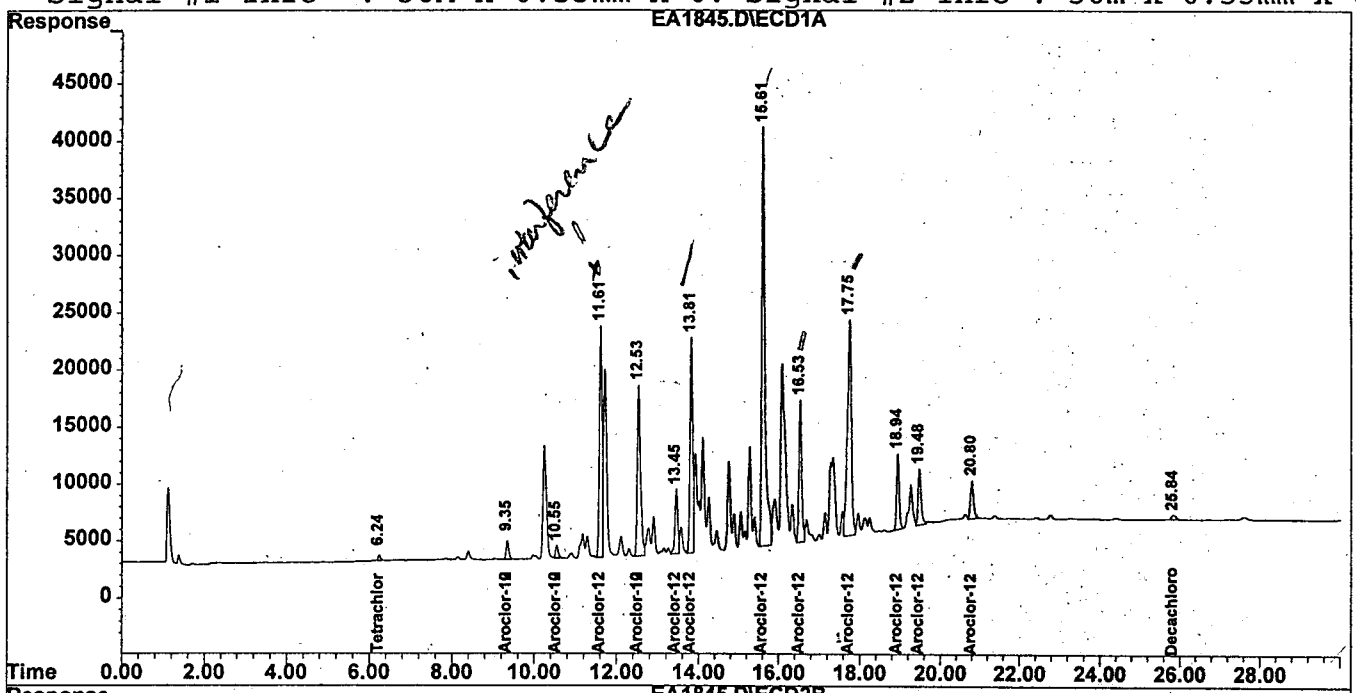
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

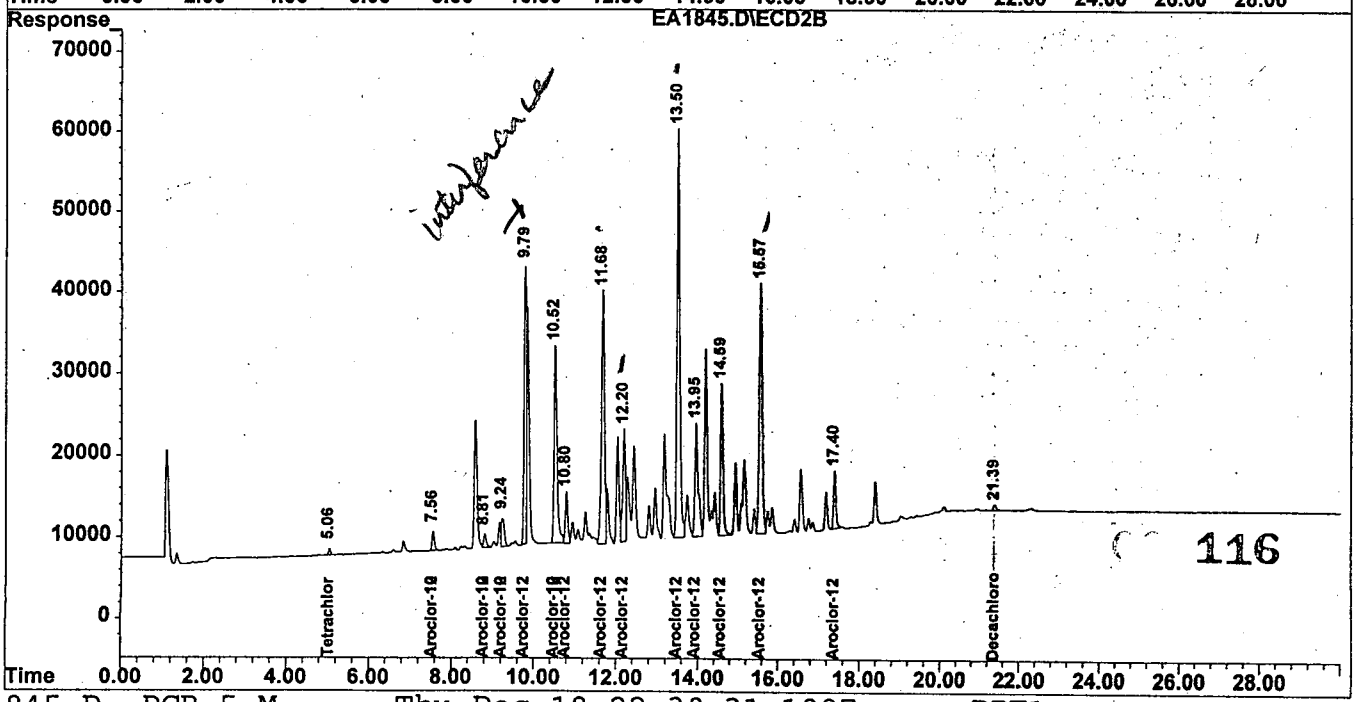
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1845.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_E\EA1845.D\ECD2B.CH
Acq On : 18 Dec 97 16:16 Operator:
Sample : 278370 1:20 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 22:11 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





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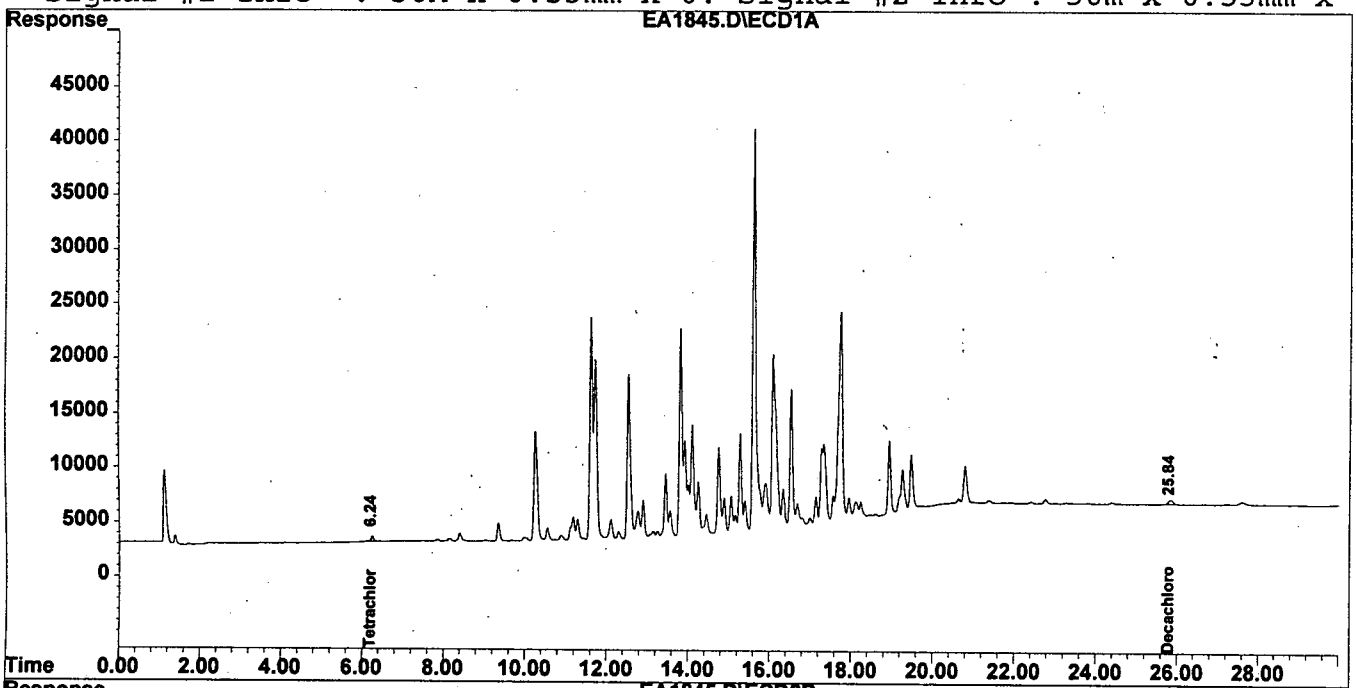
Quantitation Report

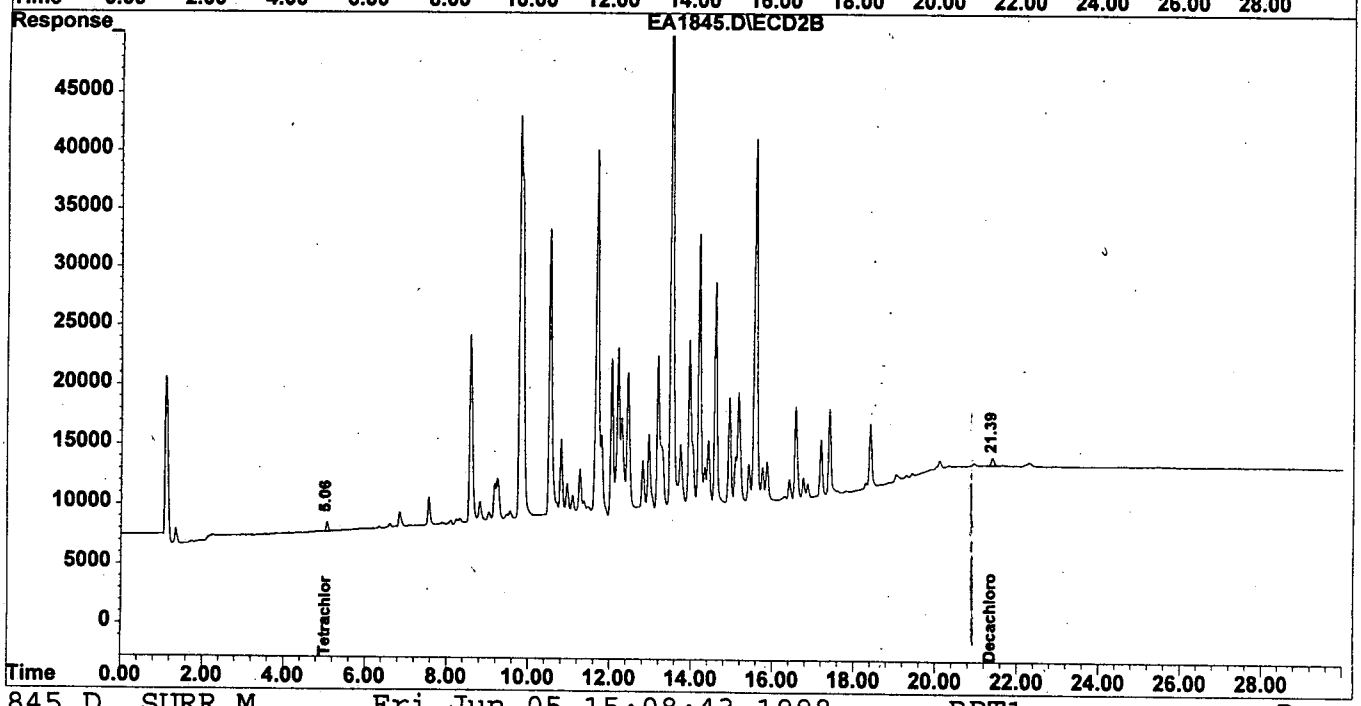
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1845.D\ECD1A.CH Vial: 3
Signal #2 : E:\WESTDA~1\EA1845.D\ECD2B.CH
Acq On : 18 Dec 97 16:16 Operator:
Sample : 278370 1:20 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:24 1998 Quant Results File: SURR.RES

Quant Method : H:\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





116A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278371
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: KKKKSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	32.78%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	500	250
Aroclor-1221	U	U	990	690
Aroclor-1232	U	U	500	400
Aroclor-1242	U	U	500	250
Aroclor-1248	U	U	500	300
Aroclor-1254	~~15000~~ 12000	U	500	350
Aroclor-1260	U	U	500	400

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1854.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_E\EA1854.D\ECD2B.CH
Acq On : 18 Dec 97 21:34 Operator:
Sample : 278371 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 22:49 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	6.24	5.07	67049	79284	4.874	3.986
Spiked Amount 40.000 Range 43 - 150 Recovery =					12.19%#	9.97%#
2) SA Decachlorobiphen	25.84	21.41	159143	151878	6.840	6.989
Spiked Amount 40.000 Range 24 - 154 Recovery =					17.10%#	17.47%#
Target Compounds						
4) L1 Aroclor-1016{2}	9.34	0.00	218142	0	321.754	N.D. #
5) L1 Aroclor-1016{3}	10.54	8.82	210101	463202	164.525	249.594 #
6) L1 Aroclor-1016{4}	0.00	9.26	0	623399	N.D.	739.123 #
7) L1 Aroclor-1016{5}	12.53	10.53	1737985	5268438	2662.300	6253.782 #
Sum Aroclor-1016			2166228	6355040	3148.579	7242.499
Average Aroclor-1016					1049.526	2414.166
9) L2 Aroclor-1221{2}	0.00	6.35	0	53334	N.D.	308.031 #
10) L2 Aroclor-1221{3}	7.84	0.00	145047	0	1053.234	N.D. #
11) L2 Aroclor-1221{4}	0.00	8.82	0	463202	N.D.	3372.476 #
Sum Aroclor-1221			145047	516536	1053.234	3680.506
Average Aroclor-1221					1053.234	1840.253
13) L3 Aroclor-1232{2}	9.34	0.00	218142	0	702.439	N.D. #
14) L3 Aroclor-1232{3}	10.54	8.82	210101	463202	413.123	615.632 #
15) L3 Aroclor-1232{4}	12.53	9.26	1737985	623399	5510.410	1847.869 #
16) L3 Aroclor-1232{5}	13.44	10.53	633723	5268438	2793.700	13820.226 #
Sum Aroclor-1232			2799951	6355040	9419.672	16283.727
Average Aroclor-1232					2354.918	5427.909
18) L4 Aroclor-1242{2}	9.34	0.00	218142	0	405.774	N.D. #
19) L4 Aroclor-1242{3}	10.54	8.82	210101	463202	216.147	332.096 #
20) L4 Aroclor-1242{4}	0.00	9.26	0	623399	N.D.	1018.780 #
21) L4 Aroclor-1242{5}	12.53	10.53	1737985	5268438	3118.753	7964.853 #
Sum Aroclor-1242			2166228	6355040	3740.674	9315.729
Average Aroclor-1242					1246.891	3105.243
22) L5 Aroclor-1248{1}	9.34	0.00	218142	0	758.726	N.D. #
23) L5 Aroclor-1248{2}	10.54	8.82	210101	463202	250.460	382.016 #

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(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_E\EA1854.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_E\EA1854.D\ECD2B.CH
Acq On : 18 Dec 97 21:34 Operator:
Sample : 278371 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 22:49 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
24) L5	Aroclor-1248{3}	12.53	10.53	1737985	5268438	2285.201	5607.021 #
25) L5	Aroclor-1248{4}	13.44	10.81	633723	2556967	892.208	2947.983 #
26) L5	Aroclor-1248{5}	15.60	13.51	4298686	5019240	12949.357	14181.721
Sum	Aroclor-1248			7098637	13307848	17135.951	23118.742
Average	Aroclor-1248					3427.190	5779.685
						NP	NP
27) L6	Aroclor-1254{1}	~~11.60~~	~~9.80~~	~~2010459~~	~~3102182~~	~~5373.764~~	~~5032.865~~
28) L6	Aroclor-1254{2}	13.80	11.69	1808553	2989198	3047.743	2420.048
29) L6	Aroclor-1254{3}	15.60	12.21	4298686	1341565	3308.370	1357.554 #
30) L6	Aroclor-1254{4}	16.52	13.51	1250136	5019240	2001.692	3584.634 #
31) L6	Aroclor-1254{5}	17.74	15.59	2896222	3554297	2387.869	2587.419
Sum	Aroclor-1254			12264057	16006482	16119.438	14982.519
Average	Aroclor-1254					~~3223.888~~	~~2996.504~~
						2686.48	2487.44
32) L7	Aroclor-1260{1}	0.00	13.96	0	1843627	N.D.	1680.417 #
33) L7	Aroclor-1260{2}	16.52	14.60	1250136	1720623	1060.427	1181.819
34) L7	Aroclor-1260{3}	18.94	15.59	693577	3554297	835.998	1872.829 #
35) L7	Aroclor-1260{4}	19.48	17.41	669826	664894	349.484	298.184
36) L7	Aroclor-1260{5}	0.00	18.41	0	535286	N.D.	328.637 #
Sum	Aroclor-1260			2613540	8318728	2245.910	5361.886
Average	Aroclor-1260					748.637	1072.377
						NP	NP

GC 119

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1854.D\ECD1A.CH Vial: 12
Signal #2 : E:\WESTDA~1\EA1854.D\ECD2B.CH
Acq On : 18 Dec 97 21:34 Operator:
Sample : 278371 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:26 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	67049	85604	4.714	3.954m
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.79%#	9.89%#
2) SA Decachlorobiphen	25.84	21.41	186872	170502	7.945m	7.474m
Spiked Amount 40.000 Range 24 - 154 Recovery =					19.86%#	18.69%#

Target Compounds

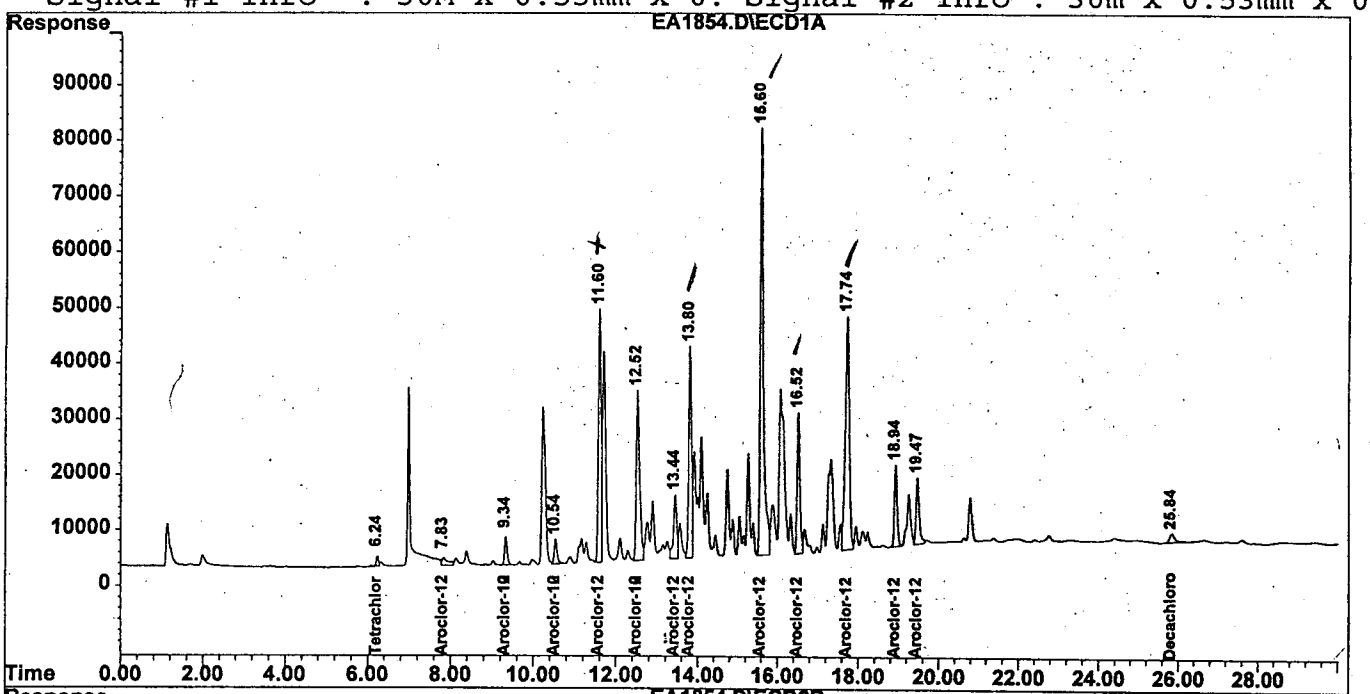
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

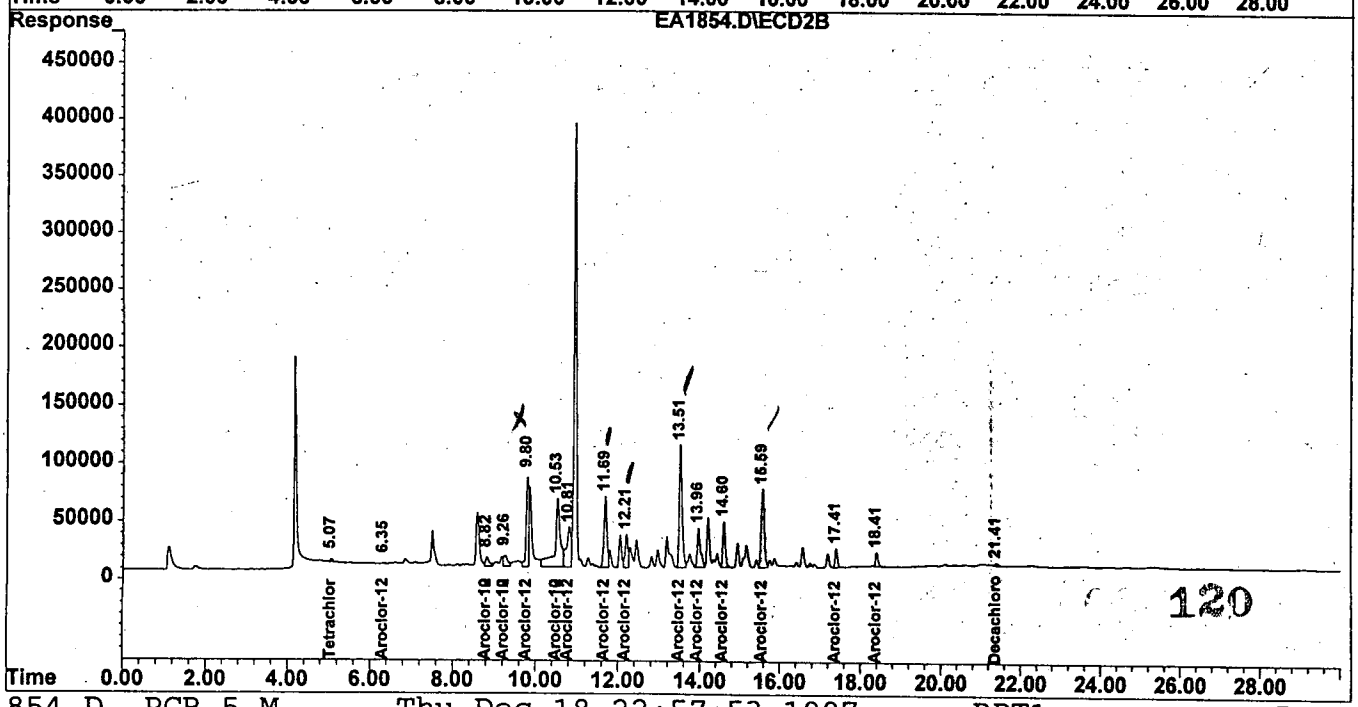
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1854.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_E\EA1854.D\ECD2B.CH
Acq On : 18 Dec 97 21:34 Operator:
Sample : 278371 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 22:49 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





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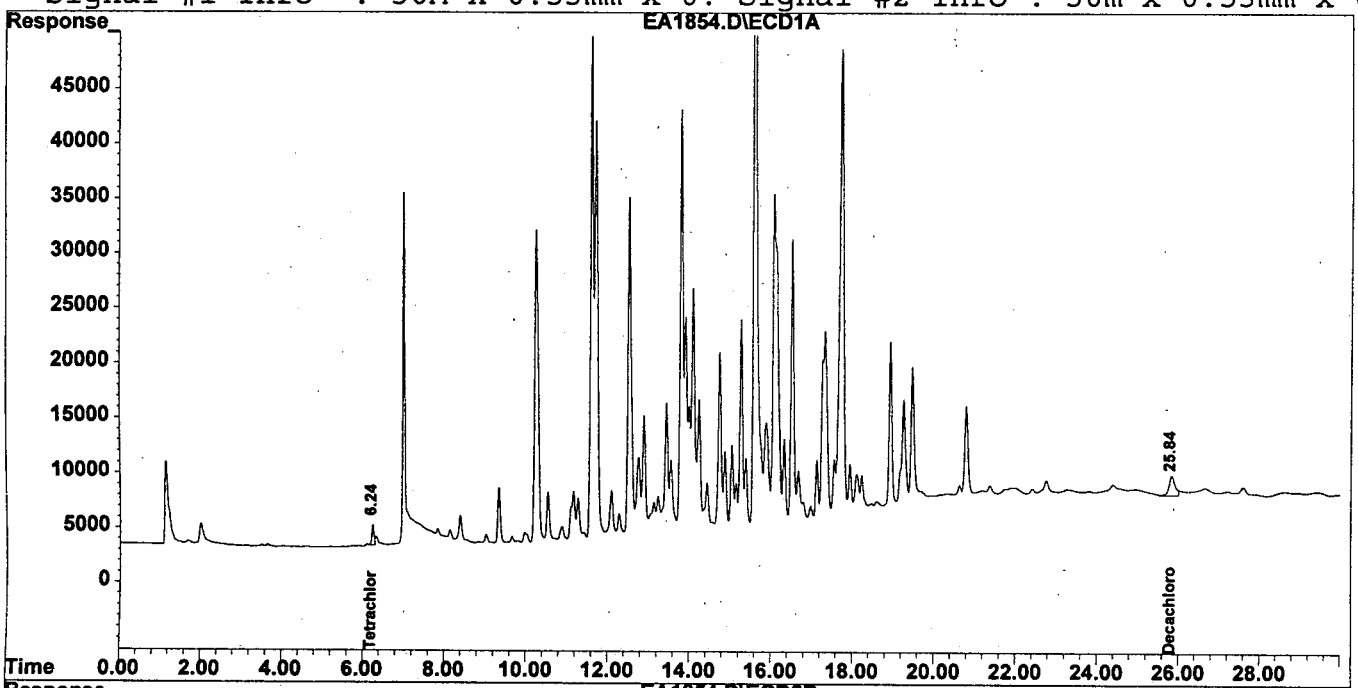
Quantitation Report

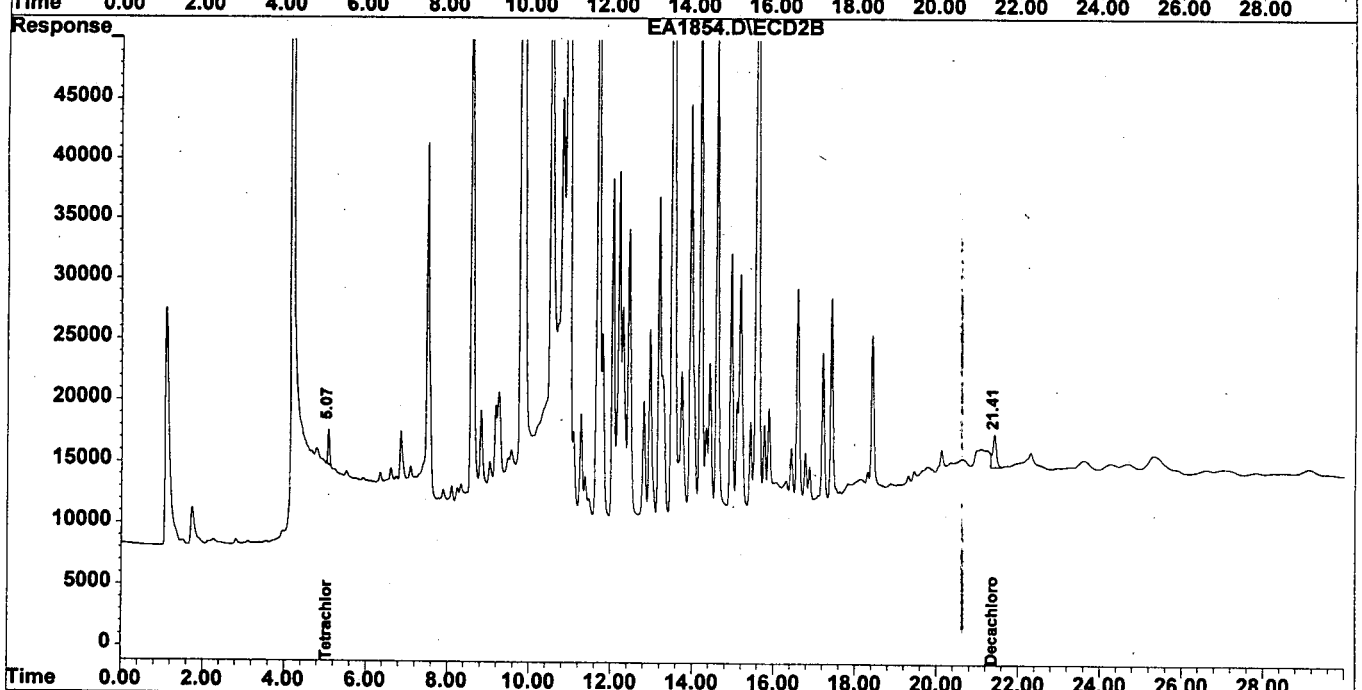
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1854.D\ECD1A.CH Vial: 12
Signal #2 : E:\WESTDA~1\EA1854.D\ECD2B.CH
Acq On : 18 Dec 97 21:34 Operator:
Sample : 278371 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:26 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278372
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: LLLLSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	34.4%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	51	25
Aroclor-1221	U	U	100	71
Aroclor-1232	U	U	51	41
Aroclor-1242	U	U	51	25
Aroclor-1248	U	U	51	30
Aroclor-1254	~~560~~ 590	U	51	36
Aroclor-1260	U J	U	51	41

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.
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J AR1260 :: %D NG CCV.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1786.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA_E\EA1786.D\ECD2B.CH
Acq On : 15 Dec 97 12:48 Operator:
Sample : 278372 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:38 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	6.84	5.08	478244	681704	34.762	34.277
Spiked Amount 40.000 Range 43 - 150 Recovery =					86.91%	85.69%
2) SA Decachlorobiphen	25.87	21.42	793267	733865	34.094	33.772
Spiked Amount 40.000 Range 24 - 154 Recovery =					85.24%	84.43%
Target Compounds						
3) L1 Aroclor-1016{1}	7.98	0.00	34204	0	102.777	N.D. #
4) L1 Aroclor-1016{2}	9.35	7.57	40430	83837	59.633	96.268 #
5) L1 Aroclor-1016{3}	10.55	8.85	102302	132053	80.110	71.156
6) L1 Aroclor-1016{4}	0.00	9.20	0	140030	N.D.	166.025 #
7) L1 Aroclor-1016{5}	12.54	10.55	377017	535094	577.526	635.171
Sum Aroclor-1016			553953	891015	820.046	968.621
Average Aroclor-1016					205.012 NP	242.155 NP
11) L2 Aroclor-1221{4}	7.98	8.85	34204	132053	83.856	961.451 #
Sum Aroclor-1221			34204	132053	83.856	961.451
Average Aroclor-1221					83.856 NP	961.451 NP
13) L3 Aroclor-1232{2}	9.35	7.57	40430	83837	130.189	228.399 #
14) L3 Aroclor-1232{3}	10.55	8.85	102302	132053	201.157	175.909
15) L3 Aroclor-1232{4}	12.54	9.20	377017	140030	1195.359	415.075 #
16) L3 Aroclor-1232{5}	13.46	10.55	452593	535094	1995.209	1403.665 #
Sum Aroclor-1232			972342	891015	3521.914	2222.648
Average Aroclor-1232					880.478 NP	555.662 NP
18) L4 Aroclor-1242{2}	9.35	7.57	40430	83837	75.205	129.201 #
19) L4 Aroclor-1242{3}	10.55	8.85	102302	132053	105.246	94.676
20) L4 Aroclor-1242{4}	0.00	9.20	0	140030	N.D.	228.842 #
21) L4 Aroclor-1242{5}	12.54	10.55	377017	535094	676.543	808.958
Sum Aroclor-1242			519748	891015	856.994	1261.678
Average Aroclor-1242					285.665 NP	315.419 NP
22) L5 Aroclor-1248{1}	9.35	7.57	40430	83837	140.621	235.519 #
23) L5 Aroclor-1248{2}	10.55	8.85	102302	132053	121.953	108.908
24) L5 Aroclor-1248{3}	12.54	10.55	377017	535094	495.723	569.483

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Rev 12/18/97

(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_E\EA1786.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA_E\EA1786.D\ECD2B.CH
Acq On : 15 Dec 97 12:48 Operator:
Sample : 278372 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:38 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	
25) L5	Aroclor-1248{4}	13.46	10.82	452593	329104	637.198	379.431	#
26) L5	Aroclor-1248{5}	15.62	13.52	1438690	1754051	4333.907	4956.022	
Sum	Aroclor-1248			2411031	2834140	5729.402	6249.363	
Average	Aroclor-1248					1145.880 NP	1249.873 NP	
2[illegible]) L6	Aroclor-1254{1}	11.62	9.81	450396	610588	1203.864	990.595m	
2[illegible]) L6	Aroclor-1254{2}	13.81	11.70	899453	1475757	1515.743	1194.769	
29) L6	Aroclor-1254{3}	15.62	12.22	1438690	936626	1107.249	947.789	
3[illegible]) L6	Aroclor-1254{4}	16.54	13.52	643296	1754051	1030.032	1252.706	
3[illegible]) L6	Aroclor-1254{5}	17.76	15.60	1154638	1533214	951.973	1116.133	
Sum	Aroclor-1254			4586472	6310237	5808.861	5501.992	
Average	Aroclor-1254					1161.772	1100.398	
32) L7	Aroclor-1260{1}	0.00	13.97	0	830642	N.D.	757.108	#
33) L7	Aroclor-1260{2}	16.54	14.61	643296	817571	545.675	561.553	
3[illegible]) L7	Aroclor-1260{3}	18.95	15.60	281395	1533214	339.177	807.881	#
3[illegible]) L7	Aroclor-1260{4}	19.49	17.43	188097	231826	98.140	103.967	
36) L7	Aroclor-1260{5}	20.81	18.43	137015	181727	87.682	111.571	#
Sum	Aroclor-1260			1249803	3594980	1070.675	2342.079	
Average	Aroclor-1260					267.669 NP	468.416 NP	

00 123

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPOR JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1786.D\ECD1A.CH Vial: 10
Signal #2 : E:\WESTDA~1\EA1786.D\ECD2B.CH
Acq On : 15 Dec 97 12:48 Operator:
Sample : 278372 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:50 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.08	478087	682182	33.613	31.506
Spiked Amount 40.000 Range 43 - 150 Recovery =					84.03%	78.77%
2) SA Decachlorobiphen	25.87	21.42	790917	776717	33.628	34.046
Spiked Amount 40.000 Range 24 - 154 Recovery =					84.07%	85.11%

Target Compounds

7PS 6/5/98 1 2 3A

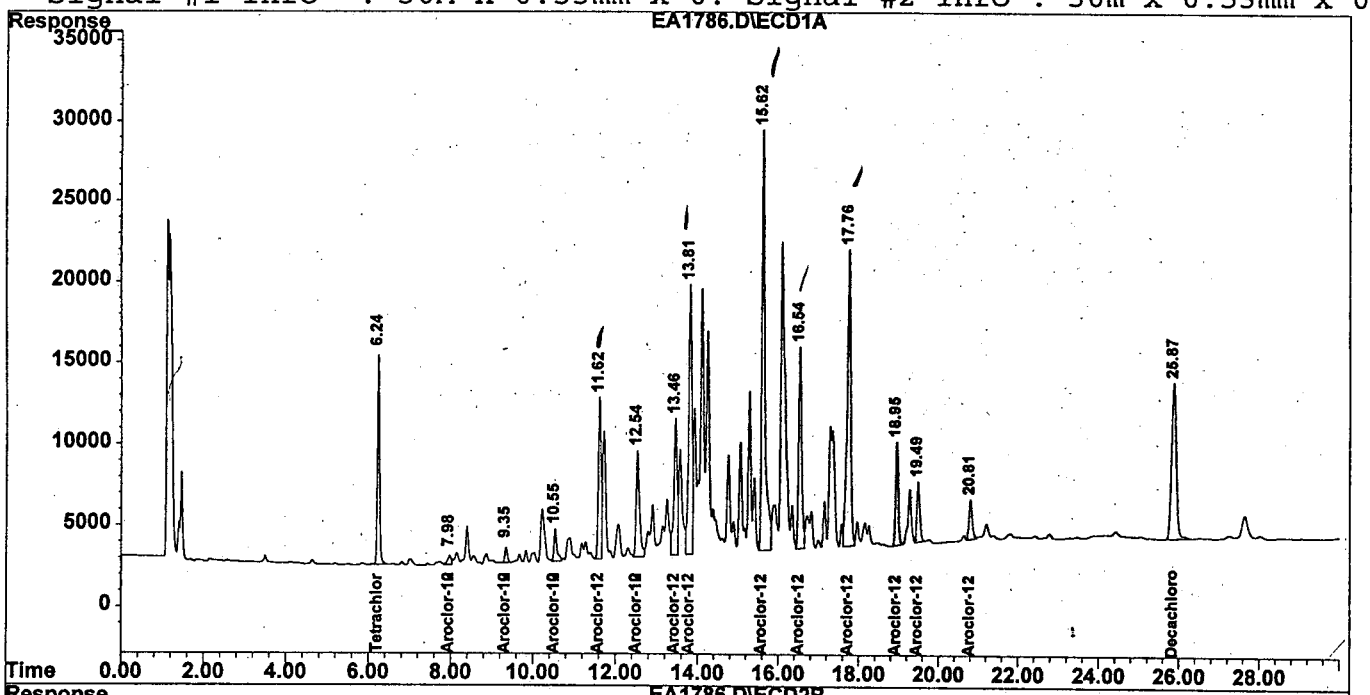
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

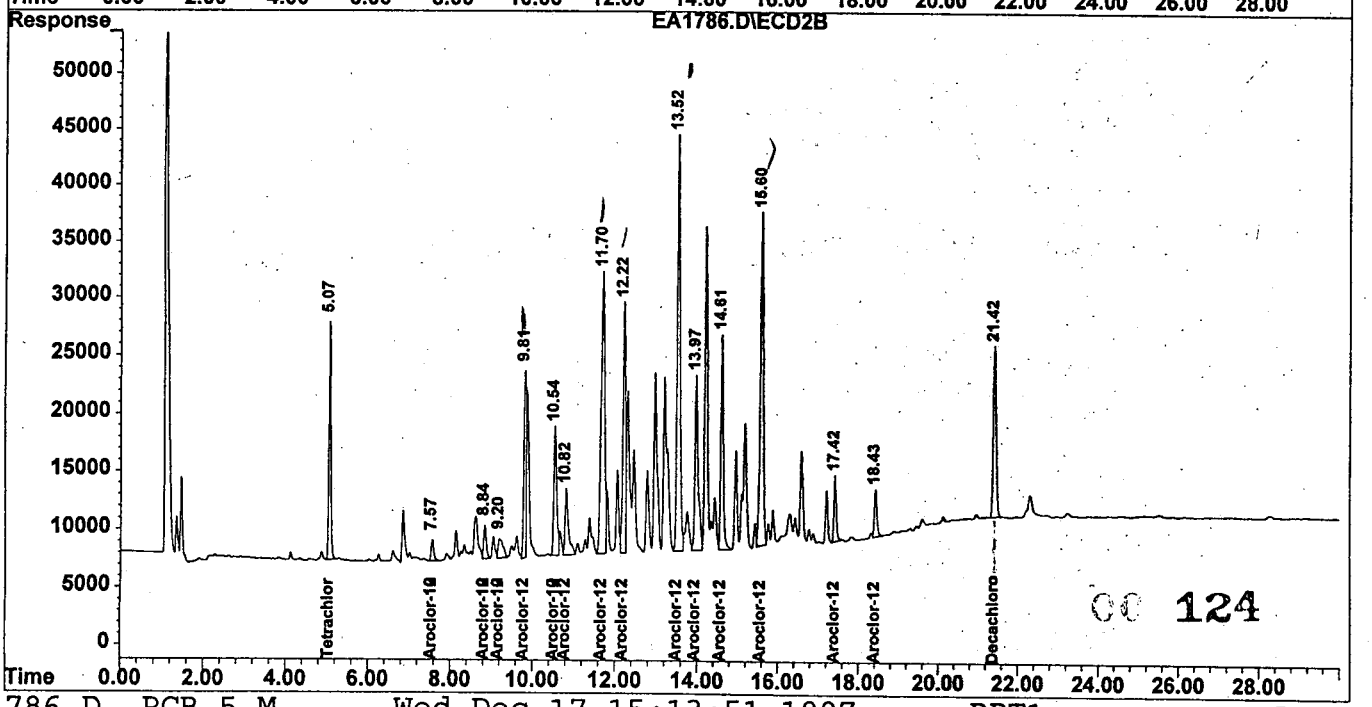
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1786.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA_E\EA1786.D\ECD2B.CH
Acq On : 15 Dec 97 12:48 Operator:
Sample : 278372 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:38 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





00 124

AMENDED REPORT JUN 0 8 1998

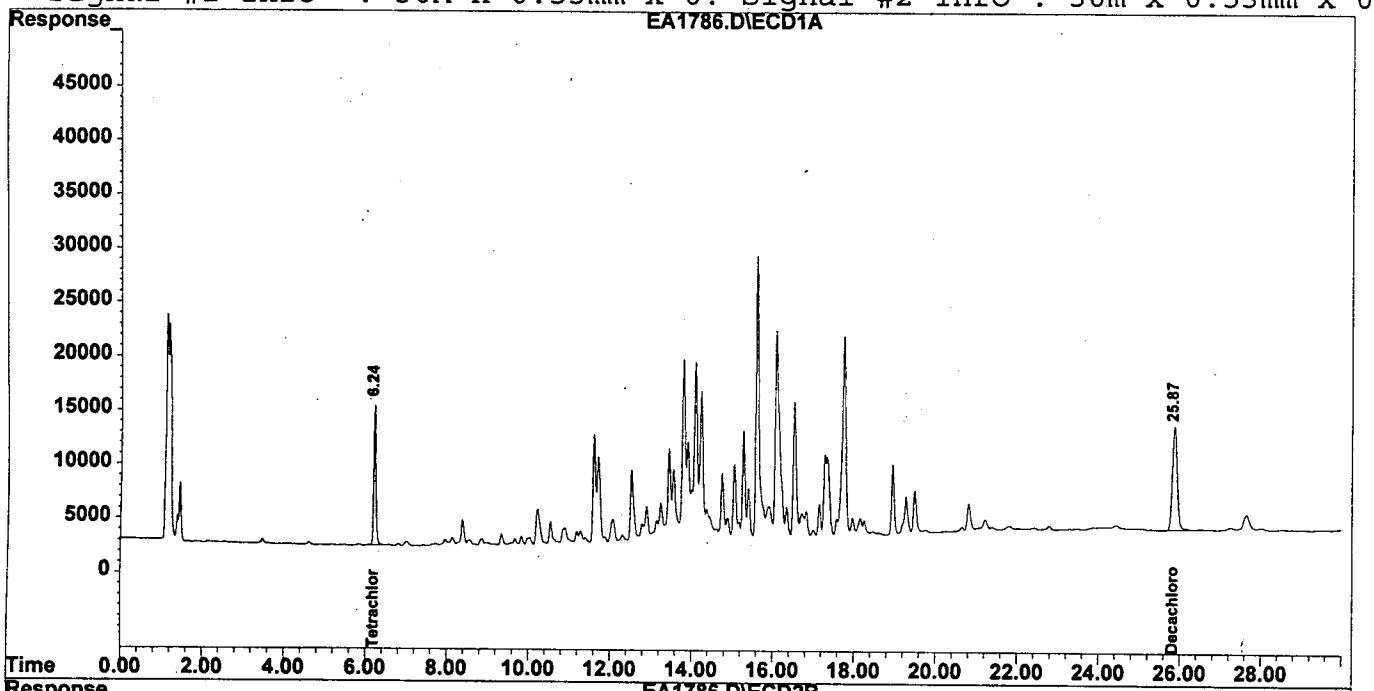
Quantitation Report

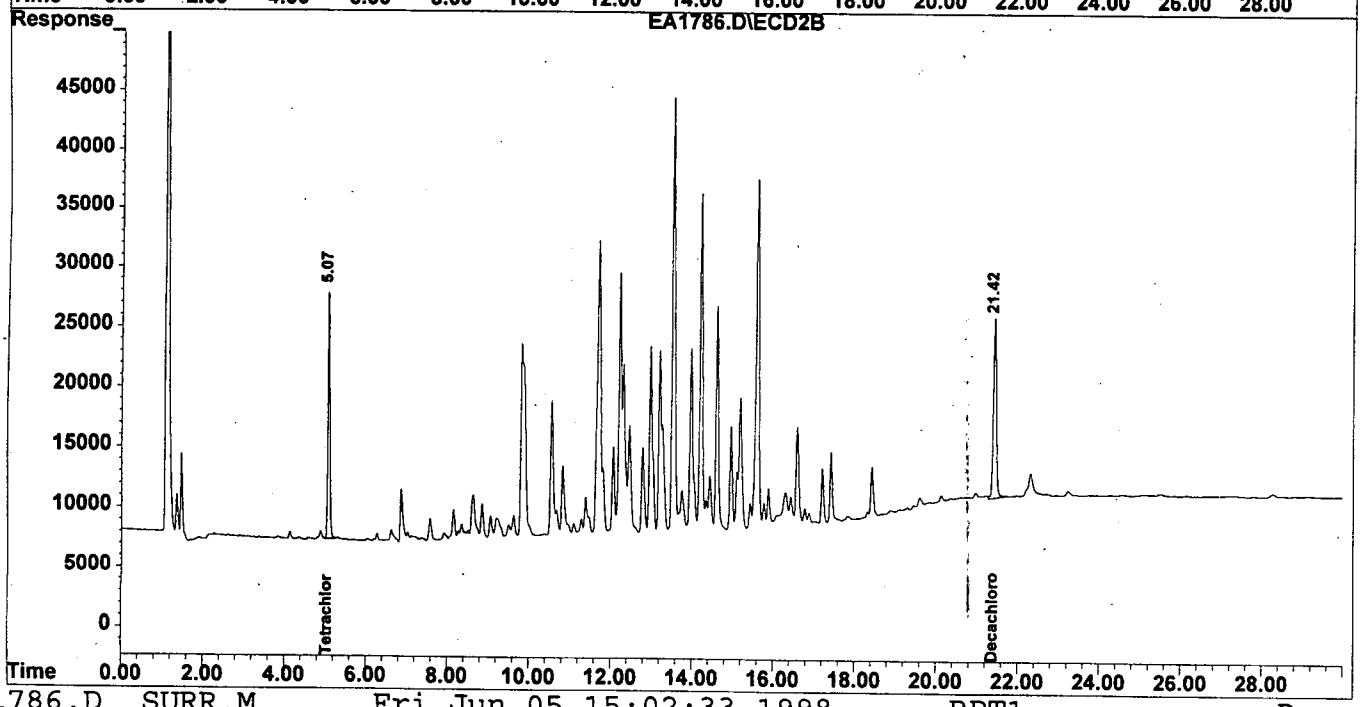
Signal #1 : E:\WESTDA~1\EA1786.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\EA1786.D\ECD2B.CH
Acq On : 15 Dec 97 12:48
Sample : 278372
Misc : QPC7405
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:50 1998 Quant Results File: SURR.RES

Vial: 10
Operator:
Inst : GC_5890_5
Multiplr: 1.00

Quant Method : H:\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





124A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278373
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: LLLLSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	32.53%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	49	25
Aroclor-1221	U	U	99	69
Aroclor-1232	U	U	49	40
Aroclor-1242	U	U	49	25
Aroclor-1248	U	U	49	30
Aroclor-1254	66 J	U	49	34
Aroclor-1260	U J	U	49	40

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.

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Thomas Mancuso, Lab Mgr.
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LOU

J 1254 ∴ CCV %D NG
J 1260 ↓

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1787.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA_E\EA1787.D\ECD2B.CH
Acq On : 15 Dec 97 13:22 Operator:
Sample : 278373 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:40 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	6.24	5.07	498112	738740	36.206	37.144	
Spiked Amount 40.000 Range 43 - 150 Recovery =					90.52%	92.86%	
2) SA Decachlorobiphen	25.86	21.42	755506	721216	32.471	33.190	
Spiked Amount 40.000 Range 24 - 154 Recovery =					81.18%	82.97%	
Target Compounds							
4) L1 Aroclor-1016{2}	9.35	0.00	10687	0	15.763	N.D.	#
5) L1 Aroclor-1016{3}	10.55	0.00	12847	0	10.060	N.D.	#
7) L1 Aroclor-1016{5}	12.54	10.55	52793	96573	80.871	114.634	#
Sum Aroclor-1016			76328	96573	106.694	114.634	
Average Aroclor-1016					35.565 NP	114.634 NP	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
13) L3 Aroclor-1232{2}	9.35	0.00	10687	0	34.412	N.D.	#
14) L3 Aroclor-1232{3}	10.55	0.00	12847	0	25.262	N.D.	#
15) L3 Aroclor-1232{4}	12.54	0.00	52793	0	167.386	N.D.	#
16) L3 Aroclor-1232{5}	13.46	10.55	118223	96573	521.175	253.330	#
Sum Aroclor-1232			194551	96573	748.234	253.330	
Average Aroclor-1232					187.059 NP	253.330 NP	
18) L4 Aroclor-1242{2}	9.35	0.00	10687	0	19.879	N.D.	#
19) L4 Aroclor-1242{3}	10.55	0.00	12847	0	13.217	N.D.	#
21) L4 Aroclor-1242{5}	12.54	10.55	52793	96573	94.736	145.999	#
Sum Aroclor-1242			76328	96573	127.832	145.999	
Average Aroclor-1242					42.611 NP	145.999 NP	
22) L5 Aroclor-1248{1}	9.35	0.00	10687	0	37.170	N.D.	#
23) L5 Aroclor-1248{2}	10.55	0.00	12847	0	15.315	N.D.	#
24) L5 Aroclor-1248{3}	12.54	10.55	52793	96573	69.416	102.779	#
25) L5 Aroclor-1248{4}	13.46	10.82	118223	36574	166.444	42.167	#
26) L5 Aroclor-1248{5}	15.61	13.52	148811	241175	448.279	681.434	#
Sum Aroclor-1248			343362	374322	736.625	826.380	
Average Aroclor-1248					147.325 NP	275.460 NP	

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(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_E\EA1787.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA_E\EA1787.D\ECD2B.CH
Acq On : 15 Dec 97 13:22 Operator:
Sample : 278373 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:40 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

Use RTx-1701 result no interference on the RTx-50 column

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
27)	L6 Aroclor-1254{1}	11.62	9.82	65853	75208	176.018	122.015m#
28)	L6 Aroclor-1254{2}	~~13.81~~	11.71	~~164305~~	167058	~~276.883~~	135.250 #
29)	L6 Aroclor-1254{3}	15.61	12.22	148811	110956	114.529	112.278
30)	L6 Aroclor-1254{4}	16.53	13.52	72549	241175	116.165	172.242 #
31)	L6 Aroclor-1254{5}	17.75	15.60	124543	170400	102.683	124.046
	Sum Aroclor-1254			576061	764797	786.278	665.831
	Average Aroclor-1254					157.256	133.166
32)	L7 Aroclor-1260{1}	0.00	13.97	0	97430	N.D.	88.805 #
33)	L7 Aroclor-1260{2}	16.53	14.61	72549	85646	61.540	58.827
34)	L7 Aroclor-1260{3}	18.94	15.60	22830	170400	27.518	89.787 #
35)	L7 Aroclor-1260{4}	19.48	0.00	21714	0	11.329	N.D. #
	Sum Aroclor-1260			117093	353477	100.387	237.419
	Average Aroclor-1260					33.462 NP	79.140 NP

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Dm 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1787.D\ECD1A.CH Vial: 11
Signal #2 : E:\WESTDA~1\EA1787.D\ECD2B.CH
Acq On : 15 Dec 97 13:22 Operator:
Sample : 278373 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:50 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	497832	737433	35.001	34.058
Spiked Amount 40.000 Range 43 - 150 Recovery =					87.50%	85.15%
2) SA Decachlorobiphen	25.86	21.42	775054	774070	32.953	33.930
Spiked Amount 40.000 Range 24 - 154 Recovery =					82.38%	84.82%

Target Compounds

TRS 6/5/98 127A

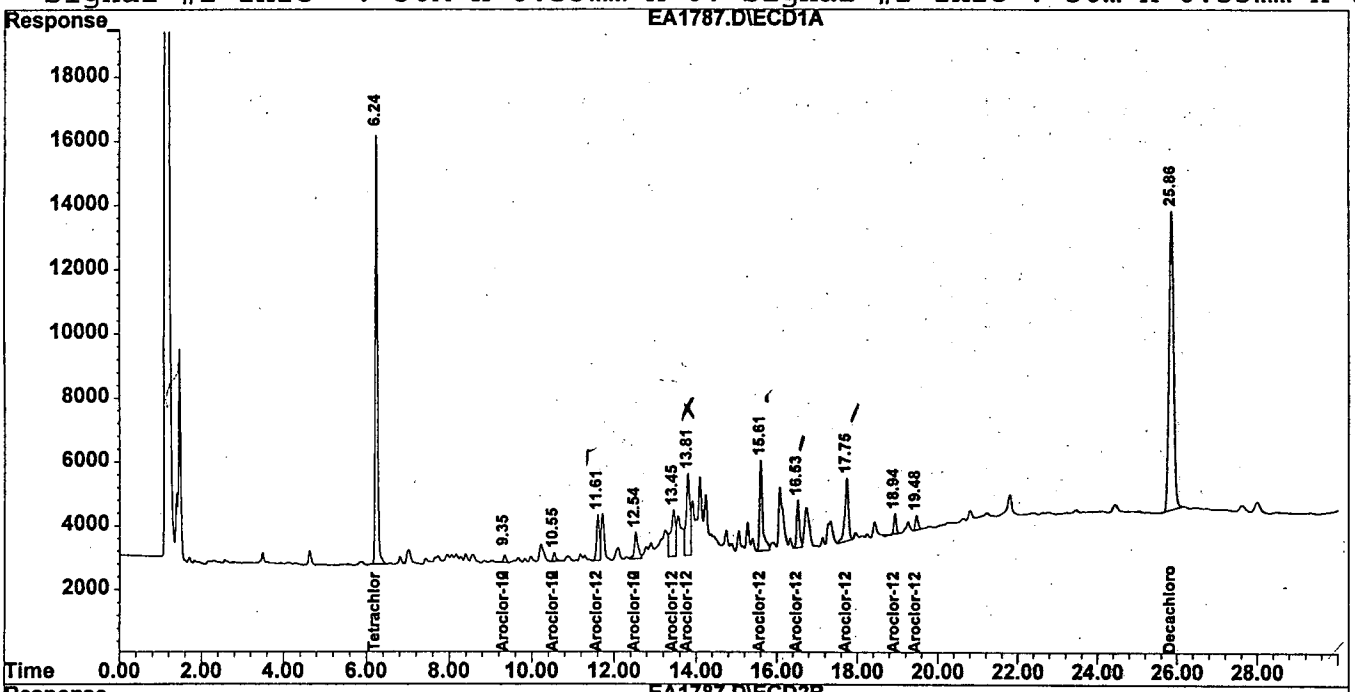
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

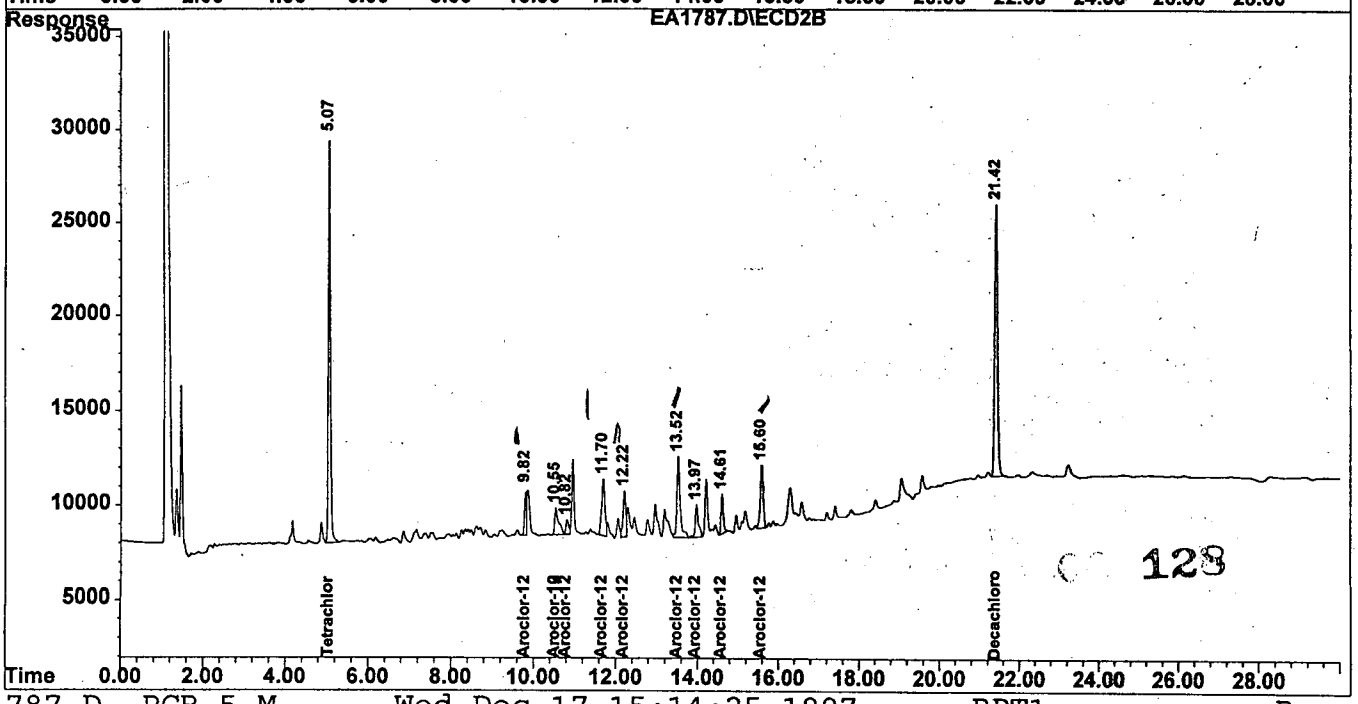
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1787.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA_E\EA1787.D\ECD2B.CH
Acq On : 15 Dec 97 13:22 Operator:
Sample : 278373 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:40 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





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Quantitation Report

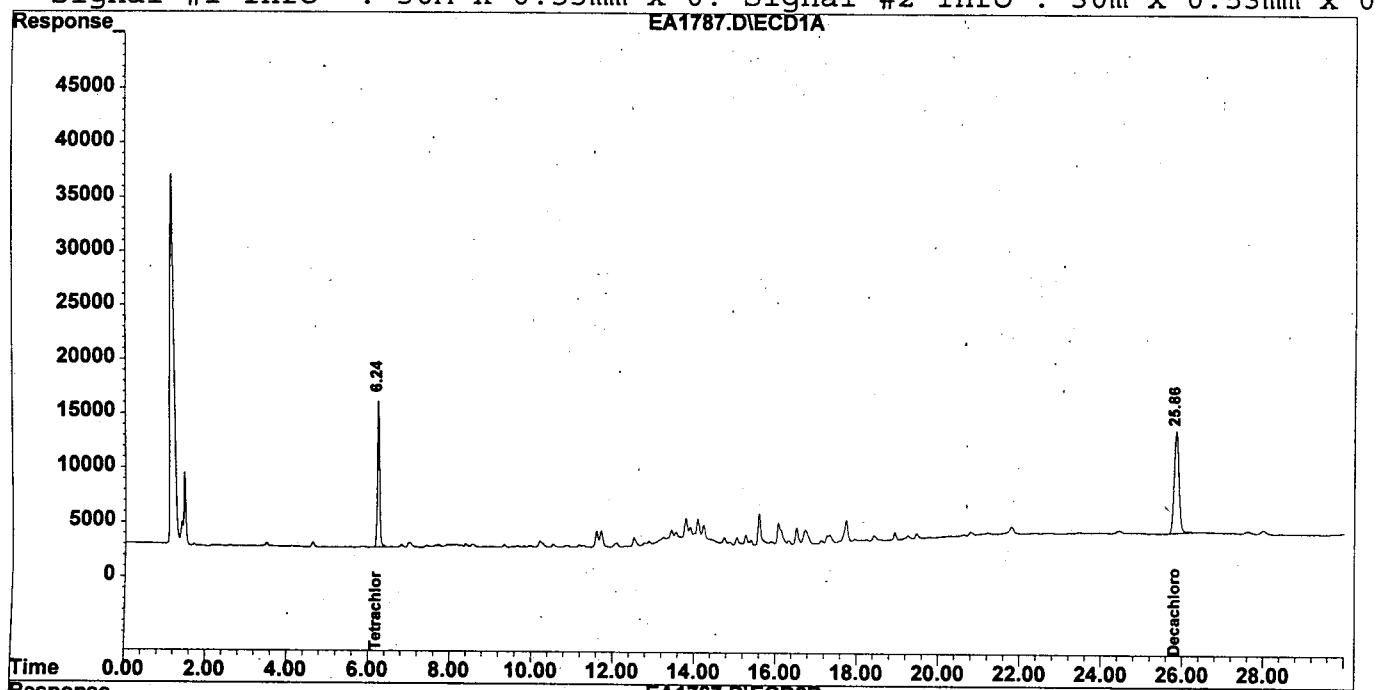
AMENDED REPORT JUN 0 8 1998

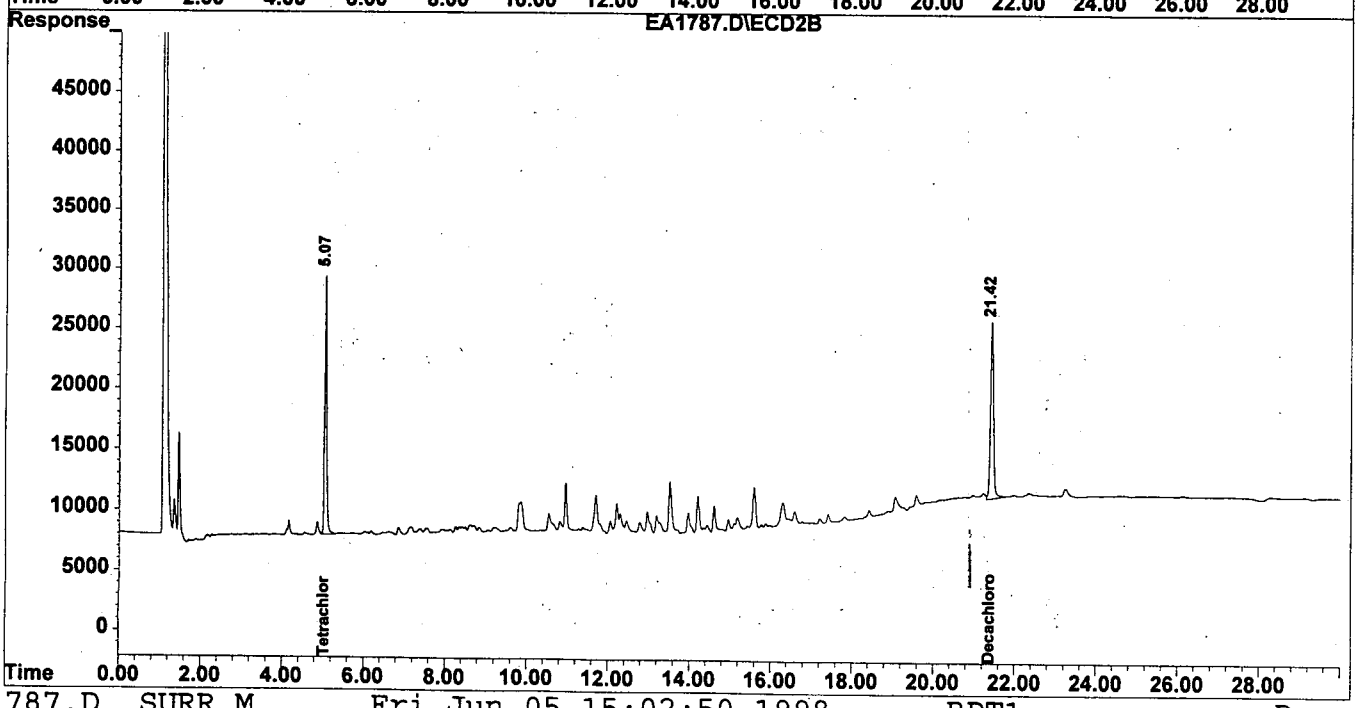
Signal #1 : E:\WESTDA~1\EA1787.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\EA1787.D\ECD2B.CH
Acq On : 15 Dec 97 13:22
Sample : 278373
Misc : QPC7405
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:50 1998 Quant Results File: SURR.RES

Vial: 11
Operator:
Inst : GC_5890_5
Multiplr: 1.00

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278374
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	39.81%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	55	28
Aroclor-1221	U	U	110	78
Aroclor-1232	U	U	55	44
Aroclor-1242	U	U	55	28
Aroclor-1248	U	U	55	33
Aroclor-1254	~~420~~ 430	U	55	39
Aroclor-1260	U J	U	55	44

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.
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LOU

J 1260 : CCV 980 NG

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1788.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_E\EA1788.D\ECD2B.CH
Acq On : 15 Dec 97 13:56 Operator:
Sample : 278374 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:41 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	6.24	5.07	522608	704381	37.986	35.417
Spiked Amount 40.000 Range 43 - 150 Recovery =					94.96%	88.54%
2) SA Decachlorobiphen	25.87	21.43	925430	856572	39.774	39.419
Spiked Amount 40.000 Range 24 - 154 Recovery =					99.44%	98.55%
Target Compounds						
4) L1 Aroclor-1016{2}	9.35	7.58	13357	28745	19.701	33.007 #
5) L1 Aroclor-1016{3}	10.55	8.85	66228	82618	51.862	44.519
6) L1 Aroclor-1016{4}	11.01	9.23	17224	45472	38.950	53.913 #
7) L1 Aroclor-1016{5}	12.54	10.55	179897	271360	275.572	322.112
Sum Aroclor-1016			276706	428195	386.085	453.550
Average Aroclor-1016					96.521 NP	113.388 NP
11) L2 Aroclor-1221{4}	0.00	8.85	0	82618	N.D.	601.527 #
Sum Aroclor-1221			0	82618	N.D.	601.527
Average Aroclor-1221					0.000	601.527 NP
13) L3 Aroclor-1232{2}	9.35	7.58	13357	28745	43.010	78.310 #
14) L3 Aroclor-1232{3}	10.55	8.85	66228	82618	130.225	109.806
15) L3 Aroclor-1232{4}	12.54	9.23	179897	45472	570.377	134.786 #
16) L3 Aroclor-1232{5}	13.46	10.55	271734	271360	1197.909	711.835 #
Sum Aroclor-1232			531216	428195	1941.520	1034.738
Average Aroclor-1232					485.380 NP	258.684 NP
18) L4 Aroclor-1242{2}	9.35	7.58	13357	28745	24.845	44.299 #
19) L4 Aroclor-1242{3}	10.55	8.85	66228	82618	68.134	59.234
20) L4 Aroclor-1242{4}	11.01	9.23	17224	45472	51.919	74.311 #
21) L4 Aroclor-1242{5}	12.54	10.55	179897	271360	322.819	410.244 #
Sum Aroclor-1242			276706	428195	467.717	588.087
Average Aroclor-1242					116.929 NP	147.022 NP
22) L5 Aroclor-1248{1}	9.35	7.58	13357	28745	46.456	80.751 #
23) L5 Aroclor-1248{2}	10.55	8.85	66228	82618	78.950	68.138
24) L5 Aroclor-1248{3}	12.54	10.55	179897	271360	236.539	288.300
25) L5 Aroclor-1248{4}	13.46	10.83	271734	166183	382.569	191.596 #

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12/18/97

(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_E\EA1788.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_E\EA1788.D\ECD2B.CH
Acq On : 15 Dec 97 13:56 Operator:
Sample : 278374 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:41 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
26) L5	Aroclor-1248{5}	15.62	13.52	1078363	1223958	3248.459	3458.258
Sum	Aroclor-1248			1609578	1772864	3992.973	4087.542
Average	Aroclor-1248					798.595 NP	817.508 NP
27) L6	Aroclor-1254{1}	11.62	9.81	247018	305620	660.256	495.827m
28) L6	Aroclor-1254{2}	13.82	11.70	420096	969135	707.939	784.609
29) L6	Aroclor-1254{3}	15.62	12.22	1078363	721882	829.933	730.486
30) L6	Aroclor-1254{4}	16.54	13.52	525261	1223958	841.037	874.124
31) L6	Aroclor-1254{5}	17.76	15.60	1012639	1218131	834.898	886.762
Sum	Aroclor-1254			3283377	4438726	3874.064	3771.808
Average	Aroclor-1254					774.813	754.362
32) L7	Aroclor-1260{1}	0.00	13.97	0	646775	N.D.	589.519 #
33) L7	Aroclor-1260{2}	16.54	14.61	525261	714956	445.553	491.071
34) L7	Aroclor-1260{3}	18.95	15.60	250635	1218131	302.101	641.857 #
35) L7	Aroclor-1260{4}	19.49	17.43	167689	182476	87.492	81.835
36) L7	Aroclor-1260{5}	20.81	18.43	118529	143507	75.852	88.106
Sum	Aroclor-1260			1062114	2905846	910.998	1892.388
Average	Aroclor-1260					227.750 NP	378.478 NP

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BMW 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1788.D\ECD1A.CH Vial: 12
Signal #2 : E:\WESTDA~1\EA1788.D\ECD2B.CH
Acq On : 15 Dec 97 13:56 Operator:
Sample : 278374 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:17 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	522432	710041	36.731	32.793
Spiked Amount 40.000 Range 43 - 150 Recovery =					91.83%	81.98%
2) SA Decachlorobiphen	25.87	21.42	931570	873774	39.608	38.300m
Spiked Amount 40.000 Range 24 - 154 Recovery =					99.02%	95.75%
Target Compounds						

6/5/98 131A

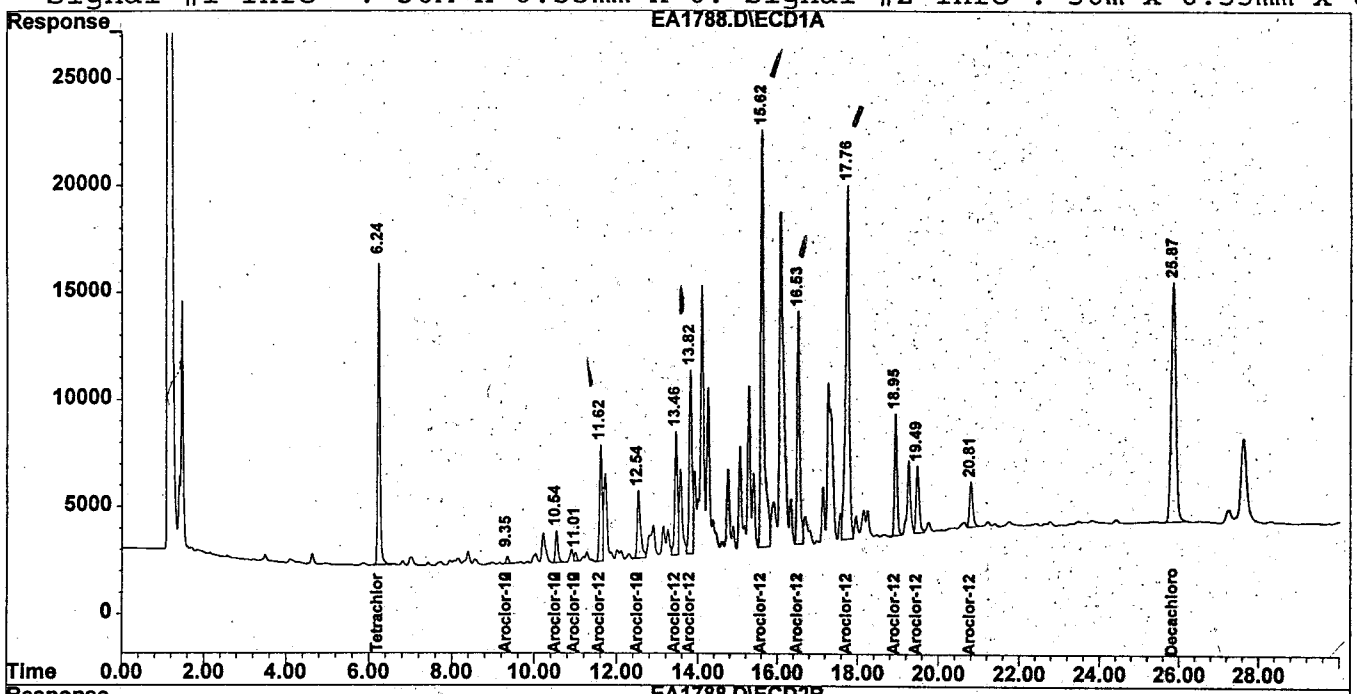
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

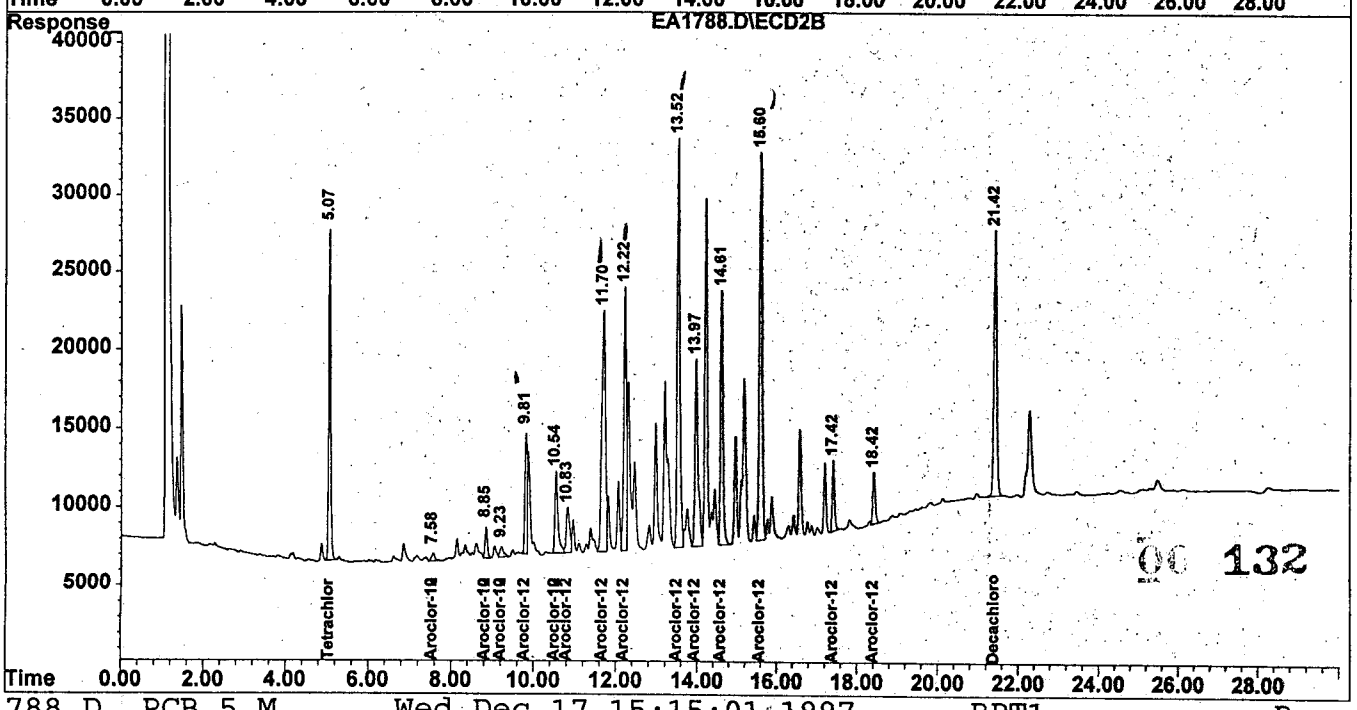
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1788.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_E\EA1788.D\ECD2B.CH
Acq On : 15 Dec 97 13:56 Operator:
Sample : 278374 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:41 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





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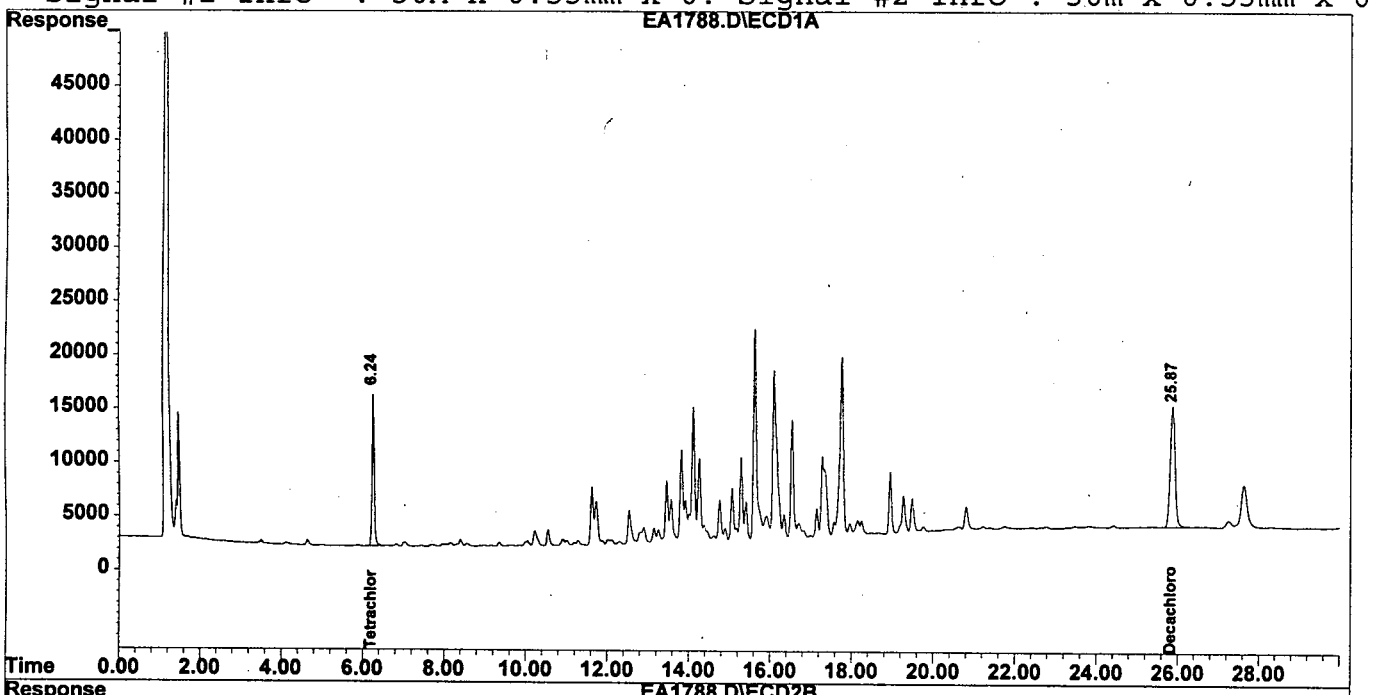
Quantitation Report

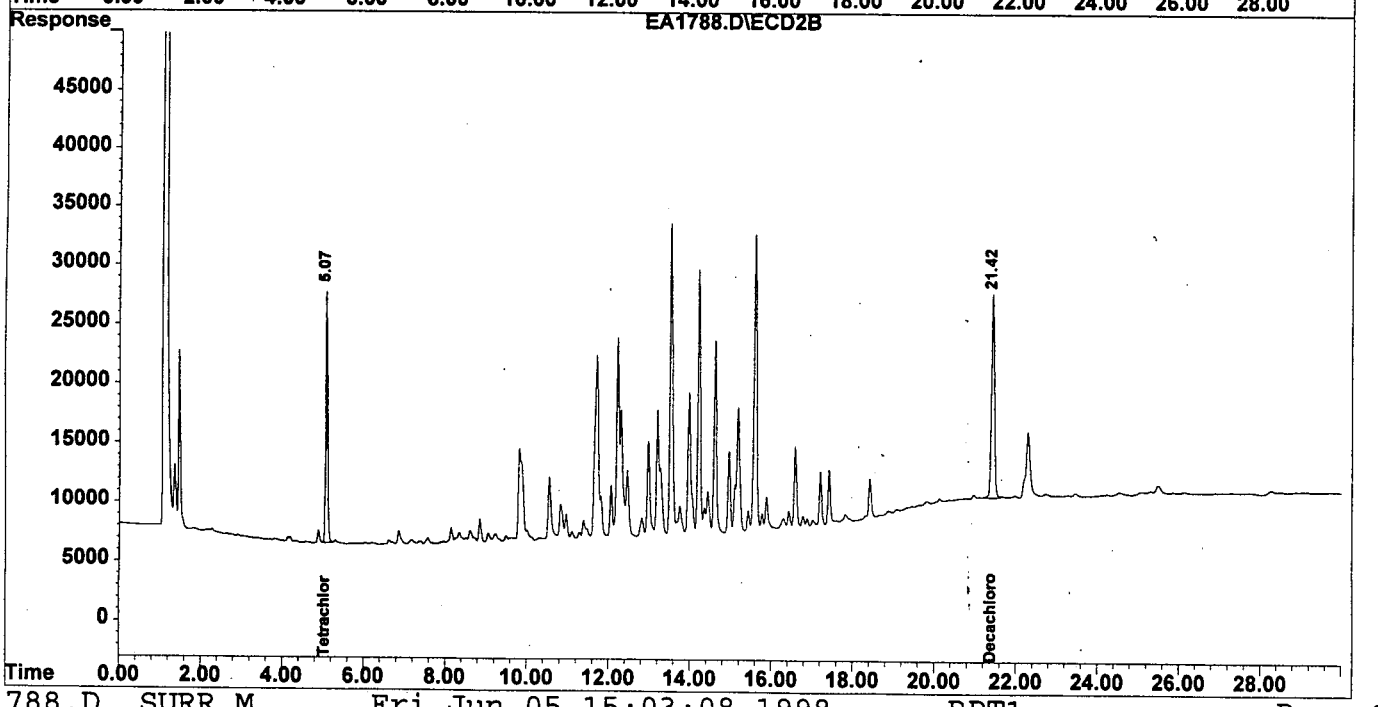
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1788.D\ECD1A.CH Vial: 12
Signal #2 : E:\WESTDA~1\EA1788.D\ECD2B.CH
Acq On : 15 Dec 97 13:56 Operator:
Sample : 278374 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:17 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278375
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	41.76%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	57	29
Aroclor-1221	U	U	110	80
Aroclor-1232	U	U	57	46
Aroclor-1242	U	U	57	29
Aroclor-1248	U	U	57	34
Aroclor-1254	U	U	57	40
Aroclor-1260	U J	U	57	46

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.

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Thomas Mancuso, Lab Mgr.
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ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1789.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_E\EA1789.D\ECD2B.CH
Acq On : 15 Dec 97 14:30 Operator:
Sample : 278375 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 18:59 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	6.24	5.08	629735	969687	45.773	48.757	
Spiked Amount 40.000 Range 43 - 150 Recovery =					114.43%	121.89%	
2) SA Decachlorobiphen	25.85	21.42	931374	887519	40.030	40.843	
Spiked Amount 40.000 Range 24 - 154 Recovery =					100.08%	102.11%	
Target Compounds							
3) L1 Aroclor-1016{1}	8.06	0.00	40485	0	121.651	N.D.	#
4) L1 Aroclor-1016{2}	9.31	0.00	27446	0	40.482	N.D.	#
5) L1 Aroclor-1016{3}	10.52	0.00	24299	0	19.028	N.D.	#
6) L1 Aroclor-1016{4}	11.07	0.00	24739	0	55.944	N.D.	#
7) L1 Aroclor-1016{5}	0.00	10.54	0	35234	N.D.	41.823	#
Sum Aroclor-1016			116969	35234	237.104	41.823	
Average Aroclor-1016					59.276 NP	41.823 NP	
9) L2 Aroclor-1221{2}	7.43	0.00	11892	0	125.324	N.D.	#
11) L2 Aroclor-1221{4}	8.06	0.00	40485	0	99.256	N.D.	#
Sum Aroclor-1221			52377	0	224.579	N.D.	
Average Aroclor-1221					112.290 NP	0.000	
12) L3 Aroclor-1232{1}	8.06	0.00	40485	0	139.704	N.D.	#
13) L3 Aroclor-1232{2}	9.31	0.00	27446	0	88.379	N.D.	#
14) L3 Aroclor-1232{3}	10.52	0.00	24299	0	47.779	N.D.	#
16) L3 Aroclor-1232{5}	13.46	10.54	24794	35234	109.300	92.425	
Sum Aroclor-1232			117024	35234	385.163	92.425	
Average Aroclor-1232					96.291 NP	92.425 NP	
17) L4 Aroclor-1242{1}	8.06	0.00	40485	0	155.343	N.D.	#
19) L4 Aroclor-1242{3}	10.52	0.00	24299	0	24.998	N.D.	#
20) L4 Aroclor-1242{4}	11.07	0.00	24739	0	74.570	N.D.	#
21) L4 Aroclor-1242{5}	0.00	10.54	0	35234	N.D.	53.266	#
Sum Aroclor-1242			89523	35234	254.911	53.266	
Average Aroclor-1242					84.970 NP	53.266 NP	
23) L5 Aroclor-1248{2}	10.52	0.00	24299	0	28.966	N.D.	#
24) L5 Aroclor-1248{3}	0.00	10.54	0	35234	N.D.	37.498	#

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Dmw 12/18/97

(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_E\EA1789.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_E\EA1789.D\ECD2B.CH
Acq On : 15 Dec 97 14:30 Operator:
Sample : 278375 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 18:59 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	
25) L5	Aroclor-1248{4}	13.46	0.00	24794	0	34.907	N.D.	#
26) L5	Aroclor-1248{5}	15.61	13.52	48139	195496	145.015	552.369	#
Sum	Aroclor-1248			97232	230730	208.888	589.867	
Average	Aroclor-1248					69.629 NP	294.934 NP	
27) L6	Aroclor-1254{1}	11.58	9.80	31889	8209	85.237	13.318	#
28) L6	Aroclor-1254{2}	13.82	11.70	21809	166254	36.752	134.599	#
29) L6	Aroclor-1254{3}	15.61	12.22	48139	92261	37.049	93.361	#
30) L6	Aroclor-1254{4}	16.53	13.52	30804	195496	49.323	139.619	#
31) L6	Aroclor-1254{5}	17.75	15.60	55570	67995	45.816	49.498	
Sum	Aroclor-1254			188211	530216	254.177	430.396	
Average	Aroclor-1254					50.835 NP	86.079 NP	
32) L7	Aroclor-1260{1}	0.00	13.98	0	28552	N.D.	26.024	#
33) L7	Aroclor-1260{2}	16.53	14.60	30804	53856	26.129	36.991	#
34) L7	Aroclor-1260{3}	0.00	15.60	0	67995	N.D.	35.828	#
Sum	Aroclor-1260			30804	150403	26.129	98.843	
Average	Aroclor-1260					26.129 NP	32.948 NP	

CC 135

DMW 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1789.D\ECD1A.CH Vial: 13
Signal #2 : E:\WESTDA~1\EA1789.D\ECD2B.CH
Acq On : 15 Dec 97 14:30 Operator:
Sample : 278375 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:50 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.08	629735	968363	44.275	44.723
Spiked Amount 40.000 Range 43 - 150 Recovery =					110.69%	111.81%
2) SA Decachlorobiphen	25.85	21.42	932393	1038417	39.643	45.517
Spiked Amount 40.000 Range 24 - 154 Recovery =					99.11%	113.79%

Target Compounds

5
1 3 4A

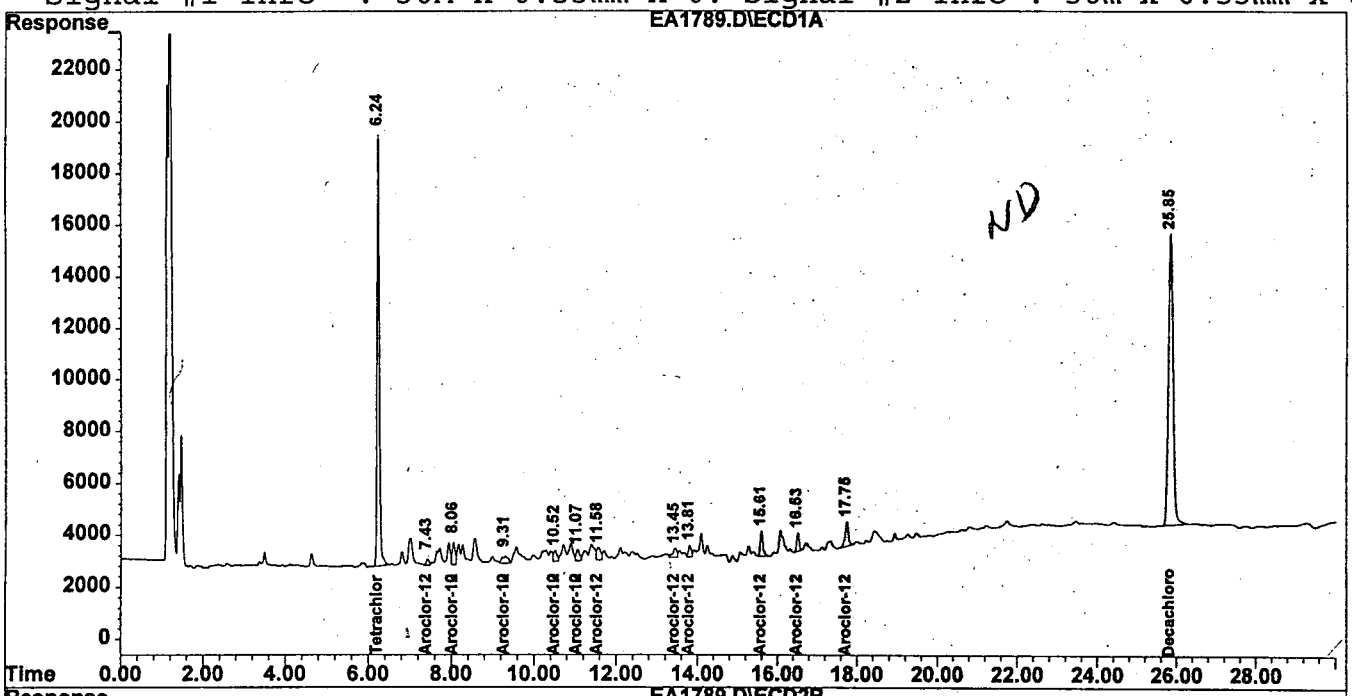
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

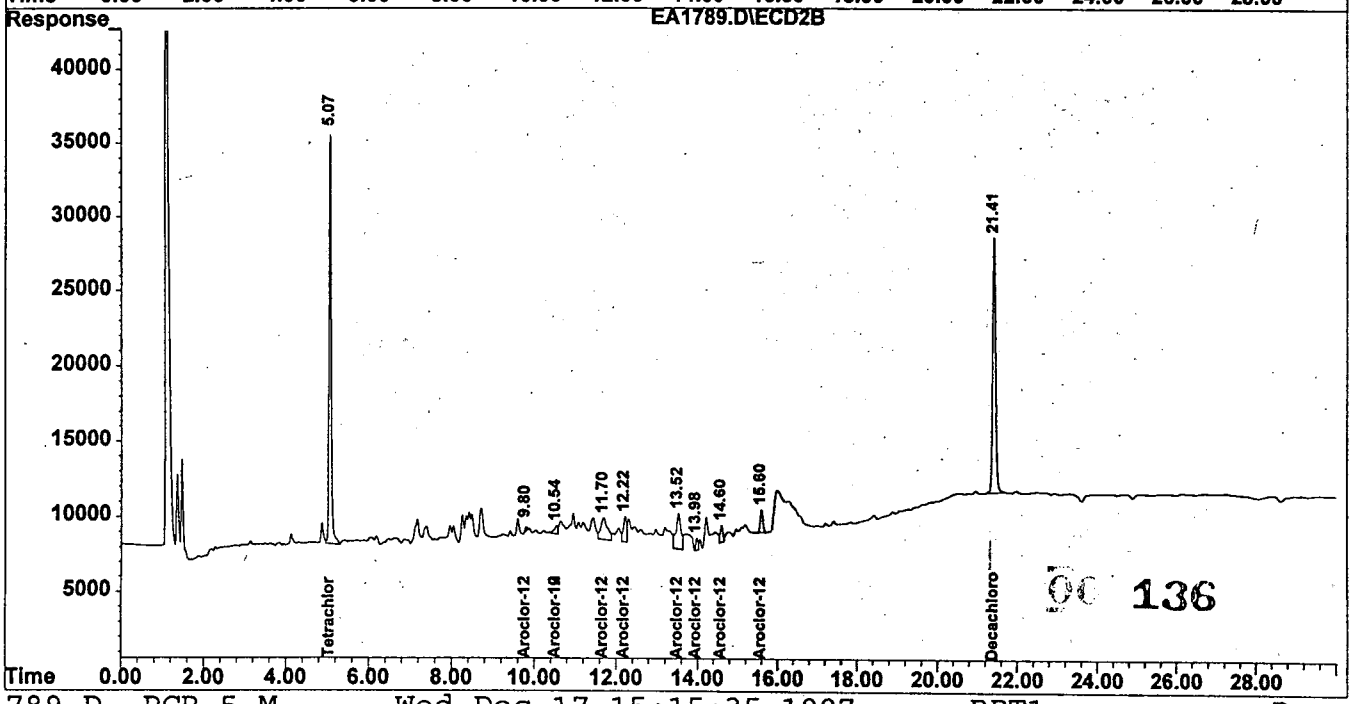
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1789.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_E\EA1789.D\ECD2B.CH
Acq On : 15 Dec 97 14:30 Operator:
Sample : 278375 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 18:59 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





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Quantitation Report AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1789.D\ECD1A.CH Vial: 13
Signal #2 : E:\WESTDA~1\EA1789.D\ECD2B.CH
Acq On : 15 Dec 97 14:30 Operator:
Sample : 278375 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:50 1998 Quant Results File: SURR.RES

Quant Method : H:\1\METHODS\SURR.M (Chemstation Integrator)
Title : Polychlorinated Biphenyls Method by 8080 and 608.
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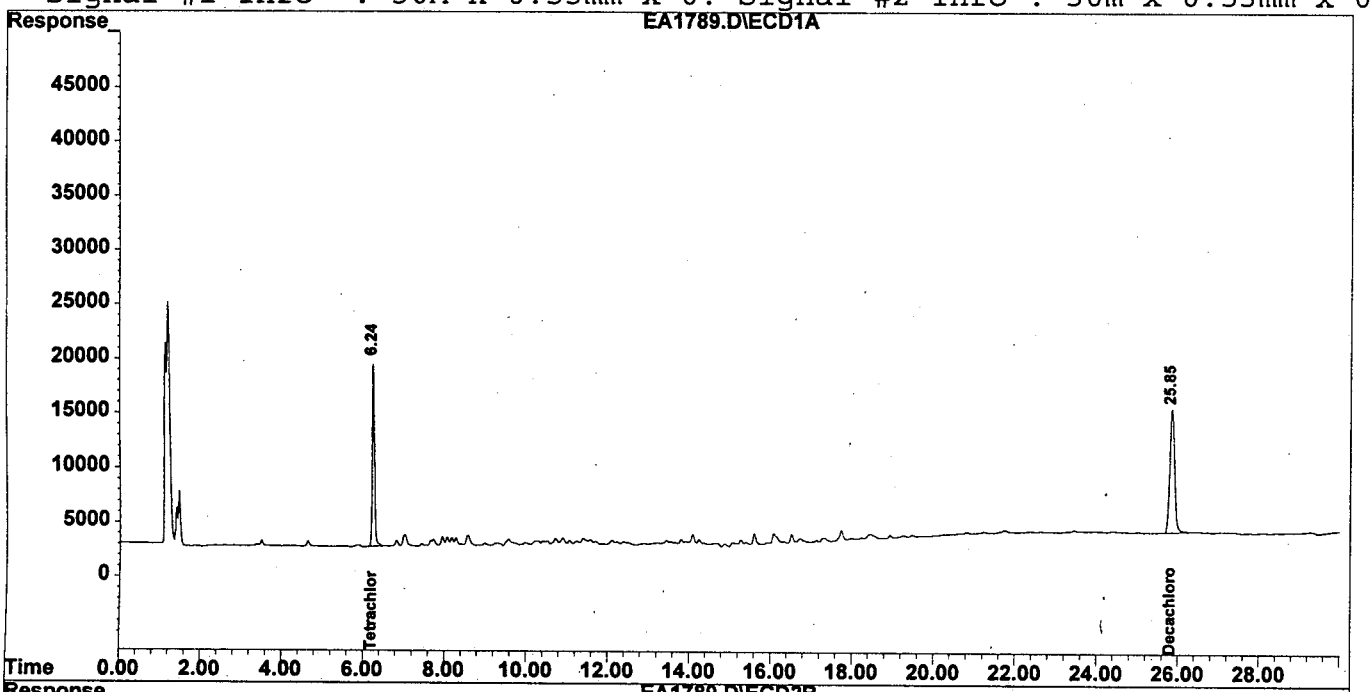
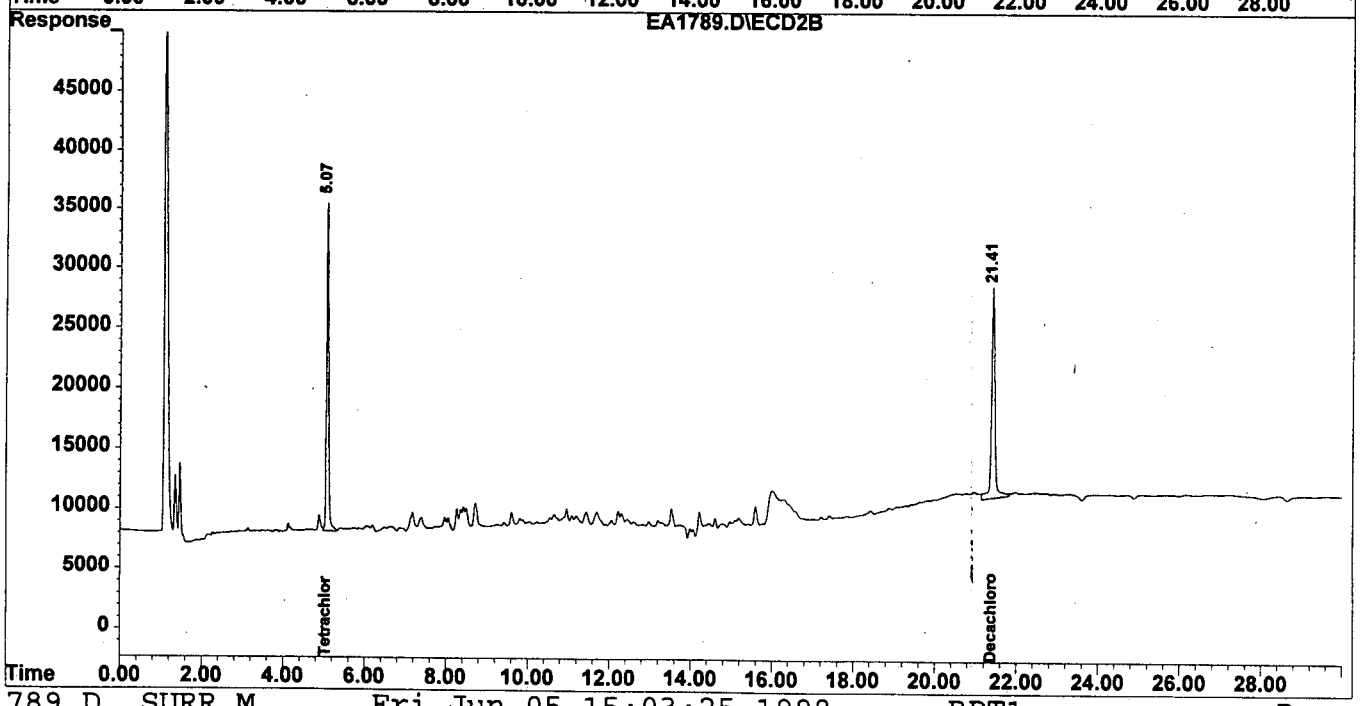
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

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





135A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278376
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNSS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	31.62%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	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~~ 4500	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.

weathered AR1254

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Thomas Mancuso, Lab Mgr.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1846.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_E\EA1846.D\ECD2B.CH
Acq On : 18 Dec 97 16:50 Operator:
Sample : 278376 1:5 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 20:34 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	6.24	5.07	95044	127537	6.908	6.413
Spiked Amount 40.000 Range 43 - 150 Recovery =					17.27%#	16.03%#
2) SA Decachlorobiphen	25.84	21.41	139999	141142	6.017	6.495
Spiked Amount 40.000 Range 24 - 154 Recovery =					15.04%#	16.24%#
Target Compounds						
3) L1 Aroclor-1016{1}	7.98	0.00	79611	0	239.215	N.D. #
4) L1 Aroclor-1016{2}	9.34	7.57	27661	57012	40.799	65.466 #
5) L1 Aroclor-1016{3}	10.54	8.84	73967	114818	57.922	61.869
6) L1 Aroclor-1016{4}	0.00	9.24	0	65809	N.D.	78.025 #
7) L1 Aroclor-1016{5}	12.53	10.54	140300	258004	214.917	306.258 #
Sum Aroclor-1016			321539	495642	552.853	511.617
Average Aroclor-1016					138.213 NP	127.904 NP
11) L2 Aroclor-1221{4}	7.98	8.84	79611	114818	195.177	835.962 #
Sum Aroclor-1221			79611	114818	195.177	835.962
Average Aroclor-1221					195.177 NP	835.962 NP
12) L3 Aroclor-1232{1}	8.12	0.00	19515	0	67.342	N.D. #
13) L3 Aroclor-1232{2}	9.34	7.57	27661	57012	89.070	155.318 #
14) L3 Aroclor-1232{3}	10.54	8.84	73967	114818	145.442	152.601
15) L3 Aroclor-1232{4}	12.53	9.24	140300	65809	444.833	195.069 #
16) L3 Aroclor-1232{5}	13.45	10.54	193969	258004	855.093	676.799
Sum Aroclor-1232			455413	495642	1601.780	1179.788
Average Aroclor-1232					320.356 NP	294.947 NP
17) L4 Aroclor-1242{1}	8.12	0.00	19515	0	74.880	N.D. #
18) L4 Aroclor-1242{2}	9.34	7.57	27661	57012	51.452	87.861 #
19) L4 Aroclor-1242{3}	10.54	8.84	73967	114818	76.096	82.319
20) L4 Aroclor-1242{4}	0.00	9.24	0	65809	N.D.	107.547 #
21) L4 Aroclor-1242{5}	12.53	10.54	140300	258004	251.764	390.052 #
Sum Aroclor-1242			261443	495642	454.193	667.779
Average Aroclor-1242					113.548 NP	166.945 NP
22) L5 Aroclor-1248{1}	9.34	7.57	27661	57012	96.207	160.160 #

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12/18/97

(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_E\EA1846.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_E\EA1846.D\ECD2B.CH
Acq On : 18 Dec 97 16:50 Operator:
Sample : 278376 1:5 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 20:34 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	
23)	L5 Aroclor-1248{2}	10.54	8.84	73967	114818	88.176	94.693	
24)	L5 Aroclor-1248{3}	12.53	10.54	140300	258004	184.475	274.585	#
25)	L5 Aroclor-1248{4}	13.45	10.81	193969	179716	273.086	207.198	
26)	L5 Aroclor-1248{5}	15.61	13.51	2232401	2801432	6724.881	7915.366	
	Sum Aroclor-1248			2668298	3410981	7366.824	8652.003	
Average	Aroclor-1248					1473.365	1730.401	
27)	L6 Aroclor-1254{1}	~~11.61~~	9.86	177652	603322	~~474.846~~	~~978.808~~	#
28)	L6 Aroclor-1254{2}	13.80	11.69	1281452	1530989	2159.482	1239.485	#
29)	L6 Aroclor-1254{3}	15.61	12.21	2232401	1377153	1718.108	1393.566	
30)	L6 Aroclor-1254{4}	16.53	13.51	1641804	2801432	2628.822	2000.723	
31)	L6 Aroclor-1254{5}	17.75	15.59	2955212	3773618	2436.505	2747.078	
	Sum Aroclor-1254			8288520	10086514	9417.763	8359.659	
Average	Aroclor-1254					~~1883.553~~ 2235.78	1671.932	
32)	L7 Aroclor-1260{1}	16.14	13.96	1200626	1660867	1235.826	1513.837	
33)	L7 Aroclor-1260{2}	16.53	14.60	1641804	2038823	1392.659	1400.376	
34)	L7 Aroclor-1260{3}	18.94	15.59	779665	3773618	939.763	1988.394	#
35)	L7 Aroclor-1260{4}	19.48	17.41	704050	745290	367.340	334.239	
36)	L7 Aroclor-1260{5}	20.80	18.41	476289	583691	304.798	358.355	
	Sum Aroclor-1260			4802432	8802290	4240.388	5595.201	
Average	Aroclor-1260					848.078	1119.040	

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

ICM Laboratories Quantitation Report AMENDED REPORT (QT Reviewed) JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1846.D\ECD1A.CH Vial: 4
Signal #2 : E:\WESTDA~1\EA1846.D\ECD2B.CH
Acq On : 18 Dec 97 16:50 Operator:
Sample : 278376 1:5 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:24 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	95044	131141	6.682	6.057
Spiked Amount 40.000 Range 43 - 150 Recovery =					16.71%#	15.14%#
2) SA Decachlorobiphen	25.84	21.41	158109	145378	6.722m	6.372
Spiked Amount 40.000 Range 24 - 154 Recovery =					16.81%#	15.93%#

Target Compounds

1 3 ~~5~~ 9 A DLP 6/8/98

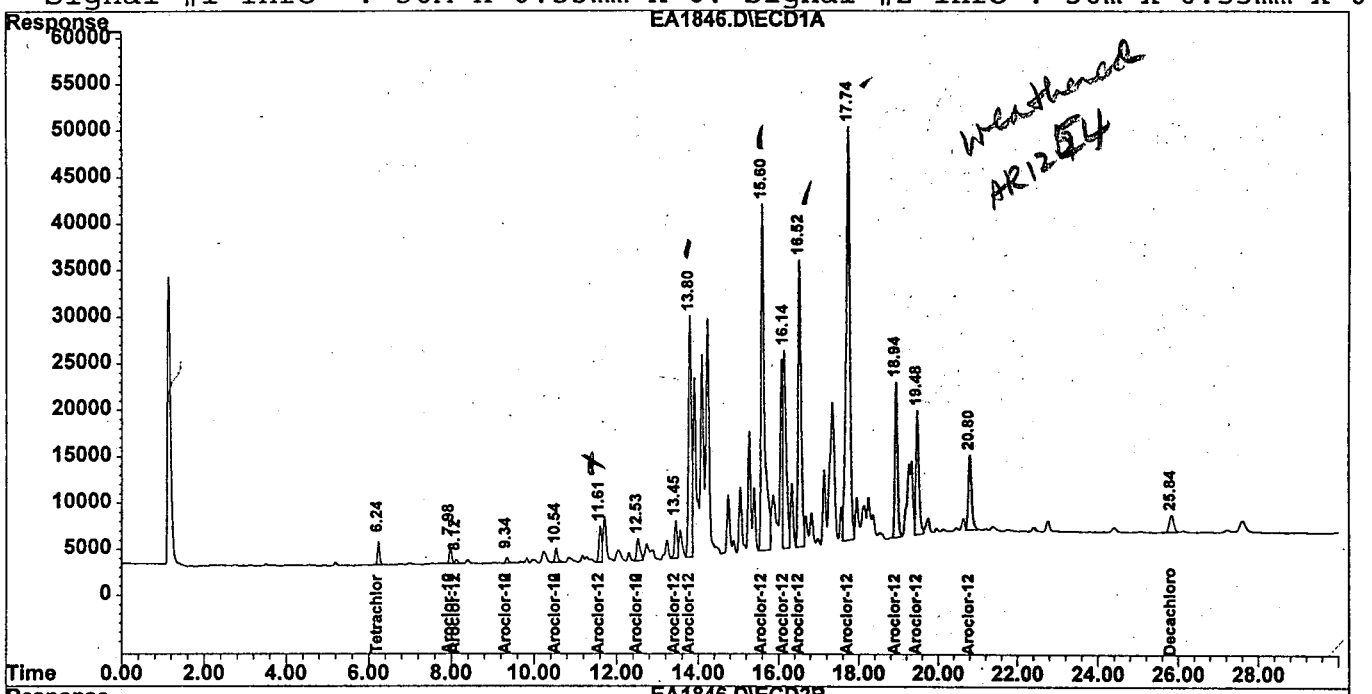
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

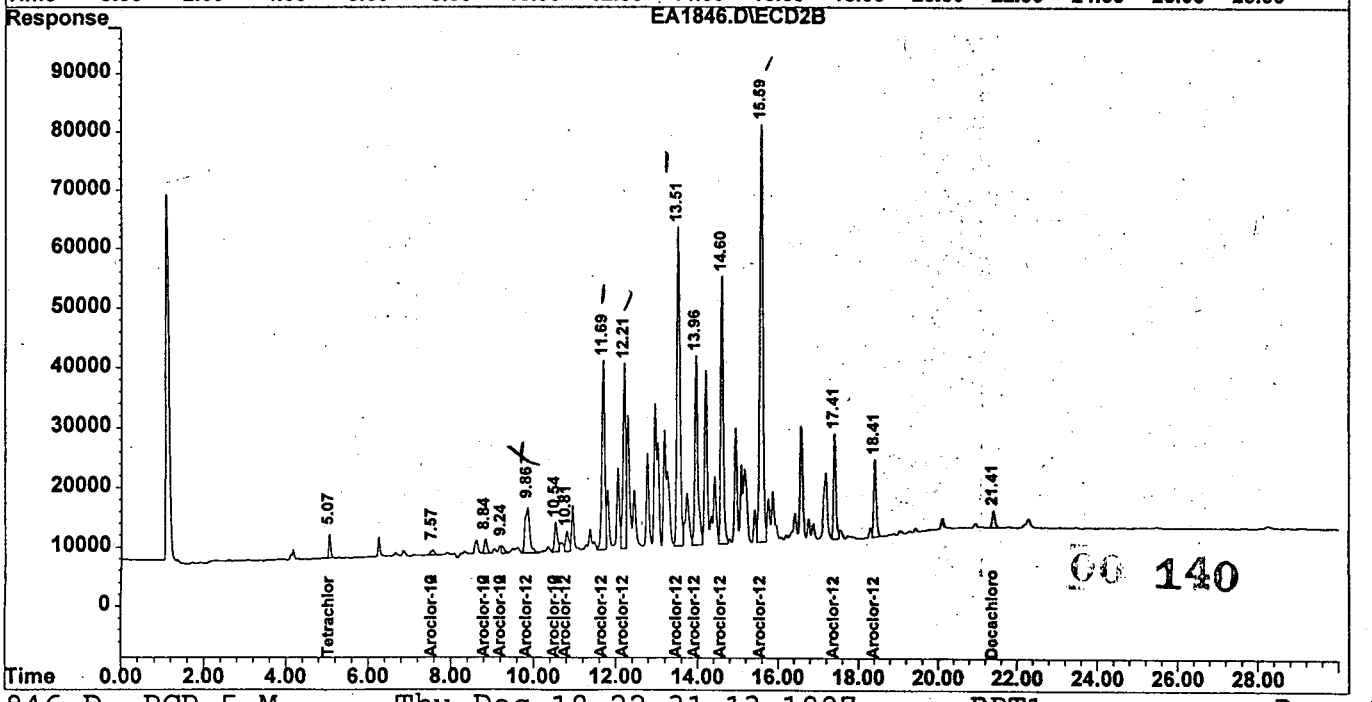
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1846.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_E\EA1846.D\ECD2B.CH
Acq On : 18 Dec 97 16:50 Operator:
Sample : 278376 1:5 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 20:34 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





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Quantitation Report

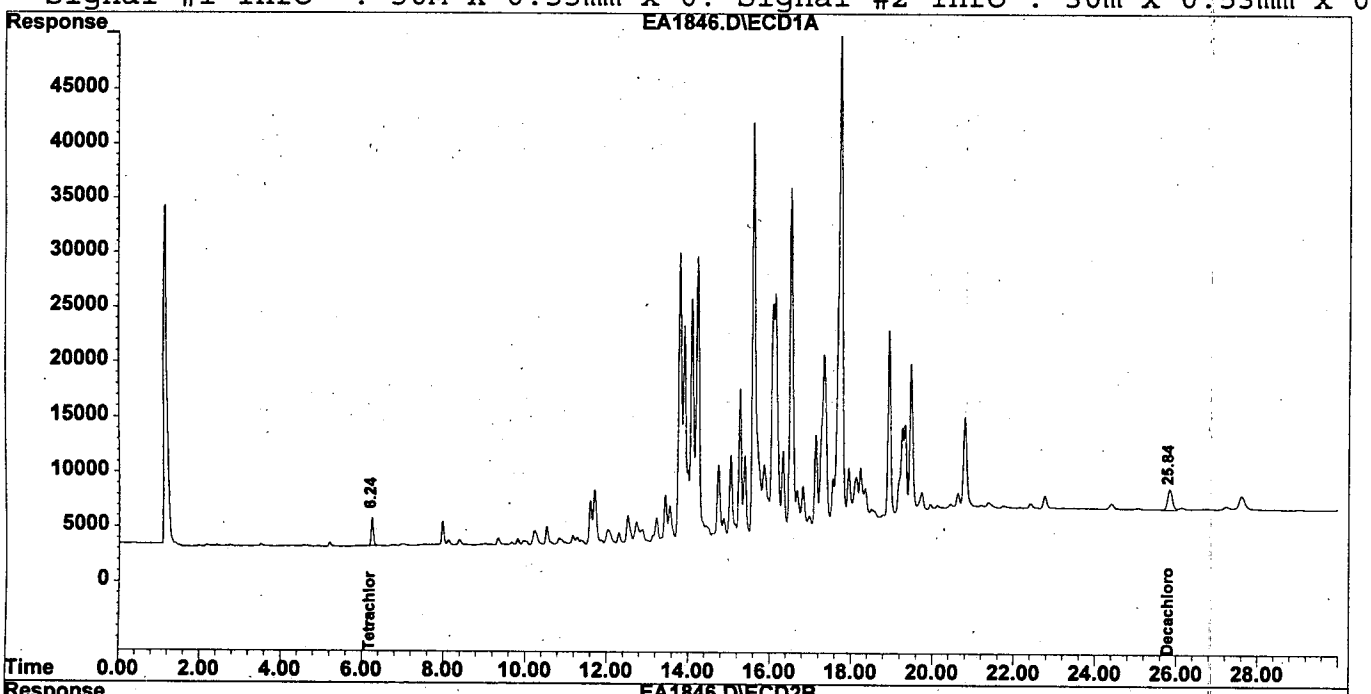
AMENDED REPORT JUN 0 8 1998

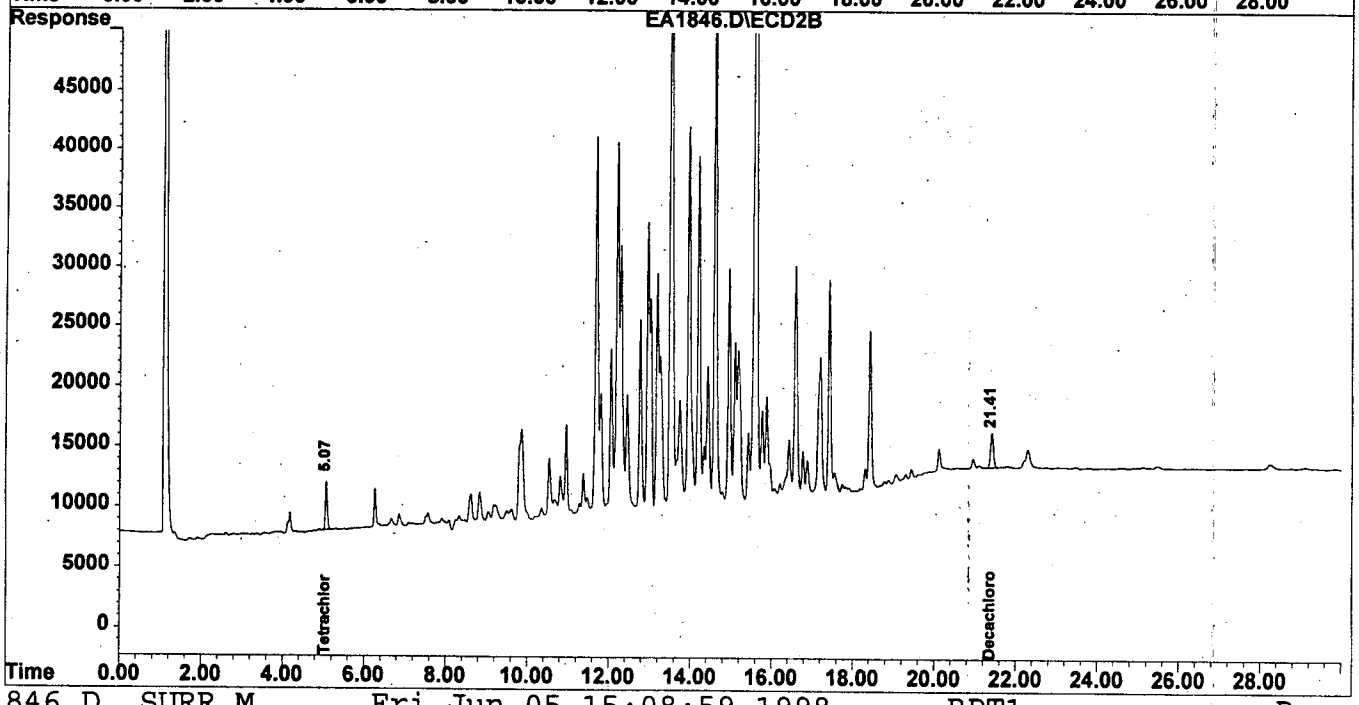
Signal #1 : E:\WESTDA~1\EA1846.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\EA1846.D\ECD2B.CH
Acq On : 18 Dec 97 16:50
Sample : 278376 1:5
Misc : QPC7405
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:24 1998 Quant Results File: SURR.RES

Vial: 4
Operator:
Inst : GC_5890_5
Multiplr: 1.00

Quant Method : H:\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





~~138~~ 140A APWD 6/17/98

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278377
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNSD1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	33.98%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	500	250
Aroclor-1221	U	U	1000	710
Aroclor-1232	U	U	500	400
Aroclor-1242	U	U	500	250
Aroclor-1248	U	U	500	300
Aroclor-1254	~~6000~~ 7100	U	500	350
Aroclor-1260	U	U	500	400

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.

weathered AR1254

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1847.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_E\EA1847.D\ECD2B.CH
Acq On : 18 Dec 97 17:24 Operator:
Sample : 278377 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 20:34 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	6.24	5.08	56622	76164	4.116	3.830
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.29%#	9.57%#
2) SA Decachlorobiphen	25.85	21.42	104954	107609	4.511	4.952
Spiked Amount 40.000 Range 24 - 154 Recovery =					11.28%#	12.38%#
Target Compounds						
3) L1 Aroclor-1016{1}	7.98	0.00	800151	0	2404.299	N.D. #
4) L1 Aroclor-1016{2}	9.35	7.58	18587	31889	27.415	36.618 #
5) L1 Aroclor-1016{3}	10.54	8.85	47102	75482	36.884	40.673
6) L1 Aroclor-1016{4}	0.00	9.20	0	49079	N.D.	58.190 #
7) L1 Aroclor-1016{5}	12.53	10.55	113406	219022	173.718	259.985 #
Sum Aroclor-1016			979245	375472	2642.317	395.465
Average Aroclor-1016					660.579	98.866
8) L2 Aroclor-1221{1}	5.20	0.00	20695	0	159.605	N.D. #
11) L2 Aroclor-1221{4}	7.98	8.85	800151	75482	1961.680	549.567 #
Sum Aroclor-1221			820846	75482	2121.284	549.567
Average Aroclor-1221					1060.642	549.567
12) L3 Aroclor-1232{1}	7.98	0.00	800151	0	2761.106	N.D. #
13) L3 Aroclor-1232{2}	9.35	7.58	18587	31889	59.851	86.877 #
14) L3 Aroclor-1232{3}	10.54	8.85	47102	75482	92.617	100.321
15) L3 Aroclor-1232{4}	12.53	9.20	113406	49079	359.561	145.479 #
16) L3 Aroclor-1232{5}	13.46	10.55	287687	219022	1268.238	574.540 #
Sum Aroclor-1232			1266932	375472	4541.373	907.217
Average Aroclor-1232					908.275	226.804
17) L4 Aroclor-1242{1}	8.12	0.00	18526	0	71.084	N.D. #
18) L4 Aroclor-1242{2}	9.35	7.58	18587	31889	34.574	49.145 #
19) L4 Aroclor-1242{3}	10.54	8.85	47102	75482	48.457	54.117
20) L4 Aroclor-1242{4}	0.00	9.20	0	49079	N.D.	80.206 #
21) L4 Aroclor-1242{5}	12.53	10.55	113406	219022	203.502	331.118 #
Sum Aroclor-1242			197620	375472	357.617	514.586
Average Aroclor-1242					89.404	128.647

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12/18/97

(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_E\EA1847.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_E\EA1847.D\ECD2B.CH
Acq On : 18 Dec 97 17:24 Operator:
Sample : 278377 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 20:34 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}	9.35	7.58	18587	31889	64.647	89.585	#
23)	L5 Aroclor-1248{2}	10.54	8.85	47102	75482	56.150	62.252	
24)	L5 Aroclor-1248{3}	12.53	10.55	113406	219022	149.112	233.097	#
25)	L5 Aroclor-1248{4}	13.46	10.82	287687	124847	405.030	143.938	#
26)	L5 Aroclor-1248{5}	15.61	13.52	1766680	2483067	5321.944	7015.835	#
	Sum Aroclor-1248			2233461	2934307	5996.882	7544.708	
	Average Aroclor-1248					1199.376 NP	1508.942 NP	
27)	L6 Aroclor-1254{1}	~~11.61~~	~~9.82~~	183129	209149	~~489.487~~	~~339.315~~	#
28)	L6 Aroclor-1254{2}	~~13.79~~	11.70	1822930	1186007	~~3071.970~~	960.188	#
29)	L6 Aroclor-1254{3}	15.61	12.22	1766680	867199	1359.678	877.535	#
30)	L6 Aroclor-1254{4}	16.53	13.52	1412887	2483067	2262.286	1773.353	
31)	L6 Aroclor-1254{5}	17.75	15.60	1936500	2759285	1596.600	2008.674	#
	Sum Aroclor-1254			7122126	7504707	8780.021	5959.066	
	Average Aroclor-1254					1756.004	1191.813	
32)	L7 Aroclor-1260{1}	16.15	13.97	859944	1170579	885.156	1066.952	
33)	L7 Aroclor-1260{2}	16.53	14.61	1412887	1348870	1198.481	926.478	
34)	L7 Aroclor-1260{3}	18.95	15.60	494053	2759285	595.504	1453.922	#
35)	L7 Aroclor-1260{4}	19.48	17.42	451951	476831	235.807	213.844	
36)	L7 Aroclor-1260{5}	20.81	18.42	320325	369993	204.990	227.156	
	Sum Aroclor-1260			3539161	6125557	3119.938	3888.350	
	Average Aroclor-1260					623.988 NP	777.670 NP	

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12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 199

Signal #1 : E:\WESTDA~1\EA1847.D\ECD1A.CH Vial: 5
Signal #2 : E:\WESTDA~1\EA1847.D\ECD2B.CH
Acq On : 18 Dec 97 17:24 Operator:
Sample : 278377 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:52 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.08	56622	82119	3.981	3.793
Spiked Amount 40.000 Range 43 - 150 Recovery =					9.95%#	9.48%#
2) SA Decachlorobiphen	25.85	21.42	105313	109351	4.478	4.793
Spiked Amount 40.000 Range 24 - 154 Recovery =					11.20%#	11.98%#
Target Compounds						

6/5/98

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

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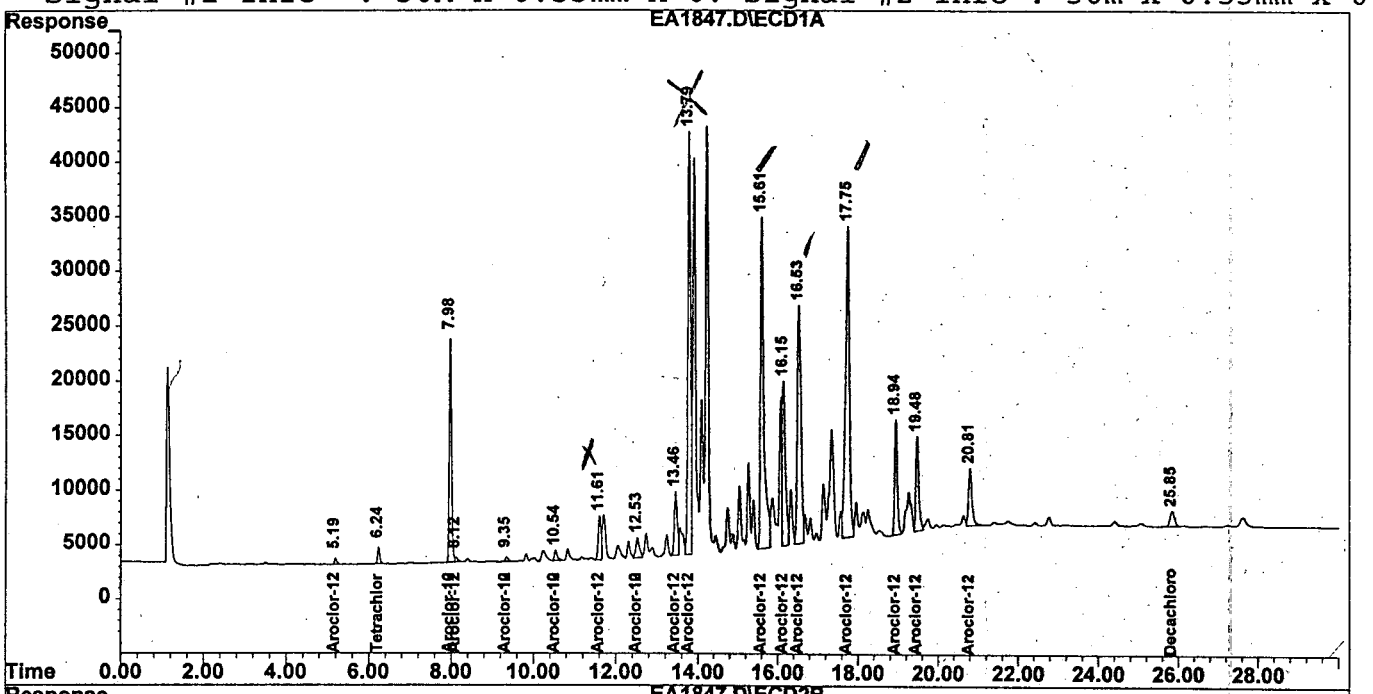
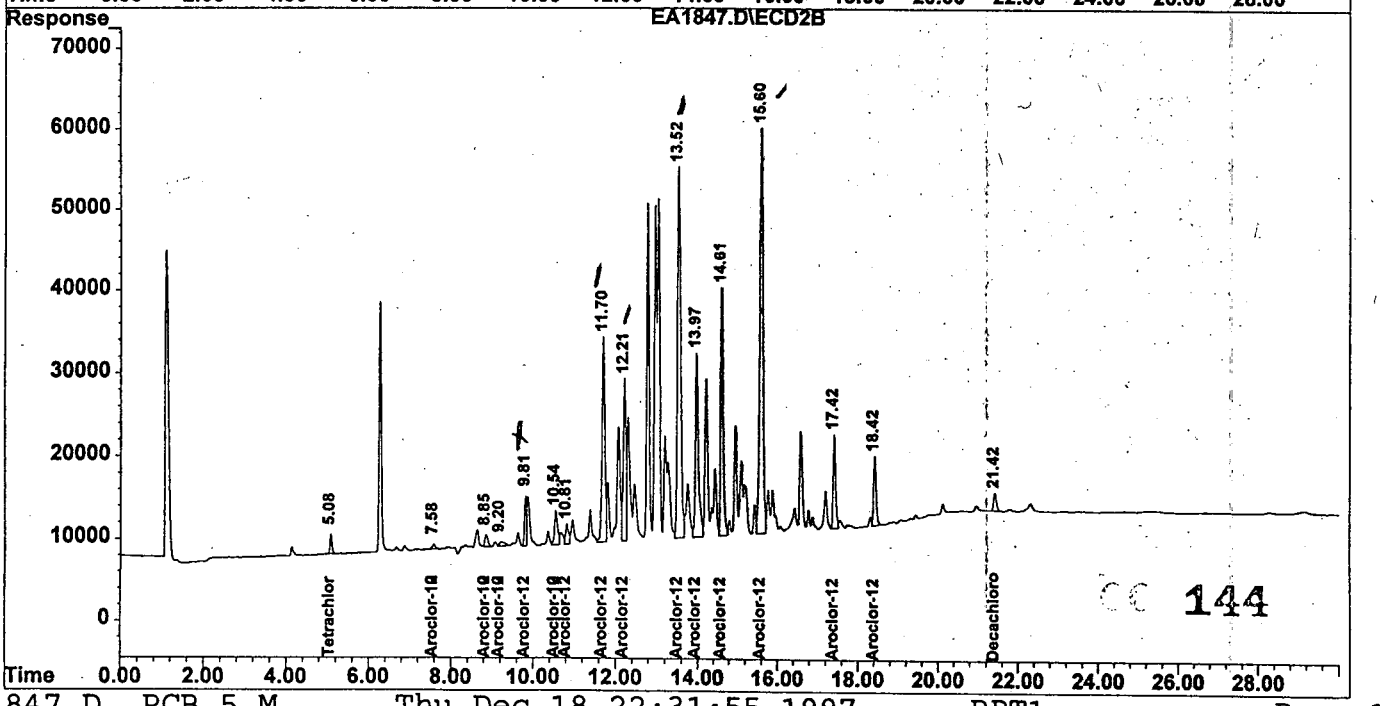
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1847.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_E\EA1847.D\ECD2B.CH
Acq On : 18 Dec 97 17:24 Operator:
Sample : 278377 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 20:34 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





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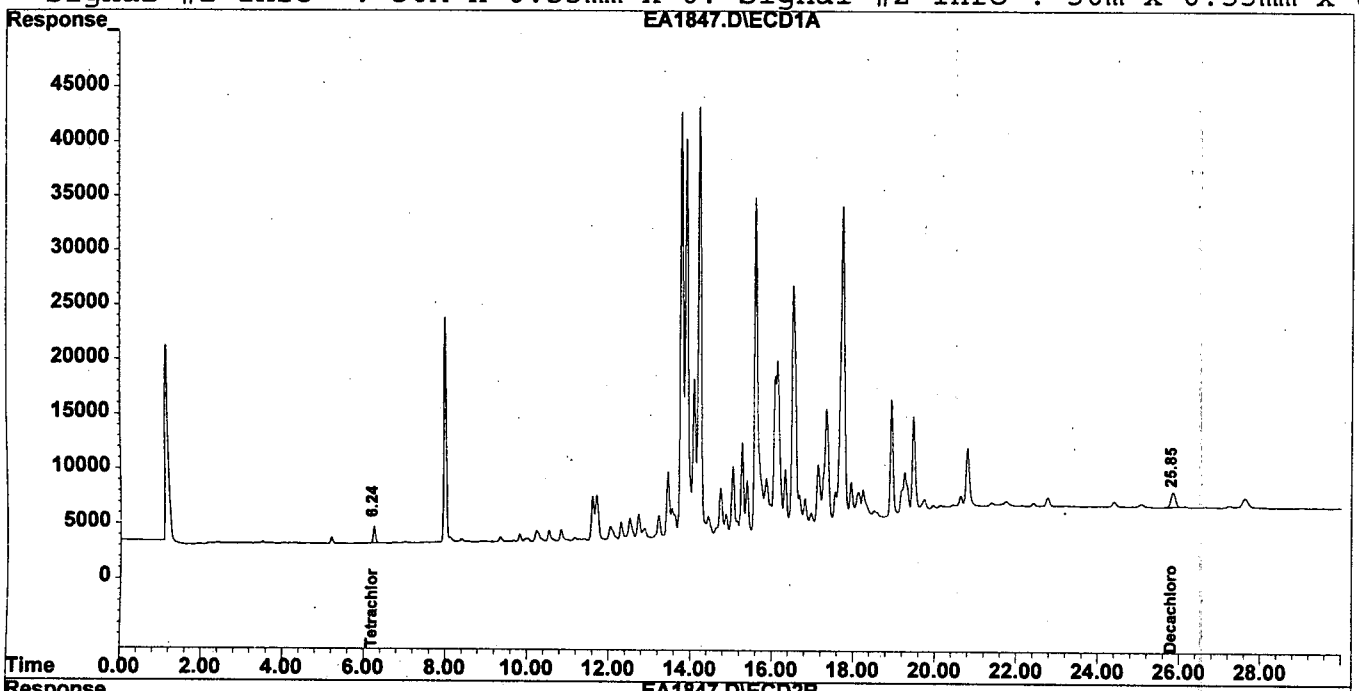
Quantitation Report

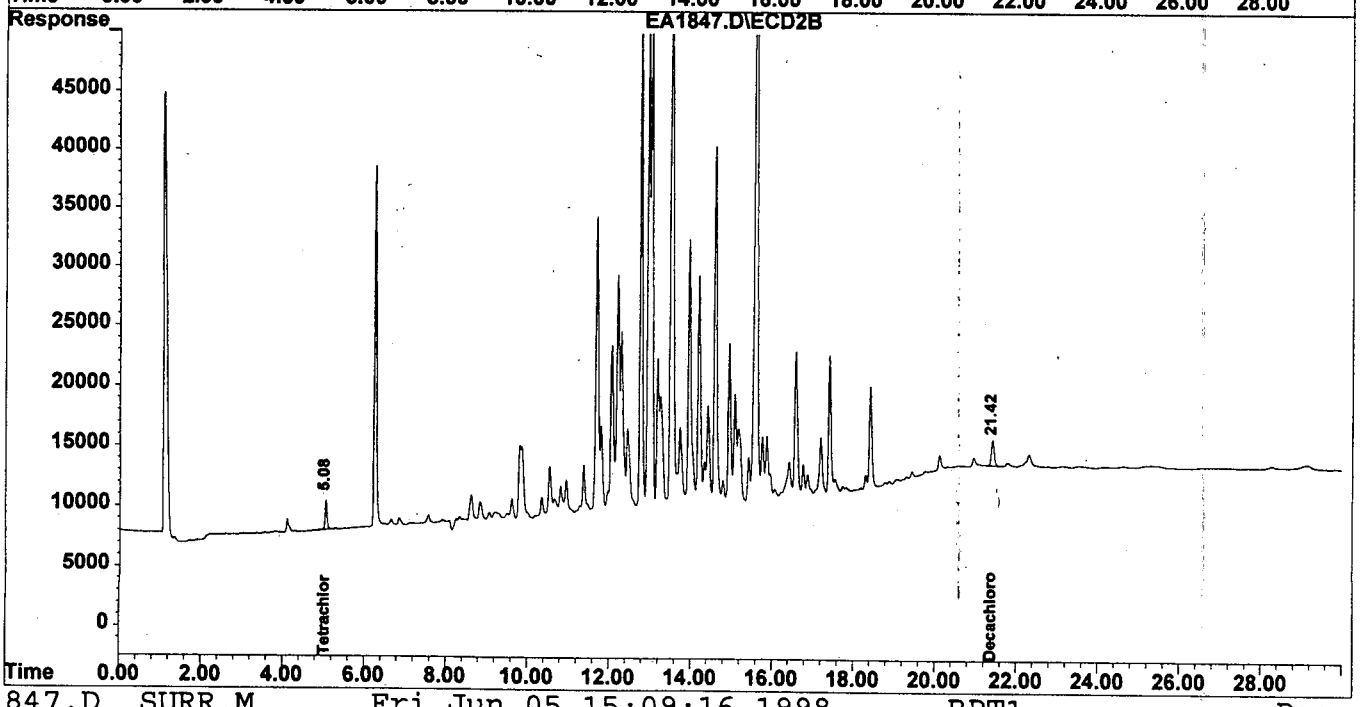
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1847.D\ECD1A.CH Vial: 5
Signal #2 : E:\WESTDA~1\EA1847.D\ECD2B.CH
Acq On : 18 Dec 97 17:24 Operator:
Sample : 278377 1:10 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:52 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278378
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNSS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	45.37%

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	85
Aroclor-1232	U	U	61	49
Aroclor-1242	U	U	61	30
Aroclor-1248	U	U	61	37
Aroclor-1254	2300 J	U	61	43
Aroclor-1260	U J	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.
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LOU

JAR257 !! CCV [illegible] + ok
[illegible]
JAR260 !! CCV [illegible]

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1792.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_E\EA1792.D\ECD2B.CH
Acq On : 15 Dec 97 16:12 Operator:
Sample : 278378 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:46 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	6.23	5.07	377876	524629	27.466m	26.379m
Spiked Amount 40.000 Range 43 - 150 Recovery =					68.66%	65.95%
2) SA Decachlorobiphen	25.85	21.41	826118	757396	35.506	34.855
Spiked Amount 40.000 Range 24 - 154 Recovery =					88.77%	87.14%
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	6.50	0	44028	N.D.	95.954 #
4) L1 Aroclor-1016{2}	9.34	7.57	110571	214922	163.090	246.790 #
5) L1 Aroclor-1016{3}	10.54	8.83	222660	358040	174.360	192.928
6) L1 Aroclor-1016{4}	0.00	9.18	0	566190	N.D.	671.294 #
7) L1 Aroclor-1016{5}	12.53	10.53	977017	1400335	1496.625	1662.236
Sum Aroclor-1016			1310248	2583515	1834.075	2869.202
Average Aroclor-1016					611.358	573.840
8) L2 Aroclor-1221{1}	0.00	5.93	0	26193	N.D.	95.917 #
10) L2 Aroclor-1221{3}	0.00	6.50	0	44028	N.D.	68.743 #
11) L2 Aroclor-1221{4}	0.00	8.83	0	358040	N.D.	2606.814 #
Sum Aroclor-1221			0	428261	N.D.	2771.474
Average Aroclor-1221					0.000	923.825
12) L3 Aroclor-1232{1}	8.12	6.50	101401	44028	349.908	106.531 #
13) L3 Aroclor-1232{2}	9.34	7.57	110571	214922	356.051	585.514 #
14) L3 Aroclor-1232{3}	10.54	8.83	222660	358040	437.819	475.864
15) L3 Aroclor-1232{4}	12.53	0.00	977017	0	3097.704	N.D. #
16) L3 Aroclor-1232{5}	13.45	10.53	919061	1400335	4051.579	3673.374
Sum Aroclor-1232			2330710	2017325	8293.060	4841.283
Average Aroclor-1232					1658.612	1210.321
17) L4 Aroclor-1242{1}	8.12	6.50	101401	44028	389.077	120.728 #
18) L4 Aroclor-1242{2}	9.34	7.57	110571	214922	205.678	331.215 #
19) L4 Aroclor-1242{3}	10.54	8.83	222660	358040	229.068	256.699
21) L4 Aroclor-1242{5}	12.53	10.53	977017	1400335	1753.222	2117.034
Sum Aroclor-1242			1411649	2017325	2577.045	2825.676
Average Aroclor-1242					644.261	706.419

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12/18/97

(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_E\EA1792.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_E\EA1792.D\ECD2B.CH
Acq On : 15 Dec 97 16:12 Operator:
Sample : 278378 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:46 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}	9.34	7.57	110571	214922	384.581	603.767 #
23) L5	Aroclor-1248{2}	10.54	8.83	222660	358040	265.432	295.286
24) L5	Aroclor-1248{3}	12.53	10.53	977017	1400335	1284.637	1490.329
25) L5	Aroclor-1248{4}	13.45	10.81	919061	782307	1293.929	901.939 #
26) L5	Aroclor-1248{5}	15.60	13.51	6136016	6929009	18484.125	19577.717
Sum	Aroclor-1248			8365324	9684613	21712.704	22369.039
Average	Aroclor-1248					4342.541 µg	4573.808 µg
27) L6	Aroclor-1254{1}	11.61	9.81	896238	895756	2395.559	1453.241m#
28) L6	Aroclor-1254{2}	13.79	11.69	3168053	3848570	5338.749	3115.793 #
29) L6	Aroclor-1254{3}	15.60	12.21	6136016	2997319	4722.422	3033.041 #
30) L6	Aroclor-1254{4}	16.53	13.51	4079263	6929009	6531.631	4948.550
31) L6	Aroclor-1254{5}	17.74	15.59	7456599	8890712	6147.797	6472.164 >5000
Sum	Aroclor-1254			21736169	23561365	25136.158	19022.789
Average	Aroclor-1254					5027.232	3804.558
32) L7	Aroclor-1260{1}	0.00	13.96	0	3696864	N.D.	3369.594 #
33) L7	Aroclor-1260{2}	16.53	14.60	4079263	4229904	3460.233	2905.332
34) L7	Aroclor-1260{3}	18.94	15.59	2444360	8890712	2946.292	4684.691 #
35) L7	Aroclor-1260{4}	19.48	17.41	2242715	2012619	1170.145	902.596
36) L7	Aroclor-1260{5}	20.80	18.42	1664152	1648542	1064.966	1012.116
Sum	Aroclor-1260			10430491	20478641	8641.635	12874.329
Average	Aroclor-1260					2160.409 µg	2574.866 µg

QC 147

DMS 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1792.D\ECD1A.CH Vial: 16
Signal #2 : E:\WESTDA~1\EA1792.D\ECD2B.CH
Acq On : 15 Dec 97 16:12 Operator:
Sample : 278378 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:18 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	411715	653134	28.947	30.165
Spiked Amount 40.000 Range 43 - 150 Recovery =					72.37%	75.41%
2) SA Decachlorobiphen	25.85	21.41	759478	800808	32.291m	35.102m
Spiked Amount 40.000 Range 24 - 154 Recovery =					80.73%	87.76%

Target Compounds

147A

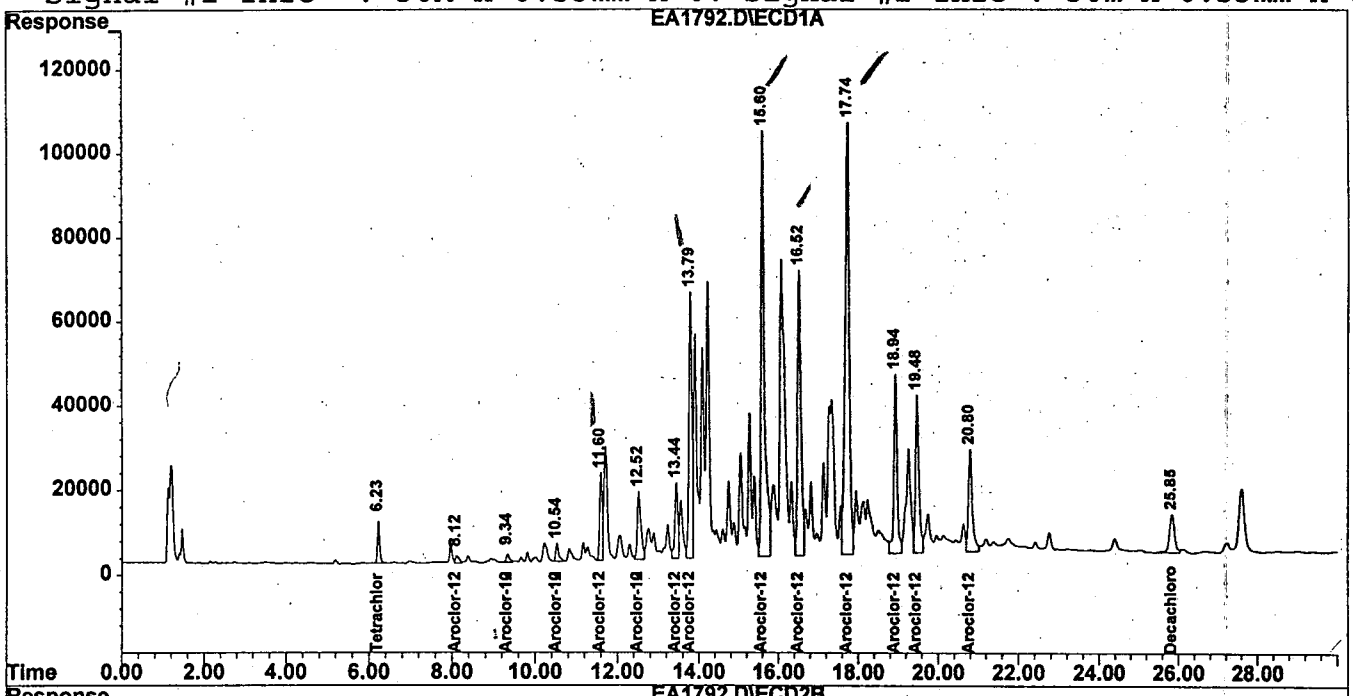
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

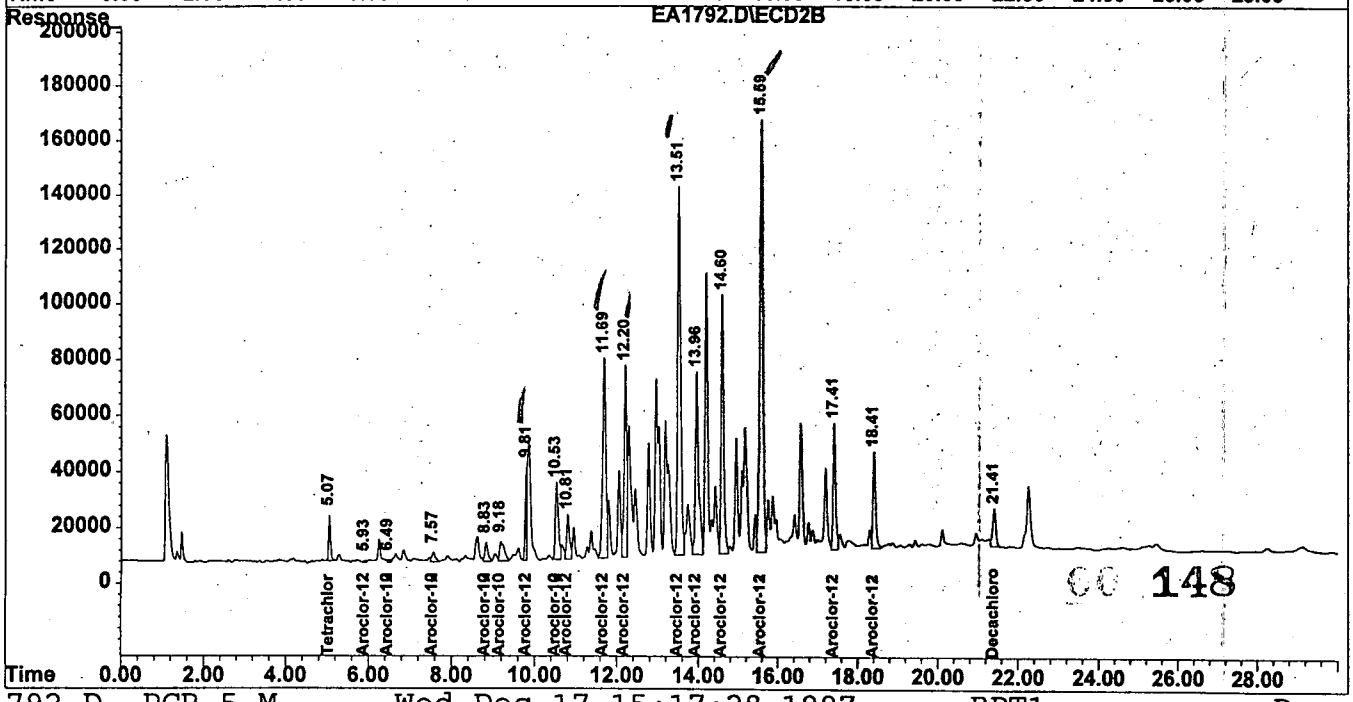
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1792.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_E\EA1792.D\ECD2B.CH
Acq On : 15 Dec 97 16:12 Operator:
Sample : 278378 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:46 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

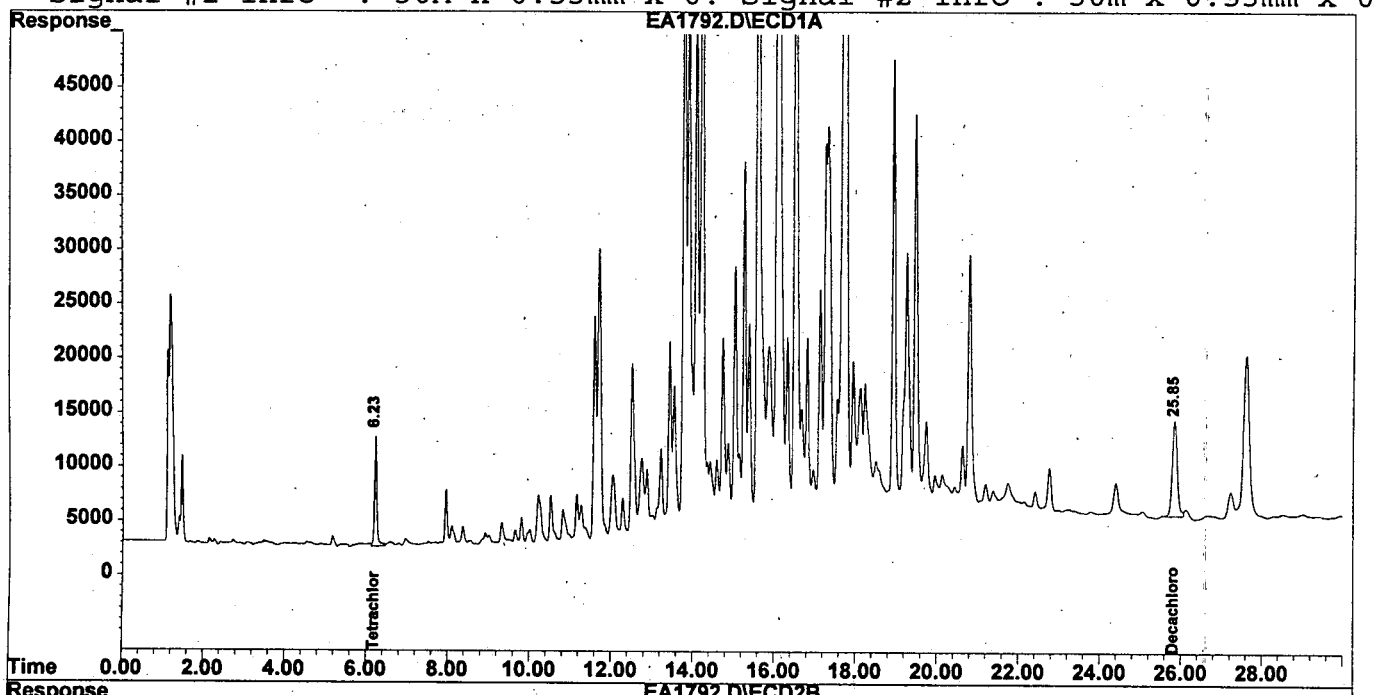
AMENDED REPORT JUN 0 8 1998

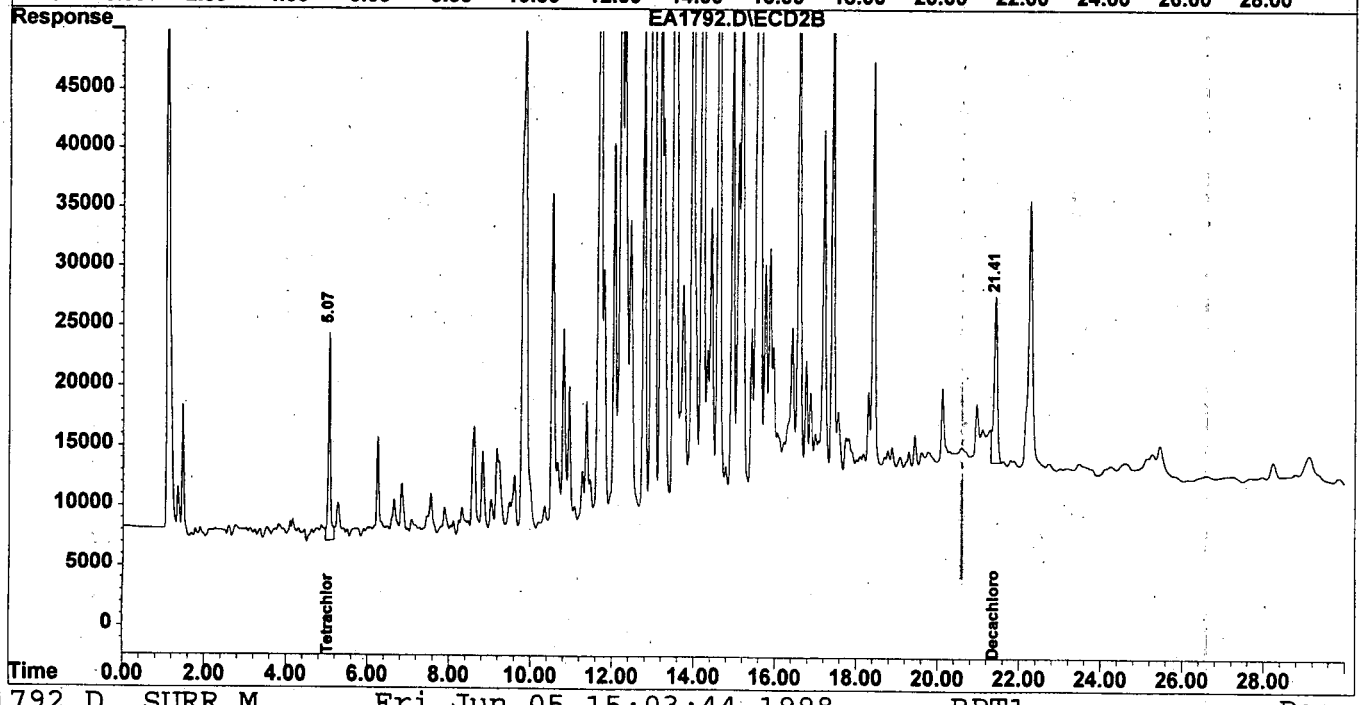
Signal #1 : E:\WESTDA~1\EA1792.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\EA1792.D\ECD2B.CH
Acq On : 15 Dec 97 16:12
Sample : 278378
Misc : QPC7405
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:18 1998 Quant Results File: SURR.RES

Vial: 16
Operator:
Inst : GC_5890_5
Multiplr: 1.00

Quant Method : H:\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





148A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278379
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: NNNNSD2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	25.24%

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	89	62
Aroclor-1232	U	U	44	36
Aroclor-1242	U	U	44	22
Aroclor-1248	U	U	44	27
Aroclor-1254	~~1300~~ 1600 J	U	44	31
Aroclor-1260	U J	U	44	36

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.
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LOU

J 1254 :: CCV + conc. >5000
J 1260 :: CCV

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1794.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA_E\EA1794.D\ECD2B.CH
Acq On : 15 Dec 97 19:01 Operator:
Sample : 278379 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 13:18 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	6.26	5.08	561345	732363	40.802	36.824
Spiked Amount 40.000 Range 43 - 150 Recovery =					102.01%	92.06%
2) SA Decachlorobiphen	25.89	21.42	1042955	790928	44.825	36.398
Spiked Amount 40.000 Range 24 - 154 Recovery =					112.06%	91.00%
Target Compounds						
3) L1 Aroclor-1016{1}	8.00	6.51	2585437	47148	7768.742	102.754 #
4) L1 Aroclor-1016{2}	9.37	7.59	55338	185679	81.623	213.211 #
5) L1 Aroclor-1016{3}	10.57	8.86	181845	331421	142.399	178.585 #
6) L1 Aroclor-1016{4}	0.00	9.21	0	101611	N.D.	120.473 #
7) L1 Aroclor-1016{5}	12.55	10.55	410702	553099	629.126	656.544
Sum Aroclor-1016			3233323	1218958	8621.889	1271.566
Average Aroclor-1016					2155.472 NP	254.313 NP
8) L2 Aroclor-1221{1}	5.21	5.93	128131	29398	988.178	107.652 #
10) L2 Aroclor-1221{3}	0.00	6.51	0	47148	N.D.	73.614 #
11) L2 Aroclor-1221{4}	8.00	8.86	2585437	331421	6338.555	2413.005 #
Sum Aroclor-1221			2713568	407966	7326.733	2594.272
Average Aroclor-1221					3663.366 NP	864.757 NP
12) L3 Aroclor-1232{1}	8.00	6.51	2585437	47148	8921.651	114.080 #
13) L3 Aroclor-1232{2}	9.37	7.59	55338	185679	178.195	505.847 #
14) L3 Aroclor-1232{3}	10.57	8.86	181845	331421	357.565	440.485
15) L3 Aroclor-1232{4}	12.55	9.21	410702	101611	1302.160	301.193 #
16) L3 Aroclor-1232{5}	13.48	10.55	884685	553099	3900.036	1450.896 #
Sum Aroclor-1232			4118007	1218958	14659.607	2812.501
Average Aroclor-1232					2931.921 NP	562.500 NP
17) L4 Aroclor-1242{1}	8.00	6.51	2585437	47148	9920.354	129.283 #
18) L4 Aroclor-1242{2}	9.37	7.59	55338	185679	102.937	286.149 #
19) L4 Aroclor-1242{3}	10.57	8.86	181845	331421	187.079	237.614 #
20) L4 Aroclor-1242{4}	0.00	9.31	0	85023	N.D.	138.947 #
21) L4 Aroclor-1242{5}	12.55	10.55	410702	553099	736.990	836.178
Sum Aroclor-1242			3233323	1202370	10947.359	1628.173
Average Aroclor-1242					2736.840 NP	325.635 NP

00 150

12/18/97

(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_E\EA1794.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA_E\EA1794.D\ECD2B.CH
Acq On : 15 Dec 97 19:01 Operator:
Sample : 278379 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 13:18 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}	9.37	7.59	55338	185679	192.473	521.617	#
23) L5	Aroclor-1248{2}	10.57	8.86	181845	331421	216.777	273.333	#
24) L5	Aroclor-1248{3}	12.55	10.55	410702	553099	540.014	588.645	
25) L5	Aroclor-1248{4}	13.48	10.82	884685	394584	1245.532	454.925	#
26) L5	Aroclor-1248{5}	15.63	13.53	4236815	5820245	12762.976	16444.936	#
Sum	Aroclor-1248			5769385	7285029	14957.772	18283.455	
Average	Aroclor-1248					2991.554 NP	3656.691 NP	
27) L6	Aroclor-1254{1}	~~11.64~~	~~9.82~~	~~369883~~	~~330954~~	~~988.662~~	~~536.927~~	#
28) L6	Aroclor-1254{2}	~~13.81~~	11.71	~~5891207~~	2566713	~~9927.761~~	2078.005	#
29) L6	Aroclor-1254{3}	15.63	12.22	4236815	1621883	3260.753	1641.213	#
30) L6	Aroclor-1254{4}	16.56	13.53	4171778	5820245	6679.765	4156.694	#
31) L6	Aroclor-1254{5}	17.77	15.60	6742110	8332809	5558.717	6066.028	
Sum	Aroclor-1254			21411794	18672603	26415.658	14478.867	
Average	Aroclor-1254					~~5283.132~~ 3875	~~2895.773~~ 3185	
32) L7	Aroclor-1260{1}	16.17	13.97	3409022	3063305	3508.969	2792.122	
33) L7	Aroclor-1260{2}	16.56	14.61	4171778	3789820	3538.709	2603.058	#
34) L7	Aroclor-1260{3}	18.97	15.60	1936249	8332809	2333.844	4390.721	#
35) L7	Aroclor-1260{4}	19.50	17.43	2191014	2108751	1143.170	945.708	
36) L7	Aroclor-1260{5}	20.83	18.43	1477124	1588977	945.278	975.546	
Sum	Aroclor-1260			13185187	18883662	11469.969	11707.155	
Average	Aroclor-1260					2293.994 NP	2341.431 NP	

DMW 12/18/97 151

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1794.D\ECD1A.CH Vial: 18
Signal #2 : E:\WESTDA~1\EA1794.D\ECD2B.CH
Acq On : 15 Dec 97 19:01 Operator:
Sample : 278379 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:18 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.26	5.08	561345	761552	39.467	35.172
Spiked Amount 40.000 Range 43 - 150 Recovery =					98.67%	87.93%
2) SA Decachlorobiphen	25.89	21.42	1042956	938888	44.344	41.154m
Spiked Amount 40.000 Range 24 - 154 Recovery =					110.86%	102.89%

Target Compounds

15ØA

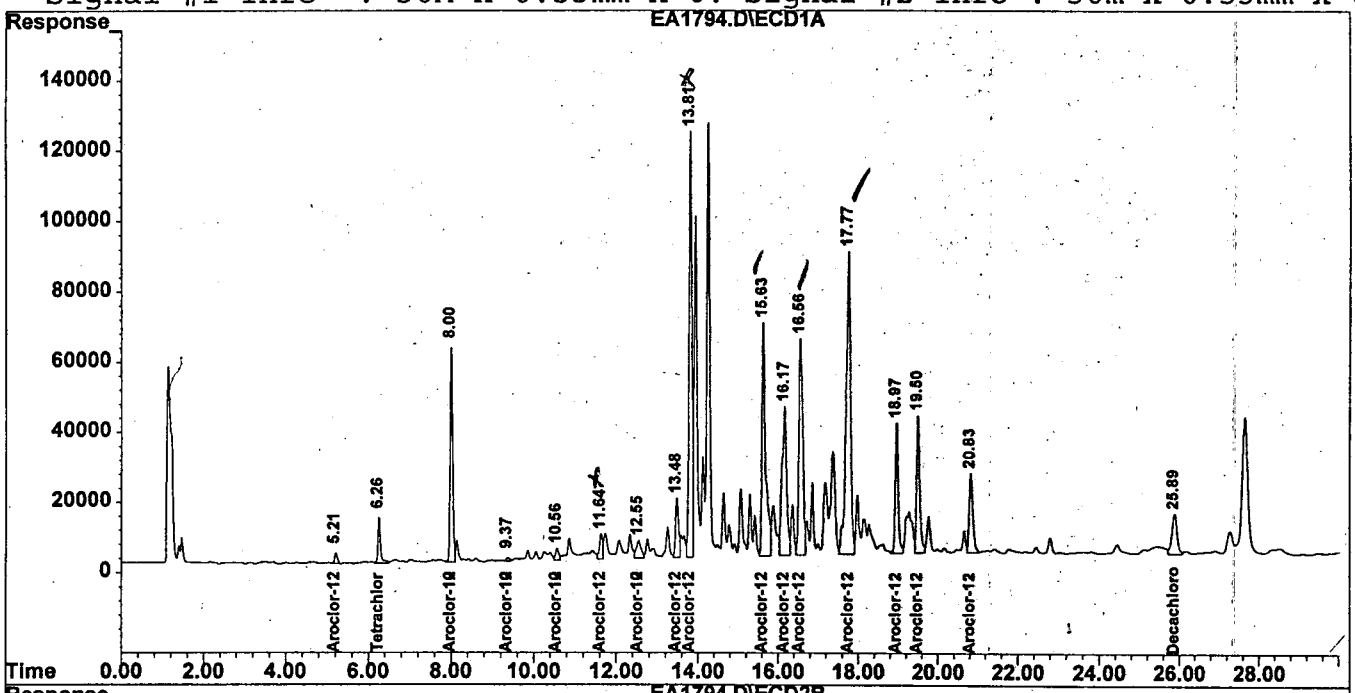
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

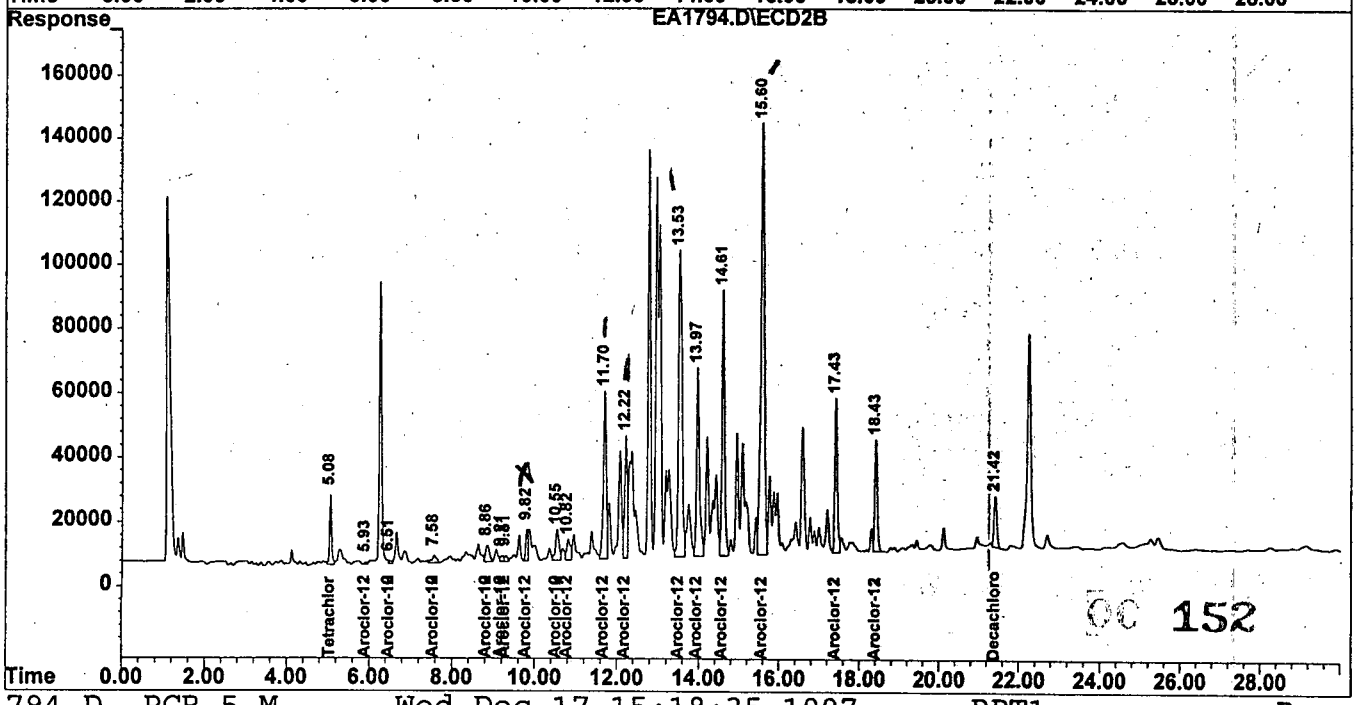
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1794.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA_E\EA1794.D\ECD2B.CH
Acq On : 15 Dec 97 19:01 Operator:
Sample : 278379 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 13:18 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





QC 152

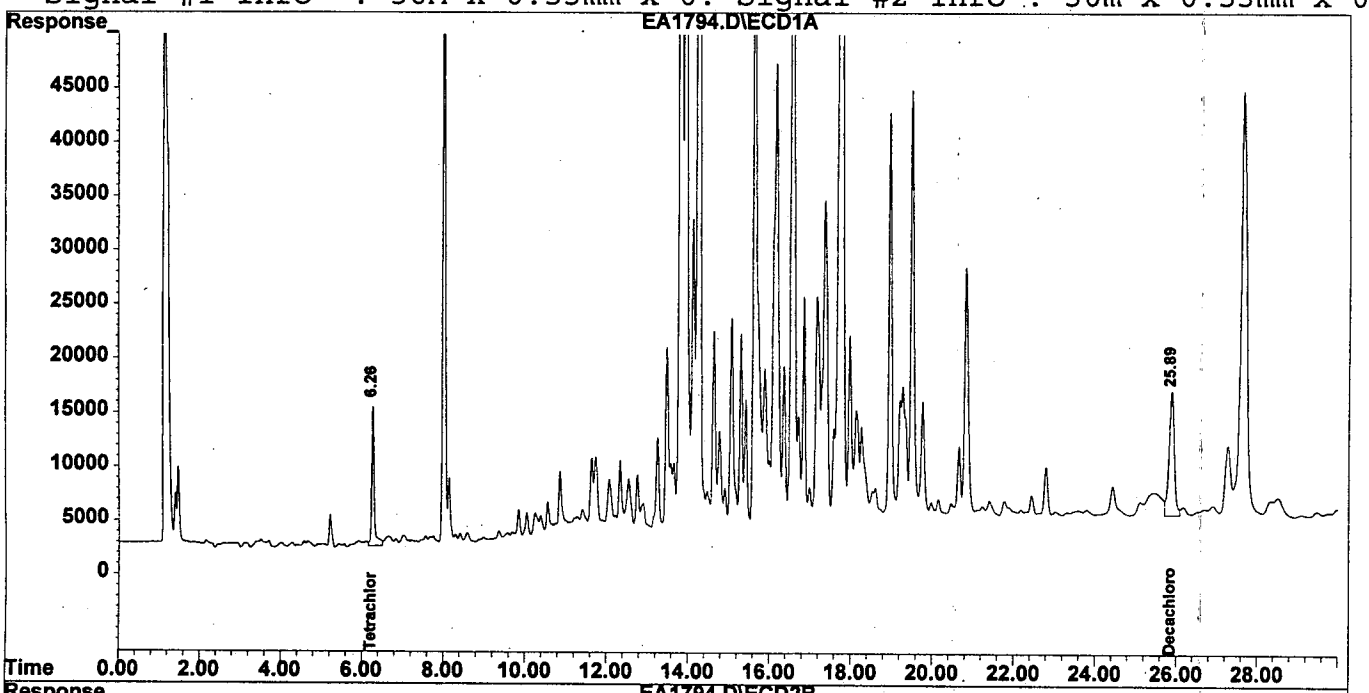
Quantitation Report

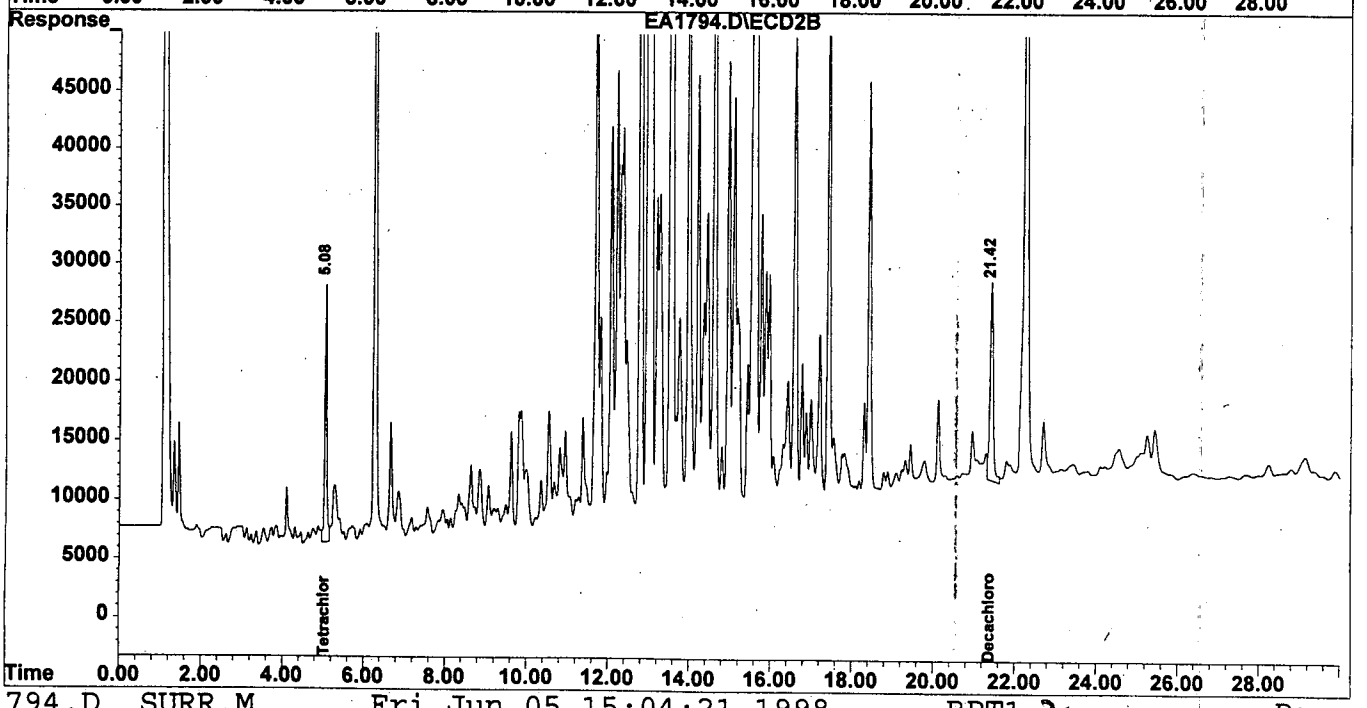
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1794.D\ECD1A.CH Vial: 18
Signal #2 : E:\WESTDA~1\EA1794.D\ECD2B.CH
Acq On : 15 Dec 97 19:01 Operator:
Sample : 278379 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:18 1998 Quant Results File: SURR.RES

Quant Method : H:\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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278380
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOOSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	40%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	56	28
Aroclor-1221	U	U	110	78
Aroclor-1232	U	U	56	44
Aroclor-1242	U	U	56	28
Aroclor-1248	U	U	56	33
Aroclor-1254	~~90~~ 110	U	56	39
Aroclor-1260	UJ	U	56	44

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.

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Thomas Mancuso, Lab Mgr.
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ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1795.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA_E\EA1795.D\ECD2B.CH
Acq On : 15 Dec 97 19:35 Operator:
Sample : 278380 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:49 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	6.24	5.07	655943	1000324	47.678	50.297	
Spiked Amount 40.000 Range 43 - 150 Recovery =					119.20%	125.74%	
2) SA Decachlorobiphen	25.87	21.42	1059431	914815	45.534m	42.100	
Spiked Amount 40.000 Range 24 - 154 Recovery =					113.84%	105.25%	
Target Compounds							
3) L1 Aroclor-1016{1}	8.06	0.00	20928	0	62.884	N.D.	#
4) L1 Aroclor-1016{2}	9.34	7.58	18728	38194	27.624	43.858	#
5) L1 Aroclor-1016{3}	10.54	0.00	20994	0	16.440	N.D.	#
7) L1 Aroclor-1016{5}	12.53	10.54	40236	92774	61.635	110.125	#
Sum Aroclor-1016			100886	130968	168.582	153.983	
Average Aroclor-1016					42.146	76.991	
9) L2 Aroclor-1221{2}	7.43	0.00	7094	0	74.765	N.D.	#
11) L2 Aroclor-1221{4}	8.06	0.00	20928	0	51.308	N.D.	#
Sum Aroclor-1221			28022	0	126.072	N.D.	
Average Aroclor-1221					63.036	0.000	
12) L3 Aroclor-1232{1}	8.06	0.00	20928	0	72.216	N.D.	#
13) L3 Aroclor-1232{2}	9.34	7.58	18728	38194	60.306	104.053	#
14) L3 Aroclor-1232{3}	10.54	0.00	20994	0	41.280	N.D.	#
15) L3 Aroclor-1232{4}	12.53	0.00	40236	0	127.571	N.D.	#
16) L3 Aroclor-1232{5}	13.45	10.54	37086	92774	163.489	243.365	#
Sum Aroclor-1232			137972	130968	464.863	347.418	
Average Aroclor-1232					92.973	173.709	
17) L4 Aroclor-1242{1}	8.06	0.00	20928	0	80.301	N.D.	#
18) L4 Aroclor-1242{2}	9.34	7.58	18728	38194	34.837	58.861	#
19) L4 Aroclor-1242{3}	10.54	0.00	20994	0	21.598	N.D.	#
21) L4 Aroclor-1242{5}	12.53	10.54	40236	92774	72.202	140.256	#
Sum Aroclor-1242			100886	130968	208.937	199.117	
Average Aroclor-1242					52.234	99.558	
22) L5 Aroclor-1248{1}	9.34	7.58	18728	38194	65.139	107.297	#
23) L5 Aroclor-1248{2}	10.54	0.00	20994	0	25.026	N.D.	#

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12/18/97

(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_E\EA1795.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA_E\EA1795.D\ECD2B.CH
Acq On : 15 Dec 97 19:35 Operator:
Sample : 278380 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:49 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
24) L5	Aroclor-1248{3}	12.53	10.54	40236	92774	52.905	98.736 #
25) L5	Aroclor-1248{4}	13.45	10.82	37086	35343	52.213	40.748
26) L5	Aroclor-1248{5}	15.61	13.52	202495	260545	609.996	736.164
Sum	Aroclor-1248			319539	426857	805.278	982.945
Average	Aroclor-1248					161.056 NP	245.736 NP
27) L6	Aroclor-1254{1}	11.61	9.81	76118	73582	203.455	119.377m#
28) L6	Aroclor-1254{2}	13.81	11.70	111550	215373	187.981	174.366
29) L6	Aroclor-1254{3}	15.61	12.22	202495	148286	155.845	150.053
30) L6	Aroclor-1254{4}	16.53	13.52	109605	260545	175.498	186.076
31) L6	Aroclor-1254{5}	17.75	15.60	283480	248394	233.723	180.823
Sum	Aroclor-1254			783248	946181	956.502	810.695
Average	Aroclor-1254					191.300	162.139
32) L7	Aroclor-1260{1}	0.00	13.97	0	121534	N.D.	110.775 #
33) L7	Aroclor-1260{2}	16.53	14.61	109605	216981	92.973	149.035 #
34) L7	Aroclor-1260{3}	18.95	15.60	125111	248394	150.802	130.884
35) L7	Aroclor-1260{4}	19.48	17.42	76992	28792	40.171	12.912 #
36) L7	Aroclor-1260{5}	20.81	0.00	49642	0	31.768	N.D. #
Sum	Aroclor-1260			361350	615701	315.713	403.605
Average	Aroclor-1260					78.928 NP	100.901 NP

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emr 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1795.D\ECD1A.CH Vial: 19
Signal #2 : E:\WESTDA~1\EA1795.D\ECD2B.CH
Acq On : 15 Dec 97 19:35 Operator:
Sample : 278380 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:19 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	655864	999828	46.112	46.177
Spiked Amount 40.000 Range 43 - 150 Recovery =					115.28%	115.44%
2) SA Decachlorobiphen	25.87	21.42	1216375	945639	51.717	41.450m
Spiked Amount 40.000 Range 24 - 154 Recovery =					129.29%	103.63%

Target Compounds

155A

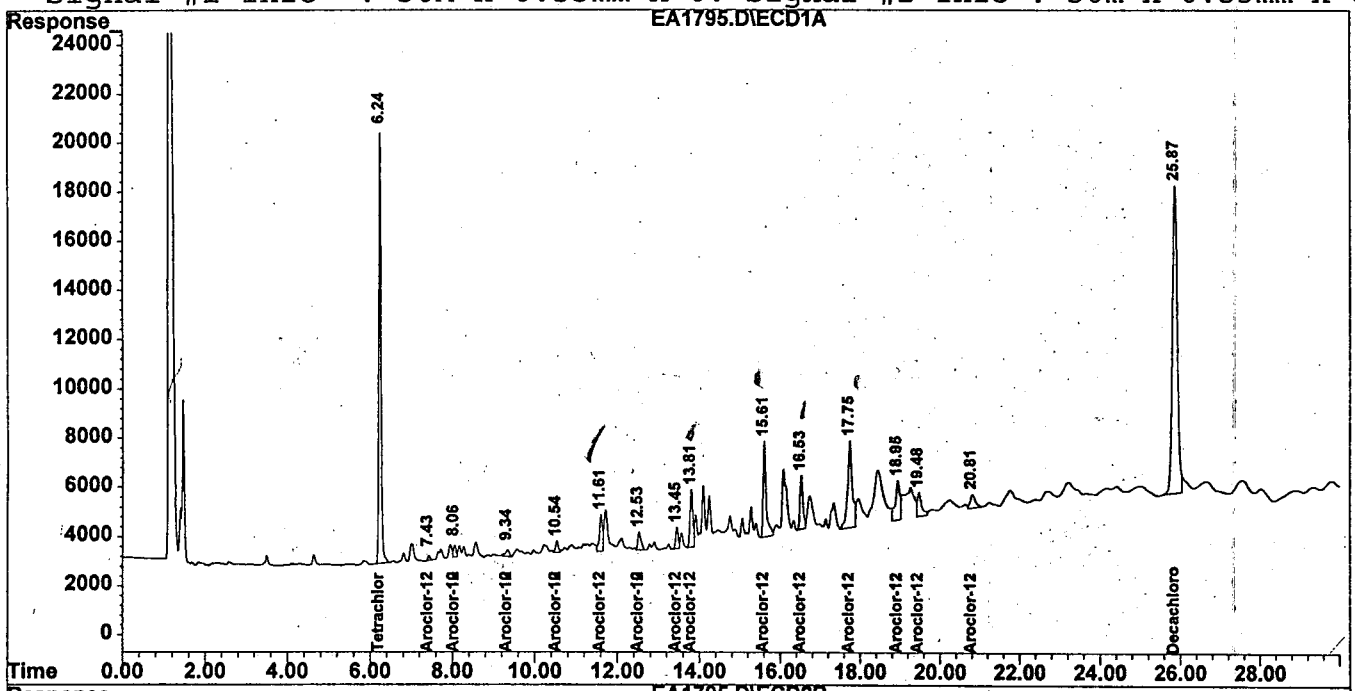
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

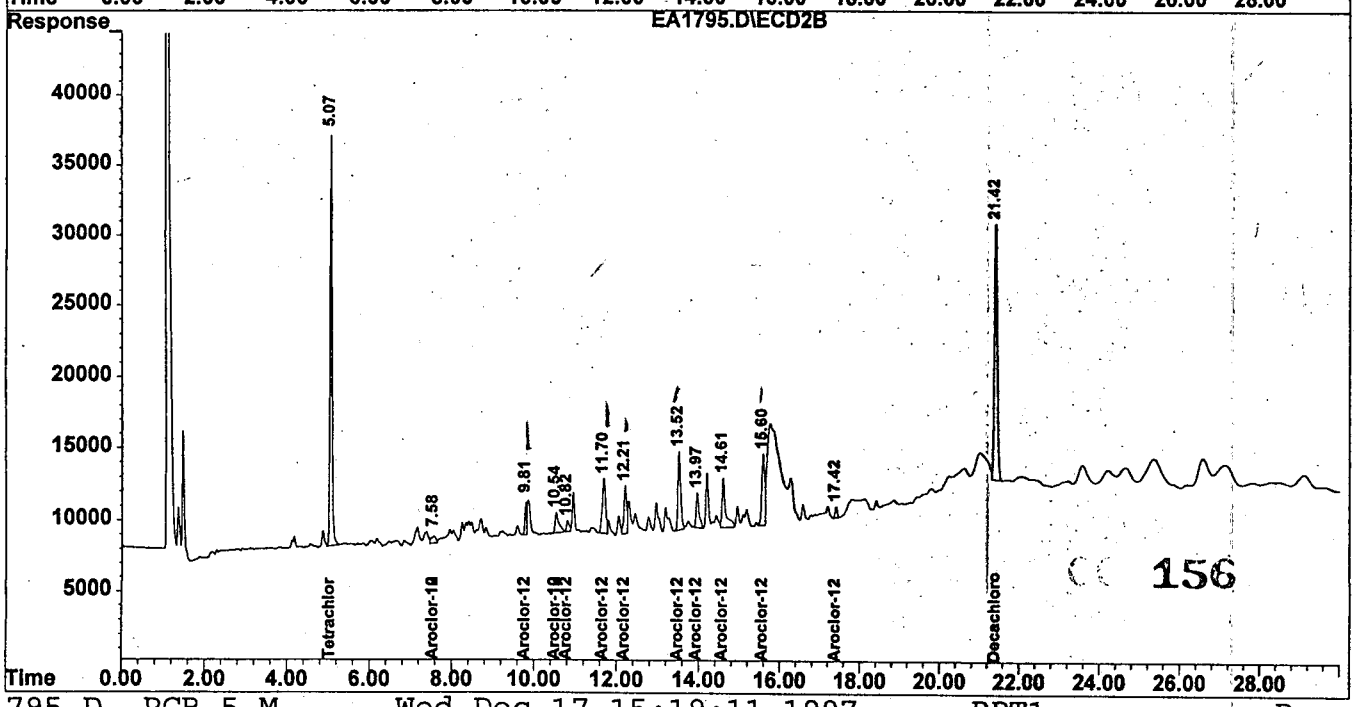
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1795.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA_E\EA1795.D\ECD2B.CH
Acq On : 15 Dec 97 19:35 Operator:
Sample : 278380 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:49 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





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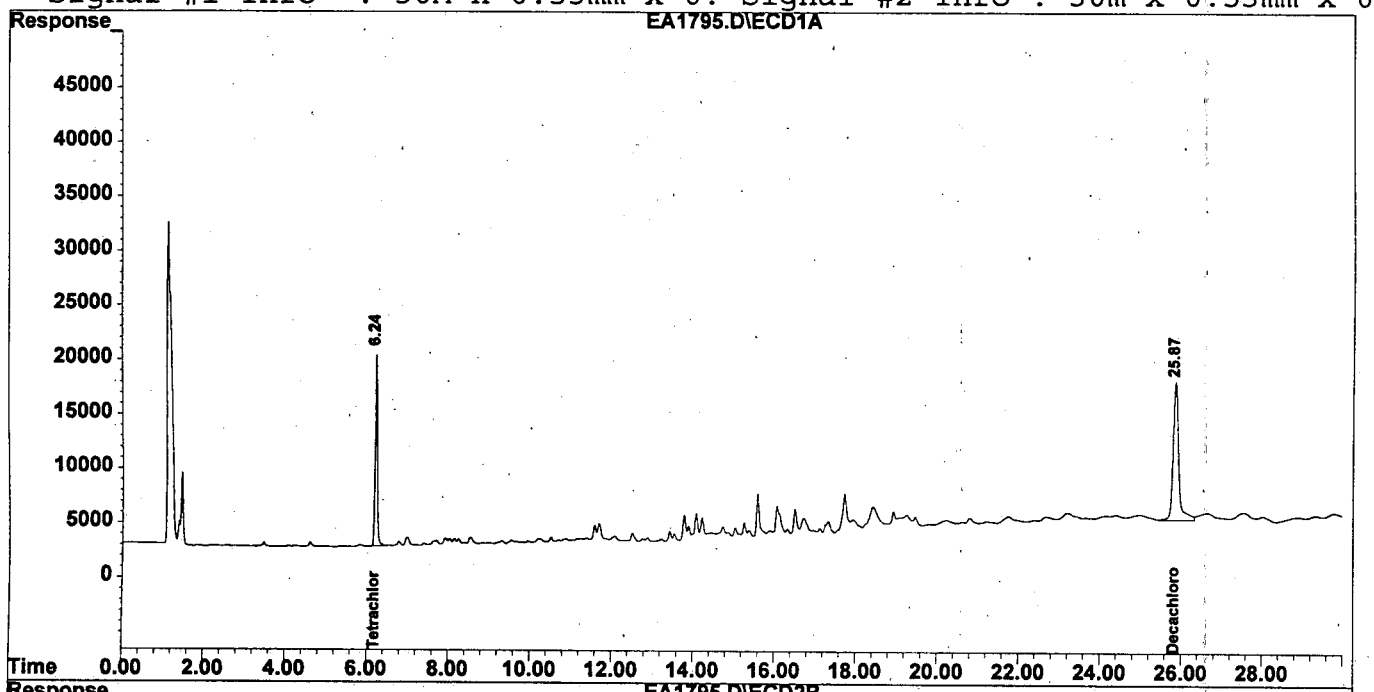
Quantitation Report

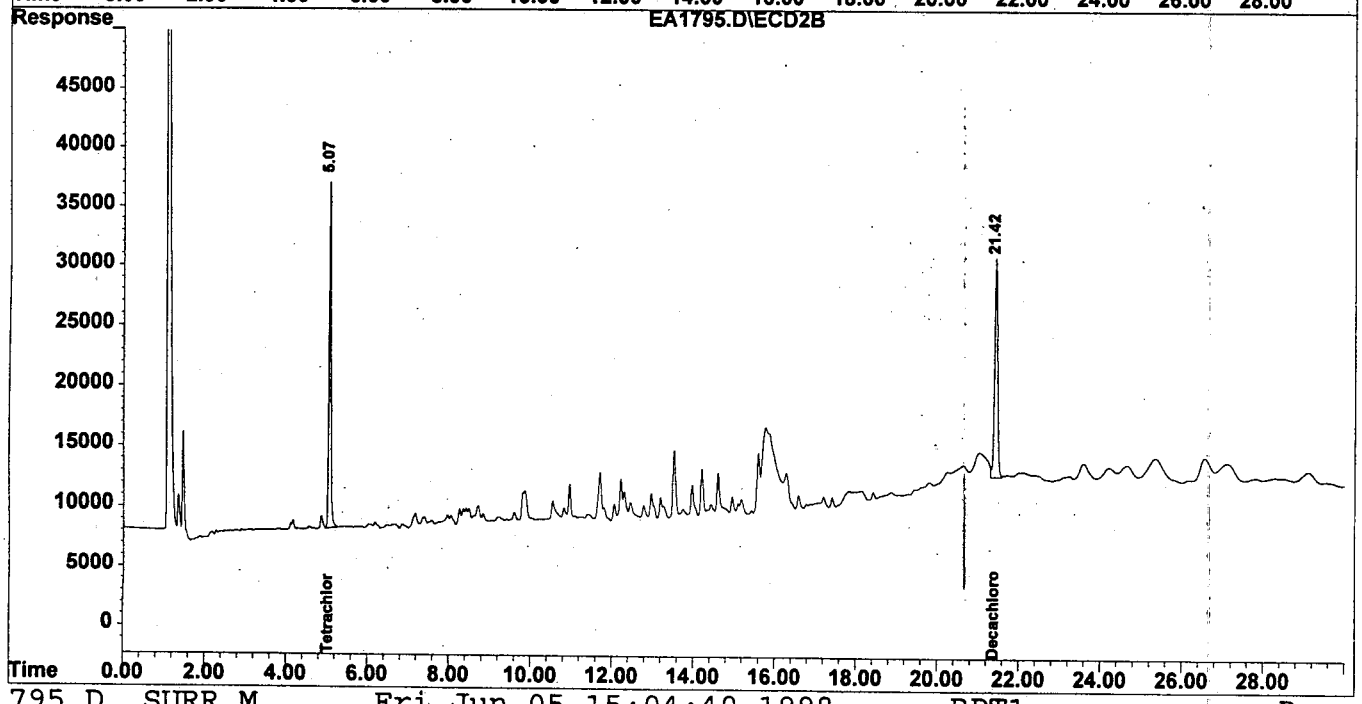
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1795.D\ECD1A.CH Vial: 19
Signal #2 : E:\WESTDA~1\EA1795.D\ECD2B.CH
Acq On : 15 Dec 97 19:35 Operator:
Sample : 278380 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:19 1998 Quant Results File: SURR.RES

Quant Method : H:\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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278381
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOOSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	31.46%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	49	24
Aroclor-1221	U	U	97	68
Aroclor-1232	U	U	49	39
Aroclor-1242	U	U	49	24
Aroclor-1248	U	U	49	29
Aroclor-1254	~~140~~ 130	U	49	34
Aroclor-1260	U J	U	49	39

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed) AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1796.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_E\EA1796.D\ECD2B.CH
Acq On : 15 Dec 97 20:08 Operator:
Sample : 278381 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:50 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	6.24	5.07	562052	798211	40.853	40.135
Spiked Amount 40.000 Range 43 - 150 Recovery =					102.13%	100.34%
2) SA Decachlorobiphen	25.85	21.41	920150	847123	39.547	38.984m
Spiked Amount 40.000 Range 24 - 154 Recovery =					98.87%	97.46%
Target Compounds						
4) L1 Aroclor-1016{2}	9.34	0.00	14311	0	21.108	N.D. #
5) L1 Aroclor-1016{3}	10.54	8.84	23465	55016	18.375	29.645 #
6) L1 Aroclor-1016{4}	0.00	9.24	0	41072	N.D.	48.696 #
7) L1 Aroclor-1016{5}	12.53	10.54	149058	177614	228.332	210.832
Sum Aroclor-1016			186834	273701	267.815	289.174
Average Aroclor-1016					89.272 NP	96.391 NP
11) L2 Aroclor-1221{4}	0.00	8.84	0	55016	N.D.	400.558 #
Sum Aroclor-1221			0	55016	N.D.	400.558
Average Aroclor-1221					0.000	400.558 NP
13) L3 Aroclor-1232{2}	9.34	0.00	14311	0	46.083	N.D. #
14) L3 Aroclor-1232{3}	10.54	8.84	23465	55016	46.139	73.120 #
15) L3 Aroclor-1232{4}	12.53	9.24	149058	41072	472.601	121.745 #
16) L3 Aroclor-1232{5}	13.44	10.54	298699	177614	1316.784	465.918 #
Sum Aroclor-1232			485534	273701	1881.606	660.783
Average Aroclor-1232					470.402 NP	220.261 NP
18) L4 Aroclor-1242{2}	9.34	0.00	14311	0	26.620	N.D. #
19) L4 Aroclor-1242{3}	10.54	8.84	23465	55016	24.140	39.444 #
20) L4 Aroclor-1242{4}	0.00	9.24	0	41072	N.D.	67.121 #
21) L4 Aroclor-1242{5}	12.53	10.54	149058	177614	267.480	268.517
Sum Aroclor-1242			186834	273701	318.240	375.082
Average Aroclor-1242					106.080 NP	125.027 NP
22) L5 Aroclor-1248{1}	9.34	0.00	14311	0	49.776	N.D. #
23) L5 Aroclor-1248{2}	10.54	8.84	23465	55016	27.972	45.373 #
24) L5 Aroclor-1248{3}	12.53	10.54	149058	177614	195.990	189.028
25) L5 Aroclor-1248{4}	13.44	10.81	298699	86254	420.534	99.444 #

2/18/97

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

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ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1796.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_E\EA1796.D\ECD2B.CH
Acq On : 15 Dec 97 20:08 Operator:
Sample : 278381 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:50 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	
26)	L5 Aroclor-1248{5}	15.61	13.52	357359	478145	1076.507	1350.984	#
	Sum Aroclor-1248			842892	797028	1770.778	1684.830	
Average	Aroclor-1248					354.156 NP	421.207 NP	
27)	L6 Aroclor-1254{1}	11.61	9.81	97529	134776	260.687	218.656	
2[illegible])	L6 Aroclor-1254{2}	~~13.79~~	11.70	~~207818~~	375480	~~350.211~~m	303.988	
2[illegible])	L6 Aroclor-1254{3}	15.61	12.21	357359	237541	275.032	240.372	
30)	L6 Aroclor-1254{4}	16.53	13.52	174132	478145	278.817	341.481	
31)	L6 Aroclor-1254{5}	17.75	15.59	293756	420853	242.196	306.368	#
	Sum Aroclor-1254			1130595	1646795	1406.942	1410.865	
Average	Aroclor-1254					~~281.388~~ 264	282.173	
3[illegible])	L7 Aroclor-1260{1}	0.00	13.97	0	187639	N.D.	171.028	#
3[illegible])	L7 Aroclor-1260{2}	16.53	14.60	174132	244767	147.708	168.119	
34)	L7 Aroclor-1260{3}	18.94	15.59	80014	420853	96.444	221.756	#
3[illegible])	L7 Aroclor-1260{4}	19.48	17.42	245642	73603	128.164	33.009	#
3[illegible])	L7 Aroclor-1260{5}	20.80	18.42	42322	88873	27.084	54.563	#
	Sum Aroclor-1260			542109	1015734	399.399	648.475	
Average	Aroclor-1260					99.850 NP	129.695 NP	

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mr 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1796.D\ECD1A.CH Vial: 20
Signal #2 : E:\WESTDA~1\EA1796.D\ECD2B.CH
Acq On : 15 Dec 97 20:08 Operator:
Sample : 278381 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:19 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	562174	806239	39.525	37.236
Spiked Amount 40.000 Range 43 - 150 Recovery =					98.81%	93.09%
2) SA Decachlorobiphen	25.85	21.41	925181	861085	39.336	37.744m
Spiked Amount 40.000 Range 24 - 154 Recovery =					98.34%	94.36%
Target Compounds						

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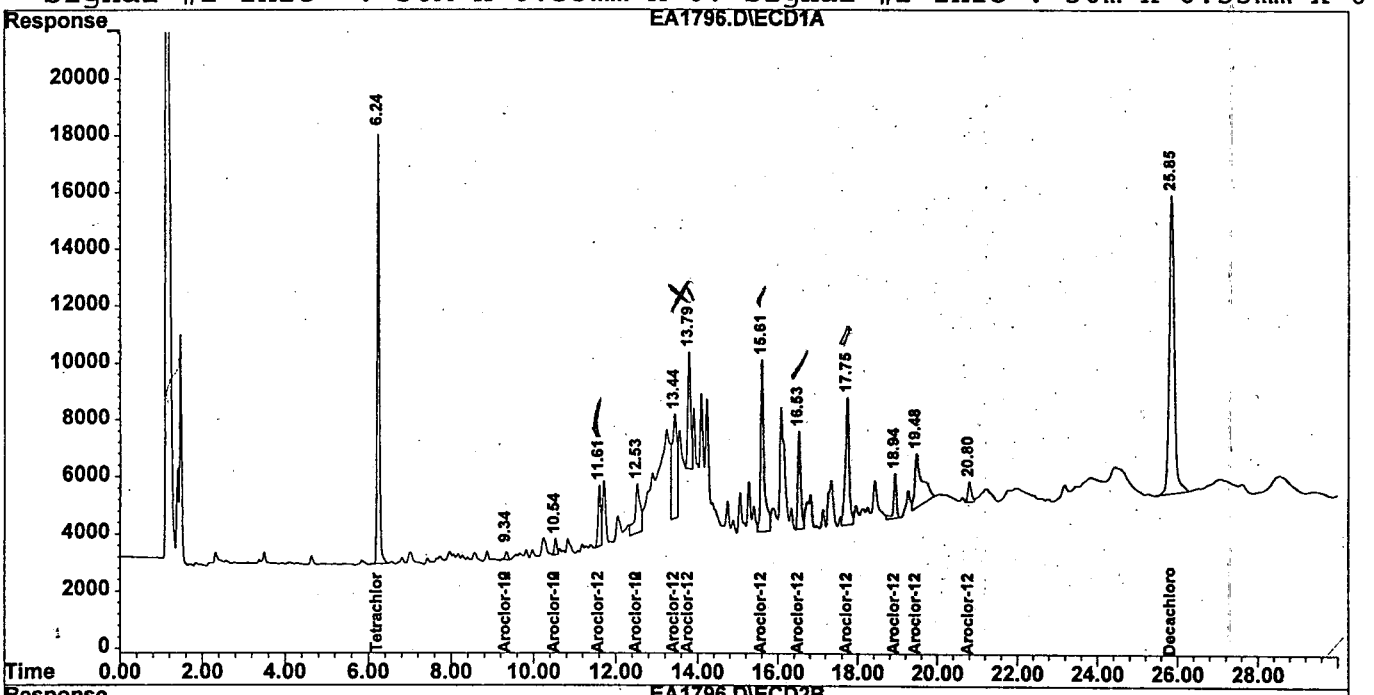
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

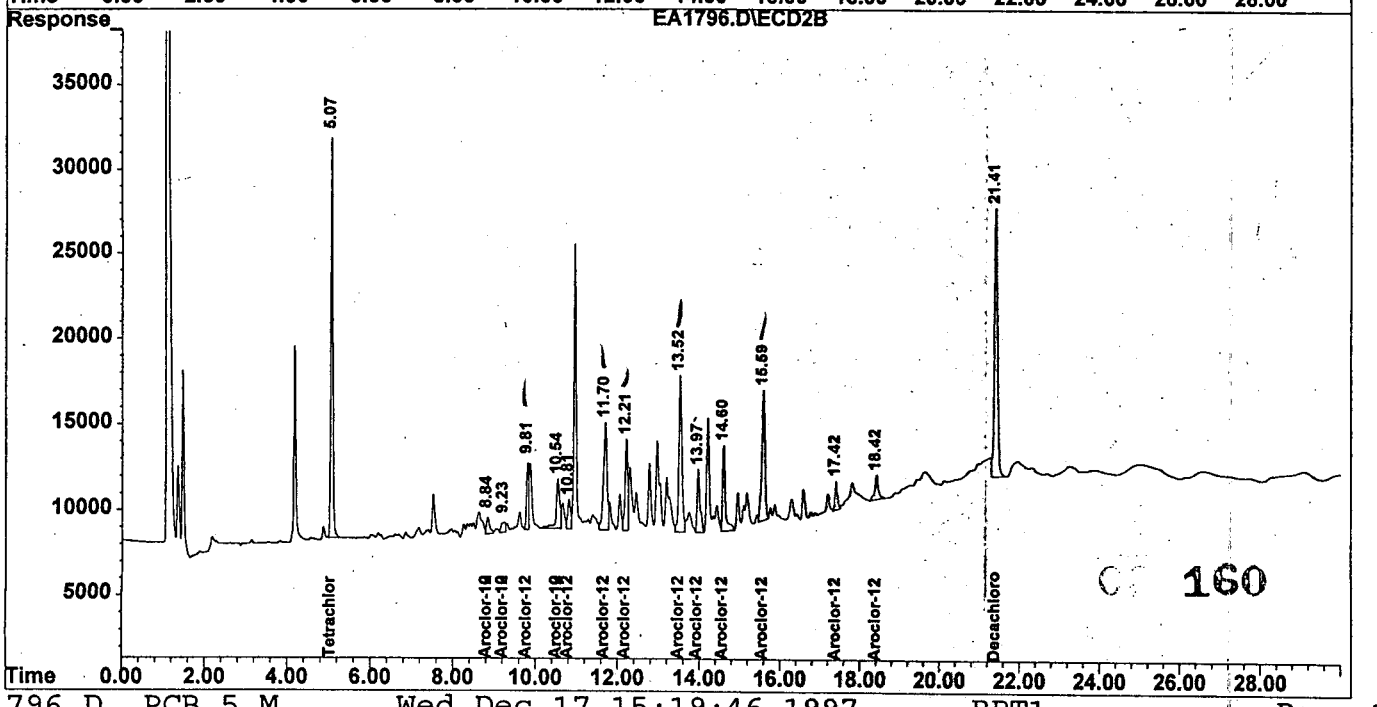
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1796.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_E\EA1796.D\ECD2B.CH
Acq On : 15 Dec 97 20:08 Operator:
Sample : 278381 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:50 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





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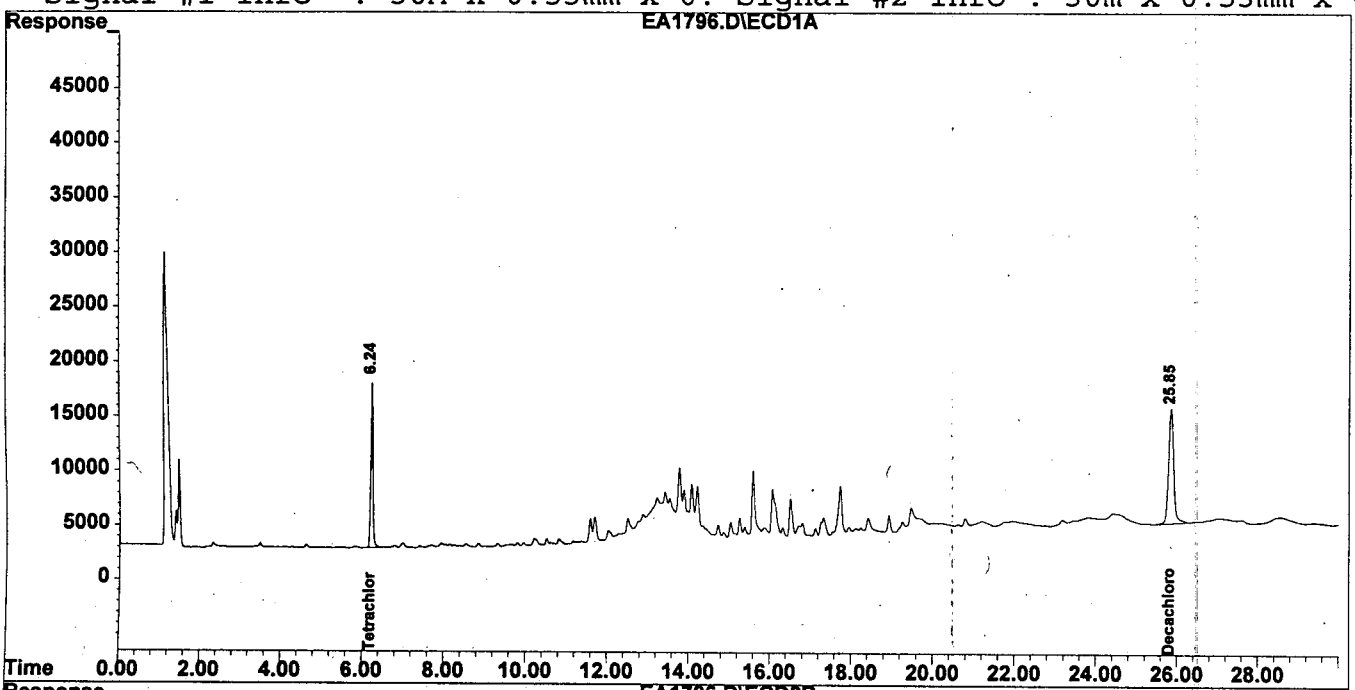
Quantitation Report

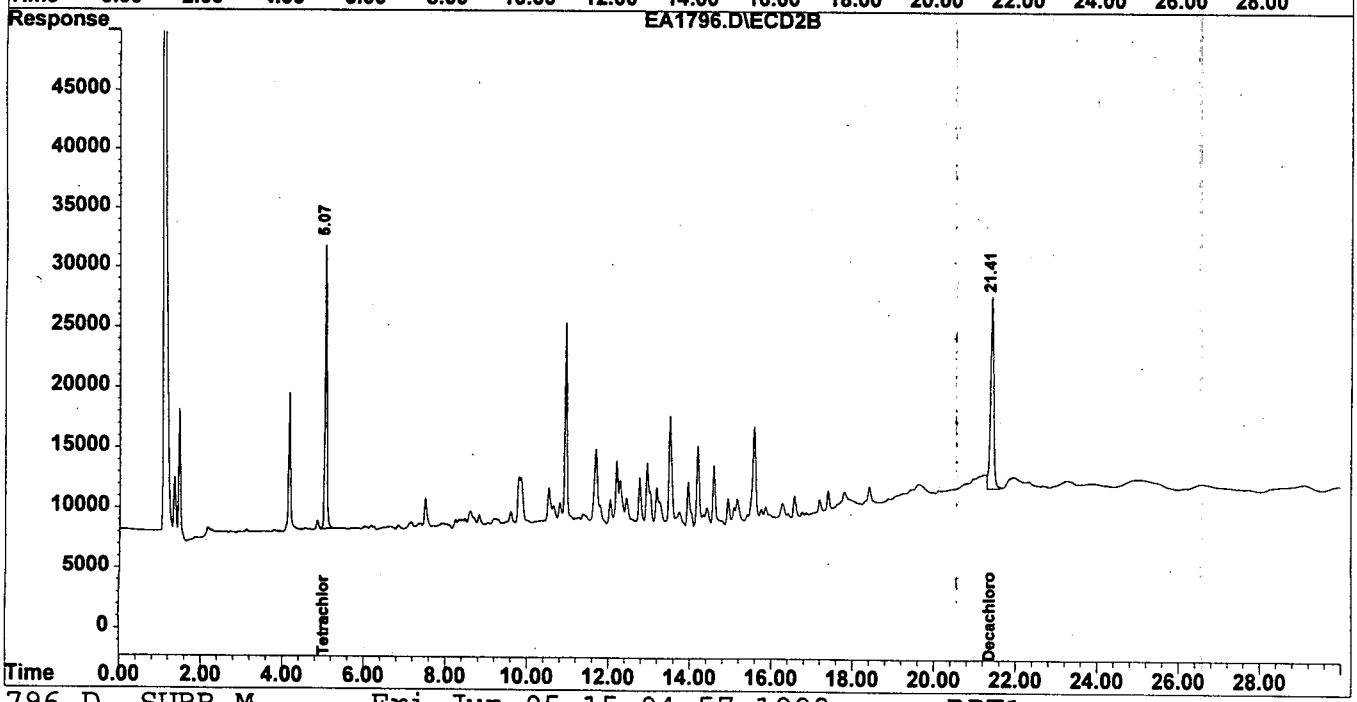
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1796.D\ECD1A.CH Vial: 20
Signal #2 : E:\WESTDA~1\EA1796.D\ECD2B.CH
Acq On : 15 Dec 97 20:08 Operator:
Sample : 278381 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:19 1998 Quant Results File: SURR.RES

Quant Method : H:\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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278382
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOOSS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	18.63%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	41	20
Aroclor-1221	U	U	82	57
Aroclor-1232	U	U	41	33
Aroclor-1242	U	U	41	20
Aroclor-1248	U	U	41	24
Aroclor-1254	~~1100~~ 1400	U	41	29
Aroclor-1260	U J	U	41	33

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1797.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_E\EA1797.D\ECD2B.CH
Acq On : 15 Dec 97 20:42 Operator:
Sample : 278382 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:51 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	6.24	5.07	530805	758503	38.582	38.138
Spiked Amount 40.000 Range 43 - 150 Recovery =					96.46%	95.34%
2) SA Decachlorobiphen	25.85	21.41	873558	759987	37.545	34.974
Spiked Amount 40.000 Range 24 - 154 Recovery =					93.86%	87.44%
Target Compounds						
3) L1 Aroclor-1016{1}	7.98	0.00	185639	0	557.810	N.D. #
4) L1 Aroclor-1016{2}	9.34	7.57	61305	161832	90.423	185.827 #
5) L1 Aroclor-1016{3}	10.54	8.84	204464	283626	160.111	152.830
6) L1 Aroclor-1016{4}	0.00	9.24	0	281556	N.D.	333.822 #
7) L1 Aroclor-1016{5}	12.53	10.54	675851	1109701	1035.289	1317.246 #
Sum Aroclor-1016			1127258	1836715	1843.633	1989.726
Average Aroclor-1016					460.908 NP	497.431 NP
9) L2 Aroclor-1221{2}	0.00	6.36	0	10589	N.D.	61.157 #
11) L2 Aroclor-1221{4}	7.98	8.84	185639	283626	455.120	2065.018 #
Sum Aroclor-1221			185639	294215	455.120	2126.175
Average Aroclor-1221					455.120 NP	1063.088 NP
13) L3 Aroclor-1232{2}	9.34	7.57	61305	161832	197.407	440.879 #
14) L3 Aroclor-1232{3}	10.54	8.84	204464	283626	402.040	376.961
15) L3 Aroclor-1232{4}	12.53	9.24	675851	281556	2142.834	834.584 #
16) L3 Aroclor-1232{5}	13.45	10.54	550781	1109701	2428.059	2910.980
Sum Aroclor-1232			1492400	1836715	5170.340	4563.404
Average Aroclor-1232					1292.585 NP	1140.851 NP
18) L4 Aroclor-1242{2}	9.34	7.57	61305	161832	114.035	249.398 #
19) L4 Aroclor-1242{3}	10.54	8.84	204464	283626	210.348	203.347
20) L4 Aroclor-1242{4}	0.00	9.24	0	281556	N.D.	460.129 #
21) L4 Aroclor-1242{5}	12.53	10.54	675851	1109701	1212.790	1677.652 #
Sum Aroclor-1242			941619	1836715	1537.173	2590.525
Average Aroclor-1242					512.391 NP	647.631 NP
22) L5 Aroclor-1248{1}	9.34	7.57	61305	161832	213.226	454.624 #
23) L5 Aroclor-1248{2}	10.54	8.84	204464	283626	243.740	233.914

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12/18/97

(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_E\EA1797.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_E\EA1797.D\ECD2B.CH
Acq On : 15 Dec 97 20:42 Operator:
Sample : 278382 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:51 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
24) L5	Aroclor-1248{3}	12.53	10.54	675851	1109701	888.646	1181.017 #
25) L5	Aroclor-1248{4}	13.45	10.81	550781	567434	775.435	654.206
26) L5	Aroclor-1248{5}	15.61	13.52	4138109	4980266	12465.634	14071.601
Sum	Aroclor-1248			5630509	7102858	14586.681	16595.363
Average	Aroclor-1248					2917.336	3319.073
27) L6	Aroclor-1254{1}	11.61	9.83	769874	932308	2057.799	1512.542m#
28) L6	Aroclor-1254{2}	13.80	11.70	2365556	2818889	3986.394	2282.166 #
29) L6	Aroclor-1254{3}	15.61	12.21	4138109	2302793	3184.786	2330.237 #
30) L6	Aroclor-1254{4}	16.53	13.52	2348732	4980266	3760.740	3556.800
31) L6	Aroclor-1254{5}	17.75	15.60	4314852	5663893	3557.498	4123.140
Sum	Aroclor-1254			13937123	16698149	16547.218	13804.884
Average	Aroclor-1254					3309.444	2760.977
32) L7	Aroclor-1260{1}	0.00	13.97	0	2509666	N.D.	2287.494 #
33) L7	Aroclor-1260{2}	16.53	14.61	2348732	2721894	1992.310	1869.547
34) L7	Aroclor-1260{3}	18.94	15.60	1172289	5663893	1413.010	2984.417 #
35) L7	Aroclor-1260{4}	19.48	17.42	1036769	1070154	540.938	479.930
36) L7	Aroclor-1260{5}	20.80	18.42	774438	844953	495.598	518.756
Sum	Aroclor-1260			5332229	12810560	4441.857	8140.144
Average	Aroclor-1260					1110.464	1628.029

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12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1797.D\ECD1A.CH Vial: 21
Signal #2 : E:\WESTDA~1\EA1797.D\ECD2B.CH
Acq On : 15 Dec 97 20:42 Operator:
Sample : 278382 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:19 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	555866	829520	39.082	38.311
Spiked Amount 40.000 Range 43 - 150 Recovery =					97.71%	95.78%
2) SA Decachlorobiphen	25.85	21.41	902009	799148	38.351m	35.029
Spiked Amount 40.000 Range 24 - 154 Recovery =					95.88%	87.57%

Target Compounds

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

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1797.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_E\EA1797.D\ECD2B.CH
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Sample : 278382 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
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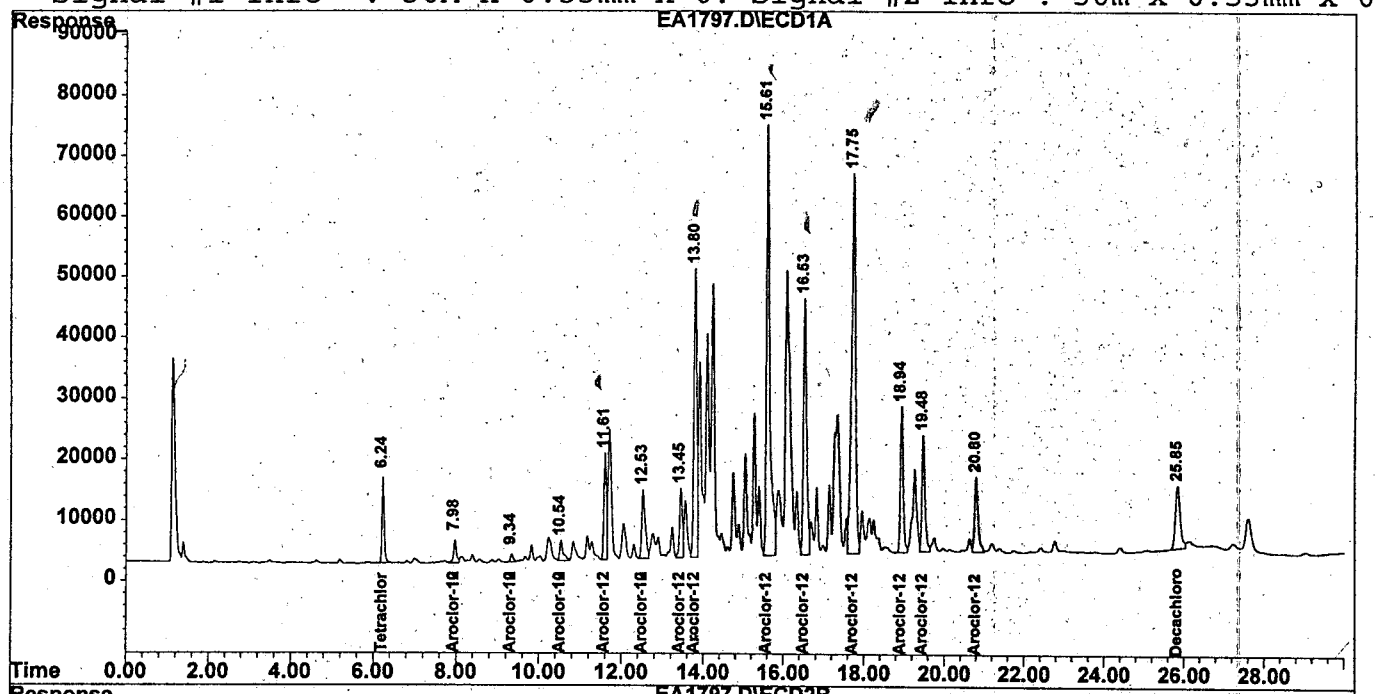
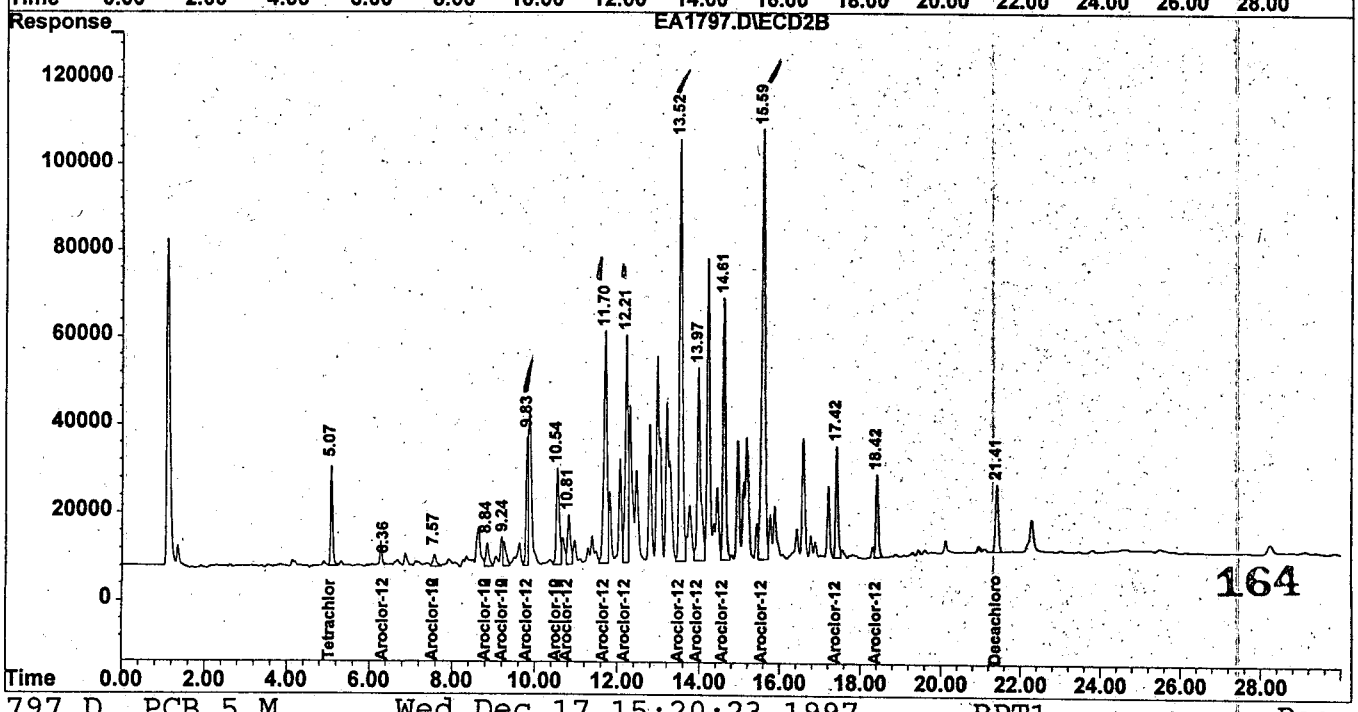
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

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





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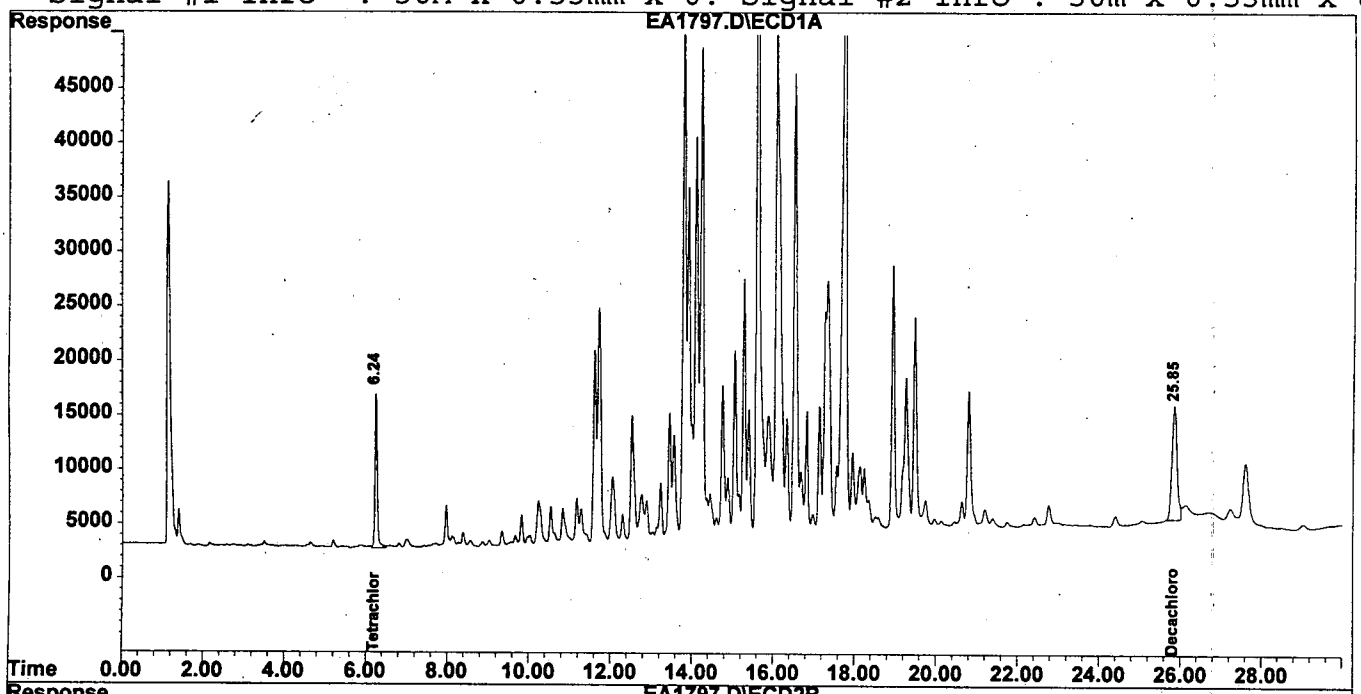
Quantitation Report

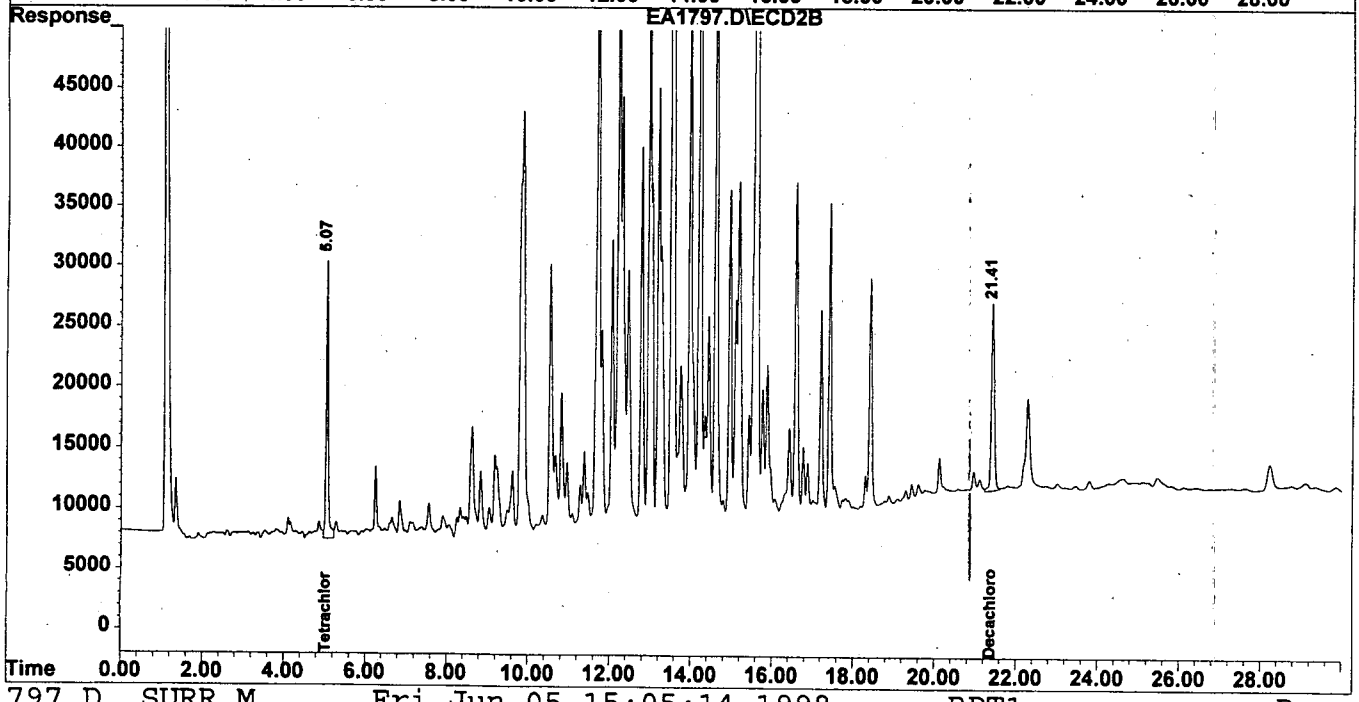
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1797.D\ECD1A.CH Vial: 21
Signal #2 : E:\WESTDA~1\EA1797.D\ECD2B.CH
Acq On : 15 Dec 97 20:42 Operator:
Sample : 278382 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:19 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278383
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOOSD1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	53.72%

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	72	36
Aroclor-1221	U	U	140	100
Aroclor-1232	U	U	72	58
Aroclor-1242	U	U	72	36
Aroclor-1248	U	U	72	43
Aroclor-1254	~~2100~~ 2400 J	U	72	50
Aroclor-1260	U J	U	72	58

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1798.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_E\EA1798.D\ECD2B.CH
Acq On : 15 Dec 97 21:16 Operator:
Sample : 278383 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 13:19 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	6.23	5.07	492560	727146	35.802	36.561
Spiked Amount 40.000 Range 43 - 150 Recovery =					89.51%	91.40%
2) SA Decachlorobiphen	25.85	21.41	824659	748030	35.443	34.424
Spiked Amount 40.000 Range 24 - 154 Recovery =					88.61%	86.06%
Target Compounds						
3) L1 Aroclor-1016{1}	8.12	0.00	56753	0	170.583	N.D. #
4) L1 Aroclor-1016{2}	9.34	7.55	76264	369816	112.487	424.651 #
5) L1 Aroclor-1016{3}	10.54	8.83	160496	242030	125.681	130.416
6) L1 Aroclor-1016{4}	0.00	9.31	0	385558	N.D.	457.130 #
7) L1 Aroclor-1016{5}	12.52	10.54	610720	998043	935.521	1184.705 #
Sum Aroclor-1016			904234	1995447	1344.222	2196.902
Average Aroclor-1016					336.055 NP	549.226 NP
9) L2 Aroclor-1221{2}	0.00	6.37	0	35192	N.D.	203.252 #
10) L2 Aroclor-1221{3}	7.88	0.00	78733	0	571.705	N.D. #
11) L2 Aroclor-1221{4}	0.00	8.83	0	242030	N.D.	1762.166 #
Sum Aroclor-1221			78733	277222	571.705	1965.418
Average Aroclor-1221					571.705 NP	982.709 NP
12) L3 Aroclor-1232{1}	8.12	0.00	56753	0	195.840	N.D. #
13) L3 Aroclor-1232{2}	9.34	7.55	76264	369816	245.576	1007.493 #
14) L3 Aroclor-1232{3}	10.54	8.83	160496	242030	315.586	321.677
15) L3 Aroclor-1232{4}	12.52	9.31	610720	385558	1936.334	1142.864 #
16) L3 Aroclor-1232{5}	13.44	10.54	497845	998043	2194.694	2618.077
Sum Aroclor-1232			1402078	1995447	4888.031	5090.111
Average Aroclor-1232					977.606 NP	1272.528 NP
17) L4 Aroclor-1242{1}	8.12	6.60	56753	55086	217.763	151.050 #
18) L4 Aroclor-1242{2}	9.34	7.55	76264	369816	141.860	569.921 #
19) L4 Aroclor-1242{3}	10.54	8.83	160496	242030	165.115	173.525
20) L4 Aroclor-1242{4}	0.00	9.31	0	385558	N.D.	630.092 #
21) L4 Aroclor-1242{5}	12.52	10.54	610720	998043	1095.916	1508.847 #
Sum Aroclor-1242			904234	2050532	1620.655	3033.434
Average Aroclor-1242					405.164 NP	606.687 NP

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SMW 12/19/97

(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_E\EA1798.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_E\EA1798.D\ECD2B.CH
Acq On : 15 Dec 97 21:16 Operator:
Sample : 278383 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 13:19 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}	9.34	7.55	76264	369816	265.254	1038.901	#
23) L5	Aroclor-1248{2}	10.54	8.83	160496	242030	191.327	199.609	
24) L5	Aroclor-1248{3}	12.52	10.54	610720	998043	803.010	1062.183	#
25) L5	Aroclor-1248{4}	13.44	10.80	497845	499128	700.906	575.456	
26) L5	Aroclor-1248{5}	15.60	13.52	4032772	5688209	12148.318	16071.873	#
Sum	Aroclor-1248			5378097	7797226	14108.815	18948.022	
Average	Aroclor-1248					2821.763 µg	3789.604 µg	
27) L6	Aroclor-1254{1}	11.60	9.81	598846	775217	1600.656	1257.684	
28) L6	Aroclor-1254{2}	~~13.78~~	11.69	~~5278694~~	2955424	~~8895.565~~	2392.705	#
29) L6	Aroclor-1254{3}	15.60	12.21	4032772	2001793	3103.717	2025.650	#
30) L6	Aroclor-1254{4}	16.52	13.52	3039101	5688209	4866.146	4062.397	
31) L6	Aroclor-1254{5}	17.74	15.59	4421912	6423741	3645.766	4676.286	#
Sum	Aroclor-1254			17371325	17844385	22111.850	14414.722	
Average	Aroclor-1254					~~4422.370~~ 3304.19	2882.944	
32) L7	Aroclor-1260{1}	16.14	13.96	1876976	2437763	1932.006	2221.956	
33) L7	Aroclor-1260{2}	16.52	14.60	3039101	2821718	2577.916	1938.112	
34) L7	Aroclor-1260{3}	18.94	15.59	1218620	6423741	1468.854	3384.796	#
35) L7	Aroclor-1260{4}	19.47	17.41	1194178	1365891	623.067	612.559	
36) L7	Aroclor-1260{5}	20.80	18.42	871486	977024	557.703	599.840	
Sum	Aroclor-1260			8200362	14026137	7159.547	8757.263	
Average	Aroclor-1260					1431.909 µg	1751.453 µg	

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Date 12/18/97

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

ICM Laboratories Quantitation Report

AMENDED REPORT (QT Reviewed) JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1798.D\ECD1A.CH Vial: 22
Signal #2 : E:\WESTDA~1\EA1798.D\ECD2B.CH
Acq On : 15 Dec 97 21:16 Operator:
Sample : 278383 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:20 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	492560	742920	34.631	34.311
Spiked Amount 40.000 Range 43 - 150 Recovery =					86.58%	85.78%
2) SA Decachlorobiphen	25.85	21.41	815597	805948	34.677m	35.327
Spiked Amount 40.000 Range 24 - 154 Recovery =					86.69%	88.32%

Target Compounds

167A

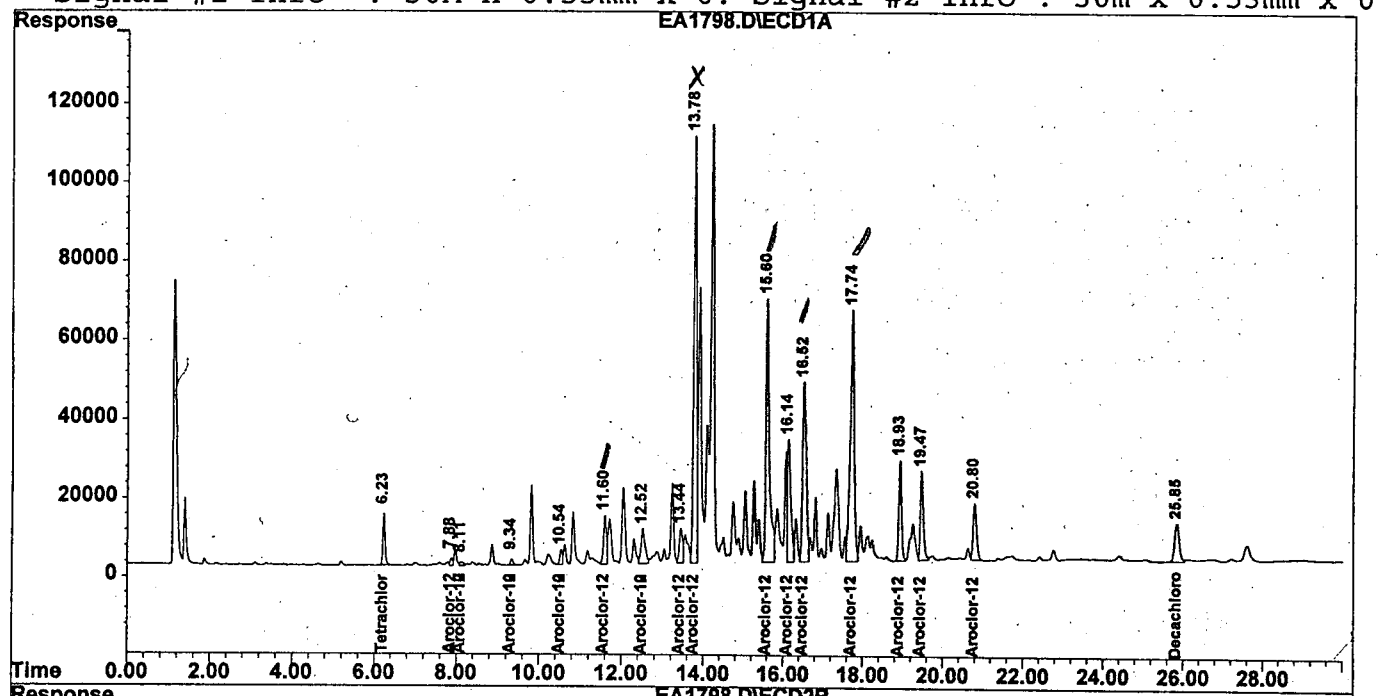
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

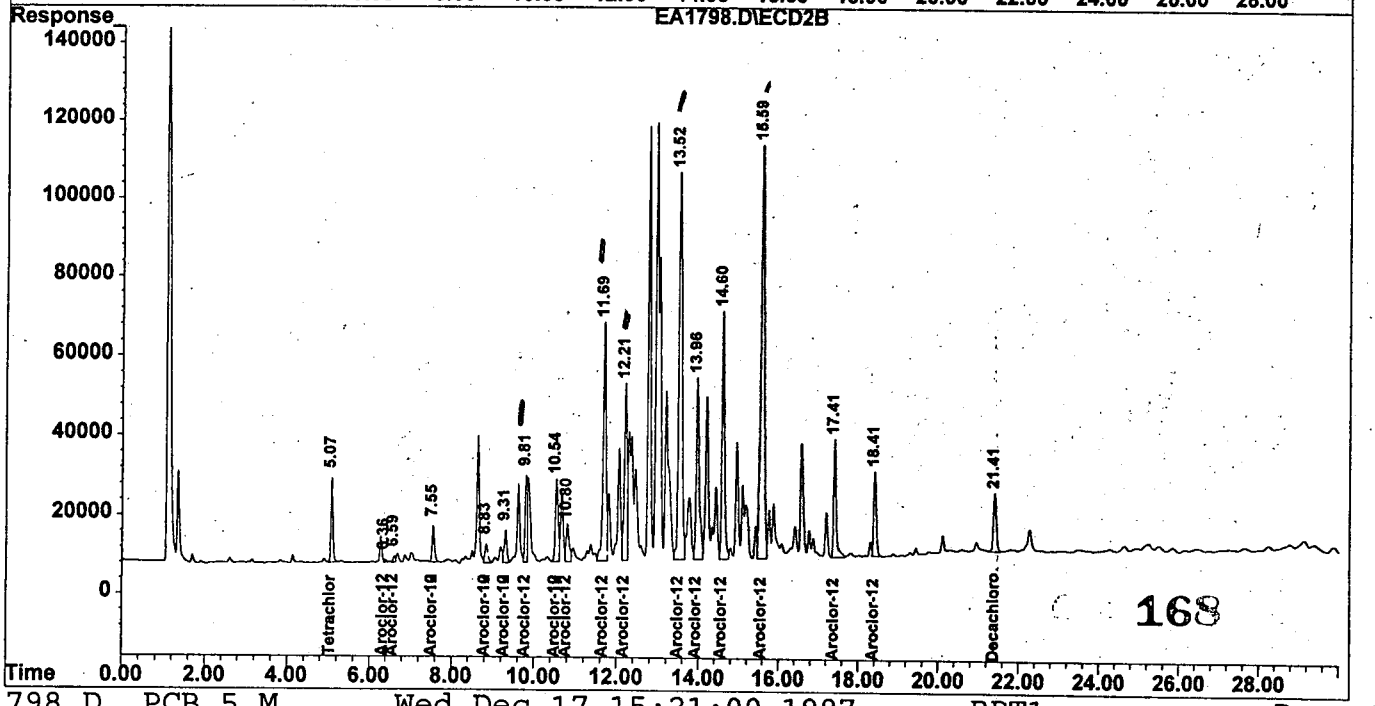
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1798.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_E\EA1798.D\ECD2B.CH
Acq On : 15 Dec 97 21:16 Operator:
Sample : 278383 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 13:19 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





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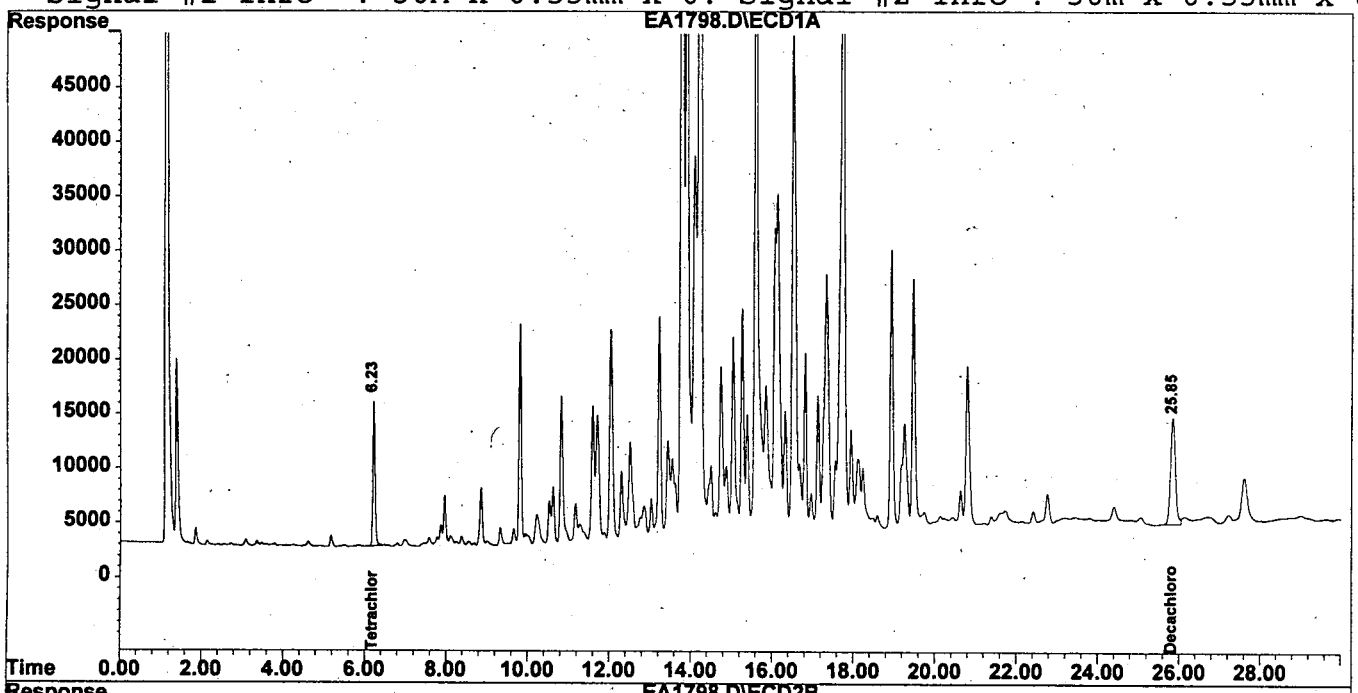
Quantitation Report

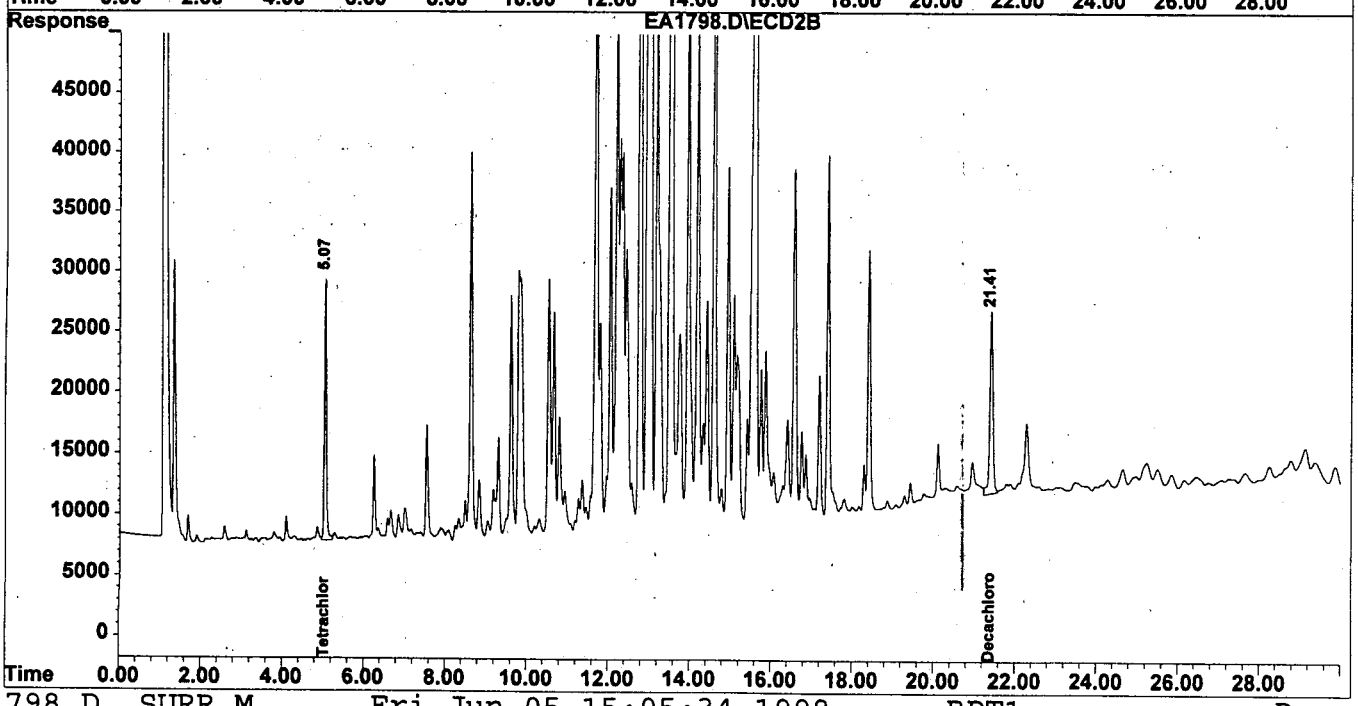
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1798.D\ECD1A.CH Vial: 22
Signal #2 : E:\WESTDA~1\EA1798.D\ECD2B.CH
Acq On : 15 Dec 97 21:16 Operator:
Sample : 278383 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:20 1998 Quant Results File: SURR.RES

Quant Method : H:\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





168A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278384
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOOSS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	26.85%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	46	23
Aroclor-1221	U	U	91	64
Aroclor-1232	U	U	46	36
Aroclor-1242	U	U	46	23
Aroclor-1248	U	U	46	27
Aroclor-1254	2200 J	U	46	32
Aroclor-1260	U J	U	46	36

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.
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J 1254 " CCV + pk conc > 500
J 1260 " CCV

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1799.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_E\EA1799.D\ECD2B.CH
Acq On : 15 Dec 97 21:49 Operator:
Sample : 278384 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:54 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	6.24	5.07	615344	886948	44.727	44.596
Spiked Amount 40.000 Range 43 - 150 Recovery =					111.82%	111.49%
2) SA Decachlorobiphen	25.85	21.41	1066386	889044	45.833	40.914
Spiked Amount 40.000 Range 24 - 154 Recovery =					114.58%	102.29%
Target Compounds						
3) L1 Aroclor-1016{1}	7.98	0.00	267989	0	805.254	N.D. #
4) L1 Aroclor-1016{2}	9.34	7.58	132752	163274	195.805	187.484
5) L1 Aroclor-1016{3}	10.54	8.84	257612	399788	201.731	215.424
6) L1 Aroclor-1016{4}	0.00	9.24	0	308409	N.D.	365.660 #
7) L1 Aroclor-1016{5}	12.53	10.54	892207	1317562	1366.711	1563.983
Sum Aroclor-1016			1550560	2189034	2569.501	2332.550
Average Aroclor-1016					642.375 NP	583.138 NP
9) L2 Aroclor-1221{2}	0.00	6.36	0	37452	N.D.	216.306 #
10) L2 Aroclor-1221{3}	7.84	0.00	17308	0	125.681	N.D. #
11) L2 Aroclor-1221{4}	7.98	8.84	267989	399788	657.011	2910.768 #
Sum Aroclor-1221			285297	437240	782.692	3127.074
Average Aroclor-1221					391.346 NP	1563.537 NP
13) L3 Aroclor-1232{2}	9.34	7.58	132752	163274	427.473	444.809
14) L3 Aroclor-1232{3}	10.54	8.84	257612	399788	506.546	531.349
15) L3 Aroclor-1232{4}	12.53	9.24	892207	308409	2828.809	914.181 #
16) L3 Aroclor-1232{5}	13.45	10.54	959677	1317562	4230.632	3456.245
Sum Aroclor-1232			2242248	2189034	7993.460	5346.584
Average Aroclor-1232					1998.365 NP	1336.646 NP
17) L4 Aroclor-1242{1}	8.12	0.00	86405	0	331.539	N.D. #
18) L4 Aroclor-1242{2}	9.34	7.58	132752	163274	246.936	251.621
19) L4 Aroclor-1242{3}	10.54	8.84	257612	399788	265.027	285.630
20) L4 Aroclor-1242{4}	0.00	9.24	0	308409	N.D.	504.013 #
21) L4 Aroclor-1242{5}	12.53	10.54	892207	1317562	1601.034	1991.898
Sum Aroclor-1242			1368977	2189034	2444.535	3034.162
Average Aroclor-1242					611.134 NP	758.540 NP

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(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_E\EA1799.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_E\EA1799.D\ECD2B.CH
Acq On : 15 Dec 97 21:49 Operator:
Sample : 278384 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:54 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}	9.34	7.58	132752	163274	461.726	458.675
23)	L5 Aroclor-1248{2}	10.54	8.84	257612	399788	307.098	329.716
24)	L5 Aroclor-1248{3}	12.53	10.54	892207	1317562	1173.124	1402.237
25)	L5 Aroclor-1248{4}	13.45	10.81	959677	743714	1351.112	857.444 #
26)	L5 Aroclor-1248{5}	15.60	13.51	7761164	9122133	23379.721	25774.329
	Sum Aroclor-1248			10003413	11746472	26672.782	28822.402
	Average Aroclor-1248					5334.556	5764.480
27)	L6 Aroclor-1254{1}	11.61	9.81	901690	926498	2410.129	1503.116m#
28)	L6 Aroclor-1254{2}	13.79	11.69	4260005	4856077	7178.887	3931.469 #
29)	L6 Aroclor-1254{3}	15.60	12.21	7761164	4076113	5973.175	4124.691 #
30)	L6 Aroclor-1254{4}	16.52	13.51	4892405	9122133	7833.617	6514.832
31)	L6 Aroclor-1254{5}	17.74	15.59	9138383	11277463	7534.390	8209.646
	Sum Aroclor-1254			26953647	30258284	30930.199	24283.754
	Average Aroclor-1254					6186.040	4856.751
32)	L7 Aroclor-1260{1}	0.00	13.96	0	4903795	N.D.	4469.680 #
33)	L7 Aroclor-1260{2}	16.52	14.60	4892405	5652227	4149.980	3882.261
34)	L7 Aroclor-1260{3}	18.94	15.59	2571359	11277463	3099.368	5942.318 #
35)	L7 Aroclor-1260{4}	19.48	17.42	2441337	2312888	1273.777	1037.257
36)	L7 Aroclor-1260{5}	20.80	18.42	1734194	1881584	1109.789	1155.191
	Sum Aroclor-1260			11639295	26027957	9632.914	16486.707
	Average Aroclor-1260					2408.228	3297.341

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DNW 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1799.D\ECD1A.CH Vial: 23
Signal #2 : E:\WESTDA~1\EA1799.D\ECD2B.CH
Acq On : 15 Dec 97 21:49 Operator:
Sample : 278384 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:51 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	615344	927241	43.264	42.824
Spiked Amount 40.000 Range 43 - 150 Recovery =					108.16%	107.06%
2) SA Decachlorobiphen	25.85	21.41	1084932	890370	46.128	39.028
Spiked Amount 40.000 Range 24 - 154 Recovery =					115.32%	97.57%
Target Compounds						

6/5/98

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

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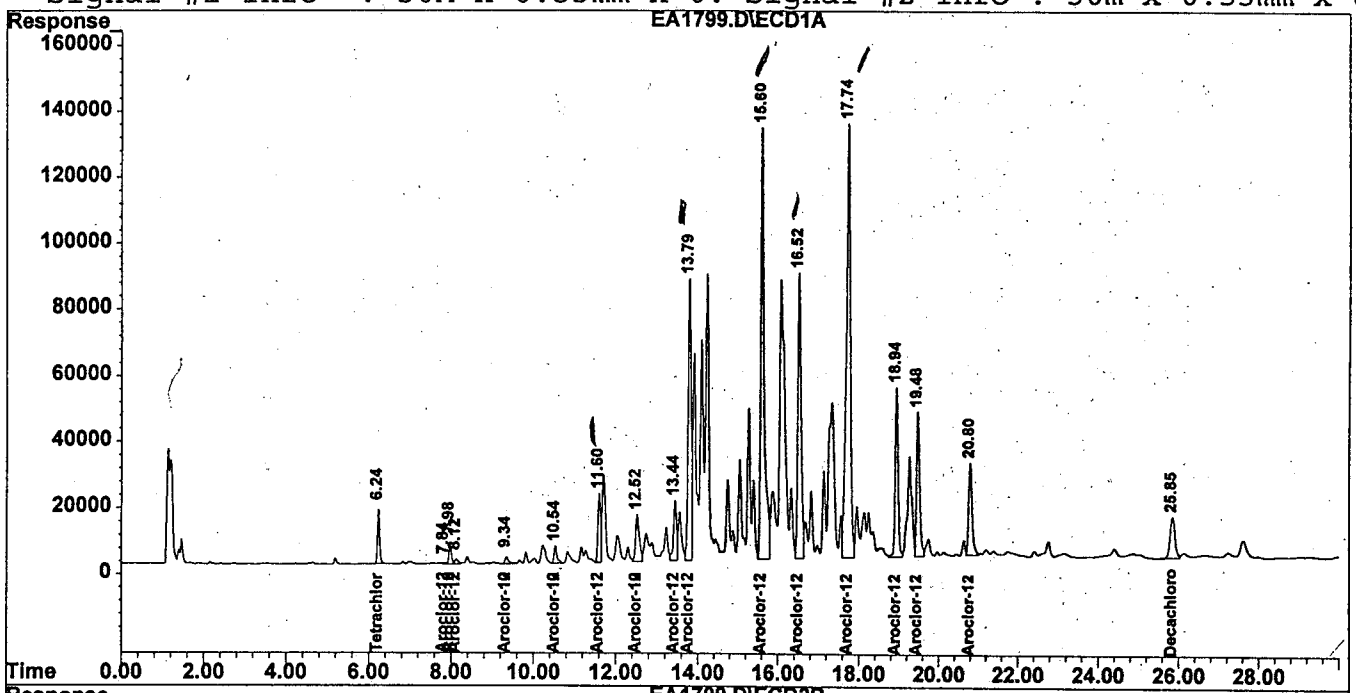
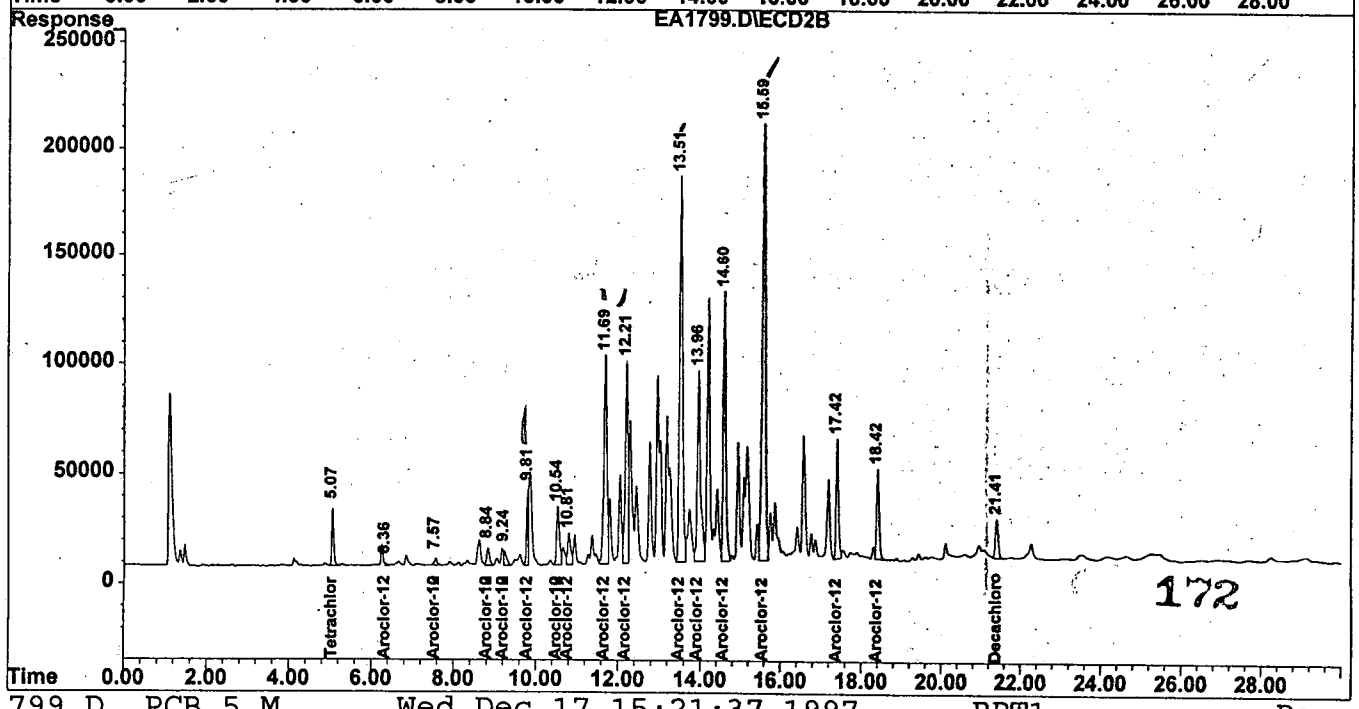
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1799.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_E\EA1799.D\ECD2B.CH
Acq On : 15 Dec 97 21:49 Operator:
Sample : 278384 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:54 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





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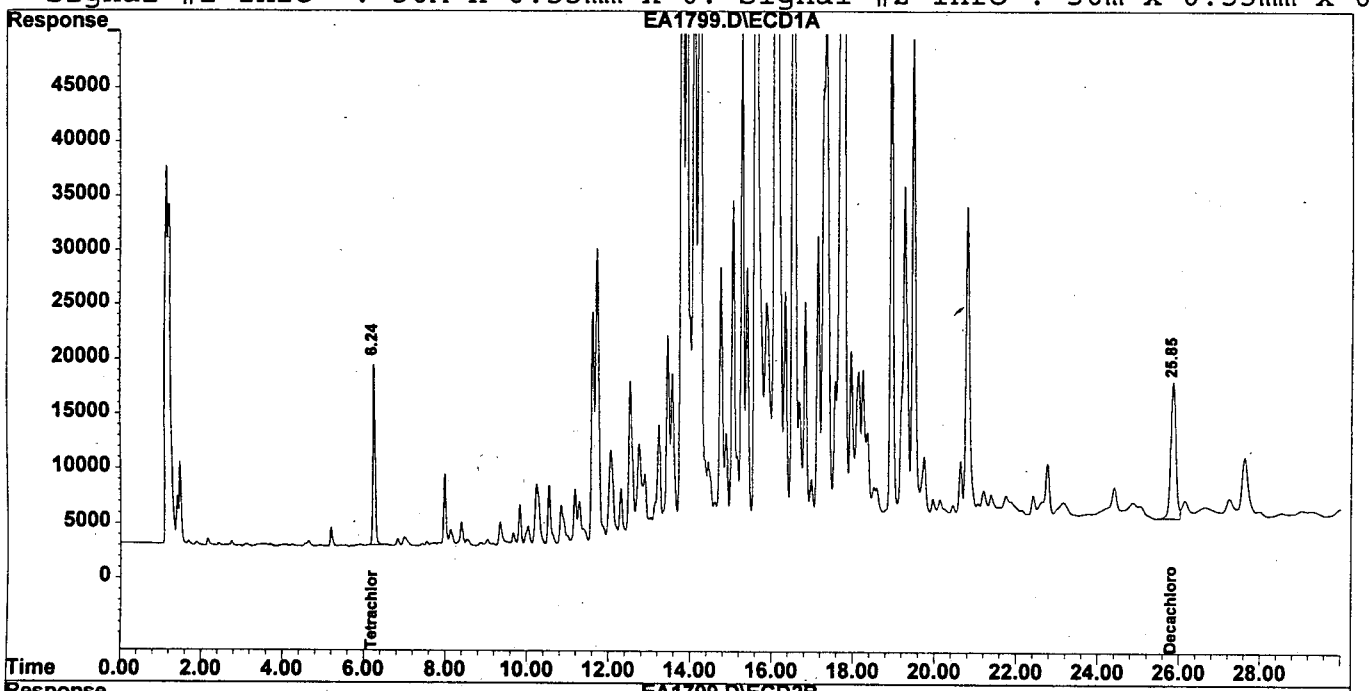
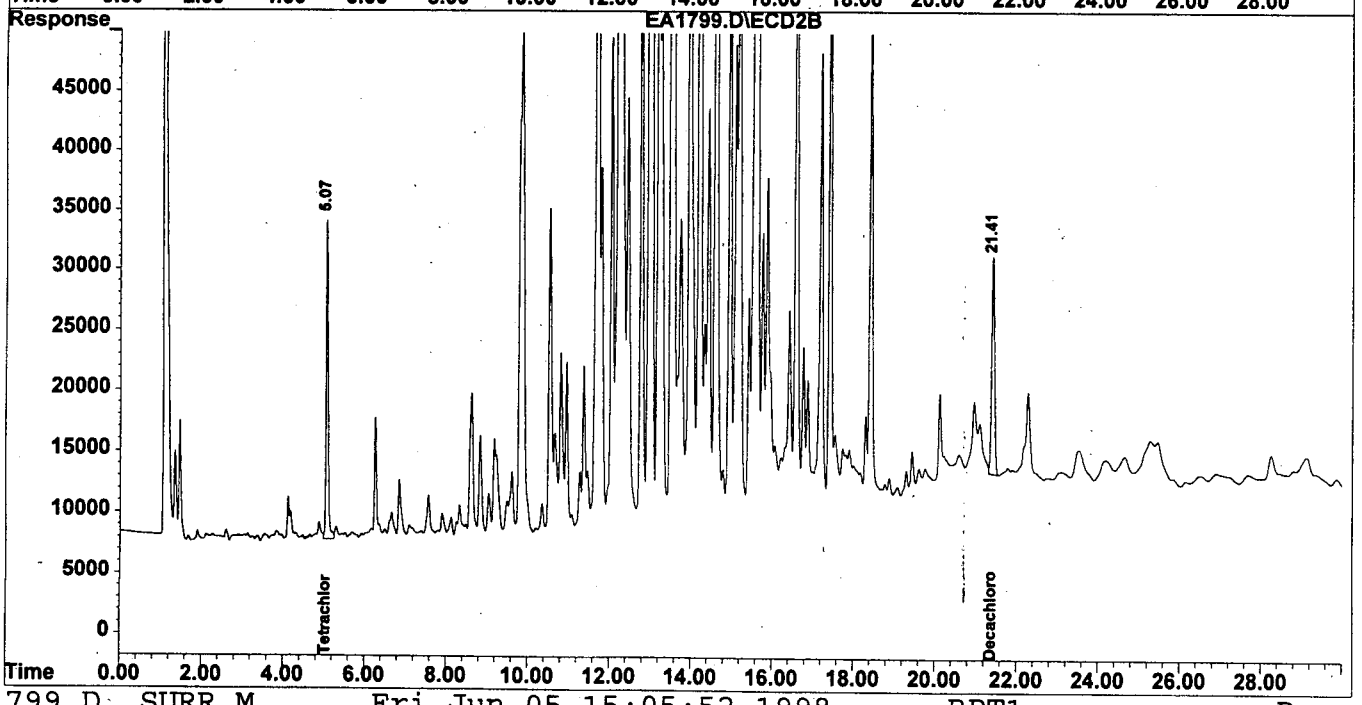
Quantitation Report AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1799.D\ECD1A.CH Vial: 23
Signal #2 : E:\WESTDA~1\EA1799.D\ECD2B.CH
Acq On : 15 Dec 97 21:49 Operator:
Sample : 278384 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:51 1998 Quant Results File: SURR.RES

Quant Method : H:\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





172A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278385
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOOSD2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	29.63%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	47	24
Aroclor-1221	U	U	95	66
Aroclor-1232	U	U	47	38
Aroclor-1242	U	U	47	24
Aroclor-1248	U	U	47	28
Aroclor-1254	~~250~~ 260	U	47	33
Aroclor-1260	U J	U	47	38

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.
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ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1800.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_E\EA1800.D\ECD2B.CH
Acq On : 15 Dec 97 22:23 Operator:
Sample : 278385 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:55 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	6.24	5.07	627747	898783	45.629	45.192	
Spiked Amount 40.000 Range 43 - 150 Recovery =					114.07%	112.98%	
2) SA Decachlorobiphen	25.86	21.42	1029015	890109	44.226m	40.963	
Spiked Amount 40.000 Range 24 - 154 Recovery =					110.57%	102.41%	
Target Compounds							
3) L1 Aroclor-1016{1}	7.98	0.00	133073	0	399.858	N.D.	#
5) L1 Aroclor-1016{3}	10.54	8.85	8767	119753	6.865	64.528	#
6) L1 Aroclor-1016{4}	0.00	9.32	0	238467	N.D.	282.734	#
7) L1 Aroclor-1016{5}	12.53	10.55	44974	2127226	68.893	2525.077	#
Sum Aroclor-1016			186814	2485446	475.617	2872.339	
Average Aroclor-1016					158.539	957.446	
9) L2 Aroclor-1221{2}	7.42	0.00	39265	0	413.795	N.D.	#
11) L2 Aroclor-1221{4}	7.98	8.85	133073	119753	326.246	871.894	#
Sum Aroclor-1221			172338	119753	740.042	871.894	
Average Aroclor-1221					370.021	871.894	
12) L3 Aroclor-1232{1}	8.12	0.00	108095	0	373.006	N.D.	#
14) L3 Aroclor-1232{3}	10.54	8.85	8767	119753	17.239	159.161	#
15) L3 Aroclor-1232{4}	12.53	9.32	44974	238467	142.594	706.860	#
16) L3 Aroclor-1232{5}	13.45	10.55	81802	2127226	360.614	5580.164	#
Sum Aroclor-1232			243638	2485446	893.453	6446.185	
Average Aroclor-1232					223.363	2148.728	
17) L4 Aroclor-1242{1}	8.12	0.00	108095	0	414.761	N.D.	#
19) L4 Aroclor-1242{3}	10.54	8.85	8767	119753	9.019	85.857	#
20) L4 Aroclor-1242{4}	0.00	9.32	0	238467	N.D.	389.711	#
21) L4 Aroclor-1242{5}	12.53	10.55	44974	2127226	80.705	3215.952	#
Sum Aroclor-1242			161836	2485446	504.485	3691.521	
Average Aroclor-1242					168.162	1230.507	
23) L5 Aroclor-1248{2}	10.54	8.85	8767	119753	10.451	98.764	#
24) L5 Aroclor-1248{3}	12.53	10.55	44974	2127226	59.135	2263.936	#
25) L5 Aroclor-1248{4}	13.45	0.00	81802	0	115.167	N.D.	#

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DMW 12/18/97

(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_E\EA1800.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_E\EA1800.D\ECD2B.CH
Acq On : 15 Dec 97 22:23 Operator:
Sample : 278385 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:55 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
26) L5	Aroclor-1248{5}	15.61	13.52	707860	865007	2132.356	2444.053
Sum	Aroclor-1248			843403	3111986	2317.109	4806.752
Average	Aroclor-1248					579.277 NP	1602.251 NP
27) L6	Aroclor-1254{1}	11.61	9.81	93134	268112	248.938	434.975m#
28) L6	Aroclor-1254{2}	13.80	11.70	321429	517955	541.667	419.335
29) L6	Aroclor-1254{3}	15.61	12.21	707860	423836	544.786	428.887
30) L6	Aroclor-1254{4}	16.53	13.52	466415	865007	746.814	617.770
31) L6	Aroclor-1254{5}	17.75	15.60	831867	1054602	685.856	767.717
Sum	Aroclor-1254			2420705	3129511	2768.060	2668.684
Average	Aroclor-1254					553.612	533.737
32) L7	Aroclor-1260{1}	16.15	13.97	412908	557931	425.013	508.539
33) L7	Aroclor-1260{2}	16.53	14.61	466415	643783	395.636	442.186
34) L7	Aroclor-1260{3}	18.94	15.60	282568	1054602	340.591	555.690 #
35) L7	Aroclor-1260{4}	19.48	17.42	748772	376498	390.674	168.847 #
36) L7	Aroclor-1260{5}	20.81	18.42	265909	275450	170.167	169.111
Sum	Aroclor-1260			2176572	2908264	1722.083	1844.375
Average	Aroclor-1260					344.417 NP	368.875 NP

DAW 12/18/97

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EA1800.D PCB_5.M Wed Dec 17 15:22:02 1997 RPT1 Page 2

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1800.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\EA1800.D\ECD2B.CH
Acq On : 15 Dec 97 22:23 Operator:
Sample : 278385 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:51 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	628552	1119219	44.192	51.691
Spiked Amount 40.000 Range 43 - 150 Recovery =					110.48%	129.23%
2) SA Decachlorobiphen	25.86	21.42	1189509	971242	50.575	42.573
Spiked Amount 40.000 Range 24 - 154 Recovery =					126.44%	106.43%

Target Compounds

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

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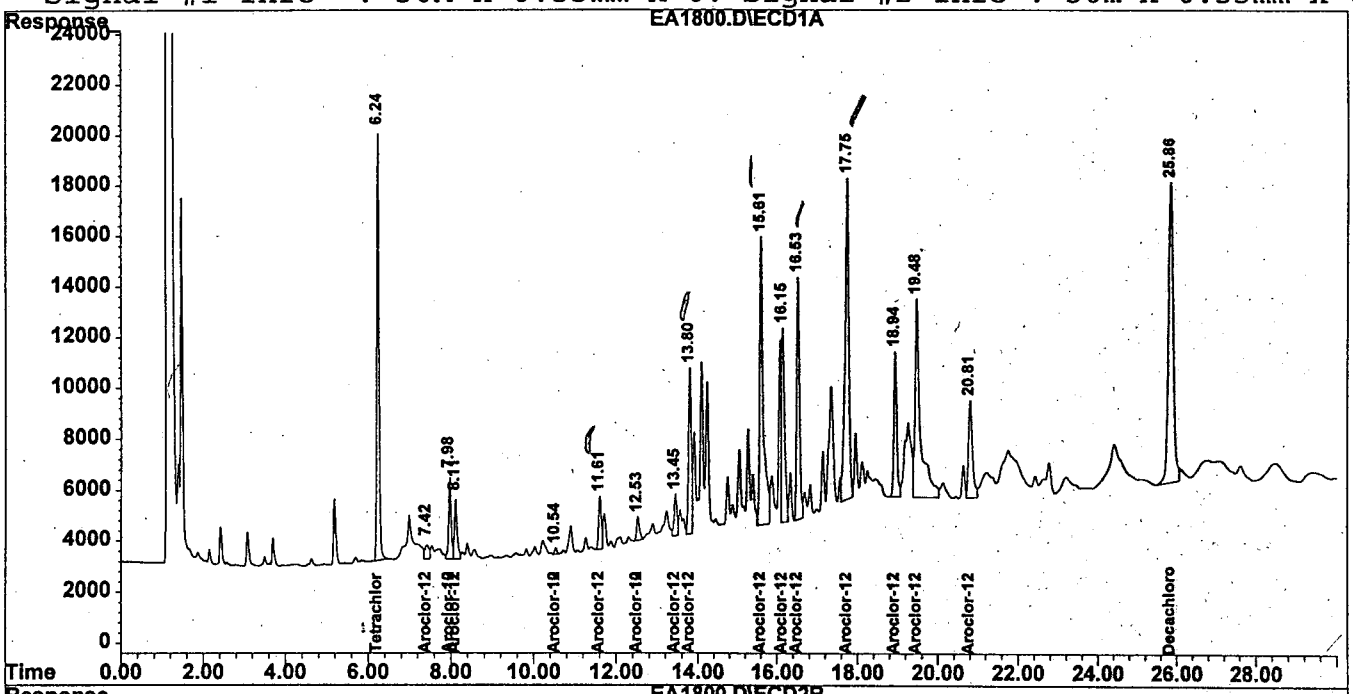
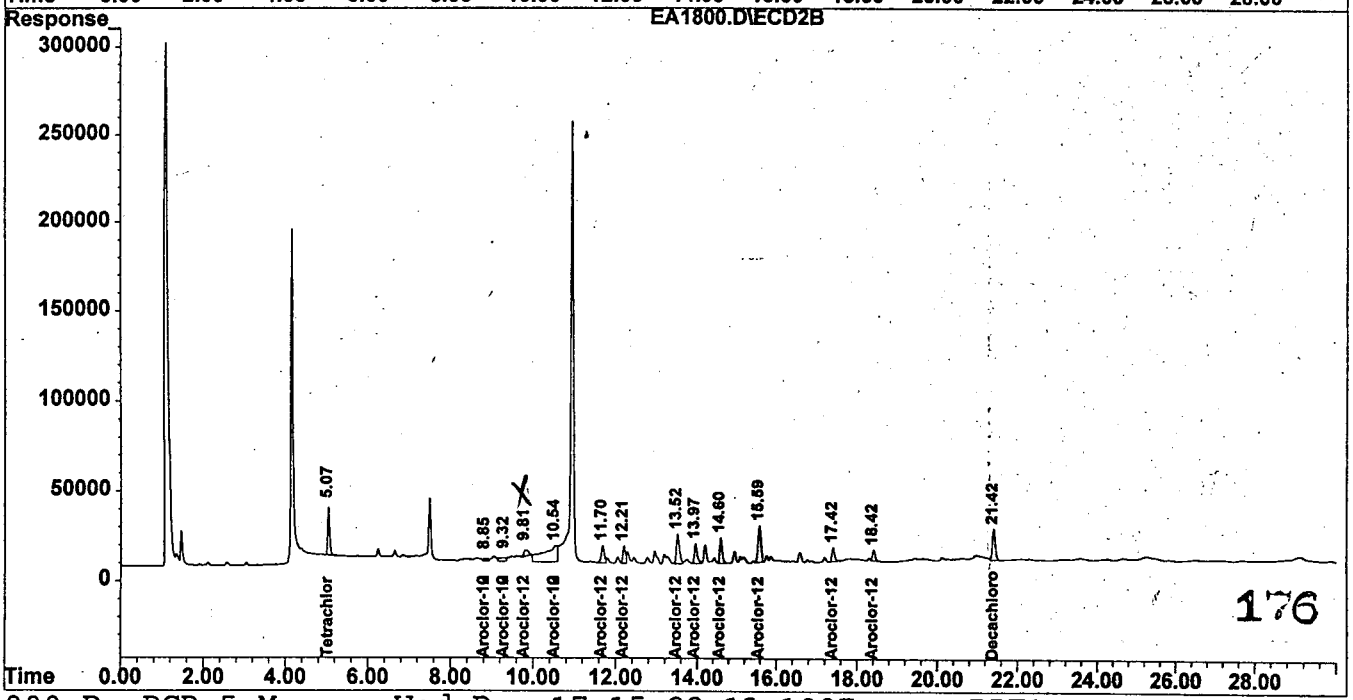
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1800.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_E\EA1800.D\ECD2B.CH
Acq On : 15 Dec 97 22:23 Operator:
Sample : 278385 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:55 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





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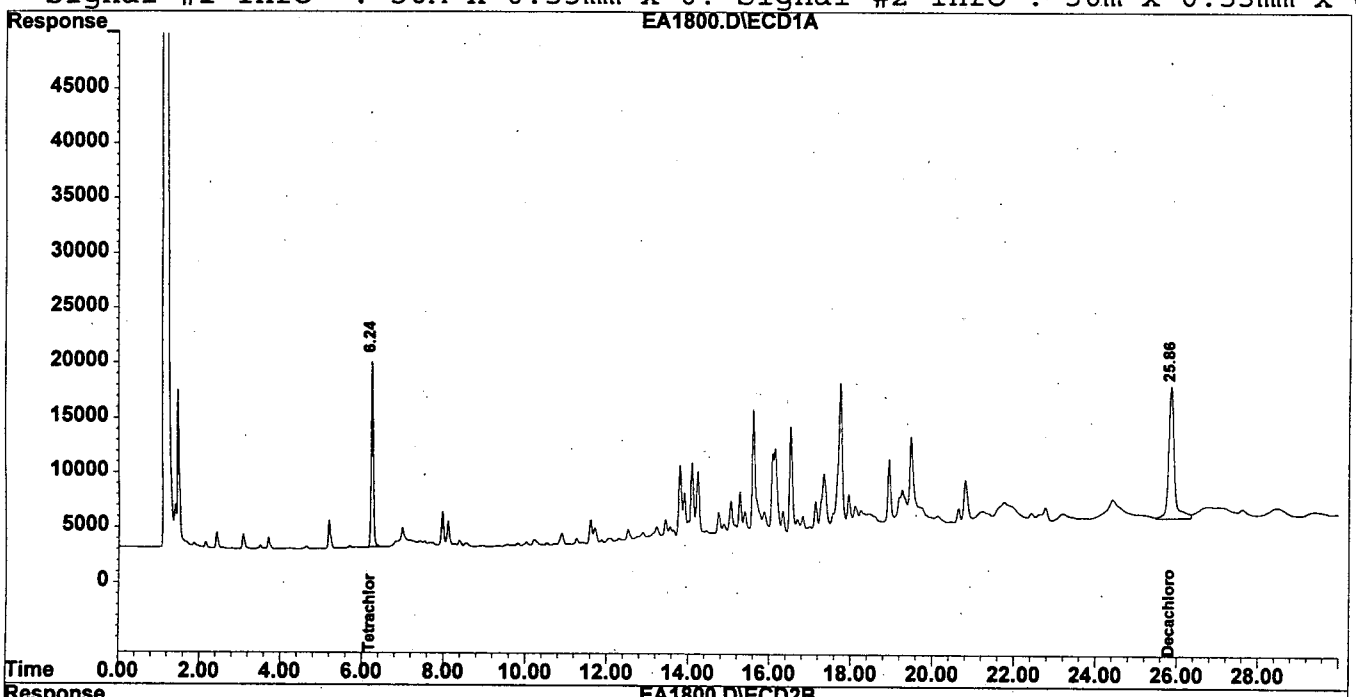
Quantitation Report

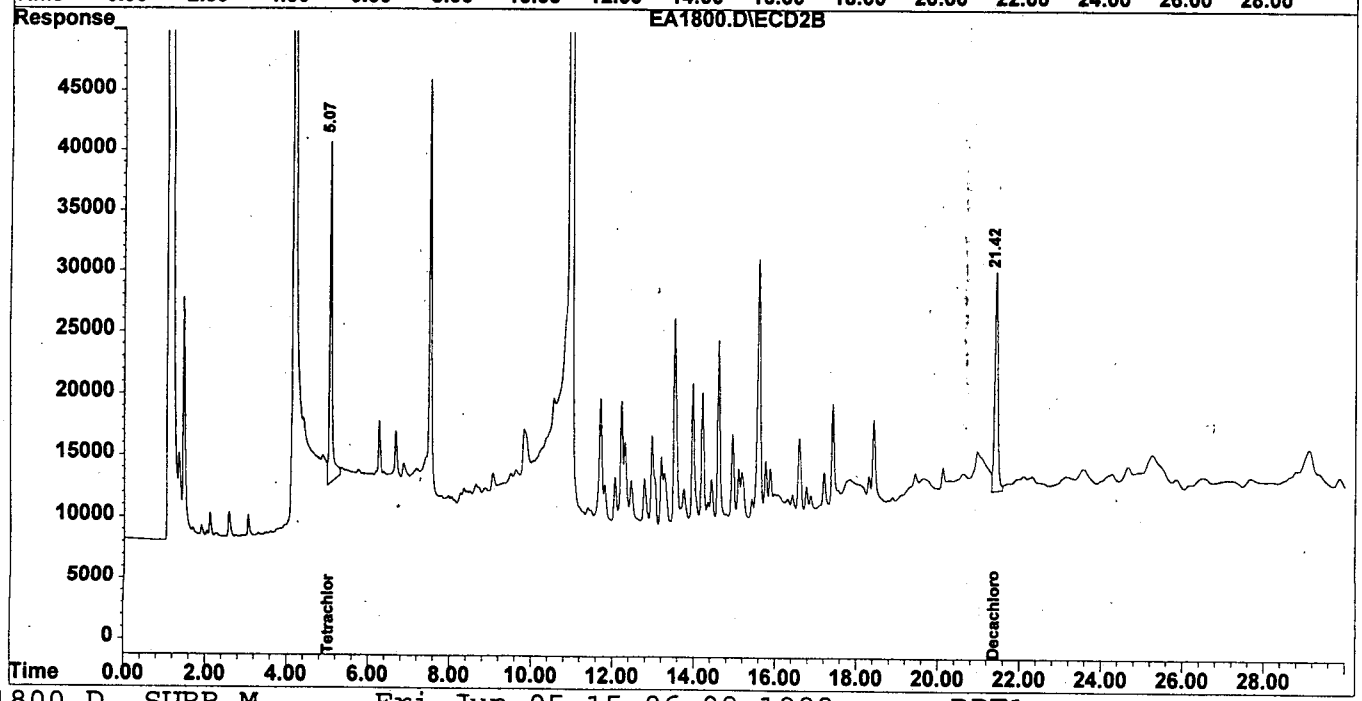
AMENDED REPORT JUN 0 6 1998

Signal #1 : E:\WESTDA~1\EA1800.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\EA1800.D\ECD2B.CH
Acq On : 15 Dec 97 22:23 Operator:
Sample : 278385 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:51 1998 Quant Results File: SURR.RES

Quant Method : H:\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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278386
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: OOOOSS3
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	17.09%

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~~ 1500	U	40	28
Aroclor-1260	U J	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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1801.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_E\EA1801.D\ECD2B.CH
Acq On : 15 Dec 97 22:57 Operator:
Sample : 278386 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:57 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	6.23	5.07	735583	1030725	53.467m	51.826m
Spiked Amount 40.000 Range 43 - 150 Recovery =					133.67%	129.57%
2) SA Decachlorobiphen	25.85	21.41	1243751	1109881	53.456	51.077
Spiked Amount 40.000 Range 24 - 154 Recovery =					133.64%	127.69%
Target Compounds						
4) L1 Aroclor-1016{2}	9.34	7.57	69961	106897	103.191	122.748
5) L1 Aroclor-1016{3}	10.54	8.84	183249	288465	143.498	155.438
6) L1 Aroclor-1016{4}	0.00	9.23	0	296028	N.D.	350.981 #
7) L1 Aroclor-1016{5}	12.53	10.54	741823	1139421	1136.348	1352.525
Sum Aroclor-1016			995033	1830812	1383.037	1981.691
Average Aroclor-1016					461.012	495.423
8) L2 Aroclor-1221{1}	0.00	5.93	0	18359	N.D.	67.228 #
9) L2 Aroclor-1221{2}	7.42	0.00	8368	0	88.188	N.D. #
10) L2 Aroclor-1221{3}	7.84	0.00	15482	0	112.417	N.D. #
11) L2 Aroclor-1221{4}	0.00	8.84	0	288465	N.D.	2100.249 #
Sum Aroclor-1221			23850	306823	200.605	2167.477
Average Aroclor-1221					100.302	1083.739
12) L3 Aroclor-1232{1}	8.12	0.00	67383	0	232.522	N.D. #
13) L3 Aroclor-1232{2}	9.34	7.57	69961	106897	225.282	291.221 #
14) L3 Aroclor-1232{3}	10.54	8.84	183249	288465	360.324	383.392
15) L3 Aroclor-1232{4}	12.53	9.23	741823	296028	2352.006	877.482 #
16) L3 Aroclor-1232{5}	13.45	10.54	653441	1139421	2880.625	2988.943
Sum Aroclor-1232			1715858	1830812	6050.759	4541.038
Average Aroclor-1232					1210.152	1135.260
17) L4 Aroclor-1242{1}	8.12	0.00	67383	0	258.550	N.D. #
18) L4 Aroclor-1242{2}	9.34	7.57	69961	106897	130.137	164.739 #
19) L4 Aroclor-1242{3}	10.54	8.84	183249	288465	188.523	206.817
20) L4 Aroclor-1242{4}	0.00	9.23	0	296028	N.D.	483.779 #
21) L4 Aroclor-1242{5}	12.53	10.54	741823	1139421	1331.176	1722.584 #
Sum Aroclor-1242			1062417	1830812	1908.386	2577.918
Average Aroclor-1242					477.097	644.479

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12/18/97

(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_E\EA1801.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_E\EA1801.D\ECD2B.CH
Acq On : 15 Dec 97 22:57 Operator:
Sample : 278386 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:57 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}	9.34	7.57	69961	106897	243.334	300.300
23) L5	Aroclor-1248{2}	10.54	8.84	183249	288465	218.450	237.905
24) L5	Aroclor-1248{3}	12.53	10.54	741823	1139421	975.391	1212.648
25) L5	Aroclor-1248{4}	13.45	10.81	653441	613281	919.968	707.065
26) L5	Aroclor-1248{5}	15.61	13.51	4880371	5697340	14701.625	16097.672
Sum	Aroclor-1248			6528846	7845404	17058.768	18555.590
Average	Aroclor-1248					3411.754 NP	3711.118 NP
27) L6	Aroclor-1254{1}	11.61	9.82	783192	1014506	2093.395	1645.897m
28) L6	Aroclor-1254{2}	13.79	11.69	2666292	2889638	4493.190	2339.444 #
29) L6	Aroclor-1254{3}	15.61	12.21	4880371	2602216	3756.049	2633.229 #
30) L6	Aroclor-1254{4}	16.53	13.51	2817609	5697340	4511.497	4068.918
31) L6	Aroclor-1254{5}	17.75	15.59	5261878	6639196	4338.299	4833.130
Sum	Aroclor-1254			16409342	18842896	19192.431	15520.619
Average	Aroclor-1254					3838.486	3104.124
32) L7	Aroclor-1260{1}	0.00	13.96	0	2894709	N.D.	2638.450 #
33) L7	Aroclor-1260{2}	16.53	14.60	2817609	3213113	2390.035	2206.944
34) L7	Aroclor-1260{3}	18.94	15.59	1494815	6639196	1801.765	3498.323 #
35) L7	Aroclor-1260{4}	19.48	17.42	1463528	1264397	763.601	567.042 #
36) L7	Aroclor-1260{5}	20.80	18.42	1025771	1026429	656.437	630.172
Sum	Aroclor-1260			6801723	15037844	5611.838	9540.931
Average	Aroclor-1260					1402.960 NP	1908.186 NP

00 179

MW 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1801.D\ECD1A.CH Vial: 25
Signal #2 : E:\WESTDA~1\EA1801.D\ECD2B.CH
Acq On : 15 Dec 97 22:57 Operator:
Sample : 278386 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:20 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	774450	1158250	54.450	53.493
Spiked Amount 40.000 Range 43 - 150 Recovery =					136.13%	133.73%
2) SA Decachlorobiphen	25.85	21.41	1197483	1209435	50.914m	53.013
Spiked Amount 40.000 Range 24 - 154 Recovery =					127.29%	132.53%
Target Compounds						

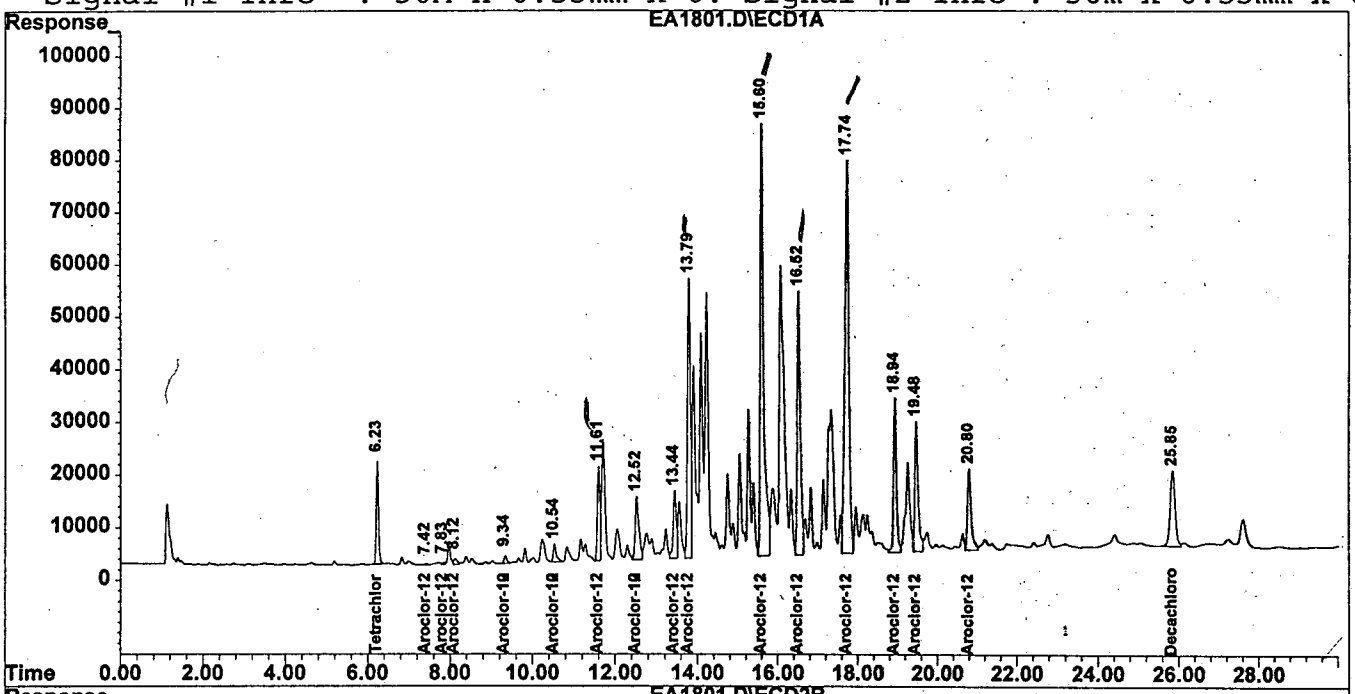
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

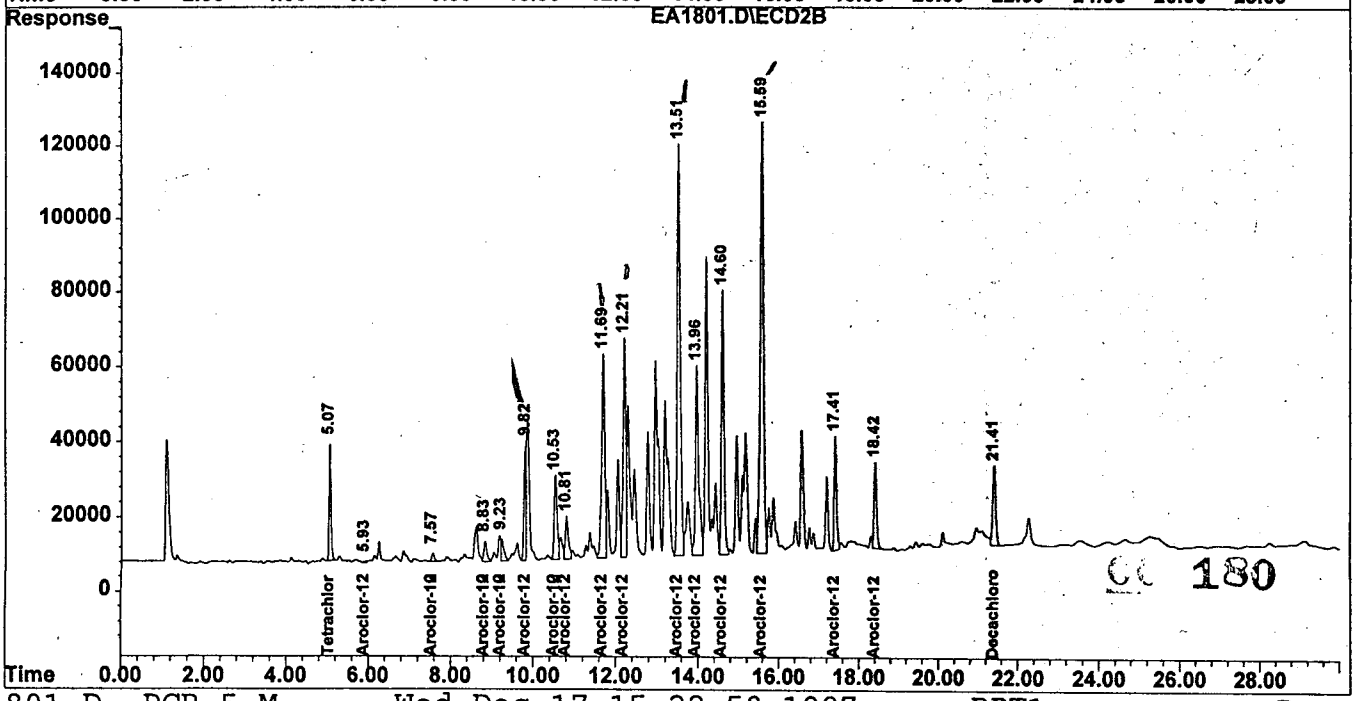
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1801.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_E\EA1801.D\ECD2B.CH
Acq On : 15 Dec 97 22:57 Operator:
Sample : 278386 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:57 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





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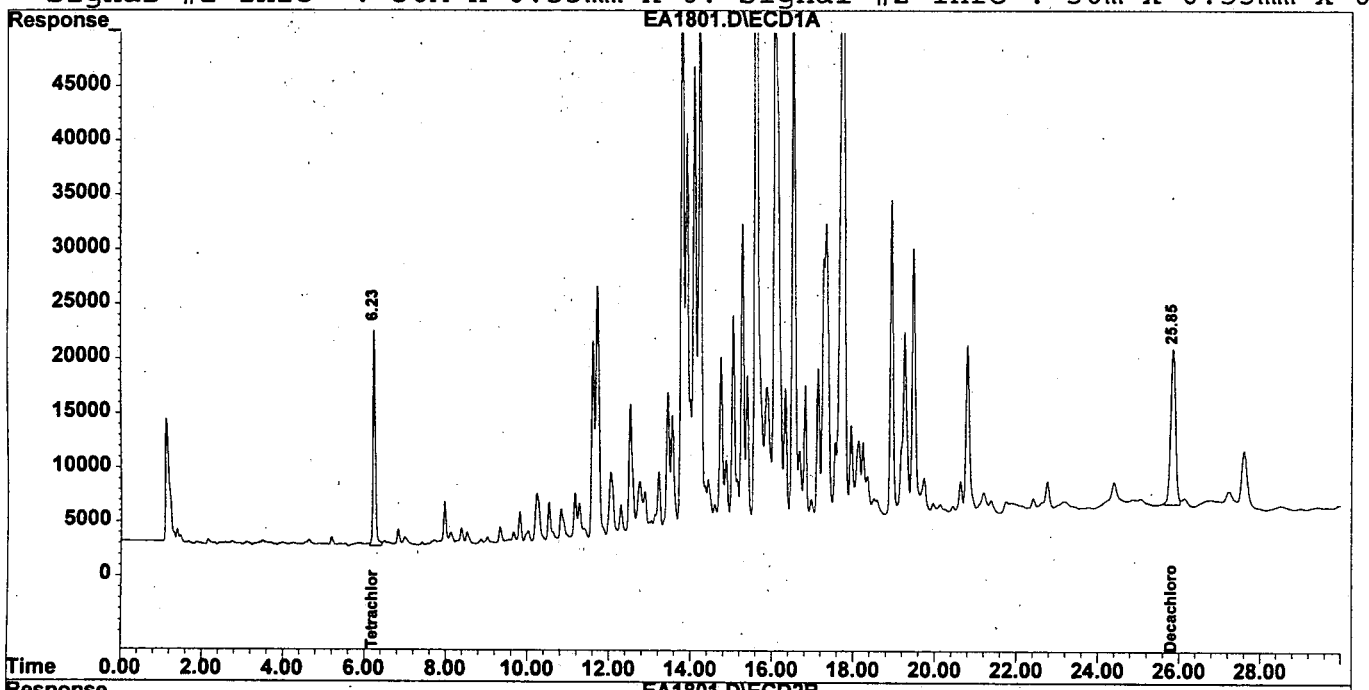
Quantitation Report

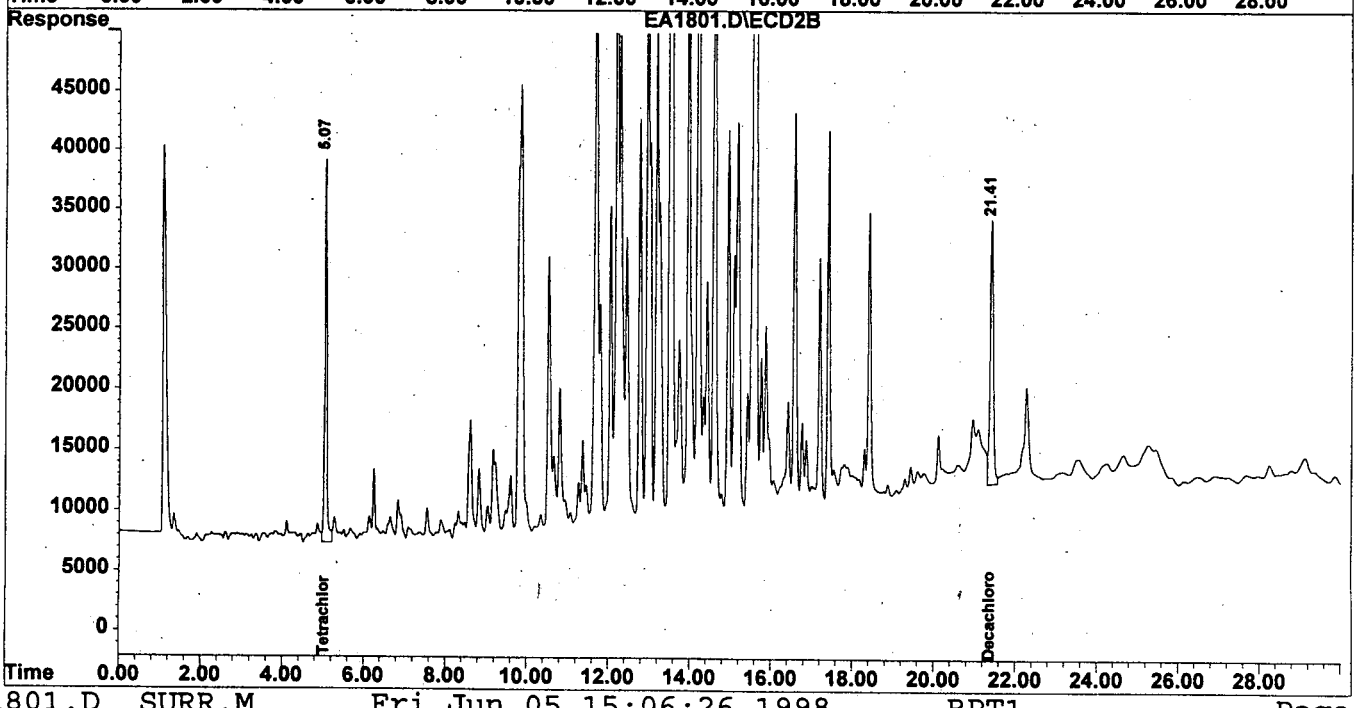
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1801.D\ECD1A.CH Vial: 25
Signal #2 : E:\WESTDA~1\EA1801.D\ECD2B.CH
Acq On : 15 Dec 97 22:57 Operator:
Sample : 278386 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:20 1998 Quant Results File: SURR.RES

Quant Method : H:\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





180A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278387
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	41.78%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	57	29
Aroclor-1221	U	U	110	80
Aroclor-1232	U	U	57	46
Aroclor-1242	U	U	57	29
Aroclor-1248	U	U	57	34
Aroclor-1254	U	U	57	40
Aroclor-1260	U J	U	57	46

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1802.D\ECD1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA_E\EA1802.D\ECD2B.CH
Acq On : 15 Dec 97 23:31 Operator:
Sample : 278387 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:58 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	6.24	5.07	529422	767058	38.482	38.568	
Spiked Amount 40.000 Range 43 - 150 Recovery =					96.21%	96.42%	
2) SA Decachlorobiphen	25.85	21.41	848269	701136	36.458m	32.266	
Spiked Amount 40.000 Range 24 - 154 Recovery =					91.15%	80.66%	
Target Compounds							
3) L1 Aroclor-1016{1}	8.06	0.00	25889	0	77.792	N.D.	#
4) L1 Aroclor-1016{2}	9.31	0.00	29881	0	44.074	N.D.	#
5) L1 Aroclor-1016{3}	10.52	0.00	29748	0	23.295	N.D.	#
6) L1 Aroclor-1016{4}	11.06	0.00	36785	0	83.185	N.D.	#
7) L1 Aroclor-1016{5}	12.52	10.54	21700	57066	33.240	67.738	#
Sum Aroclor-1016			144003	57066	261.586	67.738	
Average Aroclor-1016					52.317	67.738	
11) L2 Aroclor-1221{4}	8.06	0.00	25889	0	63.471	N.D.	#
Sum Aroclor-1221			25889	0	63.471	N.D.	
Average Aroclor-1221					63.471	0.000	
12) L3 Aroclor-1232{1}	8.06	0.00	25889	0	89.336	N.D.	#
13) L3 Aroclor-1232{2}	9.31	0.00	29881	0	96.220	N.D.	#
14) L3 Aroclor-1232{3}	10.52	0.00	29748	0	58.494	N.D.	#
15) L3 Aroclor-1232{4}	12.52	0.00	21700	0	68.800	N.D.	#
16) L3 Aroclor-1232{5}	13.46	10.54	51631	57066	227.607	149.695	#
Sum Aroclor-1232			158848	57066	540.458	149.695	
Average Aroclor-1232					108.092	149.695	
17) L4 Aroclor-1242{1}	8.06	0.00	25889	0	99.337	N.D.	#
18) L4 Aroclor-1242{2}	9.31	0.00	29881	0	55.583	N.D.	#
19) L4 Aroclor-1242{3}	10.52	0.00	29748	0	30.604	N.D.	#
20) L4 Aroclor-1242{4}	11.06	0.00	36785	0	110.882	N.D.	#
21) L4 Aroclor-1242{5}	12.52	10.54	21700	57066	38.939	86.272	#
Sum Aroclor-1242			144003	57066	335.345	86.272	
Average Aroclor-1242					67.069	86.272	
22) L5 Aroclor-1248{1}	9.31	0.00	29881	0	103.930	N.D.	#

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DMW 12/18/97

(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_E\EA1802.D\ECD1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA_E\EA1802.D\ECD2B.CH
Acq On : 15 Dec 97 23:31 Operator:
Sample : 278387 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:58 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
23) L5	Aroclor-1248{2}	10.52	0.00	29748	0	35.462	N.D. #
24) L5	Aroclor-1248{3}	12.52	10.54	21700	57066	28.532	60.733 #
25) L5	Aroclor-1248{4}	13.46	0.00	51631	0	72.690	N.D. #
26) L5	Aroclor-1248{5}	15.61	13.52	47734	53194	143.795	150.297
Sum	Aroclor-1248			180694	110259	384.409	211.030
Average	Aroclor-1248					76.882 NP	105.515 NP
27) L6	Aroclor-1254{1}	11.60	9.81	31072	46478	83.053	75.405
28) L6	Aroclor-1254{2}	13.79	11.69	21141	132843	35.627	107.550 #
29) L6	Aroclor-1254{3}	15.61	12.22	47734	31498	36.737	31.874
30) L6	Aroclor-1254{4}	0.00	13.52	0	53194	N.D.	37.990 #
31) L6	Aroclor-1254{5}	17.75	0.00	33701	0	27.786	N.D. #
Sum	Aroclor-1254			133649	264013	183.203	252.818
Average	Aroclor-1254					45.801 NP	63.204 NP
32) L7	Aroclor-1260{2}	0.00	14.61	0	6516	N.D.	4.476 #
33) L7	Aroclor-1260{4}	19.49	0.00	803342	0	419.147	N.D. #
Sum	Aroclor-1260			803342	6516	419.147	4.476
Average	Aroclor-1260					419.147 NP	4.476 NP

QC 183

Date 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1802.D\ECD1A.CH Vial: 26
Signal #2 : E:\WESTDA~1\EA1802.D\ECD2B.CH
Acq On : 15 Dec 97 23:31 Operator:
Sample : 278387 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:21 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	529422	775159	37.223	35.800
Spiked Amount 40.000 Range 43 - 150 Recovery =					93.06%	89.50%
2) SA Decachlorobiphen	25.85	21.41	883321	782972	37.556m	34.320
Spiked Amount 40.000 Range 24 - 154 Recovery =					93.89%	85.80%

Target Compounds

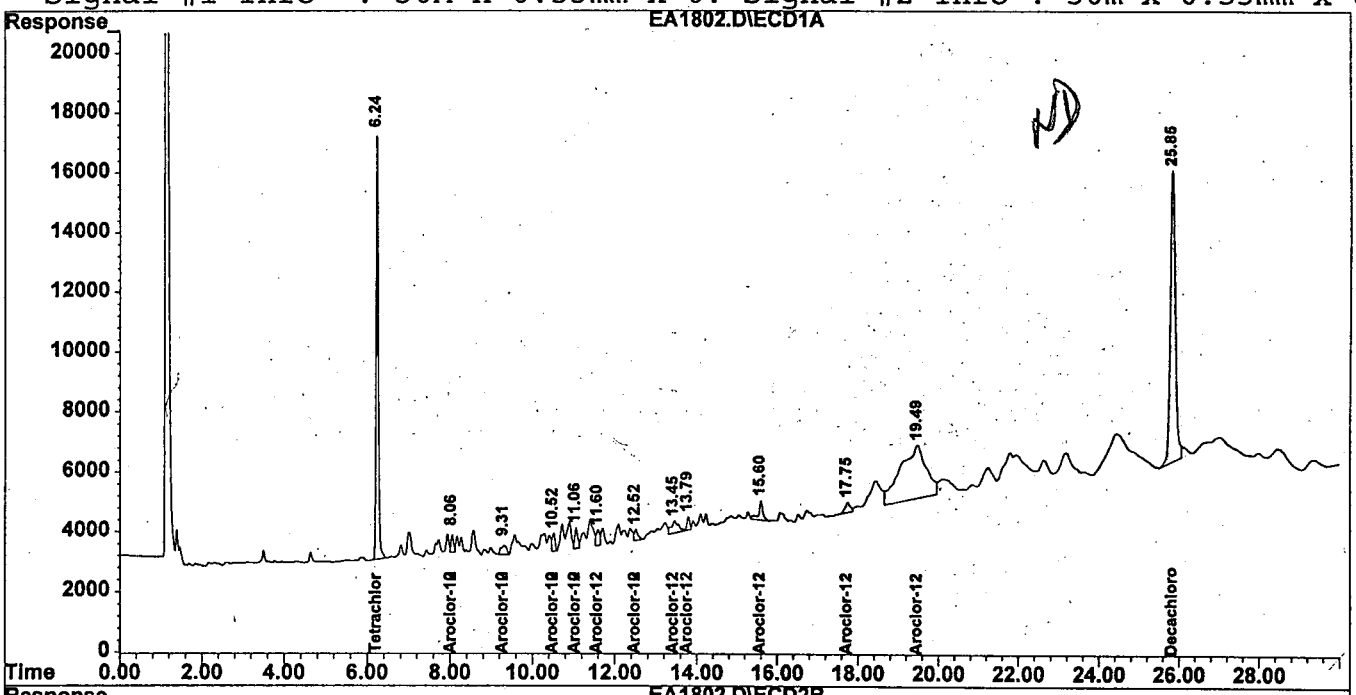
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

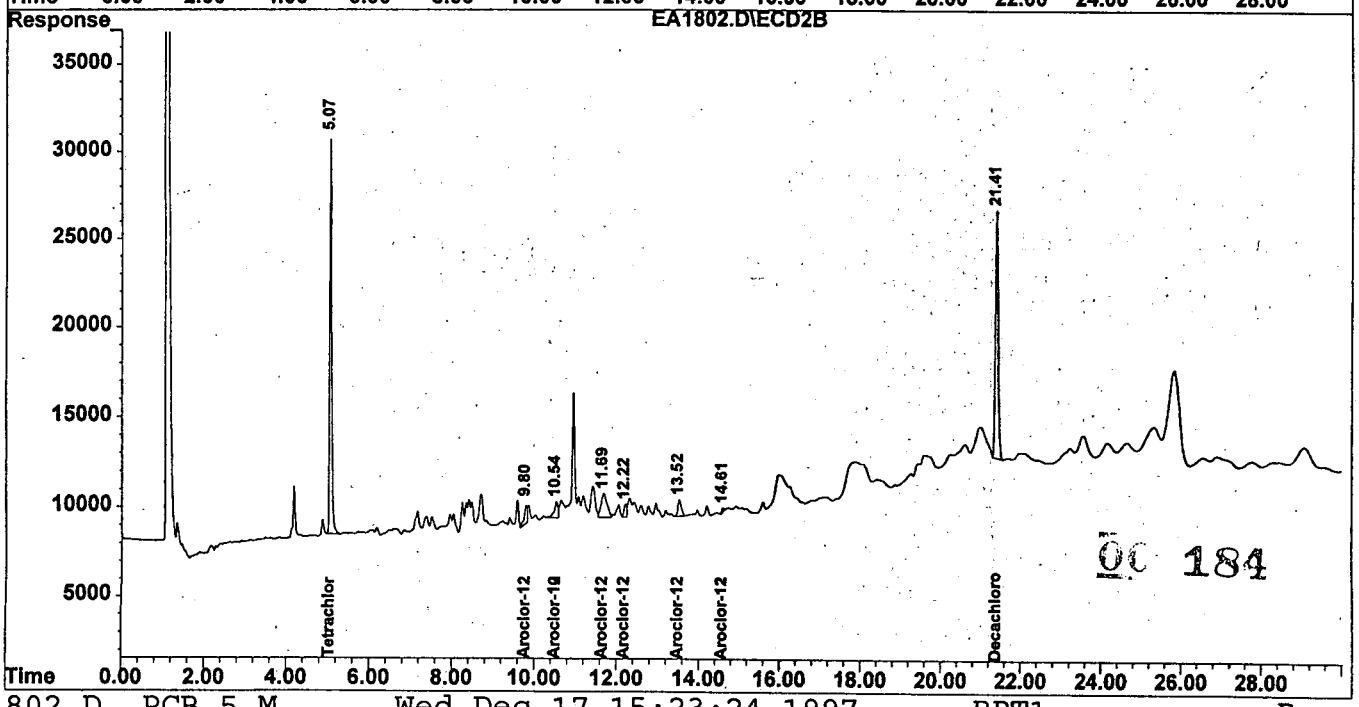
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1802.D\ECD1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA_E\EA1802.D\ECD2B.CH
Acq On : 15 Dec 97 23:31 Operator:
Sample : 278387 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:58 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





QC 184

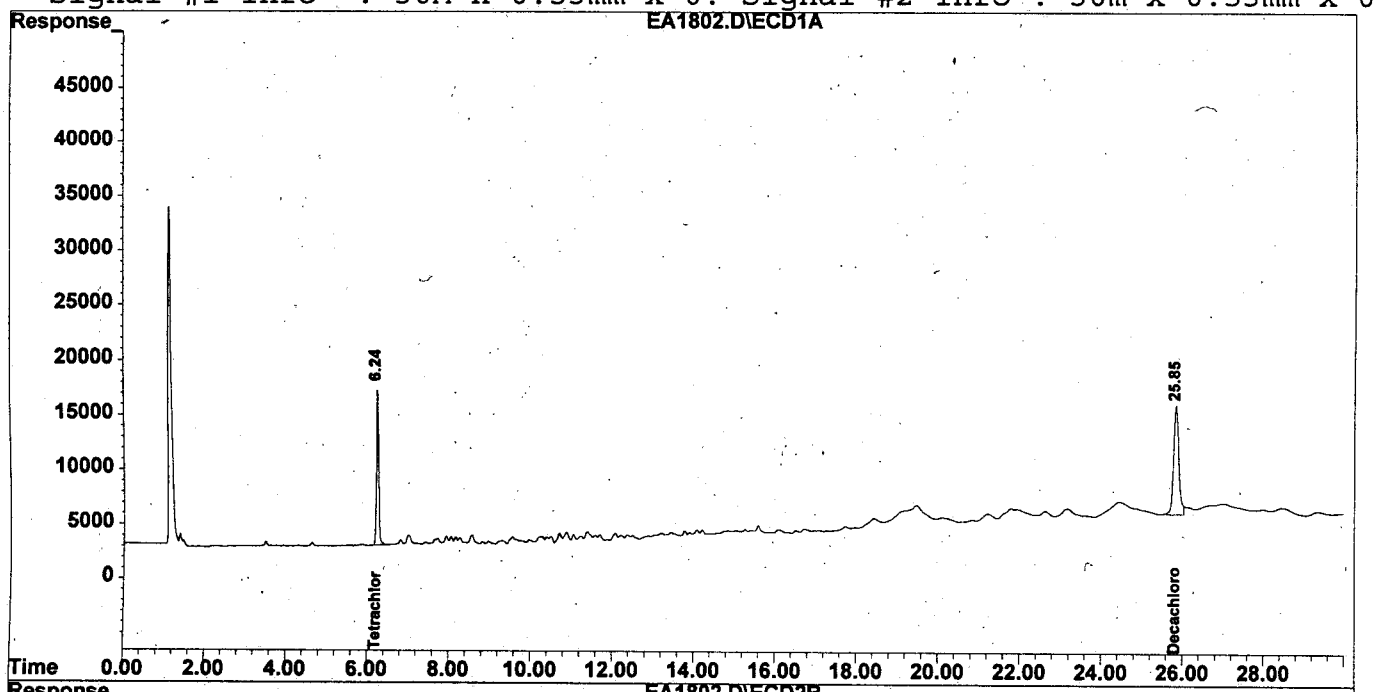
Quantitation Report

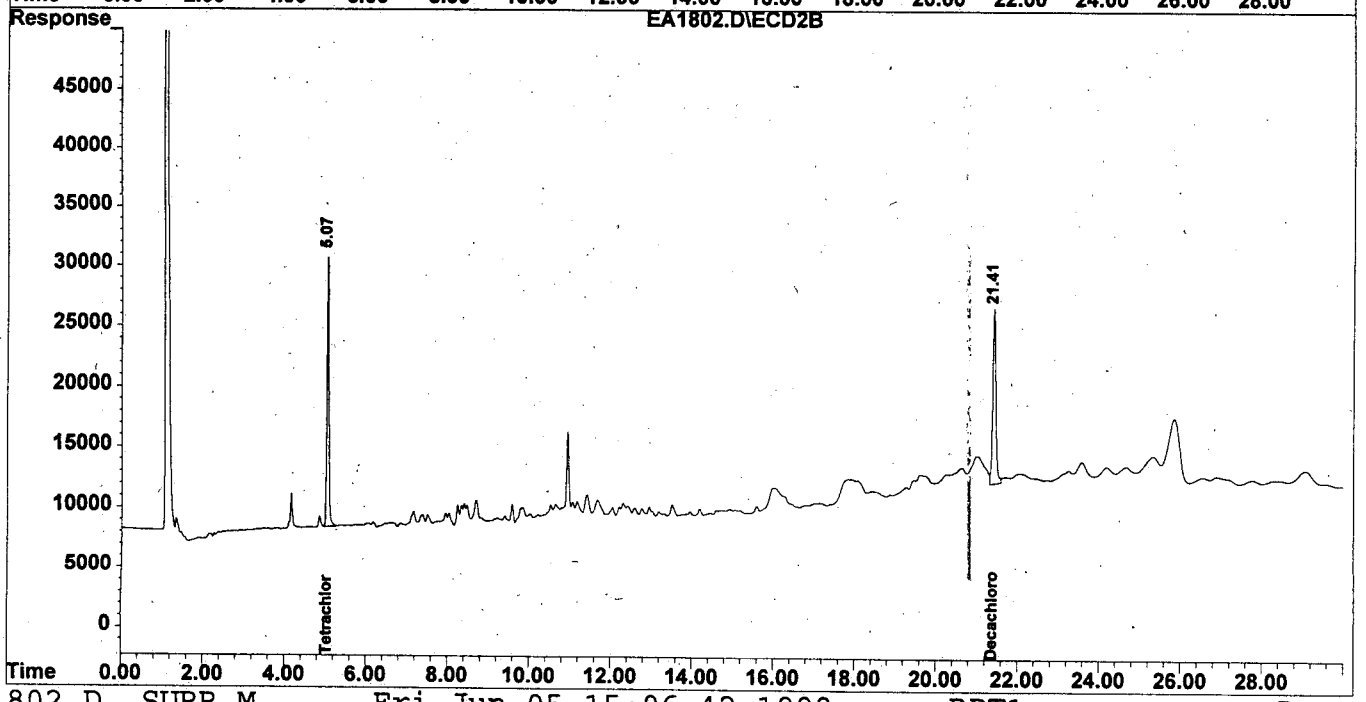
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1802.D\ECD1A.CH Vial: 26
Signal #2 : E:\WESTDA~1\EA1802.D\ECD2B.CH
Acq On : 15 Dec 97 23:31 Operator:
Sample : 278387 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:21 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278388
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/16/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	14.84%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	39	20
Aroclor-1221	U	U	78	55
Aroclor-1232	U	U	39	31
Aroclor-1242	U	U	39	20
Aroclor-1248	U	U	39	23
Aroclor-1254	U	U	39	27
Aroclor-1260	U J	U	39	31

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.

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Thomas Mancuso, Lab Mgr.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1803.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA_E\EA1803.D\ECD2B.CH
Acq On : 16 Dec 97 00:04 Operator:
Sample : 278388 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:59 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	6.23	5.07	653699	928177	47.515	46.669	
Spiked Amount 40.000 Range 43 - 150 Recovery =					118.79%	116.67%	
2) SA Decachlorobiphen	25.85	21.41	1094026	926822	47.020m	42.652m	
Spiked Amount 40.000 Range 24 - 154 Recovery =					117.55%	106.63%	
Target Compounds							
3) L1 Aroclor-1016{1}	8.05	0.00	29821	0	89.605	N.D.	#
6) L1 Aroclor-1016{4}	11.06	0.00	13067	0	29.548	N.D.	#
7) L1 Aroclor-1016{5}	12.51	10.63	8731	28820	13.374	34.210	#
Sum Aroclor-1016			51618	28820	132.528	34.210	
Average Aroclor-1016					44.176 NP	34.210 NP	
9) L2 Aroclor-1221{2}	7.42	0.00	8545	0	90.055	N.D.	#
11) L2 Aroclor-1221{4}	8.05	0.00	29821	0	73.109	N.D.	#
Sum Aroclor-1221			38366	0	163.165	N.D.	
Average Aroclor-1221					81.582 NP	0.000	
12) L3 Aroclor-1232{1}	8.05	0.00	29821	0	102.903	N.D.	#
15) L3 Aroclor-1232{4}	12.51	0.00	8731	0	27.681	N.D.	#
16) L3 Aroclor-1232{5}	0.00	10.63	0	28820	N.D.	75.601	#
Sum Aroclor-1232			38551	28820	130.584	75.601	
Average Aroclor-1232					65.292 NP	75.601 NP	
17) L4 Aroclor-1242{1}	8.05	6.60	29821	30288	114.422	83.051	#
20) L4 Aroclor-1242{4}	11.06	0.00	13067	0	39.387	N.D.	#
21) L4 Aroclor-1242{5}	12.51	10.63	8731	28820	15.667	43.570	#
Sum Aroclor-1242			51618	59108	169.476	126.622	
Average Aroclor-1242					56.492 NP	63.311 NP	
24) L5 Aroclor-1248{3}	12.51	10.63	8731	28820	11.480	30.672	#
26) L5 Aroclor-1248{5}	15.60	0.00	76003	0	228.951	N.D.	#
Sum Aroclor-1248			84734	28820	240.431	30.672	
Average Aroclor-1248					120.215 NP	30.672 NP	
29) L6 Aroclor-1254{3}	15.60	0.00	76003	0	58.494	N.D.	#

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Dru 12/18/97

(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_E\EA1803.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA_E\EA1803.D\ECD2B.CH
Acq On : 16 Dec 97 00:04 Operator:
Sample : 278388 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:59 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	
	Sum Aroclor-1254			76003	0	58.494	N.D.	
	Average Aroclor-1254					58.494 NP	0.000	
35)	L7 Aroclor-1260{4}	19.51	0.00	280110	0	146.148	N.D.	#
	Sum Aroclor-1260			280110	0	146.148	N.D.	
	Average Aroclor-1260					146.148 NP	0.000	

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DMW 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1803.D\ECD1A.CH Vial: 27
Signal #2 : E:\WESTDA~1\EA1803.D\ECD2B.CH
Acq On : 16 Dec 97 00:04 Operator:
Sample : 278388 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:21 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	654042	936304	45.984	43.243
Spiked Amount 40.000 Range 43 - 150 Recovery =					114.96%	108.11%
2) SA Decachlorobiphen	25.85	21.41	1028899	935103	43.746m	40.989m
Spiked Amount 40.000 Range 24 - 154 Recovery =					109.37%	102.47%

Target Compounds

187A

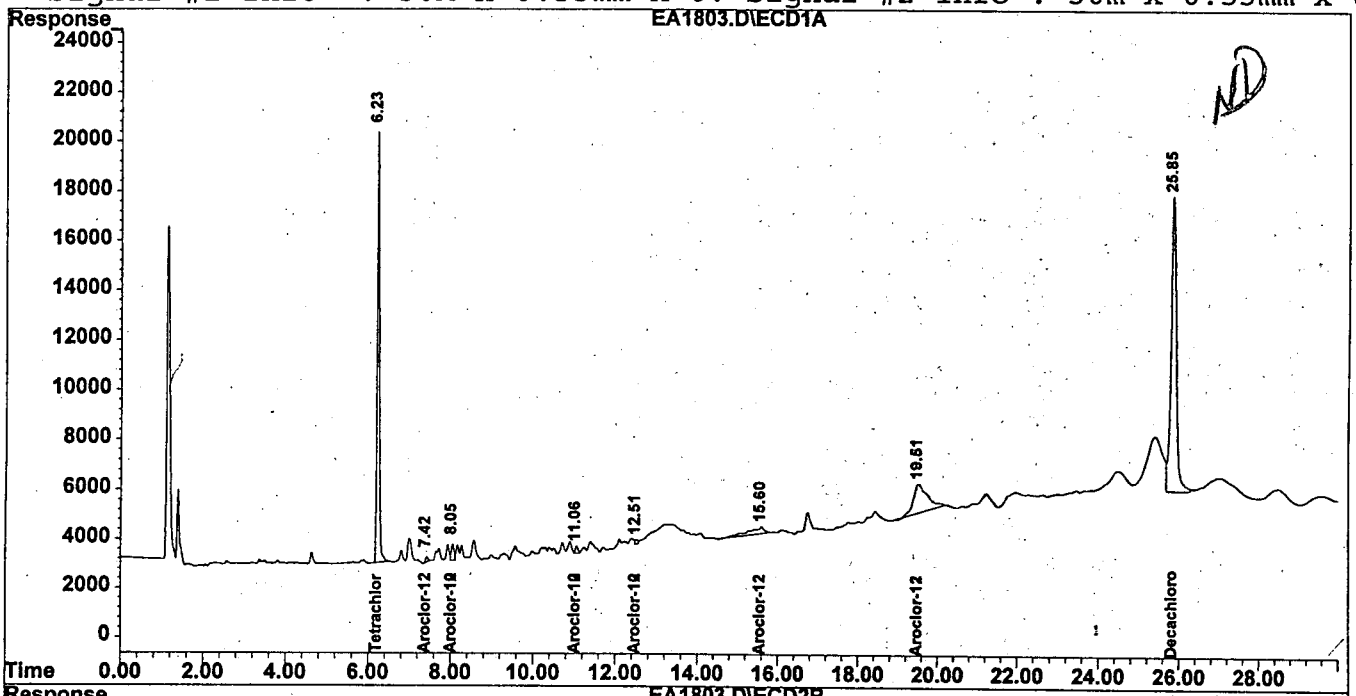
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

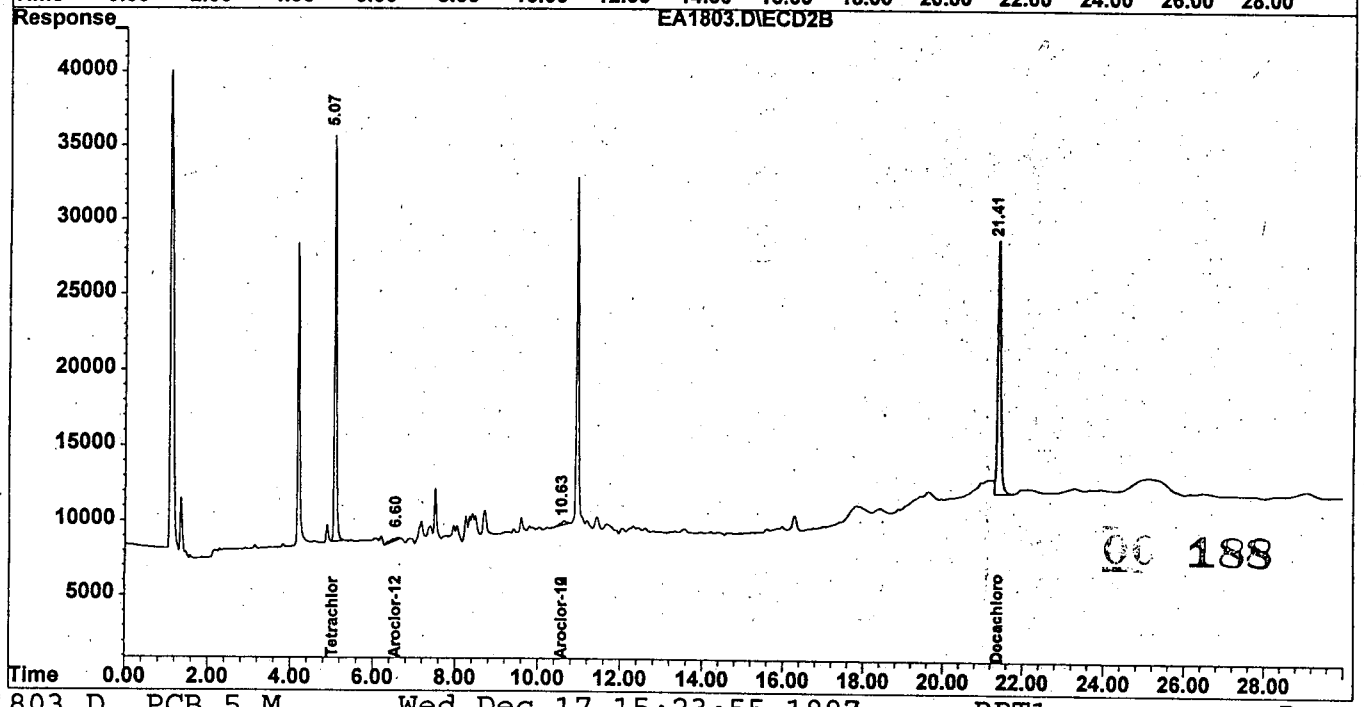
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1803.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA_E\EA1803.D\ECD2B.CH
Acq On : 16 Dec 97 00:04 Operator:
Sample : 278388 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 14:59 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





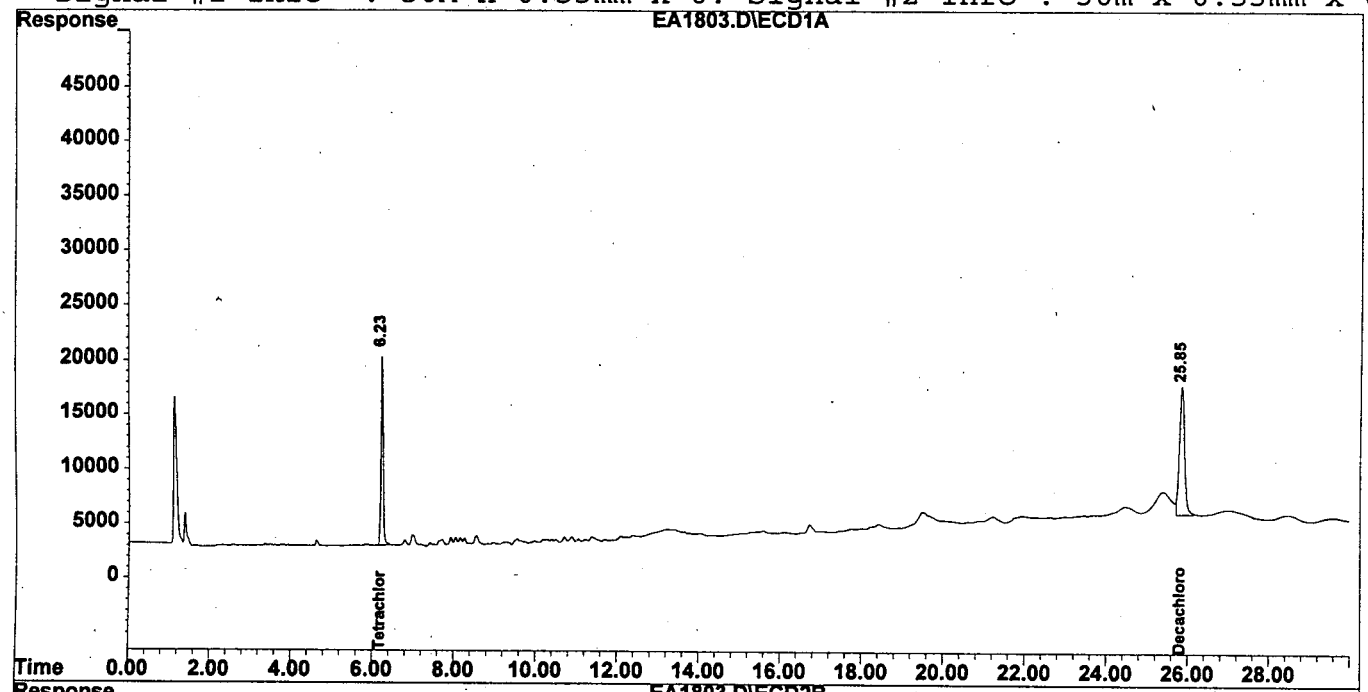
00 188

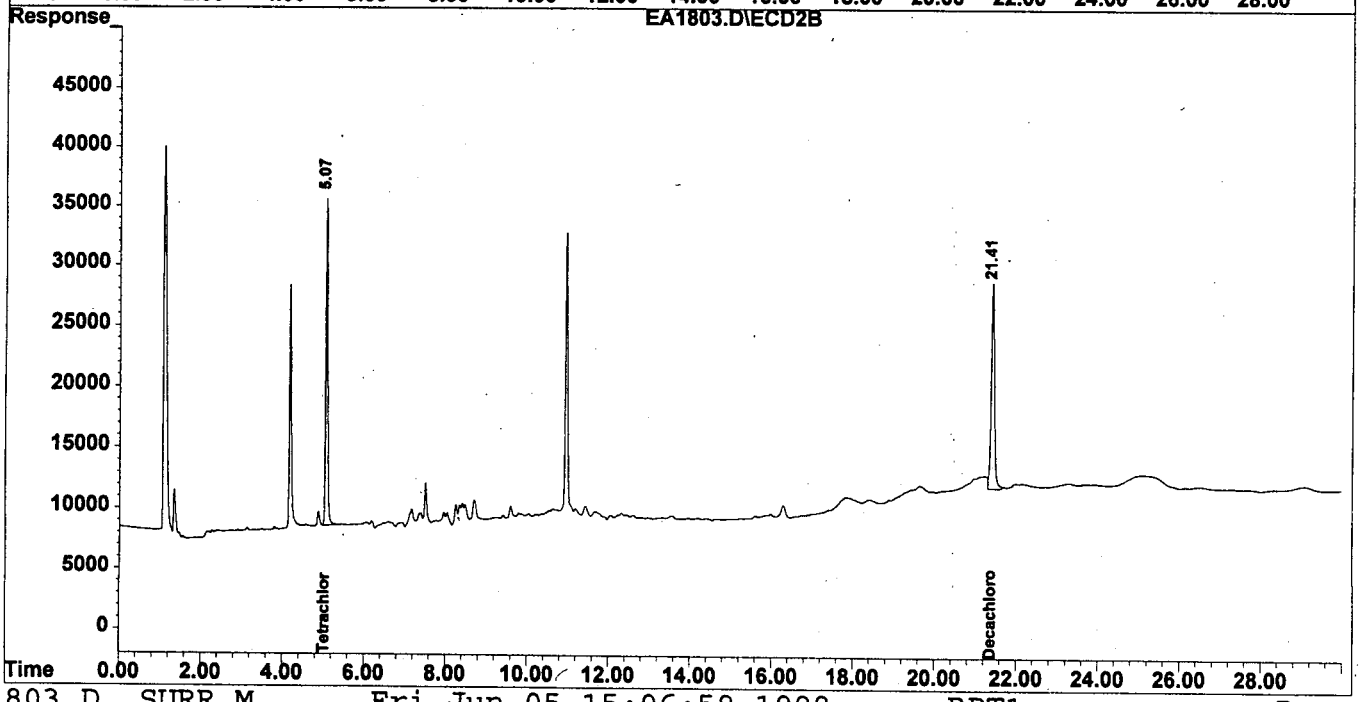
Quantitation Report AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1803.D\ECD1A.CH Vial: 27
Signal #2 : E:\WESTDA~1\EA1803.D\ECD2B.CH
Acq On : 16 Dec 97 00:04 Operator:
Sample : 278388 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:21 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 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: 278389
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPSS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/16/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	33.64%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	50	25
Aroclor-1221	U	U	100	70
Aroclor-1232	U	U	50	40
Aroclor-1242	U	U	50	25
Aroclor-1248	U	U	50	30
Aroclor-1254	~~1100~~ 980 J	U	50	35
Aroclor-1260	~~U~~ 770 J	U	50	40

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.

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LOU

J 1254 :: % D of concs + 1260
J 1260 :: CCV + 1254

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1805.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_E\EA1805.D\ECD2B.CH
Acq On : 16 Dec 97 1:11 Operator:
Sample : 278389 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 13:21 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	6.24	5.07	576622	811926	41.913	40.824	
Spiked Amount 40.000 Range 43 - 150 Recovery =					104.78%	102.06%	
2) SA Decachlorobiphen	25.86	21.41	16723978	14592751	718.785	671.556	
Spiked Amount 40.000 Range 24 - 154 Recovery =					1796.96%#	1678.89%#	
Target Compounds							
3) L1 Aroclor-1016{1}	8.11	0.00	160839	0	483.290	N.D.	#
4) L1 Aroclor-1016{2}	9.34	7.57	13325	37665	19.654	43.250	#
5) L1 Aroclor-1016{3}	10.54	8.87	43361	113141	33.955	60.966	#
7) L1 Aroclor-1016{5}	12.53	10.54	96228	356047	147.405	422.638	#
Sum Aroclor-1016			313753	506854	684.304	526.854	
Average Aroclor-1016					171.076 NP	175.618 NP	
9) L2 Aroclor-1221{2}	0.00	6.37	0	22362	N.D.	129.152	#
11) L2 Aroclor-1221{4}	8.11	8.87	160839	113141	394.319	823.758	#
Sum Aroclor-1221			160839	135503	394.319	952.909	
Average Aroclor-1221					394.319 NP	476.455 NP	
12) L3 Aroclor-1232{1}	8.11	0.00	160839	0	555.012	N.D.	#
13) L3 Aroclor-1232{2}	9.34	7.57	13325	37665	42.907	102.612	#
14) L3 Aroclor-1232{3}	10.54	8.87	43361	113141	85.262	150.374	#
15) L3 Aroclor-1232{4}	12.53	0.00	96228	0	305.098	N.D.	#
16) L3 Aroclor-1232{5}	13.45	10.54	227277	356047	1001.924	933.988	
Sum Aroclor-1232			541030	506854	1990.203	1186.973	
Average Aroclor-1232					398.041 NP	395.658 NP	
17) L4 Aroclor-1242{1}	8.11	0.00	160839	0	617.141	N.D.	#
18) L4 Aroclor-1242{2}	9.34	7.57	13325	37665	24.786	58.046	#
19) L4 Aroclor-1242{3}	10.54	8.87	43361	113141	44.609	81.177	#
21) L4 Aroclor-1242{5}	12.53	10.54	96228	356047	172.678	538.275	#
Sum Aroclor-1242			313753	506854	859.214	677.438	
Average Aroclor-1242					214.803 NP	225.813 NP	
22) L5 Aroclor-1248{1}	9.34	7.57	13325	37665	46.345	105.810	#
23) L5 Aroclor-1248{2}	10.54	8.87	43361	113141	51.691	93.311	#

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mw 12/18/97

(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_E\EA1805.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_E\EA1805.D\ECD2B.CH
Acq On : 16 Dec 97 1:11 Operator:
Sample : 278389 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 13:21 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
24)	L5 Aroclor-1248{3}	12.53	10.54	96228	356047	126.526	378.929 #
25)	L5 Aroclor-1248{4}	13.45	10.86	227277	333072	319.979	384.006
26)	L5 Aroclor-1248{5}	15.61	13.52	3472072	4353378	10459.264	12300.346
	Sum Aroclor-1248			3852262	5193304	11003.805	13262.403
Average	Aroclor-1248					2200.761	2652.481
27)	L6 Aroclor-1254{1}	~~11.61~~	~~9.82~~	157534	179090	~~421.073~~	~~290.548~~ #
28)	L6 Aroclor-1254{2}	13.79	11.70	1834824	1548485	3092.014	1253.650 #
29)	L6 Aroclor-1254{3}	15.61	12.21	3472072	1474321	2672.188	1491.892 #
30)	L6 Aroclor-1254{4}	16.53	13.52	2881351	4353378	4613.559	3109.089 #
31)	L6 Aroclor-1254{5}	~~17.75~~	~~15.60~~	5500652	6474909	~~4535.163~~	~~4713.534~~
	Sum Aroclor-1254			13846433	14030182	15333.998	10858.713
Average	Aroclor-1254					~~3066.800~~ 3459.83	~~2171.743~~ ~~1957.65~~
32)	L7 Aroclor-1260{1}	~~16.15~~	13.97	3093521	2578634	~~3184.219~~	~~2350.357~~ #
33)	L7 Aroclor-1260{2}	~~16.53~~	14.61	2881351	3259699	~~2444.104~~	~~2238.941~~
34)	L7 Aroclor-1260{3}	18.94	~~15.60~~	1891148	6474909	2279.481	3411.757 #
35)	L7 Aroclor-1260{4}	19.48	17.42	3164790	3202769	1651.241	1436.340
36)	L7 Aroclor-1260{5}	20.81	18.43	2350241	2677216	1504.025	1643.667
	Sum Aroclor-1260			13381051	18193227	11063.070	11081.062
Average	Aroclor-1260					2212.614	2216.212

%D=52

AR1260 Conc:

18.94	—	2259.98	—
19.48	17.42	1618.82	1426.43
20.81	18.43	1453.37	1633.35
		AVG = 1779.38	1529.9

%D=15

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12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1805.D\ECD1A.CH Vial: 29
Signal #2 : E:\WESTDA~1\EA1805.D\ECD2B.CH
Acq On : 16 Dec 97 1:11 Operator:
Sample : 278389 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:51 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	576622	831572	40.541	38.406
Spiked Amount 40.000 Range 43 - 150 Recovery =					101.35%	96.02%
2) SA Decachlorobiphen	25.86	21.41	16728501	14895460	711.250	652.915
Spiked Amount 40.000 Range 24 - 154 Recovery =					1778.13%#	1632.29%#

Target Compounds

2036/5/8 191A

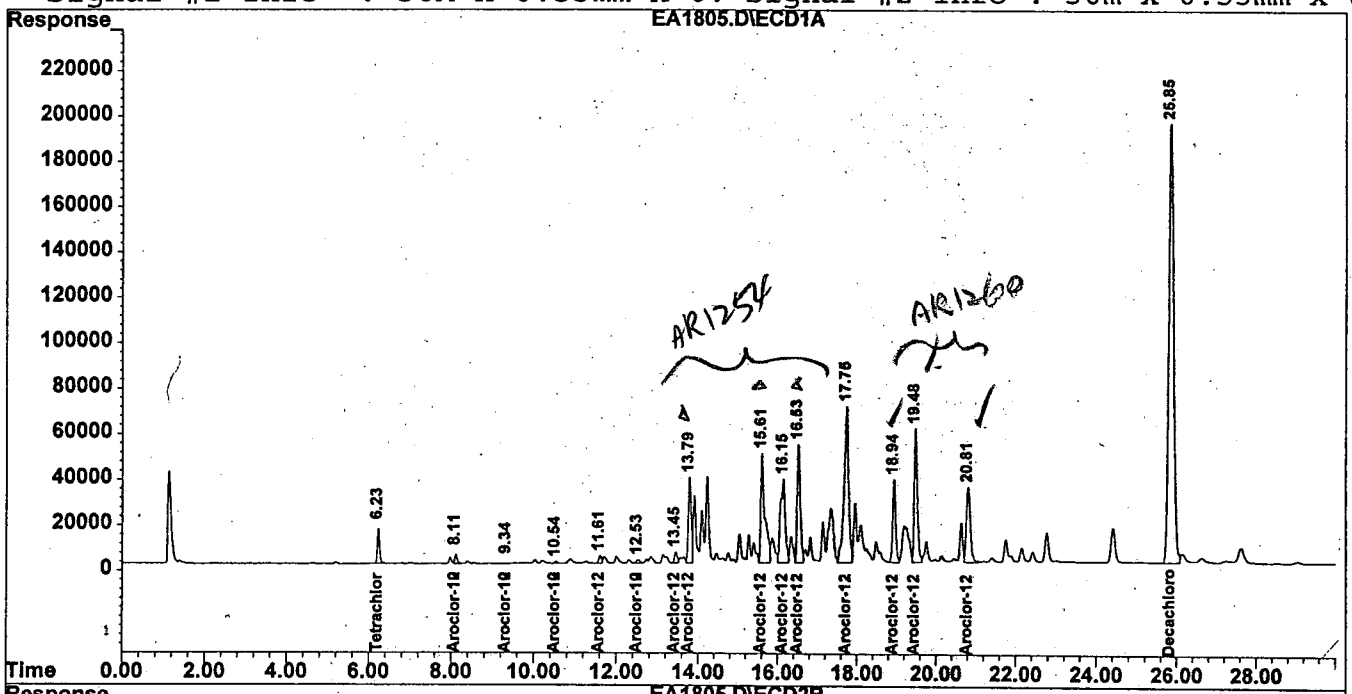
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

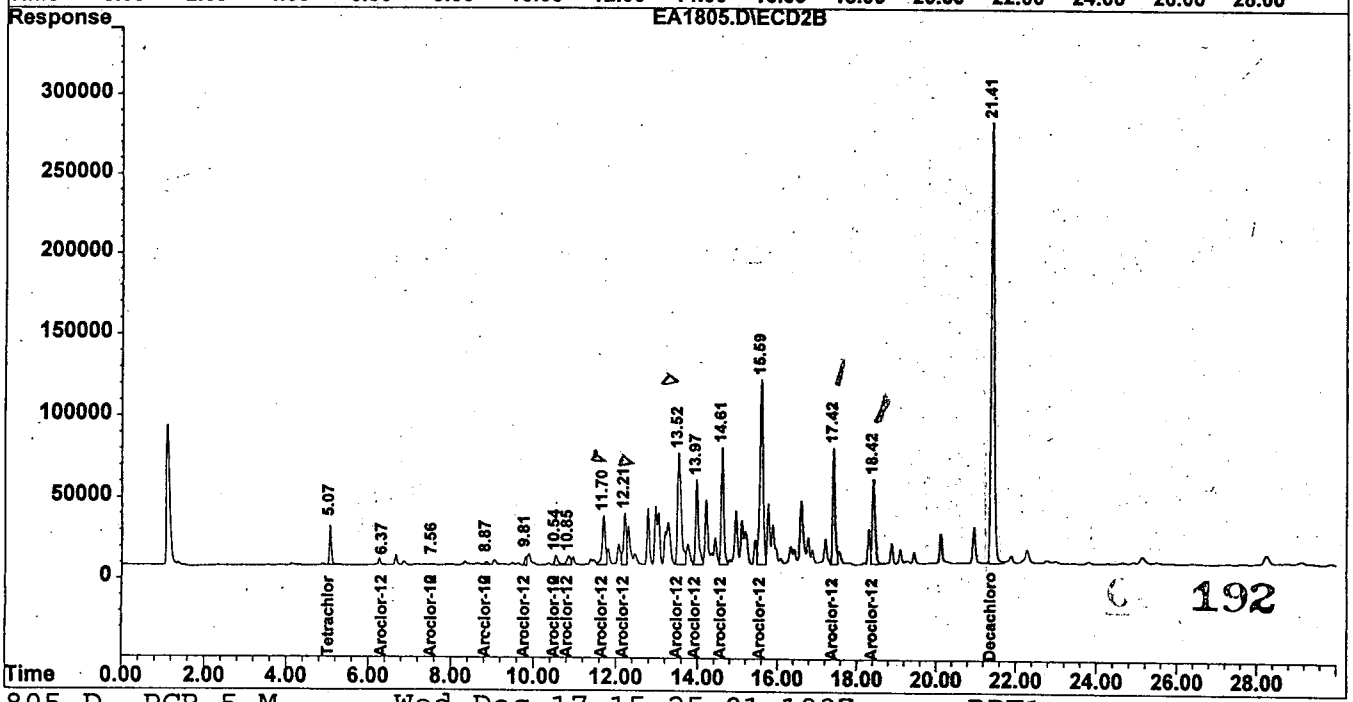
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1805.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_E\EA1805.D\ECD2B.CH
Acq On : 16 Dec 97 1:11 Operator:
Sample : 278389 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 13:21 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





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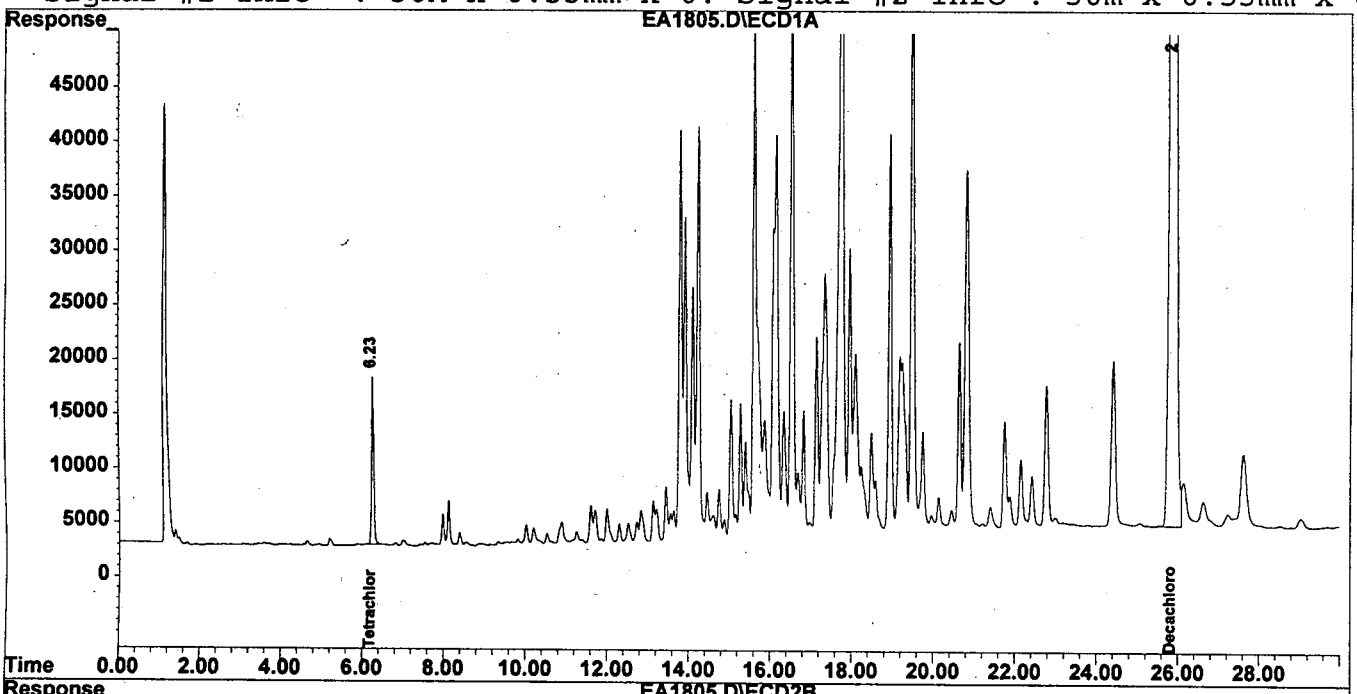
Quantitation Report

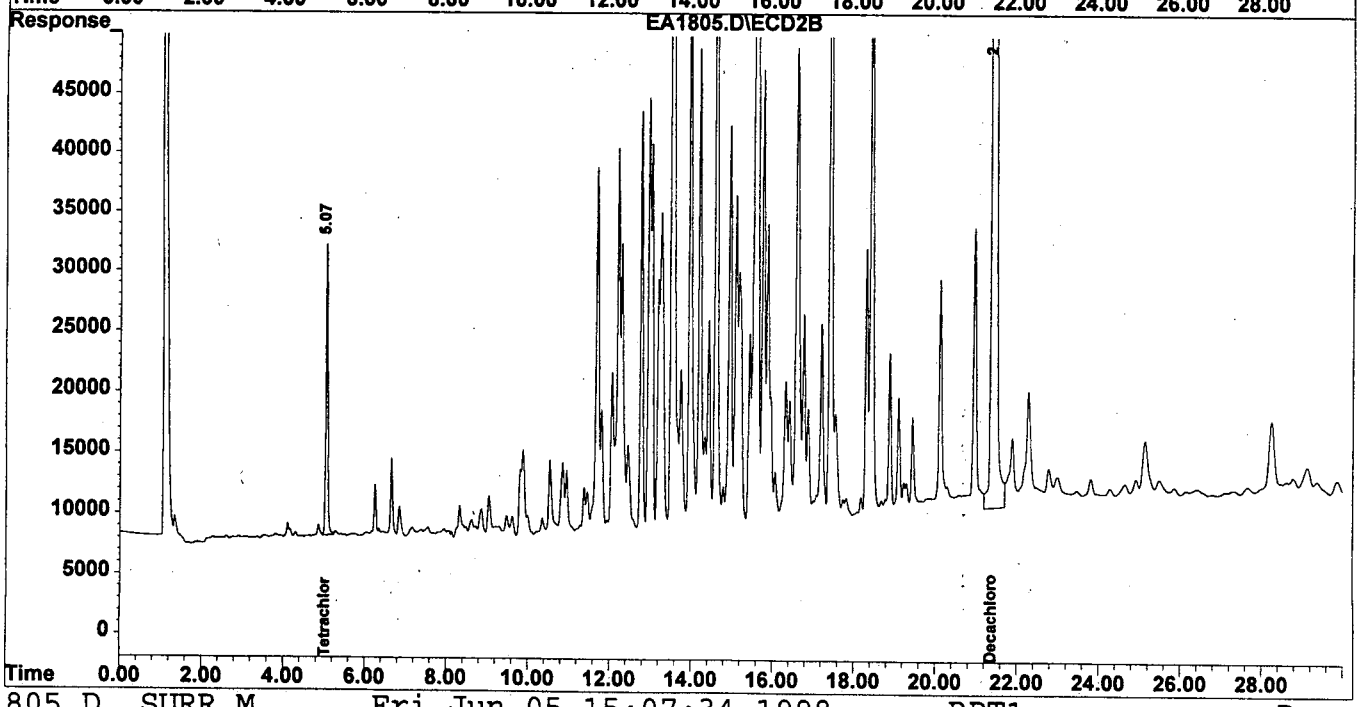
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1805.D\ECD1A.CH Vial: 29
Signal #2 : E:\WESTDA~1\EA1805.D\ECD2B.CH
Acq On : 16 Dec 97 1:11 Operator:
Sample : 278389 Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:51 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278390
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPSD1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	38.92%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	54	27
Aroclor-1221	U	U	110	76
Aroclor-1232	U	U	54	44
Aroclor-1242	U	U	54	27
Aroclor-1248	U	U	54	33
Aroclor-1254	~~1400~~ 1500	U	54	38
Aroclor-1260	U	U	54	44

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0933.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_B\BA0933.D\ECD2B.CH
Acq On : 15 Dec 97 13:25 Operator:
Sample : 278390 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 16 9:02 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	7.21	6.01	388788	248306	42.917	38.337
Spiked Amount 40.000 Range 43 - 150 Recovery =					107.29%	95.84%
2) SA Decachlorobiphen	29.40	24.62	968999	588118	64.391m	65.948
Spiked Amount 40.000 Range 24 - 154 Recovery =					160.98%#	164.87%#
Target Compounds						
3) L1 Aroclor-1016{1}	9.16	0.00	64017	0	300.745	N.D. #
5) L1 Aroclor-1016{3}	11.99	10.74	14387	7939	17.492	29.629 #
6) L1 Aroclor-1016{4}	0.00	12.26	0	127166	N.D.	495.699 #
7) L1 Aroclor-1016{5}	13.28	14.11	185325	820977	567.560	5566.707 #
Sum Aroclor-1016			263730	956082	885.797	6092.035
Average Aroclor-1016					295.266	2030.678
10) L2 Aroclor-1221{3}	9.16	0.00	64017	0	211.485	N.D. #
Sum Aroclor-1221			64017	0	211.485	N.D.
Average Aroclor-1221					211.485	0.000
12) L3 Aroclor-1232{2}	9.16	10.12	64017	15071	313.251	360.769
13) L3 Aroclor-1232{3}	0.00	11.44	0	355361	N.D.	4265.986 #
14) L3 Aroclor-1232{4}	11.99	13.19	14387	22101	40.986	390.643 #
Sum Aroclor-1232			78405	392533	354.236	5017.398
Average Aroclor-1232					177.118	1672.466
15) L4 Aroclor-1242{1}	9.16	0.00	64017	0	349.219	N.D. #
16) L4 Aroclor-1242{2}	0.00	10.12	0	15071	N.D.	196.361 #
17) L4 Aroclor-1242{3}	11.43	0.00	28468	0	256.779	N.D. #
18) L4 Aroclor-1242{4}	0.00	12.26	0	127166	N.D.	549.526 #
19) L4 Aroclor-1242{5}	14.18	0.00	126681	0	348.609	N.D. #
Sum Aroclor-1242			219166	142238	954.607	745.887
Average Aroclor-1242					318.202	372.943
21) L5 Aroclor-1248{2}	11.99	12.26	14387	127166	25.716	375.254 #
22) L5 Aroclor-1248{3}	13.28	12.57	185325	81923	448.384	258.808 #
23) L5 Aroclor-1248{4}	14.18	13.55	126681	778606	255.232	2893.596 #
24) L5 Aroclor-1248{5}	0.00	15.57	0	1585862	N.D.	12590.983 #

194

12/16/97

(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\BA0933.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_B\BA0933.D\ECD2B.CH
Acq On : 15 Dec 97 13:25 Operator:
Sample : 278390 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 16 9:02 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	
Sum	Aroclor-1248			326394	2573557	729.332	1618.641	
Average	Aroclor-1248					243.111	4029.660	
						NP	NP	
25) L6	Aroclor-1254{1}	~~14.18~~	11.44	126681	355361	933.304	1611.851	#
26) L6	Aroclor-1254{2}	15.57	13.55	901263	778606	2444.566	1859.249	
27) L6	Aroclor-1254{3}	15.88	14.96	1290527	500047	2800.352	3345.044	
28) L6	Aroclor-1254{4}	18.53	15.57	1466763	1585862	3619.023	3263.563	
29) L6	Aroclor-1254{5}	19.86	17.86	3144997	1869714	3644.241	4114.344	
Sum	Aroclor-1254			6930230	5089589	13441.486	14194.051	
Average	Aroclor-1254					2688.297	2838.810	
30) L7	Aroclor-1260{1}	0.00	16.06	0	899072	N.D.	2637.921	#
31) L7	Aroclor-1260{2}	18.53	16.77	1466763	905926	2382.859	2228.351	
32) L7	Aroclor-1260{3}	20.08	17.86	256401	1869714	561.929	3625.293	#
33) L7	Aroclor-1260{4}	21.16	19.88	896316	357885	1923.664	571.565	#
34) L7	Aroclor-1260{5}	21.75	20.99	727219	312540	564.119	661.682	
Sum	Aroclor-1260			3346698	4345138	5432.570	9724.811	
Average	Aroclor-1260					1358.143	1944.962	
						NP	NP	

QC 195

JOR 12/16/97

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

AMENDED REPORT JUN 0 5 1998
(QT Reviewed)

ICM Laboratories Quantitation Report

Signal #1 : E:\WESTDA~1\BA0933.D\ECD1A.CH Vial: 33
Signal #2 : E:\WESTDA~1\BA0933.D\ECD2B.CH
Acq On : 15 Dec 97 13:25 Operator:
Sample : 278390 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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	7.21	6.01	382843	244343	41.154	40.436
Spiked Amount 40.000 Range 43 - 150 Recovery =					102.89%	101.09%
2) SA Decachlorobiphen	29.41	24.62	985117	578011	65.231	69.577
Spiked Amount 40.000 Range 24 - 154 Recovery =					163.08%#	173.94%#
Target Compounds						
3) L6 Aroclor-1254{1}	~~14.18~~	11.44	~~110305~~	351163	~~812.930~~	1580.509 #
4) L6 Aroclor-1254{2}	15.57	13.55	889313	776112	2318.445	1851.819
5) L6 Aroclor-1254{3}	15.88	14.96	1273950	494516	2420.286	3298.294 #
6) L6 Aroclor-1254{4}	18.53	15.57	1450663	1579727	3383.236	3176.353
7) L6 Aroclor-1254{5}	19.86	17.86	3134633	1813261	3609.524	3784.173
Sum Aroclor-1254			6858865	5014779	12544.420	13691.149
Average Aroclor-1254					~~2508.884~~ 2932.87	2738.230

195A 7/3 6/9/98

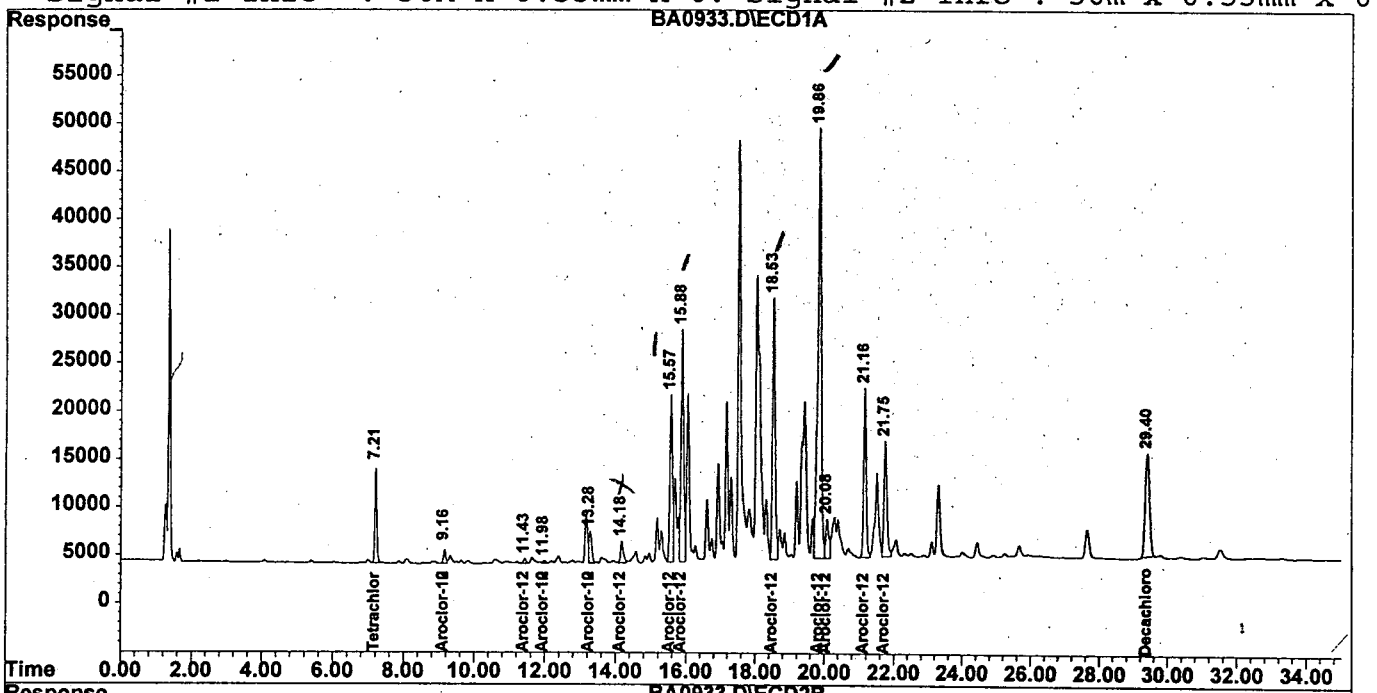
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

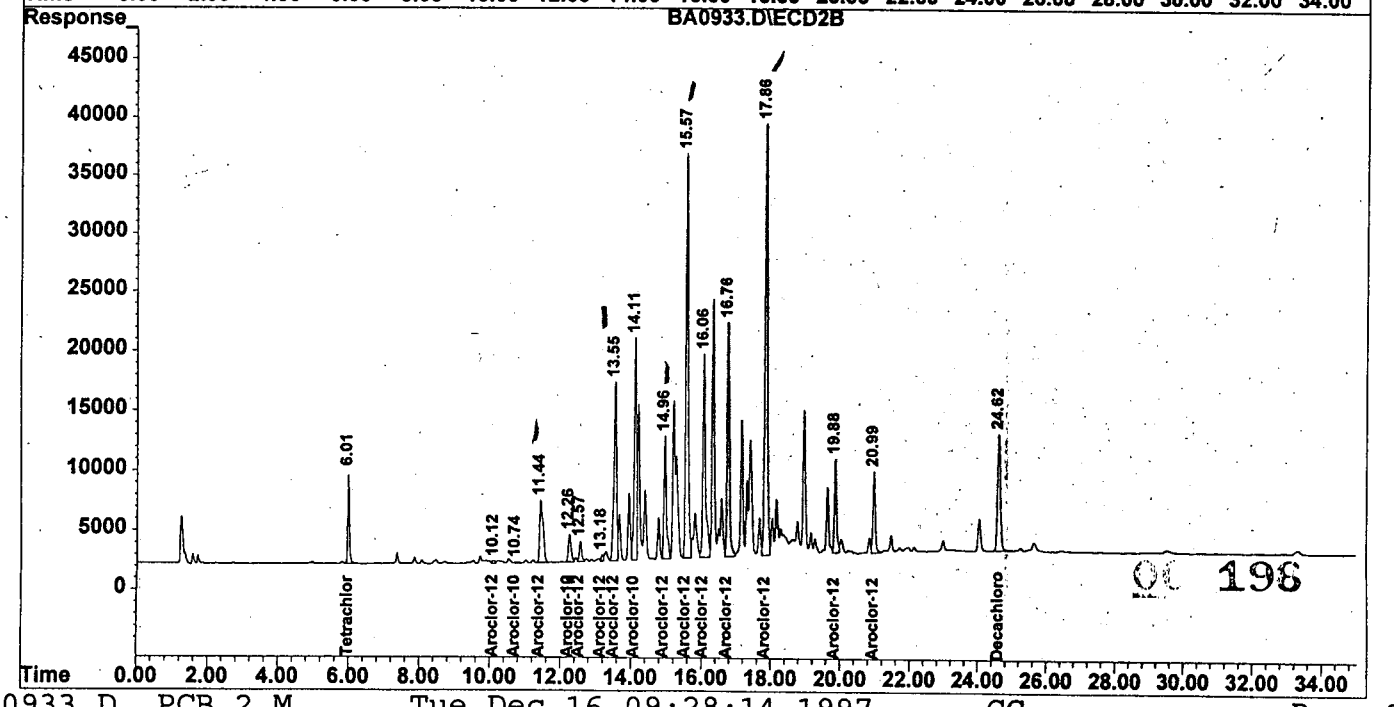
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0933.D\ECD1A.CH Vial: 33
Signal #2 : C:\HPCHEM\1\DATA_B\BA0933.D\ECD2B.CH
Acq On : 15 Dec 97 13:25 Operator:
Sample : 278390 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 16 9:02 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 : 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





QC 198

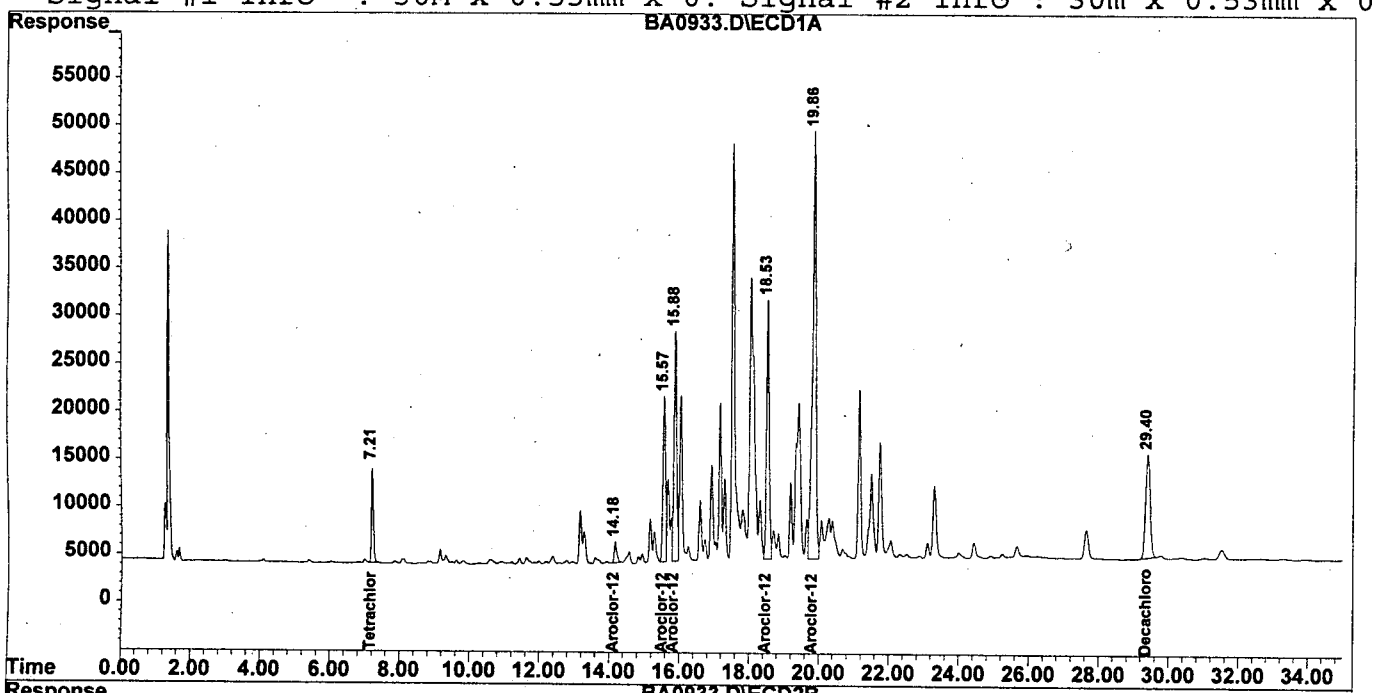
Quantitation Report

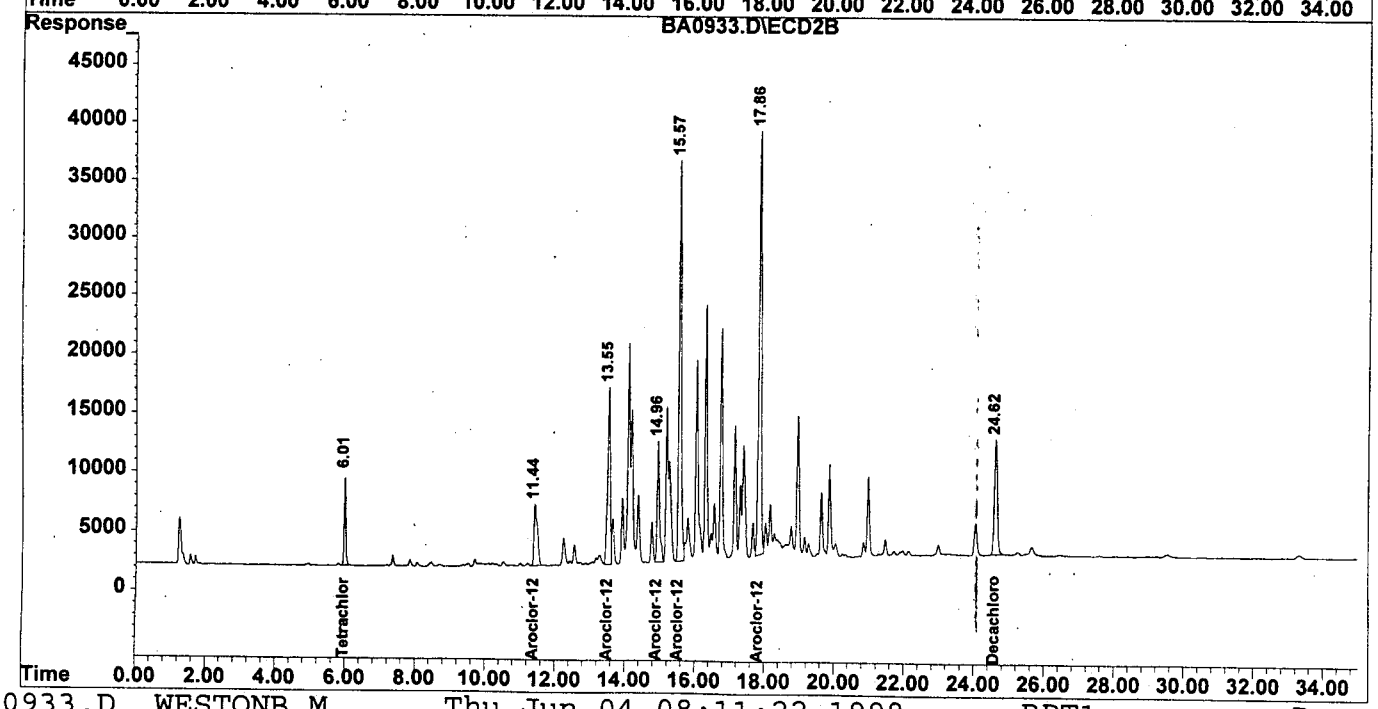
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0933.D\ECD1A.CH Vial: 33
Signal #2 : E:\WESTDA~1\BA0933.D\ECD2B.CH
Acq On : 15 Dec 97 13:25 Operator:
Sample : 278390 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278391
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPSS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	36.07%

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	1400	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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed) AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0922.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_B\BA0922.D\ECD2B.CH
Acq On : 15 Dec 97 6:16 Operator:
Sample : 278391 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:07 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	6.01	402690	255157	44.452	39.394
Spiked Amount 40.000 Range 43 - 150 Recovery =					111.13%	98.49%
2) SA Decachlorobiphen	29.40	24.62	2046724	1120398	136.006	125.635
Spiked Amount 40.000 Range 24 - 154 Recovery =					340.02%#	314.09%#
Target Compounds						
3) L1 Aroclor-1016{1}	9.16	8.92	121486	13708	570.726	47.104 #
4) L1 Aroclor-1016{2}	0.00	10.34	0	40865	N.D.	72.189 #
5) L1 Aroclor-1016{3}	11.99	10.75	48990	23886	59.560	89.146 #
6) L1 Aroclor-1016{4}	0.00	12.25	0	153762	N.D.	599.370 #
7) L1 Aroclor-1016{5}	13.28	14.11	217113	517016	664.910	3505.671 #
Sum Aroclor-1016			387589	749237	1295.195	4313.480
Average Aroclor-1016					431.732	862.696
					NP	NP
10) L2 Aroclor-1221{3}	9.16	0.00	121486	0	401.336	N.D. #
Sum Aroclor-1221			121486	0	401.336	N.D.
Average Aroclor-1221					401.336	0.000
					NP	
11) L3 Aroclor-1232{1}	0.00	8.92	0	13708	N.D.	94.722 #
12) L3 Aroclor-1232{2}	9.16	10.08	121486	40895	594.457	978.919 #
13) L3 Aroclor-1232{3}	0.00	11.49	0	309739	N.D.	3718.309 #
14) L3 Aroclor-1232{4}	11.99	13.20	48990	184559	139.560	3262.209 #
Sum Aroclor-1232			170476	548901	734.017	8054.159
Average Aroclor-1232					367.008	2013.540
					NP	NP
15) L4 Aroclor-1242{1}	9.16	8.92	121486	13708	662.715	54.858 #
16) L4 Aroclor-1242{2}	0.00	10.08	0	40895	N.D.	532.811 #
17) L4 Aroclor-1242{3}	11.43	0.00	48656	0	438.873	N.D. #
18) L4 Aroclor-1242{4}	12.93	12.25	28853	153762	167.501	664.454 #
19) L4 Aroclor-1242{5}	14.17	0.00	112152	0	308.626	N.D. #
Sum Aroclor-1242			311146	208365	1577.715	1252.123
Average Aroclor-1242					394.429	417.374
					NP	NP
20) L5 Aroclor-1248{1}	0.00	10.34	0	40865	N.D.	98.113 #
21) L5 Aroclor-1248{2}	11.99	12.25	48990	153762	87.565	453.735 #
					NP	NP

GC 193

12/16/98

(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\BA0922.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_B\BA0922.D\ECD2B.CH
Acq On : 15 Dec 97 6:16 Operator:
Sample : 278391 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:07 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
22) L5	Aroclor-1248{3}	13.28	12.57	217113	159299	525.292	503.250
23) L5	Aroclor-1248{4}	14.17	13.55	112152	540794	225.959	2009.797 #
24) L5	Aroclor-1248{5}	0.00	15.57	0	1446280	N.D.	11482.774 #
Sum	Aroclor-1248			378255	2341000	838.816	14547.669
Average	Aroclor-1248					279.605	2909.534
25) L6	Aroclor-1254{1}	~~14.17~~	11.49	112152	309739	826.262	1404.918 #
26) L6	Aroclor-1254{2}	15.55	13.55	793348	540794	2151.859	1291.373 #
27) L6	Aroclor-1254{3}	15.88	14.97	838593	467566	1819.687	3127.762 #
28) L6	Aroclor-1254{4}	18.52	15.57	1799392	1446280	4439.739	2976.317 #
29) L6	Aroclor-1254{5}	19.85	17.86	4264195	2132784	4941.104	4693.236
Sum	Aroclor-1254			7807680	4897163	14178.650	13493.606
Average	Aroclor-1254					2835.730	2698.721
30) L7	Aroclor-1260{1}	18.11	16.06	1203850	884443	2313.130	2594.998
31) L7	Aroclor-1260{2}	18.52	16.76	1799392	1016429	2923.239	2500.159
32) L7	Aroclor-1260{3}	20.08	17.86	580744	2132784	1272.760	4135.374 #
33) L7	Aroclor-1260{4}	21.15	19.87	1137671	691238	2441.658	1103.950 #
34) L7	Aroclor-1260{5}	21.74	20.99	1453084	626574	1127.188	1326.526
Sum	Aroclor-1260			6174741	5351468	10077.975	11661.007
Average	Aroclor-1260					2015.595	2332.201

GC 199

12/16/02

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

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0922.D\ECD1A.CH Vial: 22
Signal #2 : E:\WESTDA~1\BA0922.D\ECD2B.CH
Acq On : 15 Dec 97 6:16 Operator:
Sample : 278391 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:20 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	7.20	6.01	397781	248408	42.760	41.109
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.90%	102.77%
2) SA Decachlorobiphen	29.40	24.62	2046724	1102693	135.526	132.734
Spiked Amount 40.000 Range 24 - 154 Recovery =					338.82%#	331.84%#
Target Compounds						
3) L6 Aroclor-1254{1}	~~14.17~~	11.49	96923	310020	~~714.303~~	1395.334 #
4) L6 Aroclor-1254{2}	15.55	13.55	785556	536482	2047.949	1280.055 #
5) L6 Aroclor-1254{3}	15.88	14.97	831971	463604	1580.602	3092.120 #
6) L6 Aroclor-1254{4}	18.52	15.57	1791894	1439055	4179.054	2893.504 #
7) L6 Aroclor-1254{5}	19.85	17.86	4255706	2129291	4900.437	4443.711
Sum Aroclor-1254			7762050	4878452	13422.345	13104.724
Average Aroclor-1254					~~2684.469~~ 3177	2620.945

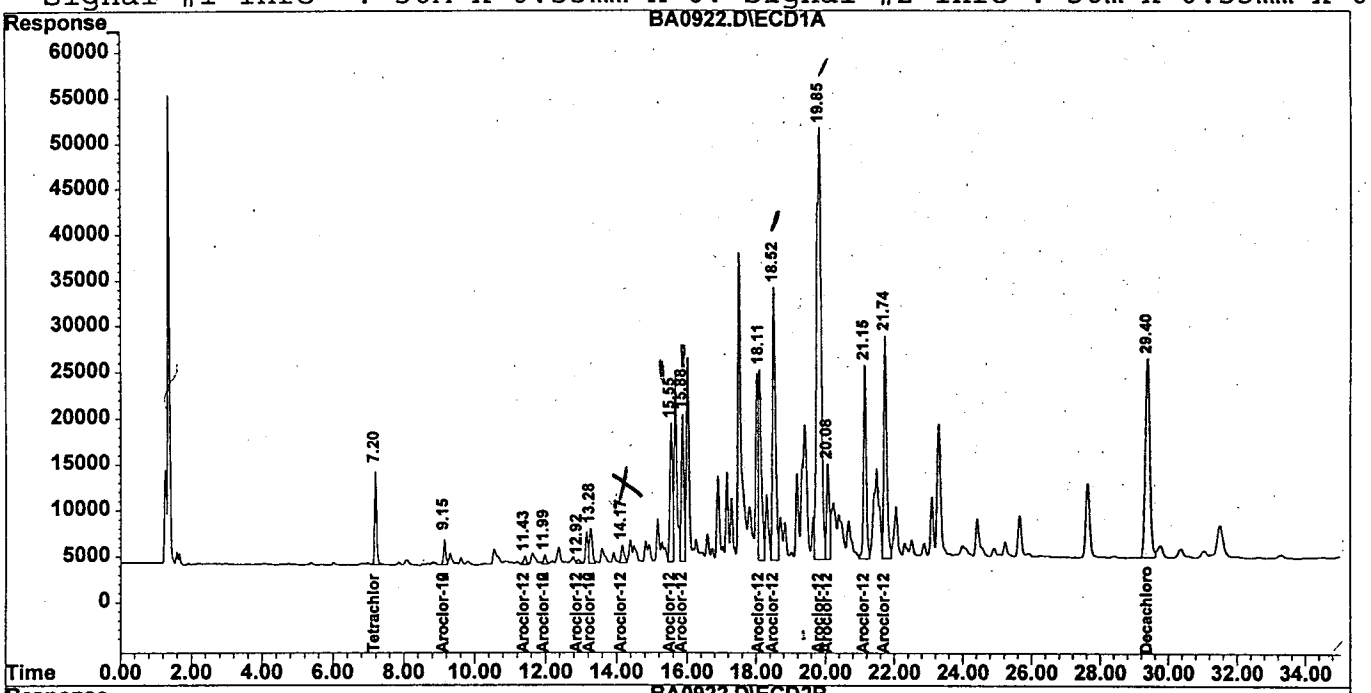
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

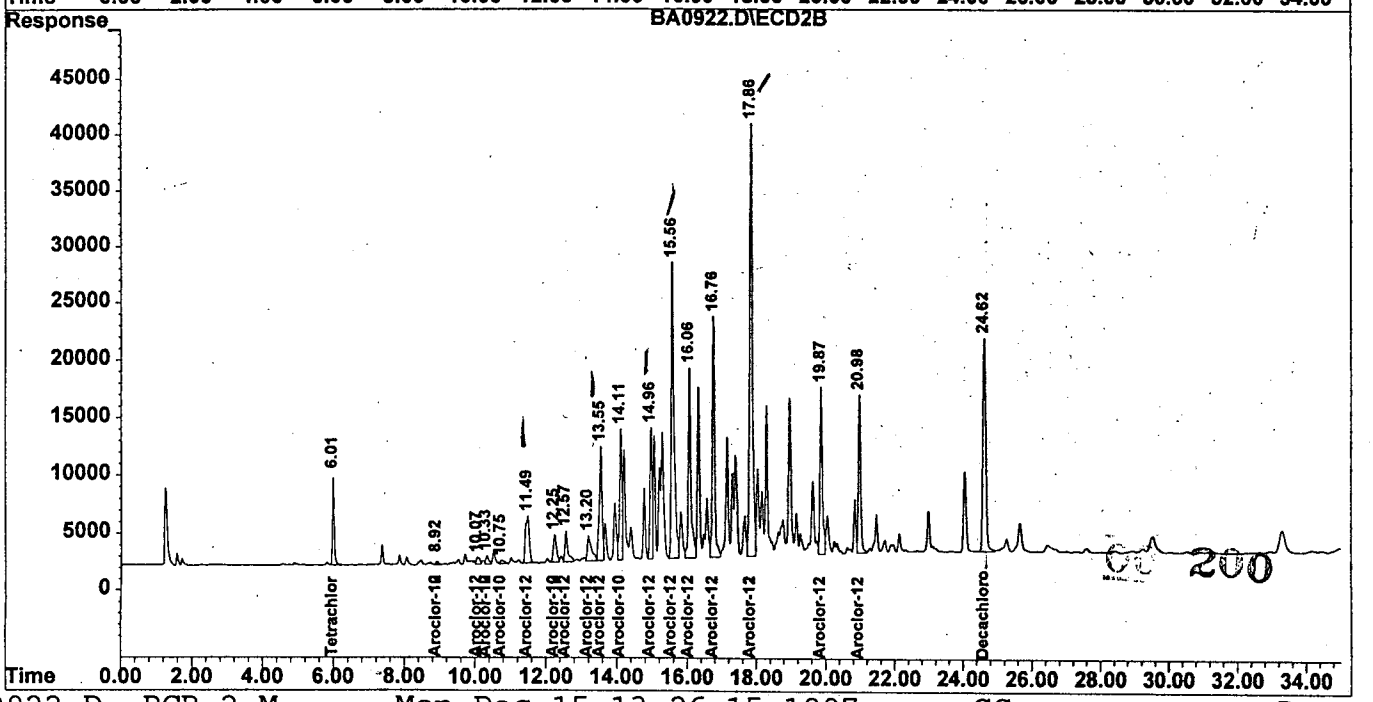
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0922.D\ECD1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA_B\BA0922.D\ECD2B.CH
Acq On : 15 Dec 97 6:16 Operator:
Sample : 278391 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:07 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

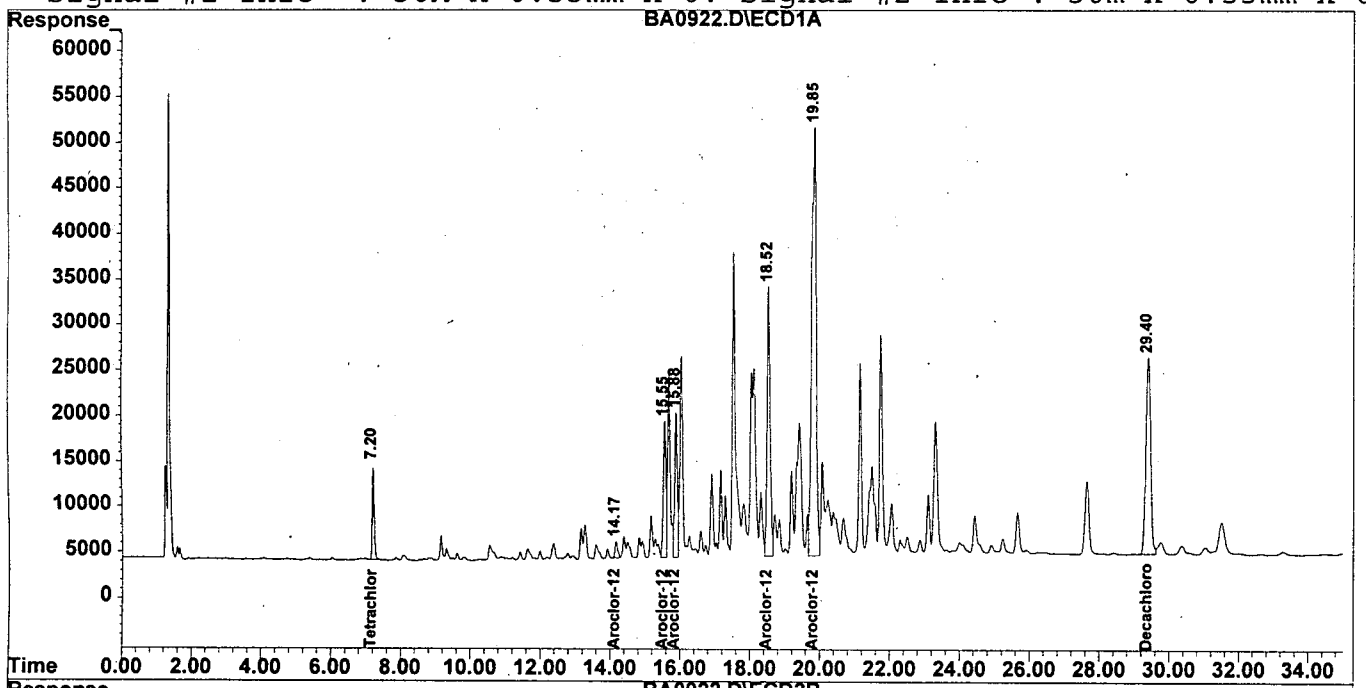
AMENDED REPORT JUN 0 5 1998

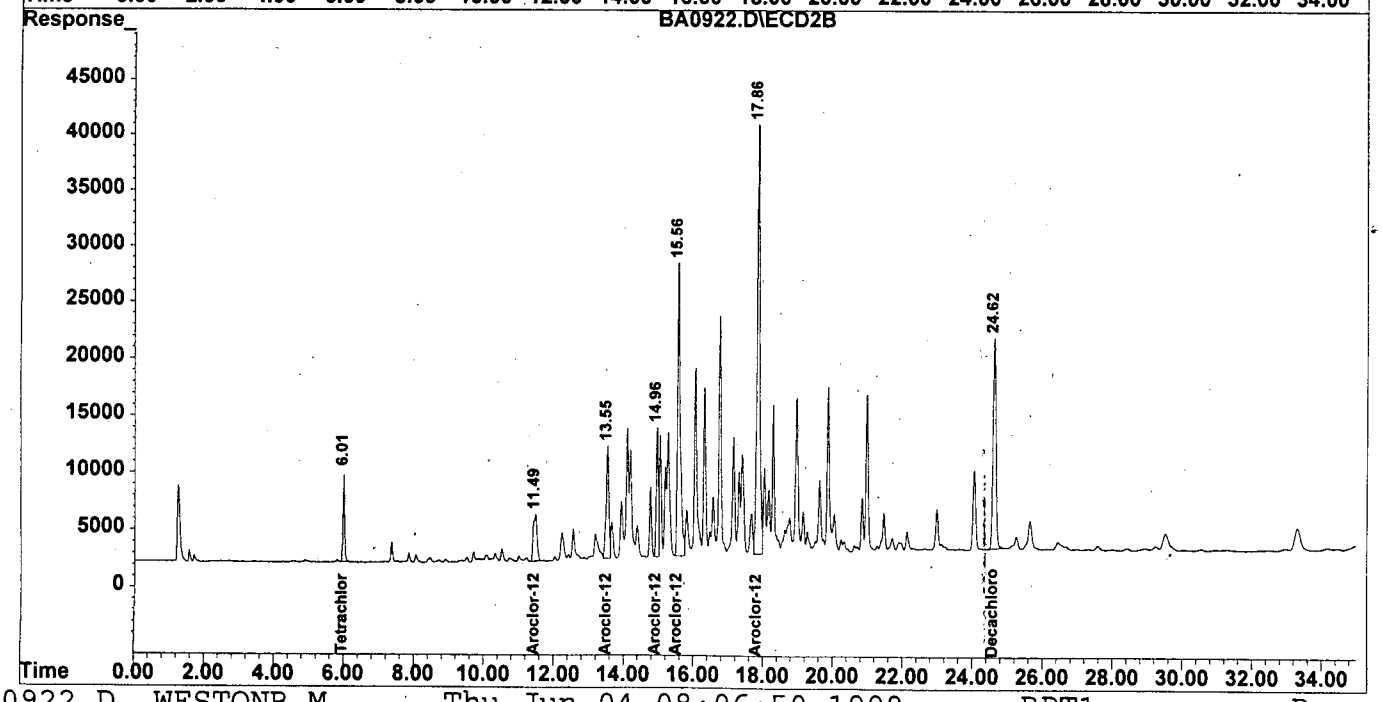
Signal #1 : E:\WESTDA~1\BA0922.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0922.D\ECD2B.CH
Acq On : 15 Dec 97 6:16
Sample : 278391
Misc : QPC7406
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:20 1998 Quant Results File: WESTONB.RES

Vial: 22
Operator:
Inst : GC_5890_2
Multiplr: 1.00

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





200A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 19, 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: 278392
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: PPPPSD2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	30.86%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	48	24
Aroclor-1221	U	U	96	67
Aroclor-1232	U	U	48	38
Aroclor-1242	U	U	48	24
Aroclor-1248	U	U	48	29
Aroclor-1254	~~U~~ 370 J	U	48	34
Aroclor-1260	~~410~~ 390 J	U	48	38

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.
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NEE

J 1254 :: RSD of conc. of 1260
J 1260 :: CCV + 1254.

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0923.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_B\BA0923.D\ECD2B.CH
Acq On : 15 Dec 97 6:55 Operator:
Sample : 278392 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:08 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	7.21	6.01	378438	243294	41.775	37.563	
Spiked Amount 40.000 Range 43 - 150 Recovery =					104.44%	93.91%	
2) SA Decachlorobiphen	29.40	24.62	5306392	2788376	352.613	312.672	
Spiked Amount 40.000 Range 24 - 154 Recovery =					881.53%#	781.68%#	
Target Compounds							
3) L1 Aroclor-1016{1}	9.16	0.00	83760	0	393.495	N.D.	#
6) L1 Aroclor-1016{4}	0.00	12.22	0	66574	N.D.	259.508	#
7) L1 Aroclor-1016{5}	13.26	14.12	36062	106895	110.441	724.808	#
Sum Aroclor-1016			119823	173469	503.936	984.316	
Average Aroclor-1016					251.968	492.158	
					MP	MP	
10) L2 Aroclor-1221{3}	9.16	0.00	83760	0	276.707	N.D.	#
Sum Aroclor-1221			83760	0	276.707	N.D.	
Average Aroclor-1221					276.707	0.000	
					MP		
12) L3 Aroclor-1232{2}	9.16	0.00	83760	0	409.857	N.D.	#
13) L3 Aroclor-1232{3}	0.00	11.49	0	83481	N.D.	1002.158	#
Sum Aroclor-1232			83760	83481	409.857	1002.158	
Average Aroclor-1232					409.857	1002.158	
					MP	MP	
15) L4 Aroclor-1242{1}	9.16	0.00	83760	0	456.919	N.D.	#
17) L4 Aroclor-1242{3}	11.43	0.00	72556	0	654.452	N.D.	#
18) L4 Aroclor-1242{4}	12.93	12.22	17170	66574	99.676	287.687	#
19) L4 Aroclor-1242{5}	14.17	0.00	20155	0	55.463	N.D.	#
Sum Aroclor-1242			193641	66574	1266.510	287.687	
Average Aroclor-1242					316.627	287.687	
					MP	MP	
21) L5 Aroclor-1248{2}	0.00	12.22	0	66574	N.D.	196.453	#
22) L5 Aroclor-1248{3}	13.26	12.57	36062	83235	87.261	262.951	#
23) L5 Aroclor-1248{4}	14.17	13.55	20155	159046	40.607	591.074	#
24) L5 Aroclor-1248{5}	0.00	15.57	0	637102	N.D.	5058.283	#
Sum Aroclor-1248			56217	945956	127.858	6108.761	
Average Aroclor-1248					63.929	1527.190	
					MP	MP	

202

(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\BA0923.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_B\BA0923.D\ECD2B.CH
Acq On : 15 Dec 97 6:55 Operator:
Sample : 278392 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:08 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}	~~14.17~~	~~11.49~~	20155	83481	~~148.488~~	~~378.653~~	#
26) L6	Aroclor-1254{2}	15.54	13.55	772045	159046	2094.079	379.788	#
27) L6	Aroclor-1254{3}	~~15.88~~	~~14.97~~	225900	371409	~~490.187~~	~~2484.523~~	#
28) L6	Aroclor-1254{4}	18.53	15.57	582414	637102	1437.021	1311.099	
29) L6	Aroclor-1254{5}	~~19.85~~	~~17.85~~	1488087	953891	~~1724.310~~	~~2099.057~~	
Sum	Aroclor-1254			3088601	2204928	5894.084	6653.121	
Average	Aroclor-1254					1178.817	1330.624	
						no	no	
30) L7	Aroclor-1260{1}	18.12	16.06	540110	313527	1037.792	919.904	
31) L7	Aroclor-1260{2}	18.53	16.76	582414	306564	946.172	754.070	
32) L7	Aroclor-1260{3}	20.08	17.85	294822	953891	646.134	1849.553	#
33) L7	Aroclor-1260{4}	21.15	19.87	458205	373248	983.394	596.101	#
34) L7	Aroclor-1260{5}	21.74	20.99	811260	577071	629.311	1221.722	#
Sum	Aroclor-1260			2686811	2524301	~~4242.802~~	~~5341.349~~	
Average	Aroclor-1260					~~848.560~~	~~1068.270~~	

AVG = 806.35 908.91

%D = 12

203

JBS 12/16/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0923.D\ECD1A.CH Vial: 23
Signal #2 : E:\WESTDA~1\BA0923.D\ECD2B.CH
Acq On : 15 Dec 97 6:55 Operator:
Sample : 278392 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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	7.21	6.01	374029	237074	40.206	39.233
Spiked Amount 40.000 Range 43 - 150 Recovery =					100.52%	98.08%
2) SA Decachlorobiphen	29.40	24.62	5307187	2743381	351.422	330.227
Spiked Amount 40.000 Range 24 - 154 Recovery =					878.56%#	825.57%#
Target Compounds						
3) L6 Aroclor-1254{1}	~~14.16~~	~~11.49~~	16410	83614	120.939m	376.326 #
4) L6 Aroclor-1254{2}	15.54	13.55	761369	112905	1984.892	269.394 #
5) L6 Aroclor-1254{3}	~~15.88~~	~~14.97~~	218476	371155	415.068	2475.512 #
6) L6 Aroclor-1254{4}	18.53	15.57	580299	633502	1353.372	1273.780
7) L6 Aroclor-1254{5}	~~19.85~~	~~17.85~~	1488087	941227	1713.530	1964.289
Sum Aroclor-1254			3064641	2142403	5587.800	6359.302
Average Aroclor-1254					~~1117.560~~	~~1271.860~~

1669.132 771.587 J

%D = 7A

$\frac{771.587 \times 10}{30 \times (1-0.3086)}$

= 372 ug/kg

TRS 6/4/98

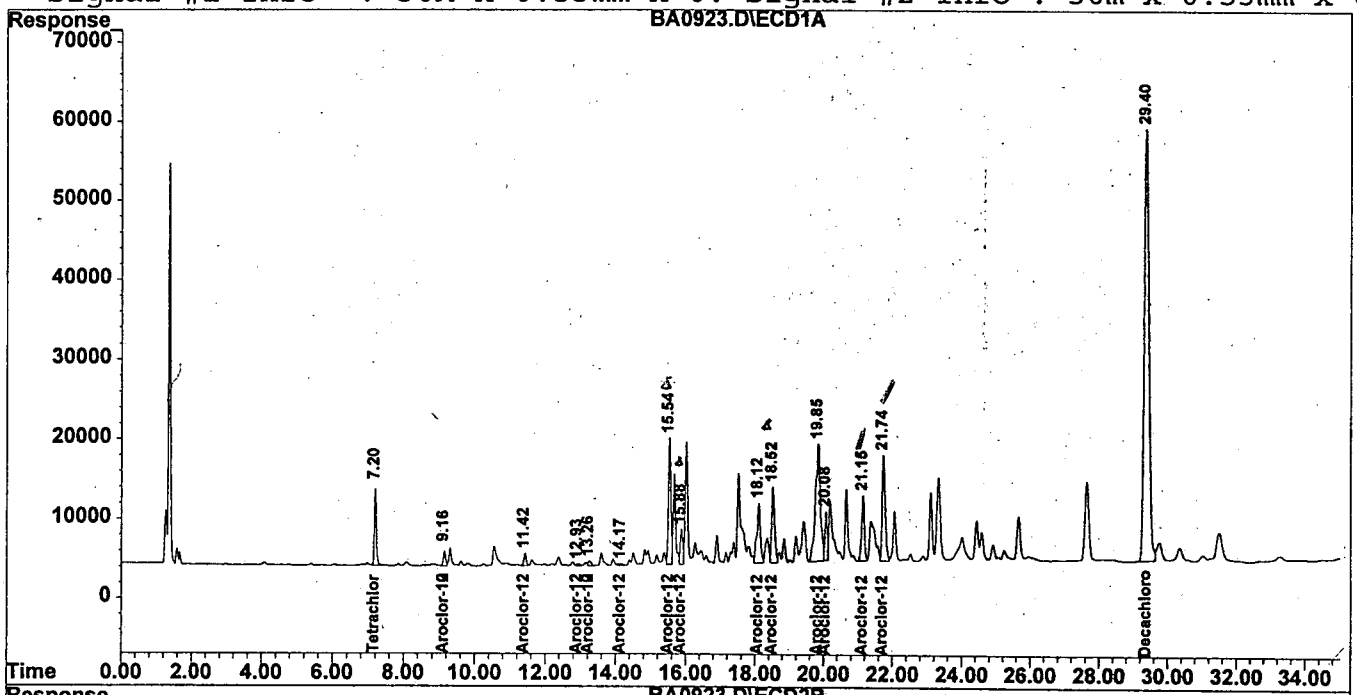
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

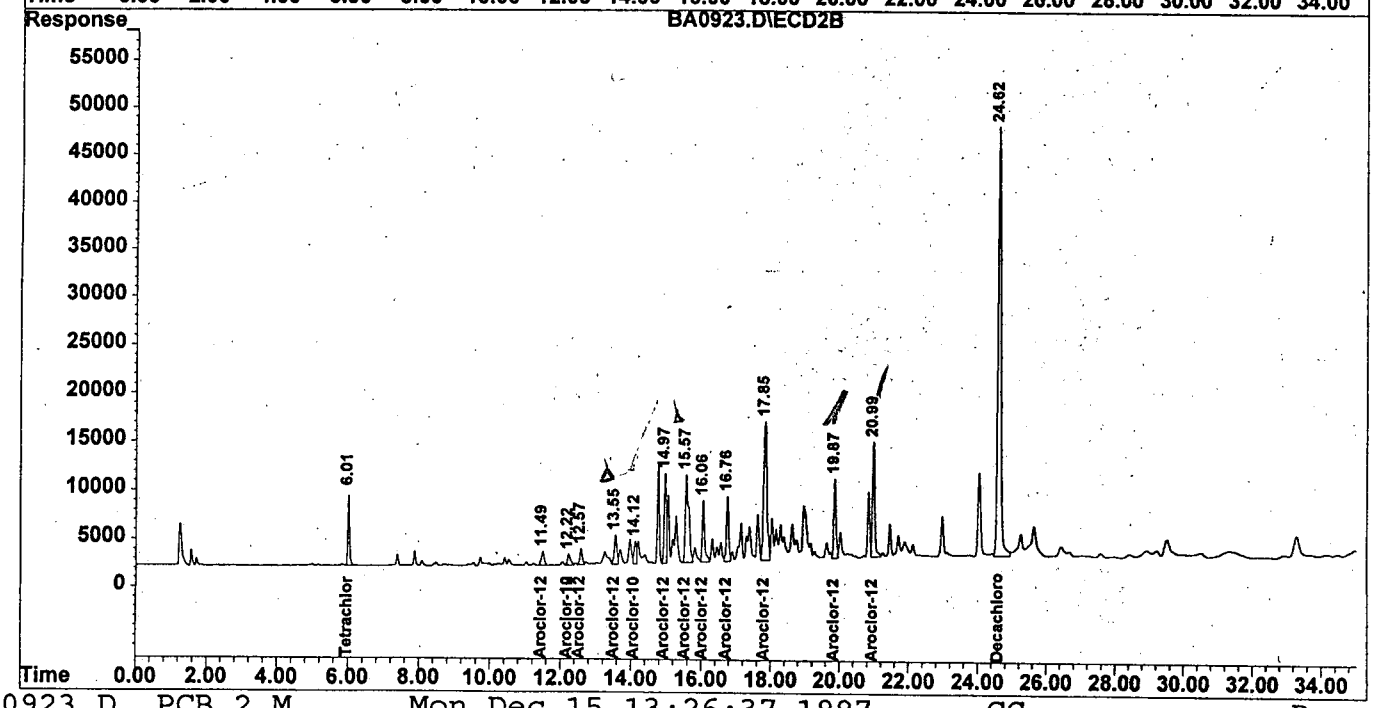
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0923.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_B\BA0923.D\ECD2B.CH
Acq On : 15 Dec 97 6:55 Operator:
Sample : 278392 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:08 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





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Quantitation Report

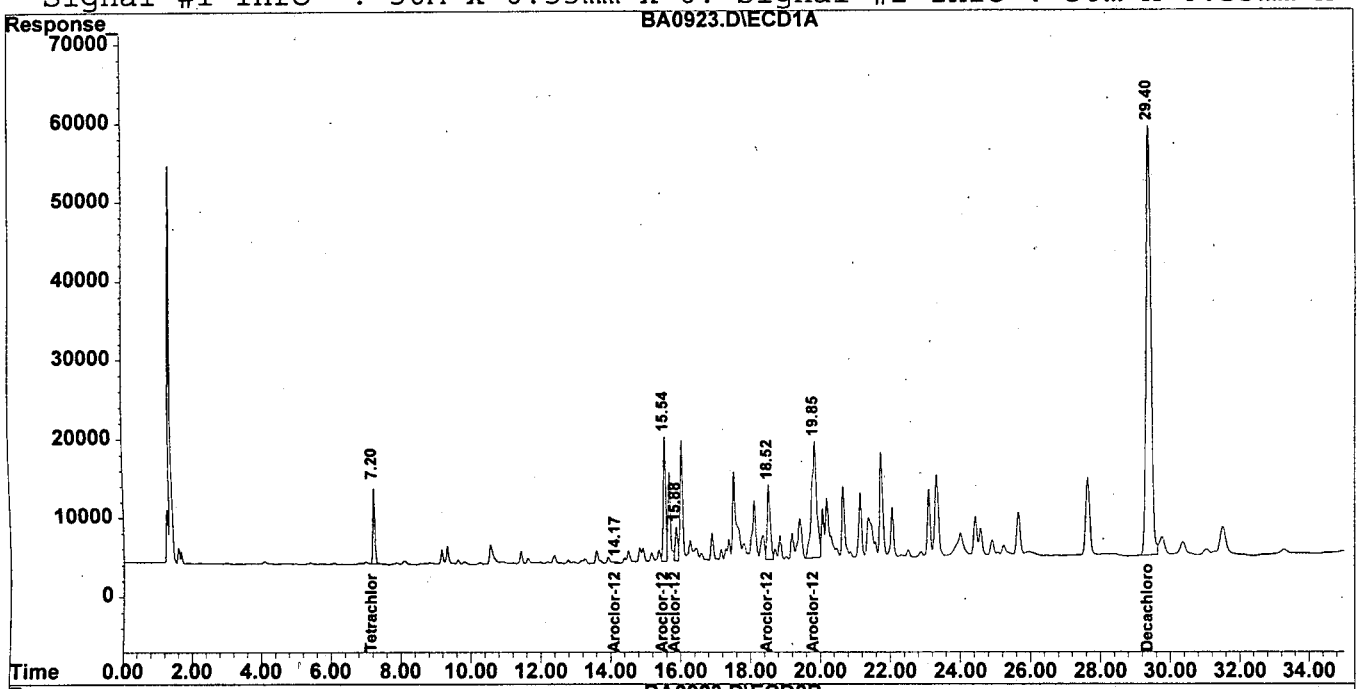
AMENDED REPORT JUN 0 5 1998

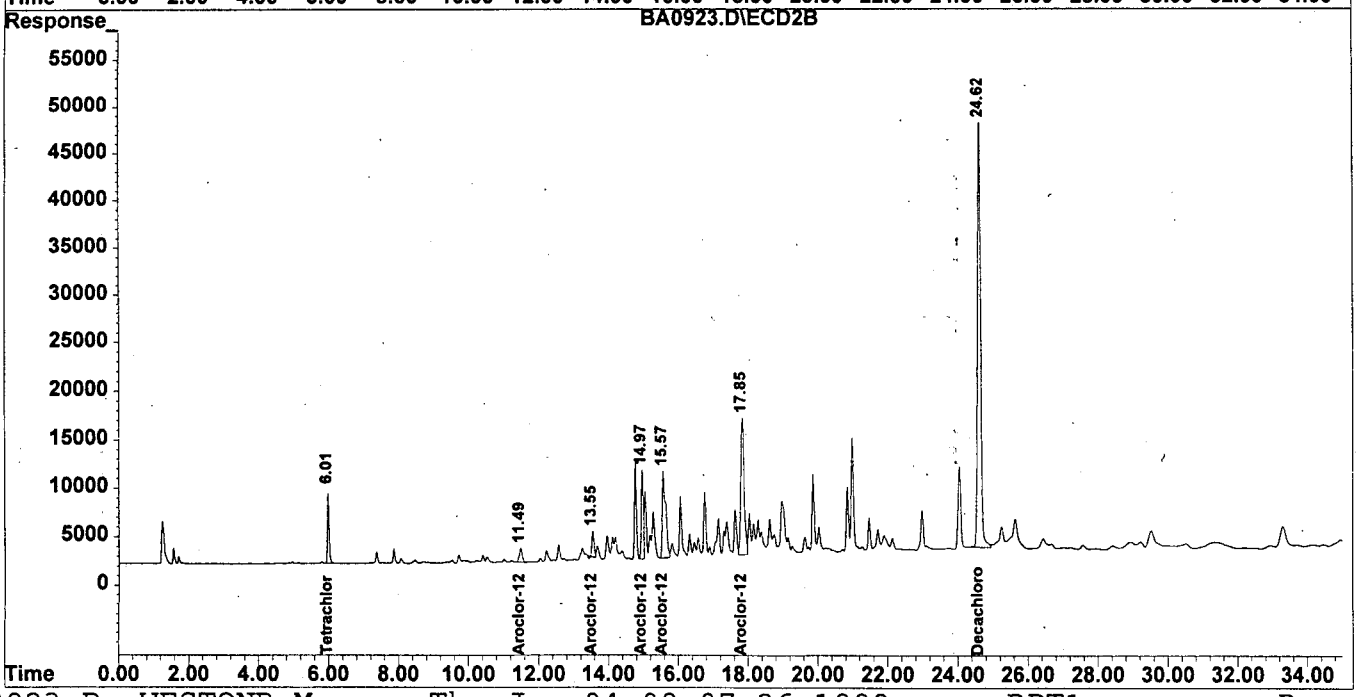
Signal #1 : E:\WESTDA~1\BA0923.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0923.D\ECD2B.CH
Acq On : 15 Dec 97 6:55
Sample : 278392
Misc : QPC7406
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 1998 Quant Results File: WESTONB.RES

Vial: 23
Operator:
Inst : GC_5890_2
Multiplr: 1.00

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





204A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278393
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	44.69%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	60	30
Aroclor-1221	U	U	120	84
Aroclor-1232	U	U	60	48
Aroclor-1242	U	U	60	30
Aroclor-1248	U	U	60	36
Aroclor-1254	980	U	60	42
Aroclor-1260	U	U	60	48

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0924.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA0924.D\ECD2B.CH
Acq On : 15 Dec 97 7:34 Operator:
Sample : 278393 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:13 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	6.00	384966	251591	42.495	38.844	
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.24%	97.11%	
2) SA Decachlorobiphen	29.40	24.62	676167	407075	44.932	45.647m	
Spiked Amount 40.000 Range 24 - 154 Recovery =					112.33%	114.12%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.15	8.92	127691	68597	599.878	235.713	#
4) L1 Aroclor-1016{2}	10.67	10.33	102711	114925	217.848	203.017	
5) L1 Aroclor-1016{3}	11.99	10.74	193674	106954	235.460	399.169	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	283951	N.D.	1106.853	#
7) L1 Aroclor-1016{5}	13.28	14.11	489108	399383	1497.895	2708.050	#
Sum Aroclor-1016			913184	973810	2551.081	4652.803	
Average Aroclor-1016					637.770	930.561	
10) L2 Aroclor-1221{3}	9.15	7.68	127691	6003	421.836	24.612	#
Sum Aroclor-1221			127691	6003	421.836	24.612	
Average Aroclor-1221					421.836	24.612	
11) L3 Aroclor-1232{1}	0.00	8.92	0	68597	N.D.	473.997	#
12) L3 Aroclor-1232{2}	9.15	10.07	127691	151292	624.822	3621.559	#
13) L3 Aroclor-1232{3}	10.67	11.44	102711	291943	473.221	3504.675	#
14) L3 Aroclor-1232{4}	11.99	13.18	193674	51876	551.725	916.935	#
Sum Aroclor-1232			424076	563708	1649.768	8517.167	
Average Aroclor-1232					549.923	2129.292	
15) L4 Aroclor-1242{1}	9.15	8.92	127691	68597	696.567	274.512	#
16) L4 Aroclor-1242{2}	10.67	10.07	102711	151292	280.109	1971.160	#
17) L4 Aroclor-1242{3}	11.37	11.10	57903	20101	522.282	124.612	#
18) L4 Aroclor-1242{4}	12.92	12.26	45119	283951	261.928	1227.043	#
19) L4 Aroclor-1242{5}	14.17	0.00	354533	0	975.627	N.D.	#
Sum Aroclor-1242			687957	523941	2736.513	3597.327	
Average Aroclor-1242					547.303	899.332	
20) L5 Aroclor-1248{1}	10.67	10.33	102711	114925	529.450	275.925	#
21) L5 Aroclor-1248{2}	11.99	12.26	193674	283951	346.172	837.910	#

(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\BA0924.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA0924.D\ECD2B.CH
Acq On : 15 Dec 97 7:34 Operator:
Sample : 278393 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:13 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	
22) L5 Aroclor-1248{3}	13.28	12.56	489108	163434	1183.368	516.314	#
23) L5 Aroclor-1248{4}	14.17	13.55	354533	609705	714.300	2265.895	#
24) L5 Aroclor-1248{5}	16.18	15.57	124734	805287	330.847	6393.595	#
Sum Aroclor-1248			1264759	1977303	3104.137	10289.639	
Average Aroclor-1248					620.827	2057.928	
25) L6 Aroclor-1254{1}	14.17	11.44	354533	291943	2611.972	1324.199	#
26) L6 Aroclor-1254{2}	15.56	13.55	746075	609705	2023.636	1455.926	#
27) L6 Aroclor-1254{3}	15.88	14.96	675075	337830	1464.866	2259.900	#
28) L6 Aroclor-1254{4}	18.53	15.57	578331	805287	1426.949	1657.210	
29) L6 Aroclor-1254{5}	19.86	17.86	1086320	739246	1258.766	1626.726	#
Sum Aroclor-1254			3440335	2784011	8786.189	8323.961	
Average Aroclor-1254					1757.238	1664.792	
30) L7 Aroclor-1260{1}	0.00	16.06	0	378357	N.D.	1110.118	#
31) L7 Aroclor-1260{2}	18.53	16.76	578331	342786	939.540	843.167	
32) L7 Aroclor-1260{3}	20.08	17.86	98503	739246	215.880	1433.366	#
33) L7 Aroclor-1260{4}	21.16	19.87	359878	128199	772.366	204.741	#
34) L7 Aroclor-1260{5}	21.74	20.98	218646	177929	169.608	376.695	#
Sum Aroclor-1260			1255358	1766517	2097.394	3968.087	
Average Aroclor-1260					524.348	793.617	

207

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0924.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\BA0924.D\ECD2B.CH
Acq On : 15 Dec 97 7:34 Operator:
Sample : 278393 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:21 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	7.20	6.00	379018	240995	40.743	39.882	
Spiked Amount 40.000 Range 43 - 150 Recovery =					101.86%	99.71%	
2) SA Decachlorobiphen	29.40	24.62	676167	437654	44.773	52.681	
Spiked Amount 40.000 Range 24 - 154 Recovery =					111.93%	131.70%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.17	11.44	326047	286660	2402.908	1290.193	#
4) L6 Aroclor-1254{2}	15.56	13.55	720668	608540	1878.786	1451.989	
5) L6 Aroclor-1254{3}	15.88	14.96	657272	337787	1248.703	2252.955	#
6) L6 Aroclor-1254{4}	18.53	15.57	575962	805444	1343.259	1619.504	
7) L6 Aroclor-1254{5}	19.86	17.86	1086313	739203	1250.887	1542.676	
Sum Aroclor-1254			3366262	2777635	~~8124.543~~	8157.317	
Average Aroclor-1254					1624.909	1631.463	

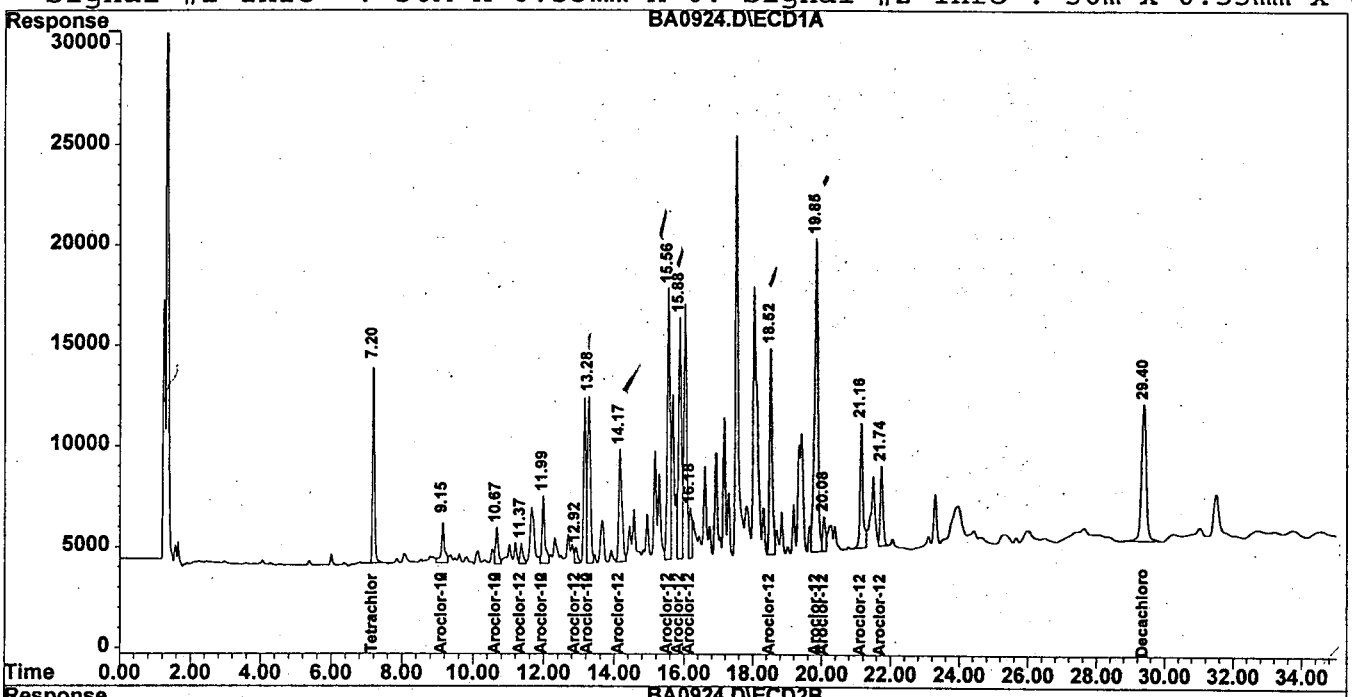
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

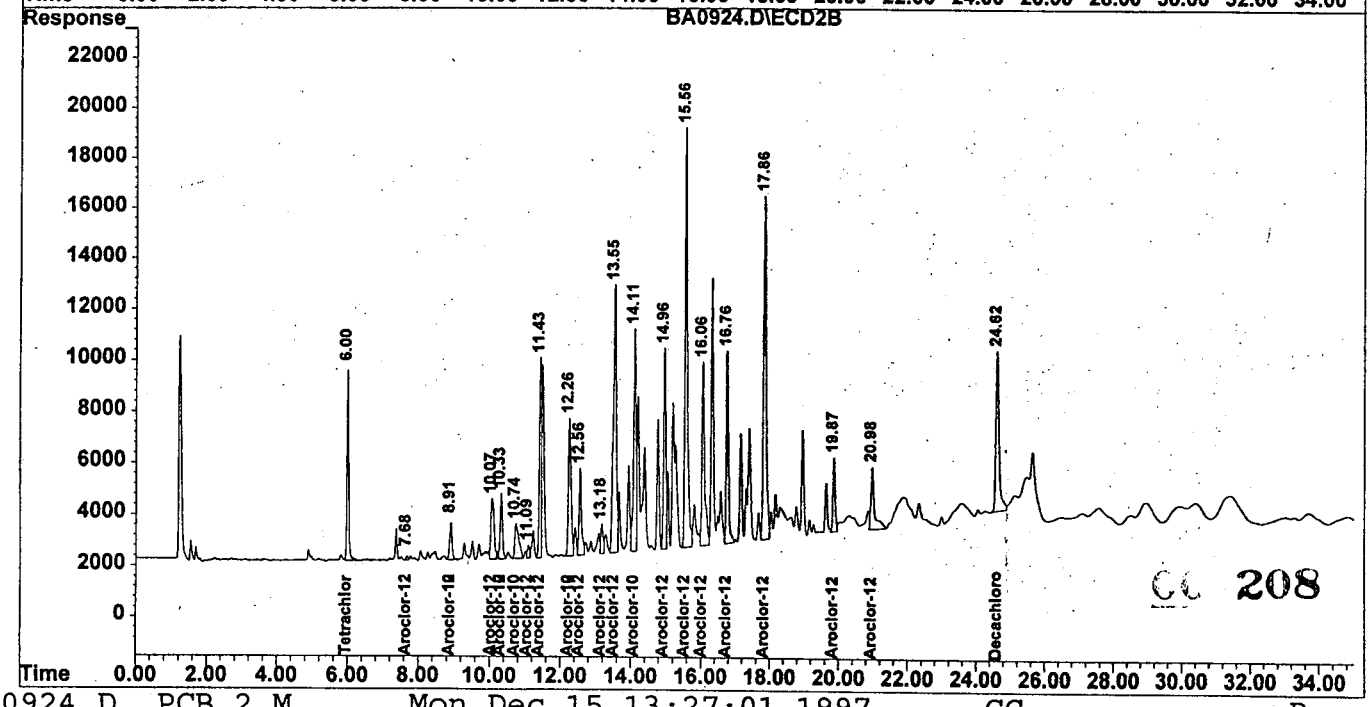
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0924.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA0924.D\ECD2B.CH
Acq On : 15 Dec 97 7:34 Operator:
Sample : 278393 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:13 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 208

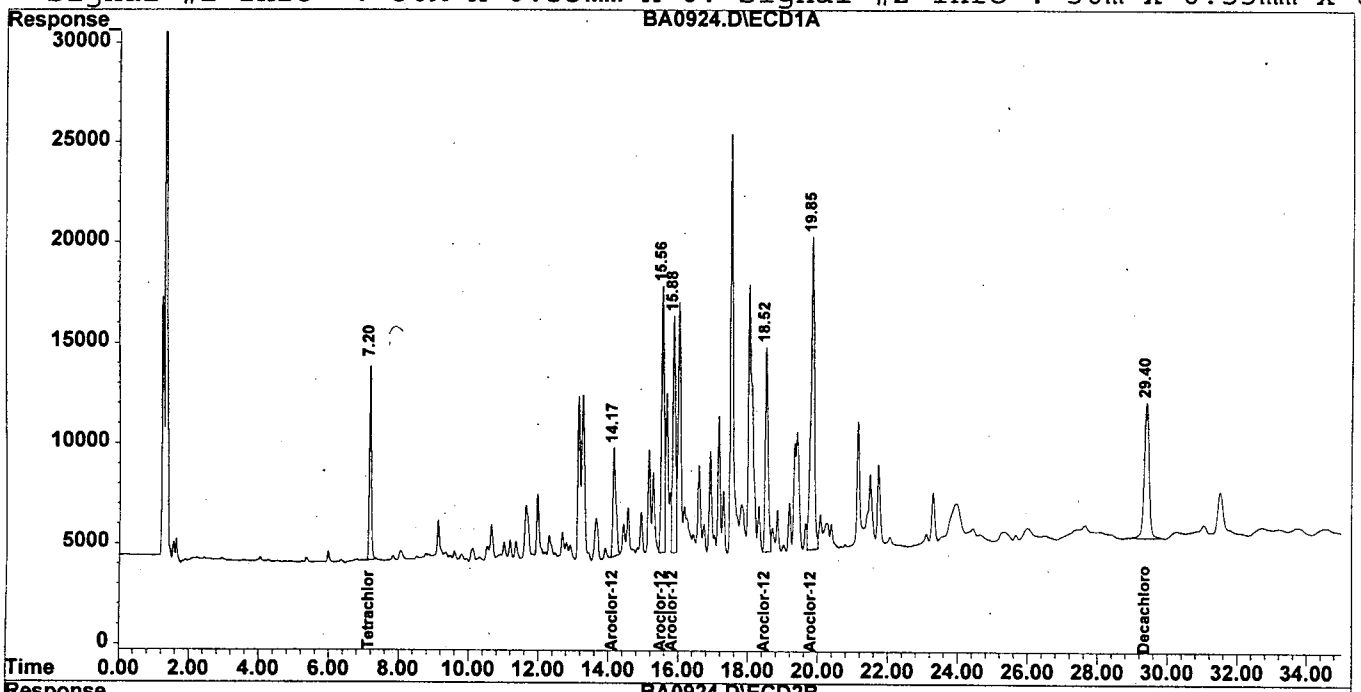
Quantitation Report

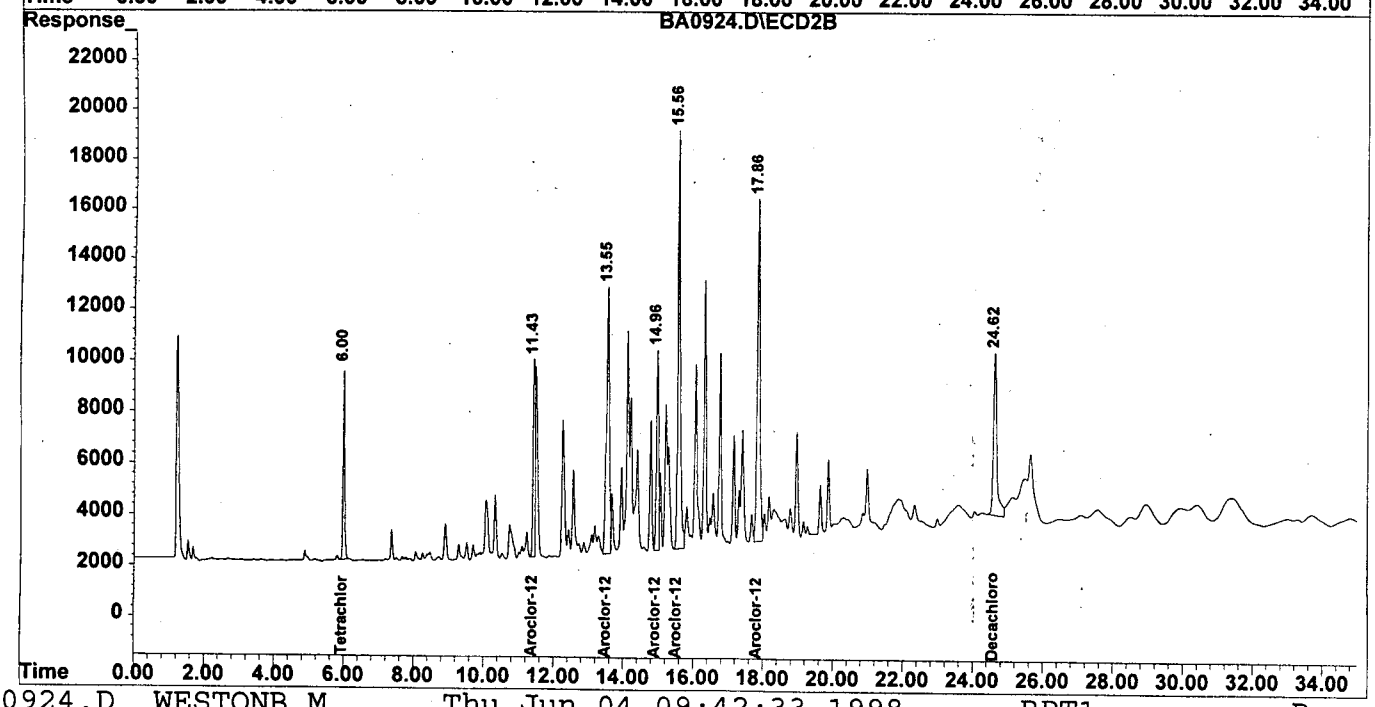
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0924.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\BA0924.D\ECD2B.CH
Acq On : 15 Dec 97 7:34 Operator:
Sample : 278393 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:21 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





208A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278394
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	24.78%

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	89	62
Aroclor-1232	U	U	44	35
Aroclor-1242	U	U	44	22
Aroclor-1248	U	U	44	26
Aroclor-1254	440	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.
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ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0925.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_B\BA0925.D\ECD2B.CH
Acq On : 15 Dec 97 8:13 Operator:
Sample : 278394 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:15 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	6.01	402756	258981	44.459m	39.985m	
Spiked Amount 40.000 Range 43 - 150 Recovery =					111.15%	99.96%	
2) SA Decachlorobiphen	29.40	24.62	645065	409085	42.865	45.872	
Spiked Amount 40.000 Range 24 - 154 Recovery =					107.16%	114.68%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.24	8.92	18470	36670	86.770	126.005	#
4) L1 Aroclor-1016{2}	10.67	10.34	58294	60525	123.641	106.919	
5) L1 Aroclor-1016{3}	11.99	10.75	92902	55786	112.946	208.204	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	176873	N.D.	689.457	#
7) L1 Aroclor-1016{5}	13.28	14.11	306246	252755	937.881	1713.829	#
Sum Aroclor-1016			475913	582610	1261.238	2844.414	
Average Aroclor-1016					315.309	568.883	
10) L2 Aroclor-1221{3}	9.24	0.00	18470	0	61.017	N.D.	#
Sum Aroclor-1221			18470	0	61.017	N.D.	
Average Aroclor-1221					61.017	0.000	
11) L3 Aroclor-1232{1}	0.00	8.92	0	36670	N.D.	253.384	#
12) L3 Aroclor-1232{2}	9.24	10.07	18470	82686	90.378	1979.305	#
13) L3 Aroclor-1232{3}	10.67	11.44	58294	196763	268.580	2362.078	#
14) L3 Aroclor-1232{4}	11.99	13.18	92902	27271	264.654	482.033	#
Sum Aroclor-1232			169667	343390	623.611	5076.800	
Average Aroclor-1232					207.870	1269.200	
15) L4 Aroclor-1242{1}	9.24	8.92	18470	36670	100.756	146.745	#
16) L4 Aroclor-1242{2}	10.67	10.07	58294	82686	158.978	1077.306	#
17) L4 Aroclor-1242{3}	11.37	11.10	21010	7965	189.506	49.781	#
18) L4 Aroclor-1242{4}	0.00	12.26	0	176873	N.D.	764.324	#
19) L4 Aroclor-1242{5}	14.17	0.00	198035	0	544.965	N.D.	#
Sum Aroclor-1242			295809	304194	994.204	2037.755	
Average Aroclor-1242					248.551	509.439	
20) L5 Aroclor-1248{1}	10.67	10.34	58294	60525	300.493	145.316	#
21) L5 Aroclor-1248{2}	11.99	12.26	92902	176873	166.053	521.933	#

210

(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\BA0925.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_B\BA0925.D\ECD2B.CH
Acq On : 15 Dec 97 8:13 Operator:
Sample : 278394 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:15 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	
22) L5	Aroclor-1248{3}	13.28	12.56	306246	93854	740.945	296.500	#
23) L5	Aroclor-1248{4}	14.17	13.55	198035	375979	398.993	1397.281	#
24) L5	Aroclor-1248{5}	16.18	15.57	44103	503559	116.980	3998.015	#
Sum	Aroclor-1248			699580	1210790	1723.464	6359.044	
Average	Aroclor-1248					344.693	1271.809	
						NO	NO	
25) L6	Aroclor-1254{1}	14.17	11.44	198035	196763	1458.994	892.483	#
26) L6	Aroclor-1254{2}	15.56	13.55	425423	375979	1153.909	897.808	
27) L6	Aroclor-1254{3}	15.88	14.96	399653	190337	867.219	1273.249	#
28) L6	Aroclor-1254{4}	18.53	15.57	350360	503559	864.462	1036.279	
29) L6	Aroclor-1254{5}	19.86	17.86	675866	472421	783.154	1039.572	#
Sum	Aroclor-1254			2049337	1739058	5127.738	5139.390	
Average	Aroclor-1254					1025.548	1027.878	
30) L7	Aroclor-1260{1}	0.00	16.06	0	245889	N.D.	721.450	#
31) L7	Aroclor-1260{2}	18.53	16.76	350360	230449	569.184	566.847	
32) L7	Aroclor-1260{3}	20.08	17.86	71401	472421	156.482	916.003	#
33) L7	Aroclor-1260{4}	21.16	19.88	224029	70785	480.809	113.047	#
34) L7	Aroclor-1260{5}	21.74	20.98	151739	78583	117.707	166.369	#
Sum	Aroclor-1260			797529	1098127	1324.182	2483.717	
Average	Aroclor-1260					331.046	496.743	
						NO	NO	

00 211

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0925.D\ECD1A.CH Vial: 25
Signal #2 : E:\WESTDA~1\BA0925.D\ECD2B.CH
Acq On : 15 Dec 97 8:13 Operator:
Sample : 278394 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:21 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	7.20	6.01	402161	255455	43.231	42.275	
Spiked Amount 40.000 Range 43 - 150 Recovery =					108.08%	105.69%	
2) SA Decachlorobiphen	29.40	24.62	645065	373696	42.714	44.983	
Spiked Amount 40.000 Range 24 - 154 Recovery =					106.79%	112.46%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.17	11.44	198637	193605	1463.921	871.373	#
4) L6 Aroclor-1254{2}	15.56	13.55	425423	375464	1109.081	895.865	
5) L6 Aroclor-1254{3}	15.88	14.96	399653	187679	759.272	1251.773	#
6) L6 Aroclor-1254{4}	18.53	15.57	350360	495178	817.109	995.654	
7) L6 Aroclor-1254{5}	19.86	17.86	675866	467799	778.258	976.269	#
Sum Aroclor-1254			2049939	1719725	4927.640	4990.934	
Average Aroclor-1254					985.528	998.187	

7B 6/4/98

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

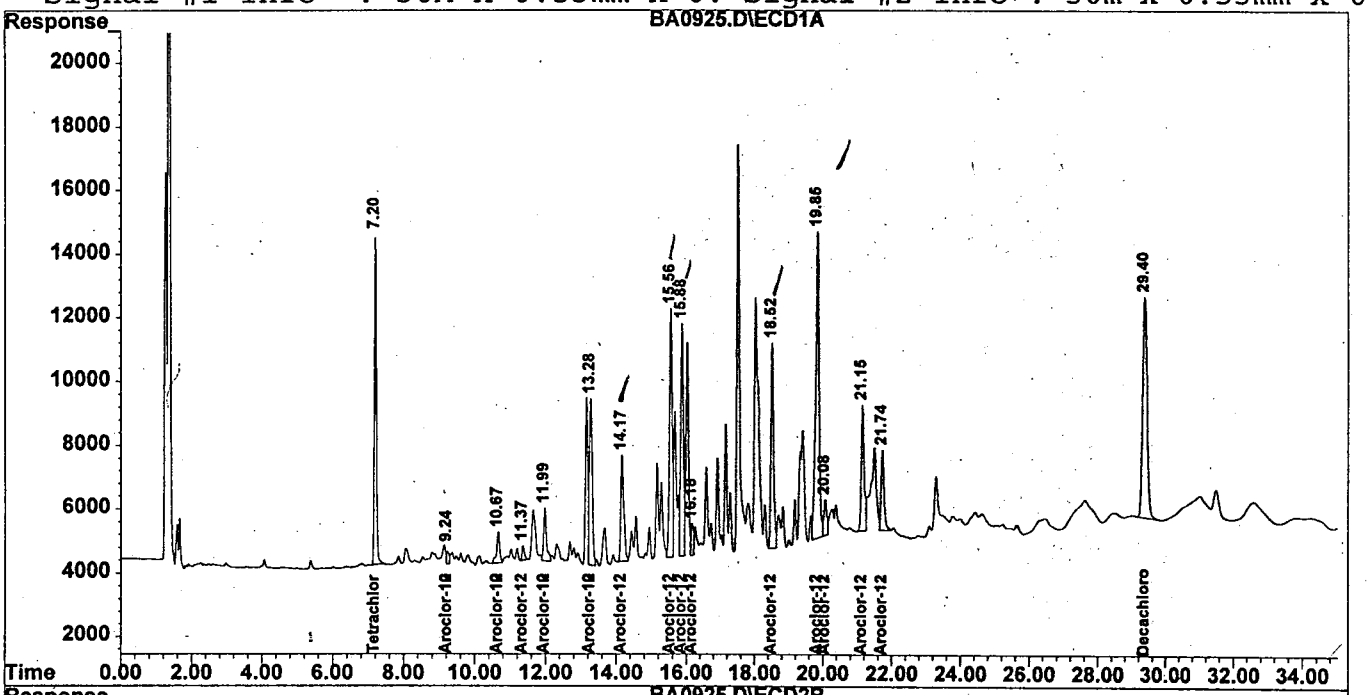
211A

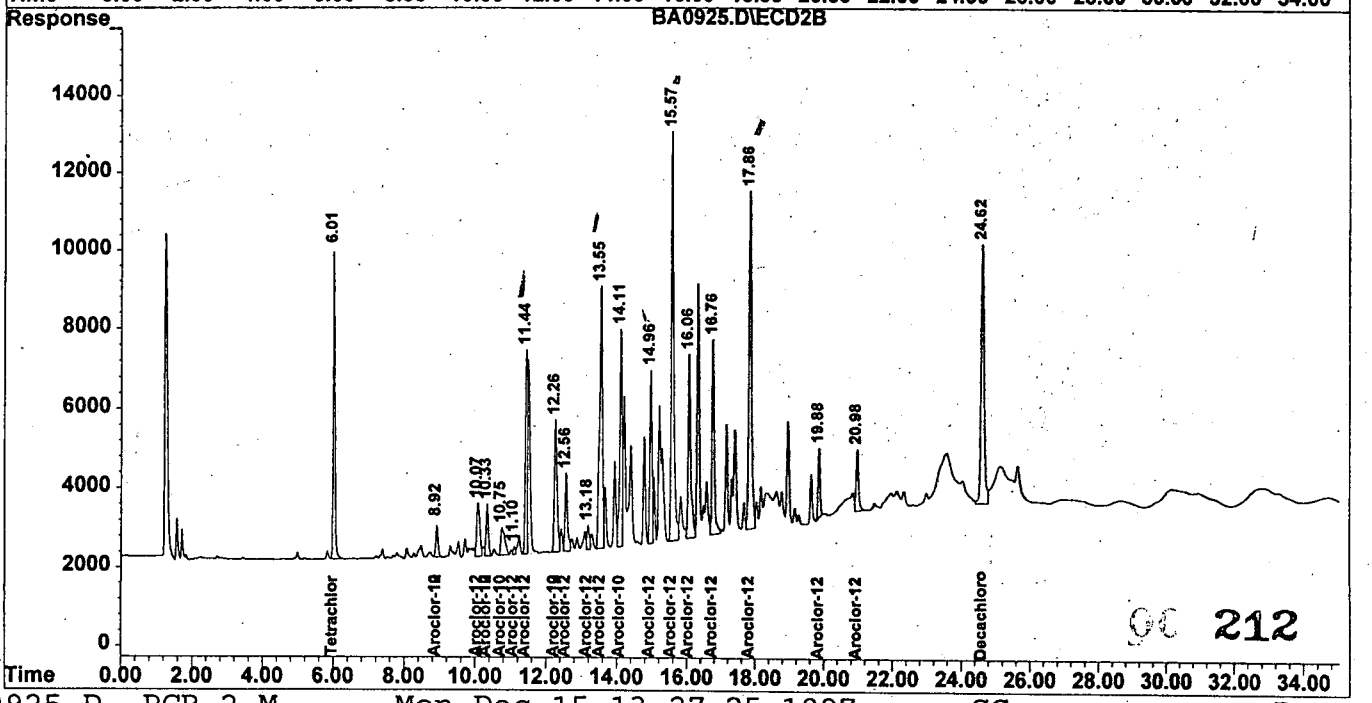
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0925.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA_B\BA0925.D\ECD2B.CH
Acq On : 15 Dec 97 8:13 Operator:
Sample : 278394 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:15 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





GC 212

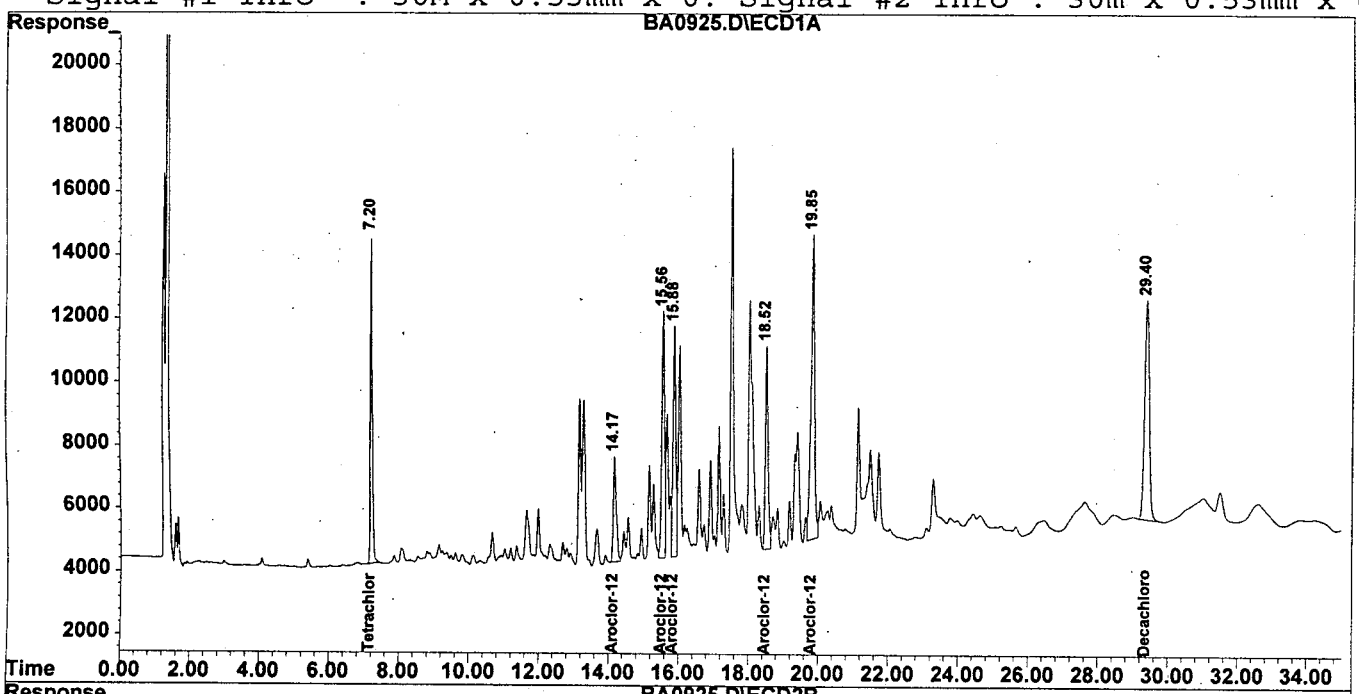
Quantitation Report

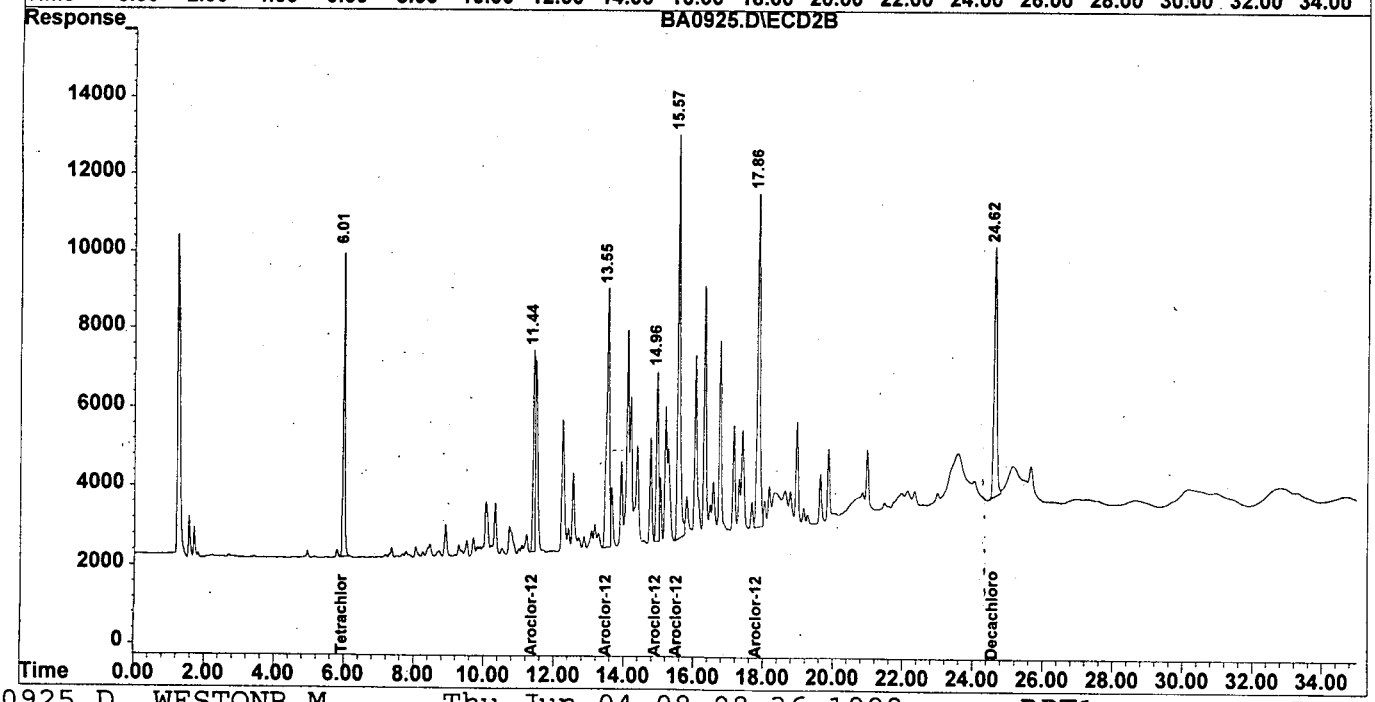
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0925.D\ECD1A.CH Vial: 25
Signal #2 : E:\WESTDA~1\BA0925.D\ECD2B.CH
Acq On : 15 Dec 97 8:13 Operator:
Sample : 278394 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:21 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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278395
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQSS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	15.51%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	39	20
Aroclor-1221	U	U	79	55
Aroclor-1232	U	U	39	32
Aroclor-1242	U	U	39	20
Aroclor-1248	U	U	39	24
Aroclor-1254	1700 J	U	39	28
Aroclor-1260	U	U	39	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.
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LOU

J 1254: pk conc >5000

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0926.D\ECD1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA_B\BA0926.D\ECD2B.CH
Acq On : 15 Dec 97 8:52 Operator:
Sample : 278395 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:16 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	7.21	6.01	374507	241167	41.341	37.234	
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.35%	93.09%	
2) SA Decachlorobiphen	29.40	24.62	605650	365073	40.246	40.937	
Spiked Amount 40.000 Range 24 - 154 Recovery =					100.62%	102.34%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.16	8.92	156873	39534	736.971	135.847	#
4) L1 Aroclor-1016{2}	10.67	10.33	76127	91589	161.464	161.793	
5) L1 Aroclor-1016{3}	11.99	10.74	114346	144584	139.017	539.610	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	295212	N.D.	1150.748	#
7) L1 Aroclor-1016{5}	13.28	14.11	644486	1135978	1973.743	7702.592	#
Sum Aroclor-1016			991832	1706896	3011.194	9690.591	
Average Aroclor-1016					752.798	1938.118	
					no	no	
9) L2 Aroclor-1221{2}	0.00	7.53	0	5125	N.D.	72.683	#
10) L2 Aroclor-1221{3}	9.16	0.00	156873	0	518.240	N.D.	#
Sum Aroclor-1221			156873	5125	518.240	72.683	
Average Aroclor-1221					518.240	72.683	
					no	no	
11) L3 Aroclor-1232{1}	0.00	8.92	0	39534	N.D.	273.176	#
12) L3 Aroclor-1232{2}	9.16	10.12	156873	183807	767.615	4399.883	#
13) L3 Aroclor-1232{3}	10.67	11.48	76127	748915	350.740	8990.466	#
14) L3 Aroclor-1232{4}	11.99	13.19	114346	99063	325.742	1750.997	#
Sum Aroclor-1232			347346	1071318	1444.097	15414.523	
Average Aroclor-1232					481.366	3853.631	
					no	no	
15) L4 Aroclor-1242{1}	9.16	8.92	156873	39534	855.756	158.208	#
16) L4 Aroclor-1242{2}	10.67	10.12	76127	183807	207.611	2394.790	#
17) L4 Aroclor-1242{3}	11.42	11.10	38903	14085	350.906	87.316	#
18) L4 Aroclor-1242{4}	12.92	12.26	36699	295212	213.052	1275.705	#
19) L4 Aroclor-1242{5}	14.17	0.00	277595	0	763.903	N.D.	#
Sum Aroclor-1242			586198	532638	2391.227	3916.018	
Average Aroclor-1242					478.245	979.004	
					no	no	
20) L5 Aroclor-1248{1}	10.67	10.33	76127	91589	392.416	219.896	#
					no	no	

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(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\BA0926.D\ECD1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA_B\BA0926.D\ECD2B.CH
Acq On : 15 Dec 97 8:52 Operator:
Sample : 278395 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:16 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}	11.99	12.26	114346	295212	204.382	871.139 #
22) L5	Aroclor-1248{3}	13.28	12.56	644486	167735	1559.297	529.900 #
23) L5	Aroclor-1248{4}	14.17	13.54	277595	1317595	559.288	4896.684 #
24) L5	Aroclor-1248{5}	0.00	15.56	0	2417292	N.D.	19192.138 #
Sum	Aroclor-1248			1112554	4289422	2715.382	25709.758
Average	Aroclor-1248					678.846	5141.952
25) L6	Aroclor-1254{1}	14.17	11.44	277595	284230	2045.141	1289.215m#
26) L6	Aroclor-1254{2}	15.55	13.54	2354197	1317595	6385.473	3146.311 #
27) L6	Aroclor-1254{3}	16.88	14.96	1831972	956601	3975.251	6399.145 #
28) L6	Aroclor-1254{4}	18.52	15.56	2350982	2417292	5800.706	4974.571
29) L6	Aroclor-1254{5}	19.85	17.86	4715371	2903717	5463.901	6389.690
Sum	Aroclor-1254			11530117	7879434	23670.471	22198.932
Average	Aroclor-1254					4734.094	4439.786
30) L7	Aroclor-1260{1}	18.11	16.06	1796022	1290526	3450.955	3786.463
31) L7	Aroclor-1260{2}	18.52	16.76	2350982	1329325	3819.335	3269.806
32) L7	Aroclor-1260{3}	20.08	17.86	360377	2903717	789.804	5630.179 #
33) L7	Aroclor-1260{4}	21.16	19.87	1268355	580976	2722.129	927.856 #
34) L7	Aroclor-1260{5}	21.74	20.98	1174381	511615	910.992	1083.145
Sum	Aroclor-1260			6950117	6616159	11693.216	14697.449
Average	Aroclor-1260					2338.643	2939.490

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0926.D\ECD1A.CH Vial: 26
Signal #2 : E:\WESTDA~1\BA0926.D\ECD2B.CH
Acq On : 15 Dec 97 8:52 Operator:
Sample : 278395 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:25 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	7.21	6.01	369116	232717	39.678	38.512
Spiked Amount 40.000 Range 43 - 150 Recovery =					99.19%	96.28%
2) SA Decachlorobiphen	29.40	24.62	605650	365345	40.104	43.977
Spiked Amount 40.000 Range 24 - 154 Recovery =					100.26%	109.94%
Target Compounds						
3) L6 Aroclor-1254{1}	14.17	11.44	261905	259328	1930.193	1167.178m#
4) L6 Aroclor-1254{2}	15.55	13.54	2344540	1316203	6112.229	3140.484 #
5) L6 Aroclor-1254{3}	15.88	14.96	1824822	954319	3466.848	6365.065 #
6) L6 Aroclor-1254{4}	18.52	15.56	2344390	2411154	5467.584	4848.100
7) L6 Aroclor-1254{5}	19.85	17.86	4709701	2894721	5423.211	6041.120
Sum Aroclor-1254			11485358	7835724	22400.066	21561.948
Average Aroclor-1254					4480.013	4312.390

7/13 6/9/98

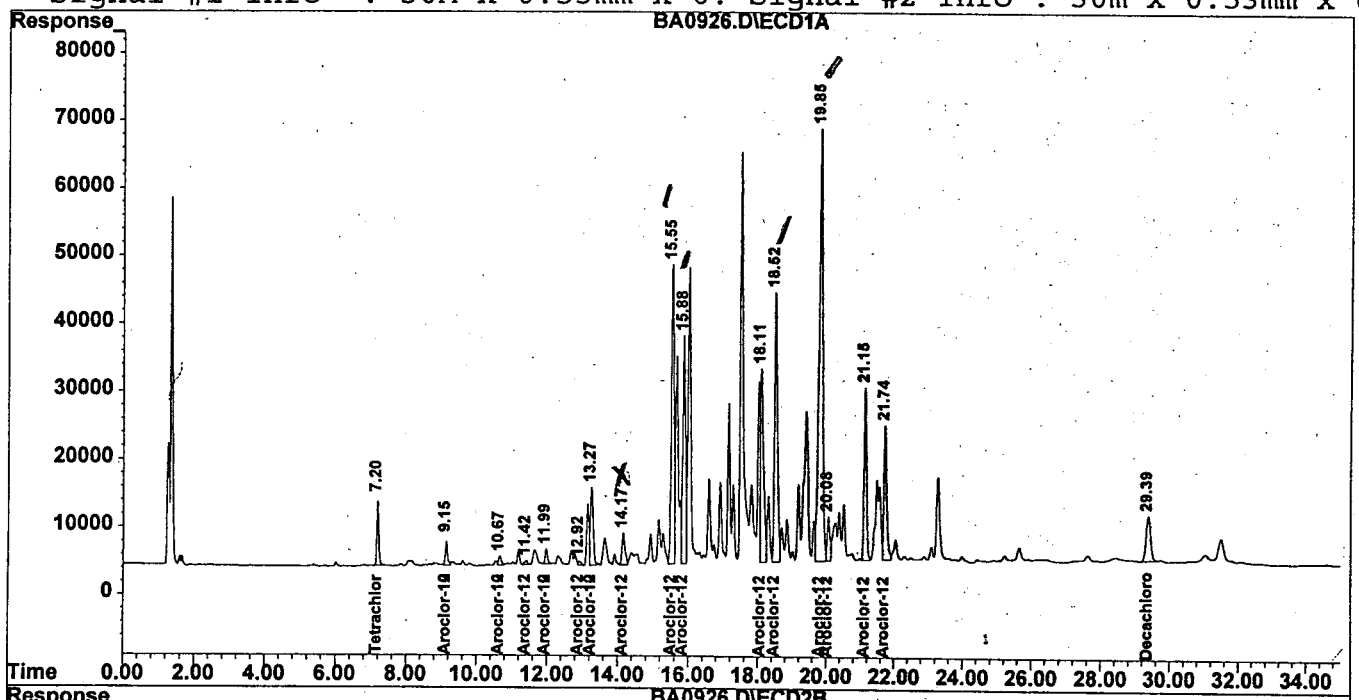
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

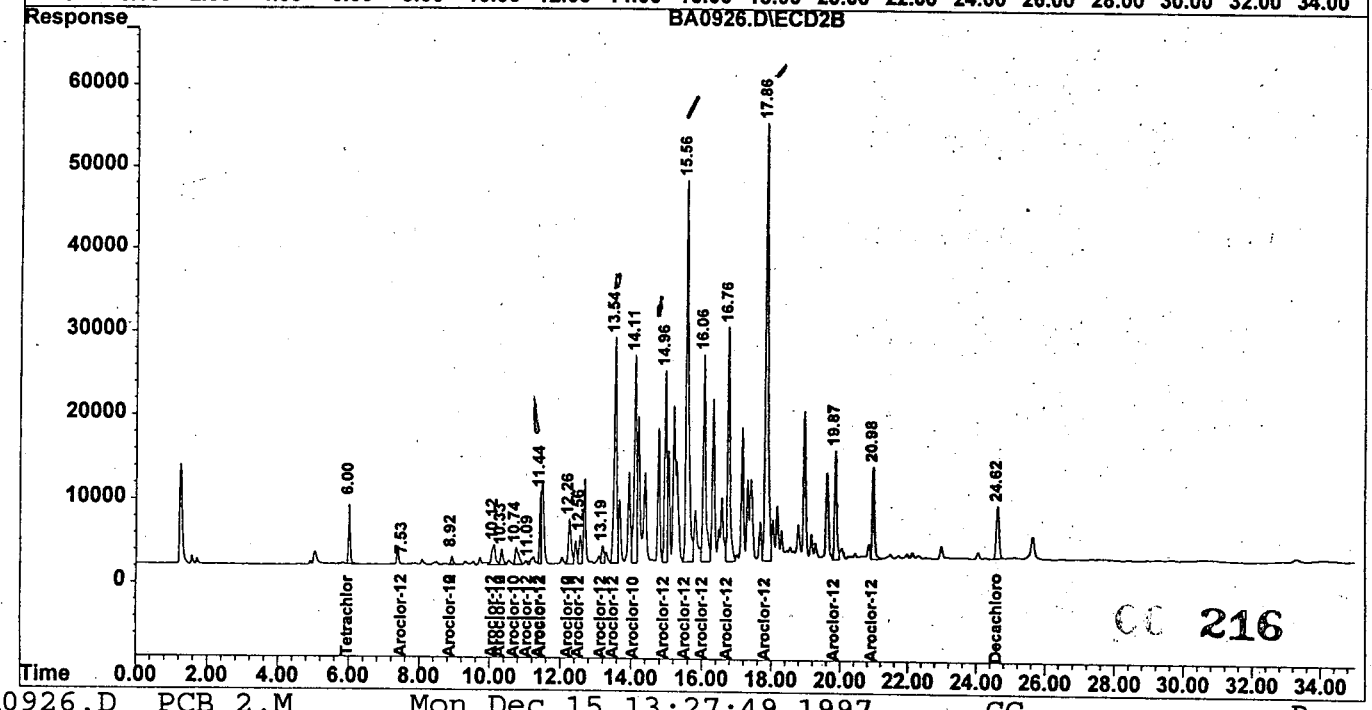
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0926.D\ECD1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA_B\BA0926.D\ECD2B.CH
Acq On : 15 Dec 97 8:52 Operator:
Sample : 278395 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:16 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





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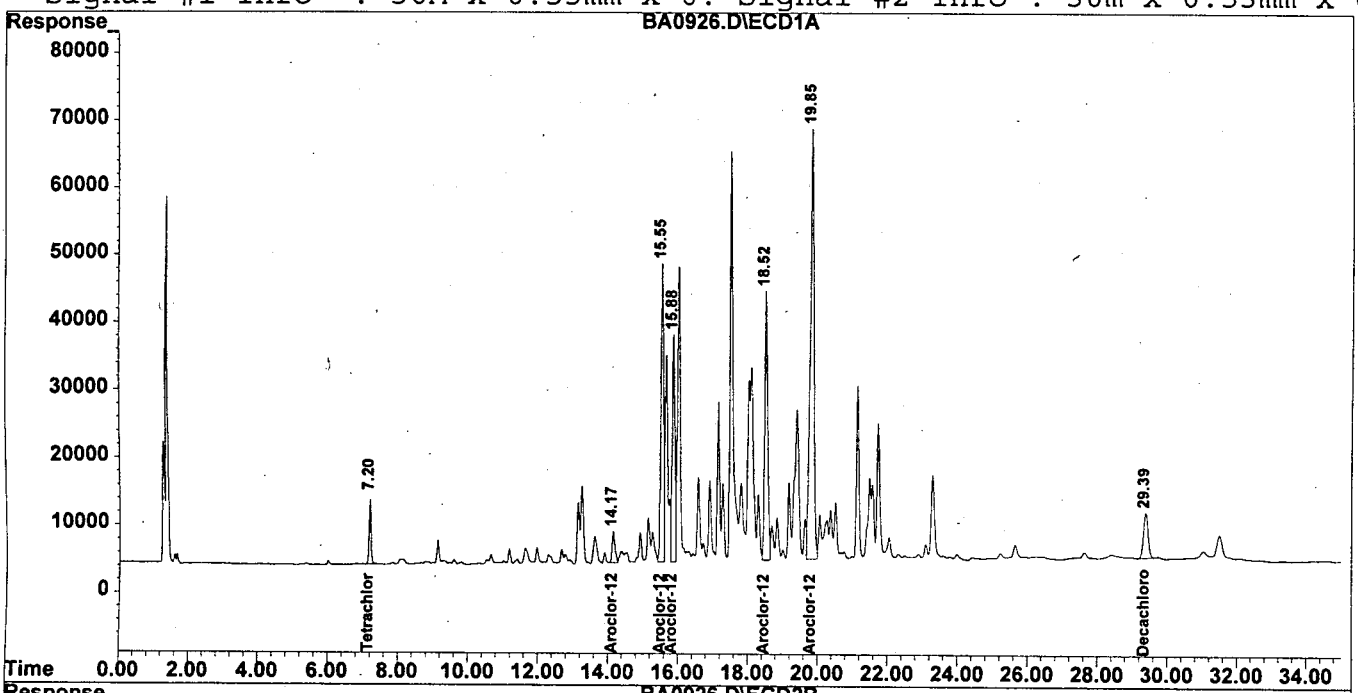
Quantitation Report

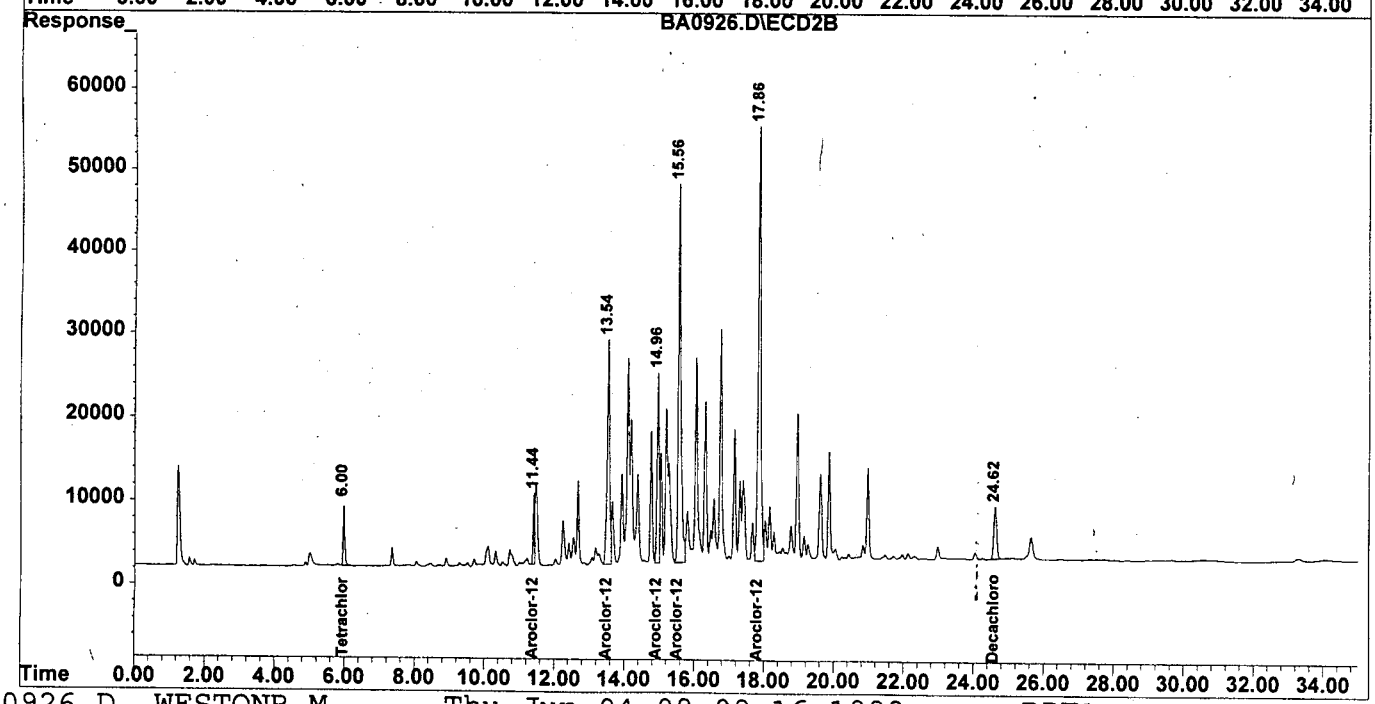
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0926.D\ECD1A.CH Vial: 26
Signal #2 : E:\WESTDA~1\BA0926.D\ECD2B.CH
Acq On : 15 Dec 97 8:52 Operator:
Sample : 278395 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:25 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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278396
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQSD1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	38.12%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	54	27
Aroclor-1221	U	U	110	75
Aroclor-1232	U	U	54	43
Aroclor-1242	U	U	54	27
Aroclor-1248	U	U	54	32
Aroclor-1254	~~2400~~ 2700 J	U	54	38
Aroclor-1260	U	U	54	43

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.
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LOU

J1254: Conc > STD

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0927.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA_B\BA0927.D\ECD2B.CH
Acq On : 15 Dec 97 9:31 Operator:
Sample : 278396 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:10 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	7.20	6.00	385704	250599	42.577	38.691	
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.44%	96.73%	
2) SA Decachlorobiphen	29.39	24.62	623533	371104	41.434	41.613	
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.59%	104.03%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.16	8.92	375104	19481	1762.190	66.942	#
4) L1 Aroclor-1016{2}	10.68	10.33	40499	62597	85.897	110.578	#
5) L1 Aroclor-1016{3}	11.99	10.74	78262	75280	95.147	280.958	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	334604	N.D.	1304.299	#
7) L1 Aroclor-1016{5}	13.28	14.11	712492	963451	2182.011	6532.759	#
Sum Aroclor-1016			1206356	1455413	4125.245	8295.536	
Average Aroclor-1016					1031.311	1659.107	
10) L2 Aroclor-1221{3}	9.16	0.00	375104	0	1239.177	N.D.	#
Sum Aroclor-1221			375104	0	1239.177	N.D.	
Average Aroclor-1221					1239.177	0.000	
11) L3 Aroclor-1232{1}	0.00	8.92	0	19481	N.D.	134.615	#
12) L3 Aroclor-1232{2}	9.16	10.12	375104	213052	1835.463	5099.922	#
13) L3 Aroclor-1232{3}	10.68	11.43	40499	375598	186.589	4508.925	#
14) L3 Aroclor-1232{4}	11.99	13.19	78262	64403	222.947	1138.370	#
Sum Aroclor-1232			493864	672534	2245.000	10881.832	
Average Aroclor-1232					748.333	2720.458	
15) L4 Aroclor-1242{1}	9.16	8.92	375104	19481	2046.220	77.961	#
16) L4 Aroclor-1242{2}	10.68	10.12	40499	213052	110.446	2775.810	#
17) L4 Aroclor-1242{3}	11.43	11.10	43553	7470	392.849	46.312	#
18) L4 Aroclor-1242{4}	12.93	12.26	25212	334604	146.363	1445.929	#
19) L4 Aroclor-1242{5}	14.17	0.00	307122	0	845.157	N.D.	#
Sum Aroclor-1242			791489	574608	3541.036	4346.012	
Average Aroclor-1242					708.207	1086.503	
20) L5 Aroclor-1248{1}	10.68	10.33	40499	62597	208.760	150.288	#
21) L5 Aroclor-1248{2}	11.99	12.26	78262	334604	139.885	987.381	#

(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\BA0927.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA_B\BA0927.D\ECD2B.CH
Acq On : 15 Dec 97 9:31 Operator:
Sample : 278396 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:10 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
22) L5	Aroclor-1248{3}	13.28	12.56	712492	207285	1723.833	654.845 #
23) L5	Aroclor-1248{4}	14.17	13.55	307122	1331344	618.777	4947.782 #
24) L5	Aroclor-1248{5}	0.00	15.57	0	2734344	N.D.	21709.386 #
Sum	Aroclor-1248			1138374	4670174	2691.256	28449.682
Average	Aroclor-1248					672.814	5689.936
25) L6	Aroclor-1254{1}	~~14.17~~	11.43	307122	375598	~~2262.677~~	1703.643
26) L6	Aroclor-1254{2}	~~15.55~~	13.55	3205967	1331344	~~8695.796~~	3179.144 #
27) L6	Aroclor-1254{3}	15.88	14.97	1552183	1448416	3368.128	9689.122 #
28) L6	Aroclor-1254{4}	18.53	15.57	2079877	2734344	5131.793	5627.038
29) L6	Aroclor-1254{5}	19.85	17.86	3801925	2441795	4405.452	5373.221
Sum	Aroclor-1254			10947074	8331498	23863.845	25572.167
Average	Aroclor-1254					4772.769	5114.433
30) L7	Aroclor-1260{1}	18.11	16.06	1563120	1197513	3003.447	3513.560
31) L7	Aroclor-1260{2}	18.53	16.76	2079877	1060926	3378.906	2609.610
32) L7	Aroclor-1260{3}	20.08	17.86	348441	2441795	763.644	4734.533 #
33) L7	Aroclor-1260{4}	21.16	19.87	992194	440600	2129.436	703.665 #
34) L7	Aroclor-1260{5}	21.74	20.98	857436	360284	665.131	762.761
Sum	Aroclor-1260			5841067	5501117	9940.563	12324.129
Average	Aroclor-1260					1988.113	2464.826

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12/16/97

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

ICM Laboratories Quantitation Report AMENDED REPORT (QT Reviewed) JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0927.D\ECD1A.CH Vial: 27
Signal #2 : E:\WESTDA~1\BA0927.D\ECD2B.CH
Acq On : 15 Dec 97 9:31 Operator:
Sample : 278396 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:21 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	7.20	6.00	383509	243140	41.225	40.237
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.06%	100.59%
2) SA Decachlorobiphen	29.40	24.62	623531	372135	41.288	44.795
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.22%	111.99%
Target Compounds						
3) L6 Aroclor-1254{1}	~~14.17~~	11.43	254482	367618	~~1875.488~~	1654.568
4) L6 Aroclor-1254{2}	~~15.55~~	13.55	3191752	1318867	~~8320.915~~	3146.842 #
5) L6 Aroclor-1254{3}	15.88	14.97	1541063	1422555	2927.755	9488.076 #
6) L6 Aroclor-1254{4}	18.53	15.57	2056179	2682284	4795.418	5393.261
7) L6 Aroclor-1254{5}	19.85	17.86	3768563	2410647	4339.493	5030.886
Sum Aroclor-1254			10812039	8201971	22259.068	24713.633
Average Aroclor-1254					~~4451.814~~	4942.727

4020.89

%D=20.6

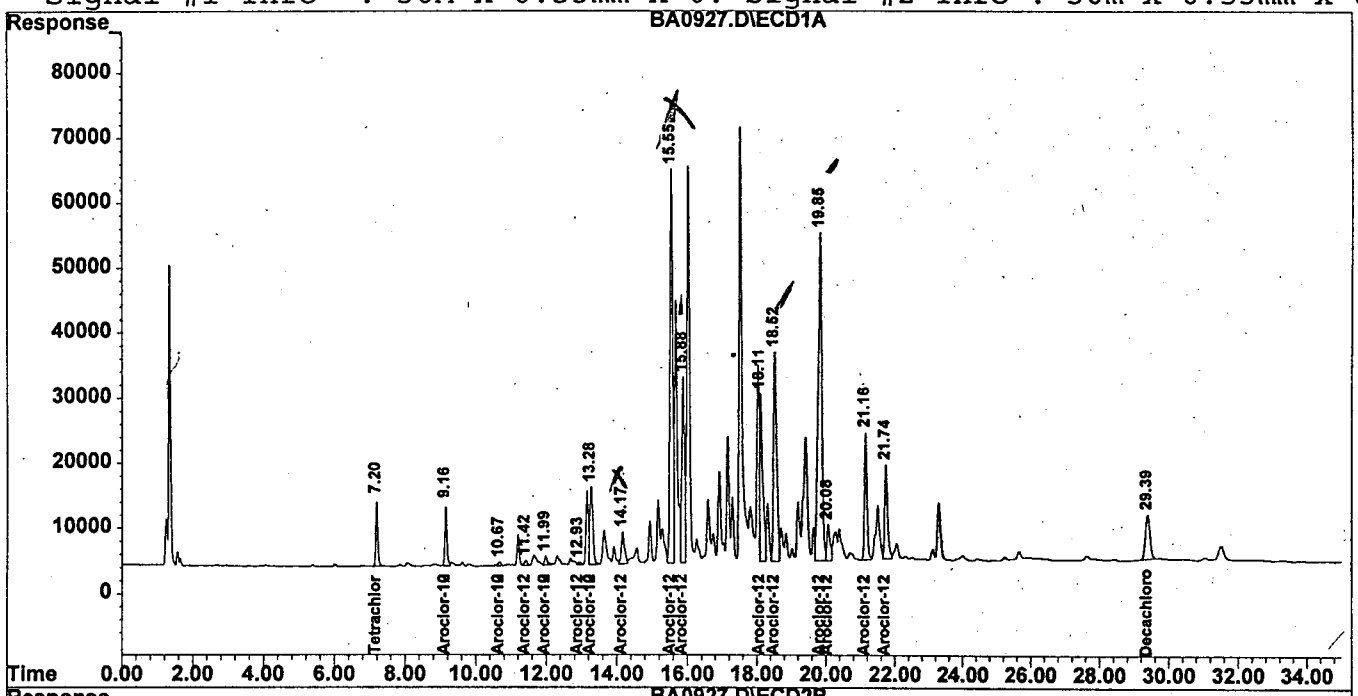
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

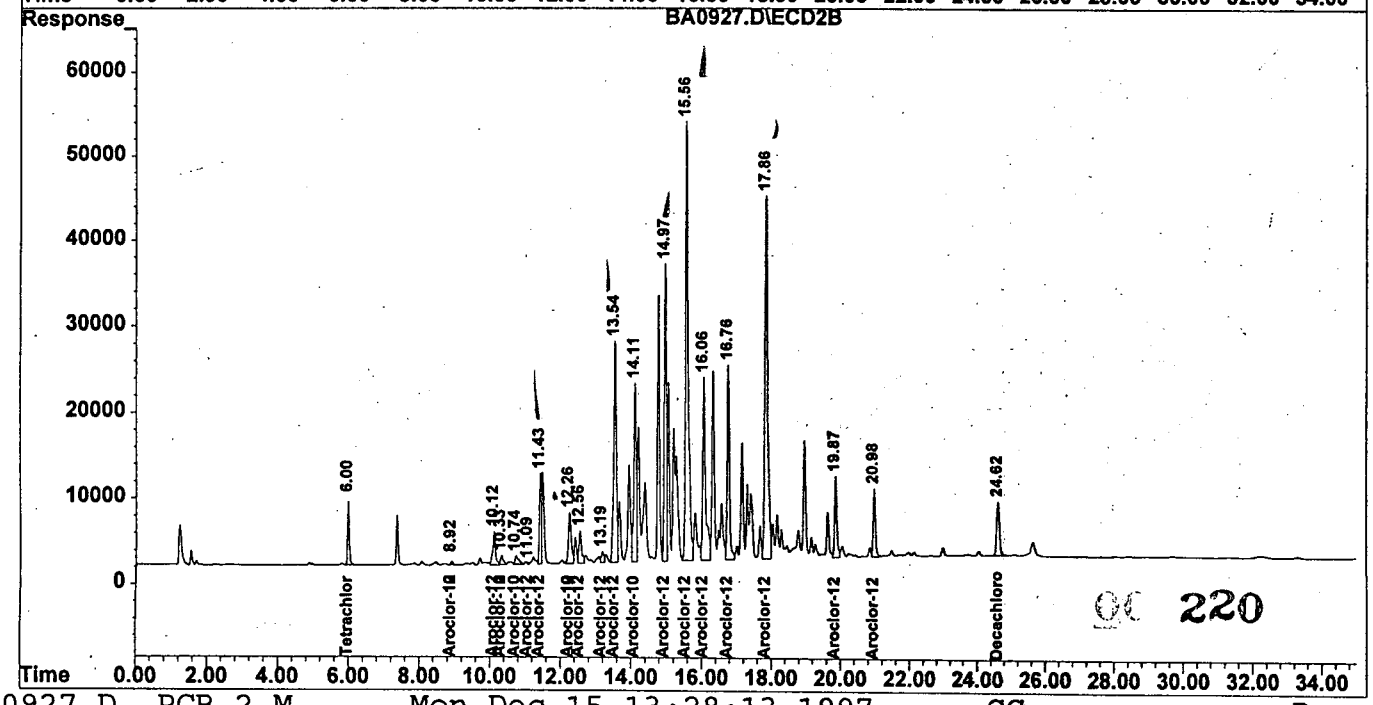
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0927.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA_B\BA0927.D\ECD2B.CH
Acq On : 15 Dec 97 9:31 Operator:
Sample : 278396 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:10 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





GC 220

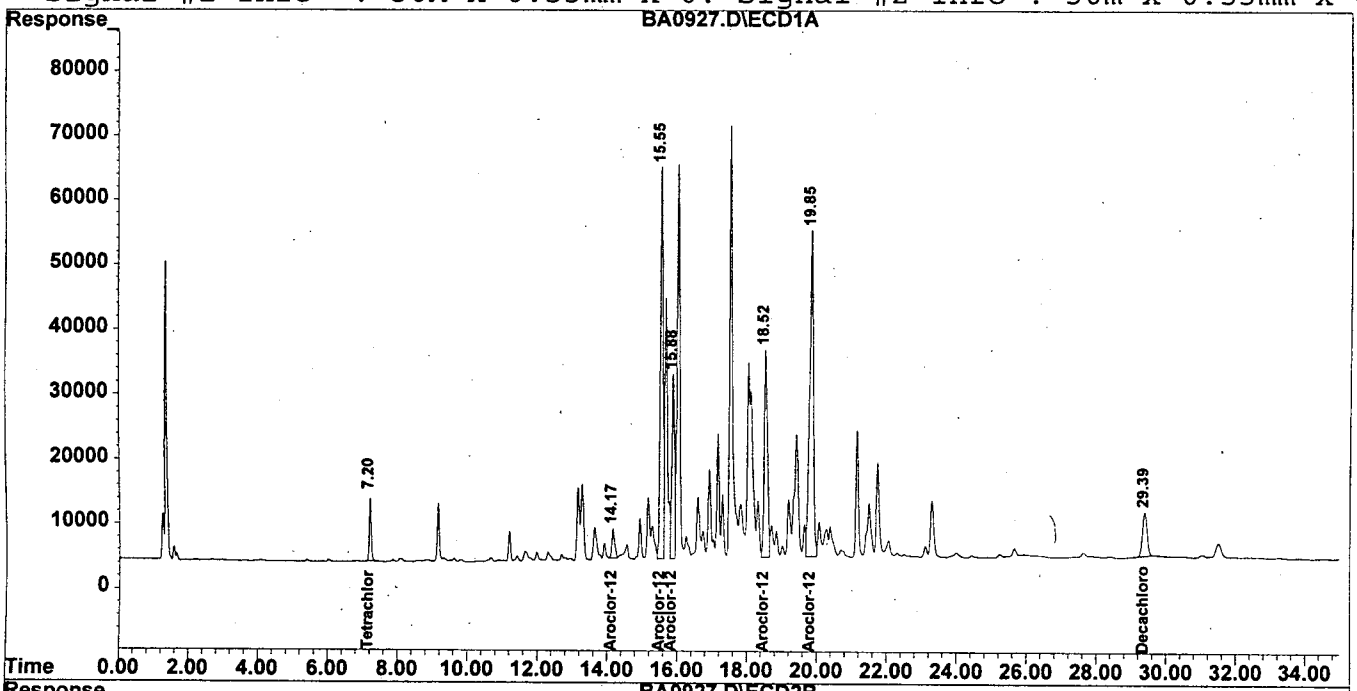
Quantitation Report

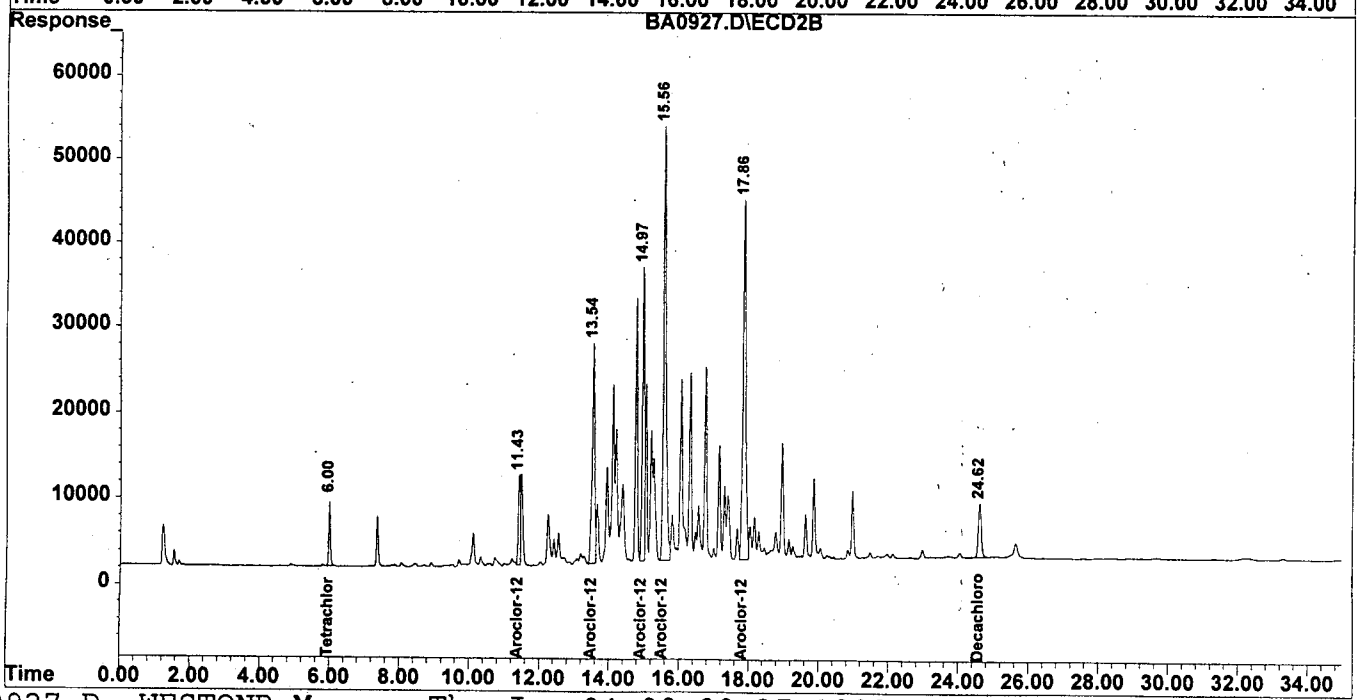
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0927.D\ECD1A.CH Vial: 27
Signal #2 : E:\WESTDA~1\BA0927.D\ECD2B.CH
Acq On : 15 Dec 97 9:31 Operator:
Sample : 278396 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:21 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





220A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278397
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQSS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	11.87%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	38	19
Aroclor-1221	U	U	76	53
Aroclor-1232	U	U	38	30
Aroclor-1242	U	U	38	19
Aroclor-1248	U	U	38	23
Aroclor-1254	690	U	38	26
Aroclor-1260	U	U	38	30

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.
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LOU

ICM Laboratories Quantitation Report (Not Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0928.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_B\BA0928.D\ECD2B.CH
Acq On : 15 Dec 97 10:10 Operator:
Sample : 278397 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:10 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	7.21	6.01	410543	228542	45.318	35.285	
Spiked Amount 40.000 Range 43 - 150 Recovery =					113.30%	88.21%	
2) SA Decachlorobiphen	29.40	24.62	612427	360753	40.696	40.453	
Spiked Amount 40.000 Range 24 - 154 Recovery =					101.74%	101.13%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.16	8.92	151782	33116	713.053	113.793	#
4) L1 Aroclor-1016{2}	10.68	10.34	31737	43379	67.314	76.630	
5) L1 Aroclor-1016{3}	11.99	10.74	68714	48570	83.539	181.270	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	256157	N.D.	998.511	#
7) L1 Aroclor-1016{5}	13.28	14.11	489919	493758	1500.379	3347.968	#
Sum Aroclor-1016			742151	874980	2364.284	4718.171	
Average Aroclor-1016					591.071	943.634	
9) L2 Aroclor-1221{2}	9.01	7.52	21759	6638	221.532	94.134	#
10) L2 Aroclor-1221{3}	9.16	7.69	151782	5495	501.421	22.530	#
Sum Aroclor-1221			173541	12133	722.952	116.663	
Average Aroclor-1221					361.476	58.332	
11) L3 Aroclor-1232{1}	9.01	8.92	21759	33116	380.120	228.827	#
12) L3 Aroclor-1232{2}	9.16	10.09	151782	90404	742.702	2164.037	#
13) L3 Aroclor-1232{3}	10.68	11.44	31737	218846	146.222	2627.177	#
14) L3 Aroclor-1232{4}	11.99	13.19	68714	29232	195.748	516.689	#
Sum Aroclor-1232			273992	371598	1464.792	5536.730	
Average Aroclor-1232					366.198	1384.182	
15) L4 Aroclor-1242{1}	9.16	8.92	151782	33116	827.983	132.523	#
16) L4 Aroclor-1242{2}	10.68	10.09	31737	90404	86.552	1177.852	#
18) L4 Aroclor-1242{4}	0.00	12.26	0	256157	N.D.	1106.936	#
19) L4 Aroclor-1242{5}	14.17	0.00	294038	0	809.154	N.D.	#
Sum Aroclor-1242			477557	379677	1723.688	2417.312	
Average Aroclor-1242					574.563	805.771	
20) L5 Aroclor-1248{1}	10.68	10.34	31737	43379	163.597	104.149	#
21) L5 Aroclor-1248{2}	11.99	12.26	68714	256157	122.819	755.893	#

222

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

ICM Laboratories Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0928.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_B\BA0928.D\ECD2B.CH
Acq On : 15 Dec 97 10:10 Operator:
Sample : 278397 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:10 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	
22) L5	Aroclor-1248{3}	13.28	12.56	489919	129546	1185.330	409.254	#
23) L5	Aroclor-1248{4}	14.17	13.55	294038	637574	592.417	2369.467	#
24) L5	Aroclor-1248{5}	0.00	15.57	0	1044265	N.D.	8290.961	#
Sum	Aroclor-1248			884408	2110920	2064.163	11929.724	
Average	Aroclor-1248					516.041	2385.945	
25) L6	Aroclor-1254{1}	14.17	11.44	294038	218846	2166.286	992.647	#
26) L6	Aroclor-1254{2}	15.56	13.55	852153	637574	2311.362	1522.475	#
27) L6	Aroclor-1254{3}	15.88	14.96	900443	378422	1953.898	2531.436	#
28) L6	Aroclor-1254{4}	18.53	15.57	815182	1044265	2011.342	2149.004	
29) L6	Aroclor-1254{5}	19.86	17.86	1571440	1044226	1820.894	2297.841	#
Sum	Aroclor-1254			4433256	3323332	10263.783	9493.403	
Average	Aroclor-1254					2052.757	1898.681	
30) L7	Aroclor-1260{1}	0.00	16.06	0	496562	N.D.	1456.935	#
31) L7	Aroclor-1260{2}	18.53	16.76	815182	466481	1324.320	1147.427	
32) L7	Aroclor-1260{3}	20.08	17.86	132671	1044226	290.762	2024.708	#
33) L7	Aroclor-1260{4}	21.16	19.88	418969	178995	899.187	285.865	#
34) L7	Aroclor-1260{5}	21.74	20.99	339411	150859	263.288	319.384	
Sum	Aroclor-1260			1706233	2337122	2777.557	5234.320	
Average	Aroclor-1260					694.389	1046.864	

QC 223

12/18/02

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0928.D\ECD1A.CH Vial: 28
Signal #2 : E:\WESTDA~1\BA0928.D\ECD2B.CH
Acq On : 15 Dec 97 10:10 Operator:
Sample : 278397 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:21 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	7.21	6.01	329006	214372	35.367	35.476	
Spiked Amount 40.000 Range 43 - 150 Recovery =					88.42%	88.69%	
2) SA Decachlorobiphen	29.40	24.62	612300	360548	40.544	43.400	
Spiked Amount 40.000 Range 24 - 154 Recovery =					101.36%	108.50%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.17	11.44	267896	210532	1974.346	947.557	#
4) L6 Aroclor-1254{2}	15.56	13.55	837785	634582	2184.111	1514.125	#
5) L6 Aroclor-1254{3}	15.88	14.96	772983	374171	1468.535	2495.622	#
6) L6 Aroclor-1254{4}	18.53	15.57	807842	1038414	1884.047	2087.936	
7) L6 Aroclor-1254{5}	19.86	17.86	1566135	1012150	1803.401	2112.300	
Sum Aroclor-1254			4252640	3269848	9314.440	9157.541	
Average Aroclor-1254					1862.888	1831.508	

6/4/98

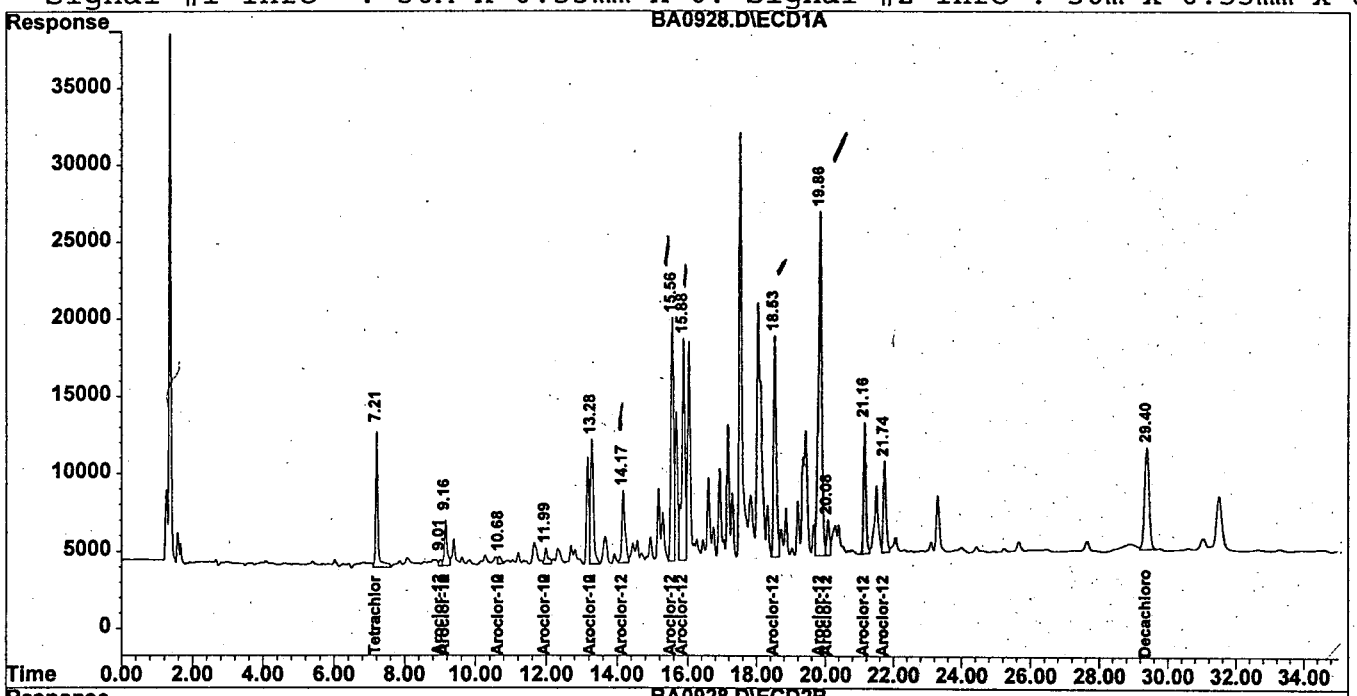
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

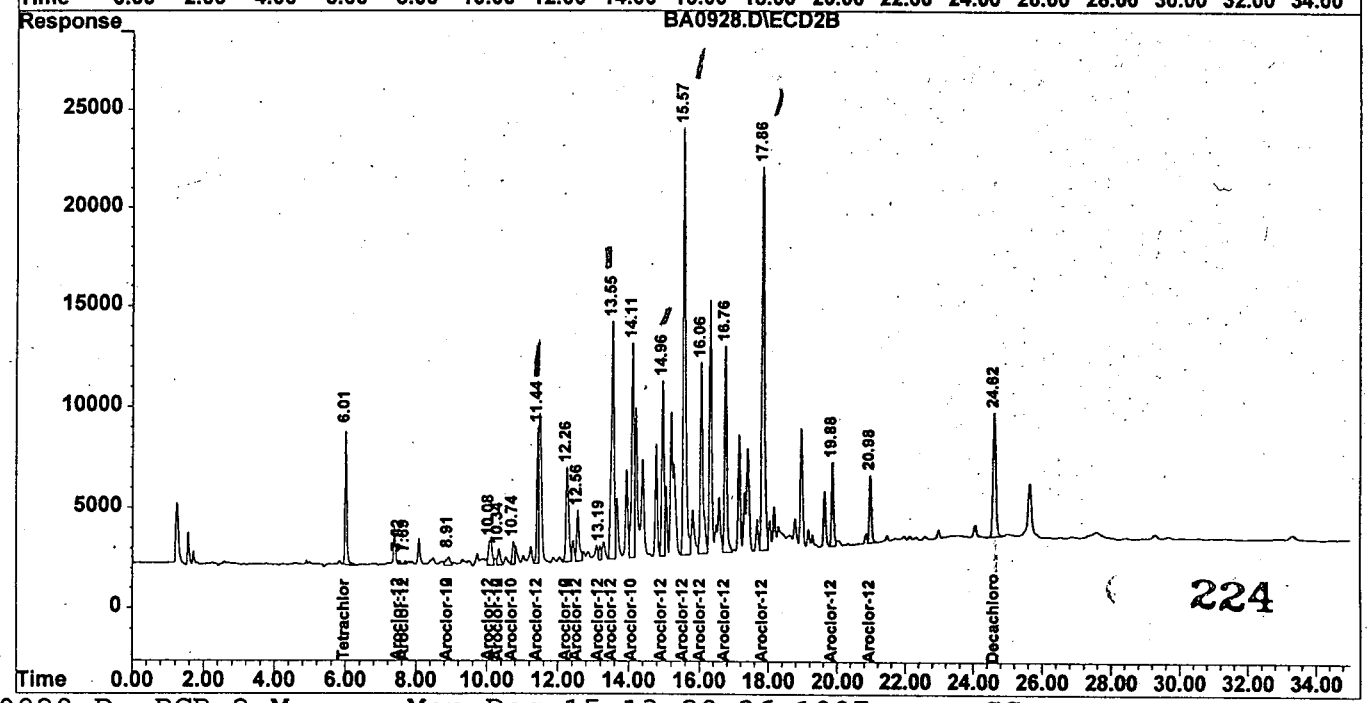
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0928.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA_B\BA0928.D\ECD2B.CH
Acq On : 15 Dec 97 10:10 Operator:
Sample : 278397 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:10 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





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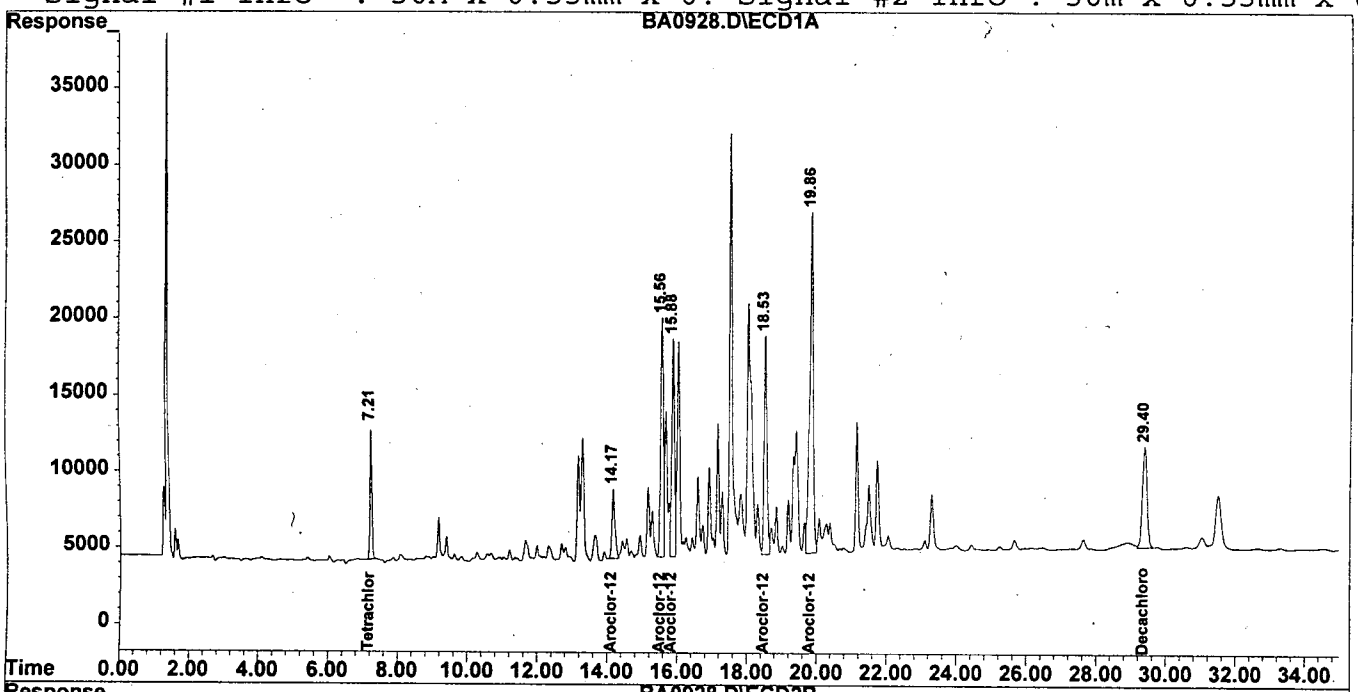
Quantitation Report

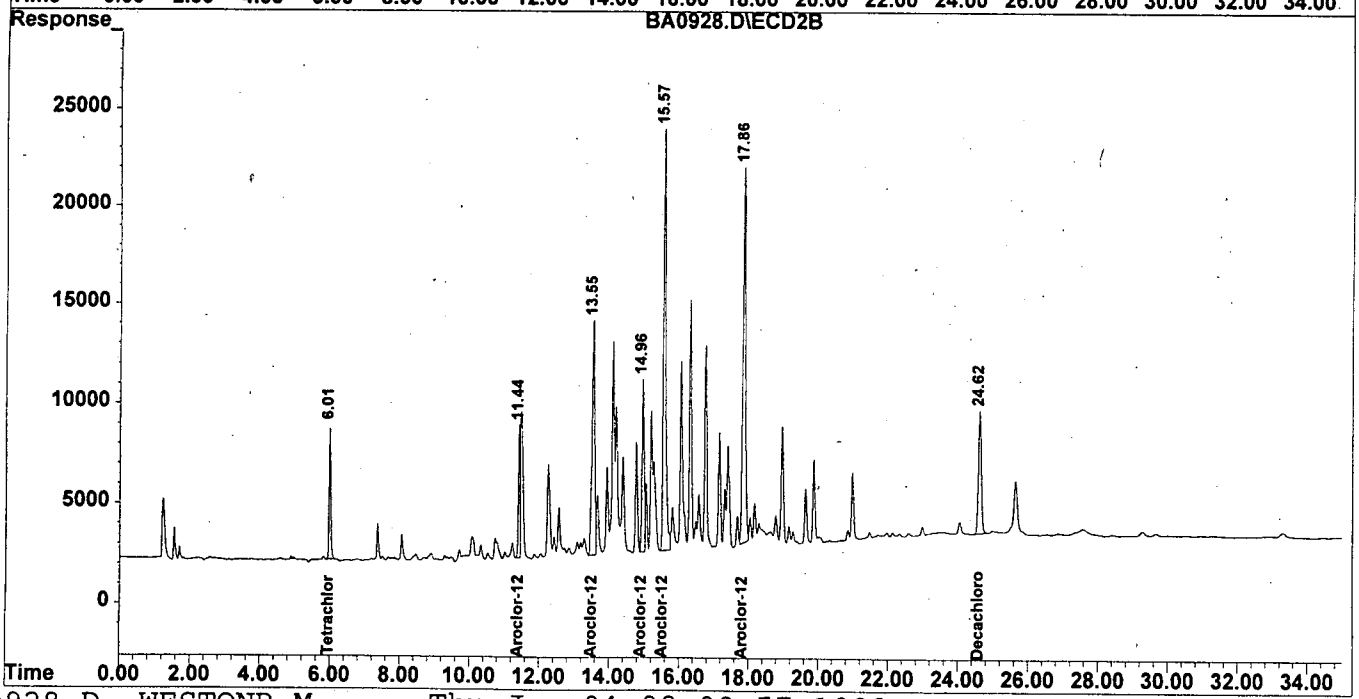
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0928.D\ECD1A.CH Vial: 28
Signal #2 : E:\WESTDA~1\BA0928.D\ECD2B.CH
Acq On : 15 Dec 97 10:10 Operator:
Sample : 278397 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:21 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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278398
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: QQQQSD2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/17/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	24.43%

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	220	110
Aroclor-1221	U	U	440	310
Aroclor-1232	U	U	220	180
Aroclor-1242	U	U	220	110
Aroclor-1248	U	U	220	130
Aroclor-1254	~~2600~~ 2700	U	220	150
Aroclor-1260	U J	U	220	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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1007.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_B\BA1007.D\ECD2B.CH
Acq On : 17 Dec 97 19:07 Operator:
Sample : 278398 1:5 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:05 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	7.17	5.95	93223	63633	10.291	9.824
Spiked Amount 40.000 Range 43 - 150 Recovery =					25.73%#	24.56%#
2) SA Decachlorobiphen	29.17	24.46	157572	112547	10.471	12.620
Spiked Amount 40.000 Range 24 - 154 Recovery =					26.18%	31.55%
Target Compounds						
3) L1 Aroclor-1016{1}	9.11	8.85	46470	10927	218.311	37.546 #
4) L1 Aroclor-1016{2}	10.63	10.26	14575	19109	30.912	33.756
5) L1 Aroclor-1016{3}	11.94	10.66	20193	12262	24.549	45.764 #
6) L1 Aroclor-1016{4}	0.00	12.17	0	85806	N.D.	334.473 #
7) L1 Aroclor-1016{5}	13.22	14.02	161771	281371	495.425	1907.862 #
Sum Aroclor-1016			243008	409474	769.197	2359.400
Average Aroclor-1016					192.299	471.880
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	36046	N.D.	862.853 #
13) L3 Aroclor-1232{3}	10.63	11.41	14575	125001	67.149	1500.598 #
14) L3 Aroclor-1232{4}	11.94	13.20	20193	15934	57.524	281.647 #
Sum Aroclor-1232			34767	176982	124.673	2645.098
Average Aroclor-1232					62.337	881.699
16) L4 Aroclor-1242{2}	10.63	10.02	14575	36046	39.747	469.638 #
17) L4 Aroclor-1242{3}	0.00	11.15	0	9960	N.D.	61.747 #
19) L4 Aroclor-1242{5}	14.11	14.30	86000	126468	236.661	1415.025 #
Sum Aroclor-1242			100575	172474	276.408	1946.409
Average Aroclor-1242					138.204	648.803
22) L5 Aroclor-1248{3}	0.00	12.59	0	43929	N.D.	138.779 #
23) L5 Aroclor-1248{4}	0.00	13.46	0	349586	N.D.	1299.195 #
Sum Aroclor-1248			0	393515	N.D.	1437.975
Average Aroclor-1248					0.000	718.987
25) L6 Aroclor-1254{1}	14.11	11.36	86000	86051	633.596	390.313 #

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(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\BA1007.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_B\BA1007.D\ECD2B.CH
Acq On : 17 Dec 97 19:07 Operator:
Sample : 278398 1:5 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:05 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	
26) L6	Aroclor-1254{2}	15.48	13.46	601889	349586	1632.551	834.784	#
27) L6	Aroclor-1254{3}	15.81	14.87	424506	294756	921.147	1971.756	#
28) L6	Aroclor-1254{4}	18.45	15.47	637093	707030	1571.935	1455.005	
29) L6	Aroclor-1254{5}	19.77	17.76	1158910	760355	1342.878	1673.177	
Sum	Aroclor-1254			2908399	2197778	6102.108	6325.035	
Average	Aroclor-1254					1220.422	1265.007	
31) L7	Aroclor-1260{2}	18.63	0.00	74257	0	120.635	N.D.	#
32) L7	Aroclor-1260{3}	20.20	0.00	91344	0	200.191	N.D.	#
Sum	Aroclor-1260			165601	0	320.826	N.D.	
Average	Aroclor-1260					160.413	0.000	

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12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1007.D\ECD1A.CH Vial: 12
Signal #2 : E:\WESTDA~1\BA1007.D\ECD2B.CH
Acq On : 17 Dec 97 19:07 Operator:
Sample : 278398 1:5 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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	7.17	5.95	93159	63722	10.014	10.545
Spiked Amount 40.000 Range 43 - 150 Recovery =					25.04%#	26.36%#
2) SA Decachlorobiphen	29.17	24.46	157287	106508	10.415	12.821
Spiked Amount 40.000 Range 24 - 154 Recovery =					26.04%	32.05%
Target Compounds						
3) L6 Aroclor-1254{1}	14.11	11.36	92314	85112	680.338m	383.069 #
4) L6 Aroclor-1254{2}	15.48	13.46	601418	342418	1567.900	817.015 #
5) L6 Aroclor-1254{3}	15.81	14.87	427151	293287	811.514	1956.152 #
6) L6 Aroclor-1254{4}	18.45	15.47	637324	690189	1486.365	1387.761
7) L6 Aroclor-1254{5}	19.77	17.76	1159617	746127	1335.297	1557.125
Sum Aroclor-1254			2917824	2157132	5881.415	6101.122
Average Aroclor-1254					1176.283	1220.224

MCWA

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

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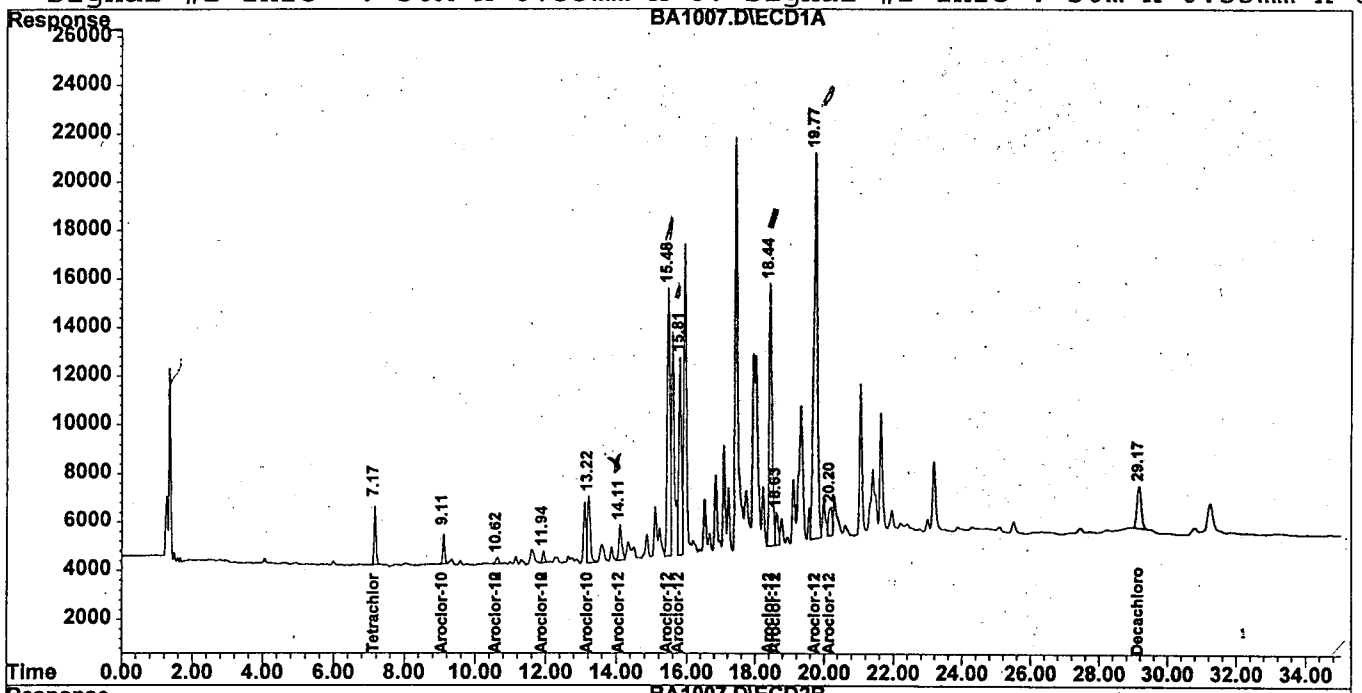
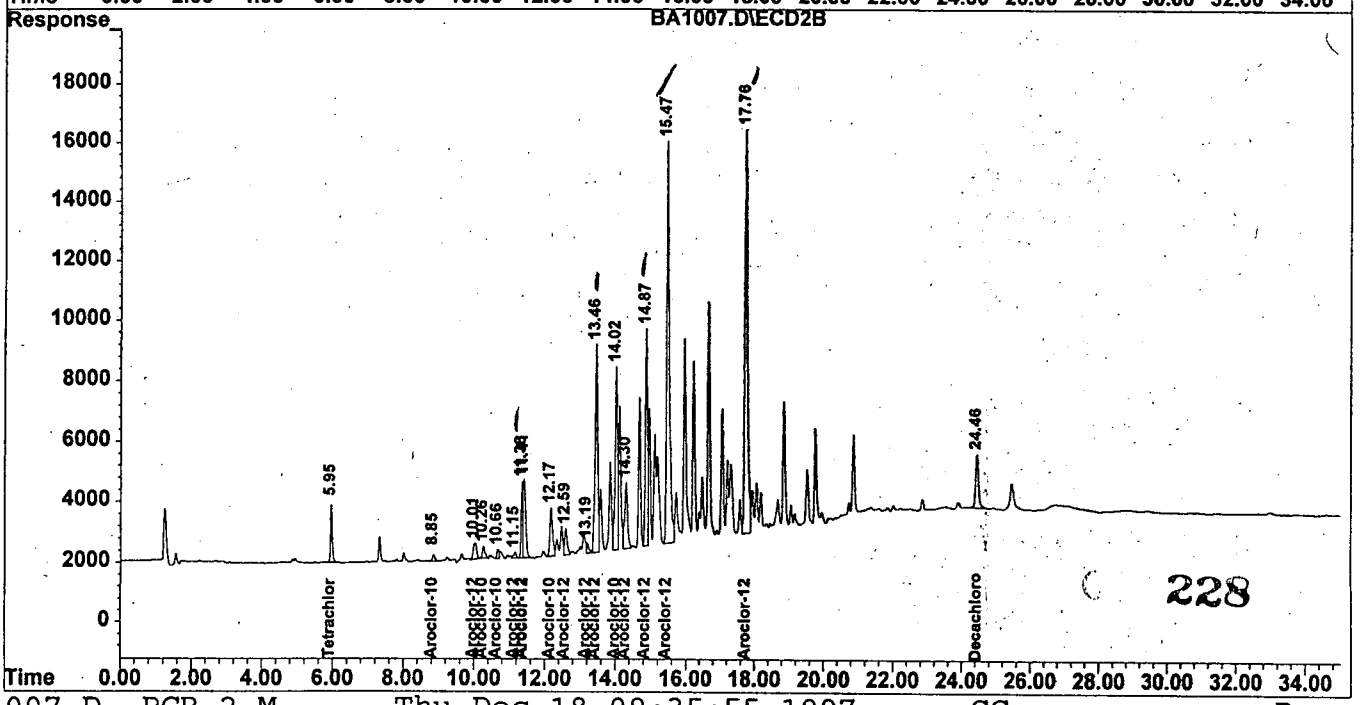
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1007.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA_B\BA1007.D\ECD2B.CH
Acq On : 17 Dec 97 19:07 Operator:
Sample : 278398 1:5 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:05 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





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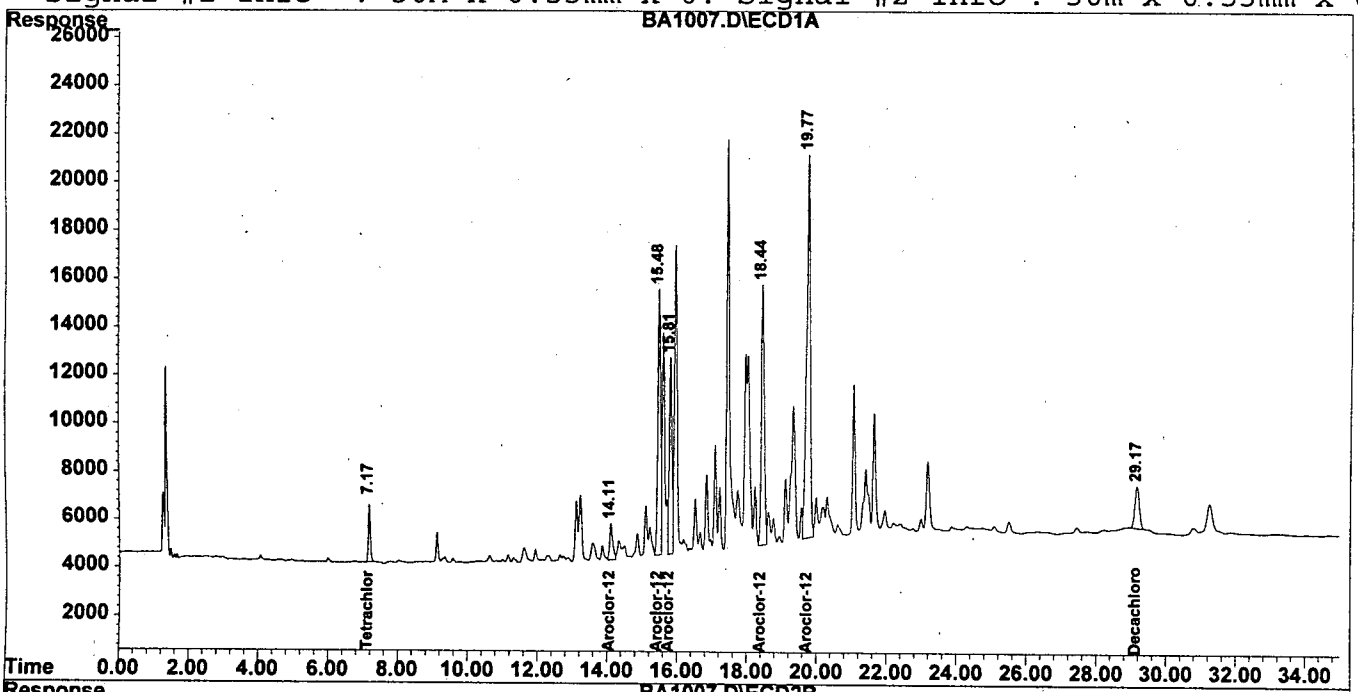
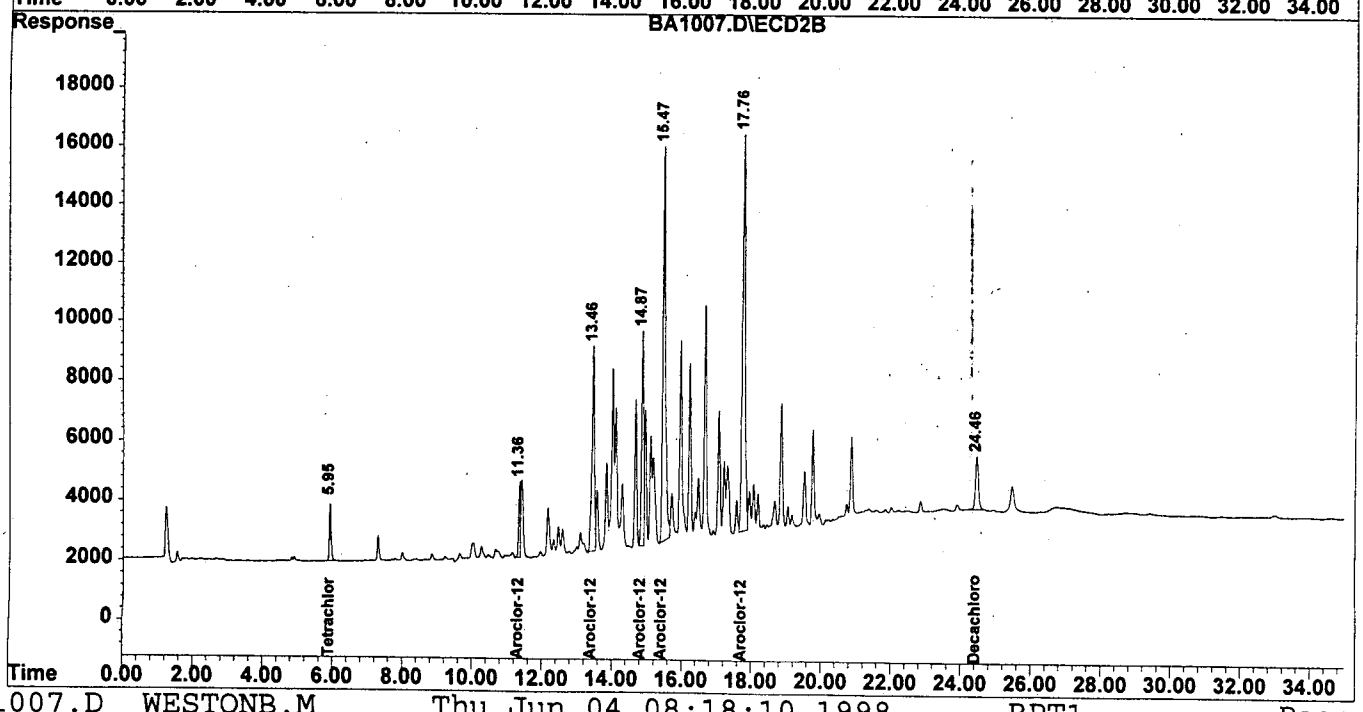
Quantitation Report AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1007.D\ECD1A.CH Vial: 12
Signal #2 : E:\WESTDA~1\BA1007.D\ECD2B.CH
Acq On : 17 Dec 97 19:07 Operator:
Sample : 278398 1:5 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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





228A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278399
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	20.75%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	42	21
Aroclor-1221	U	U	84	59
Aroclor-1232	U	U	42	34
Aroclor-1242	U	U	42	21
Aroclor-1248	U	U	42	25
Aroclor-1254	160	U	42	29
Aroclor-1260	U	U	42	34

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0930.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA_B\BA0930.D\ECD2B.CH
Acq On : 15 Dec 97 11:28 Operator:
Sample : 278399 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:21 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	7.21	6.01	407656	263779	45.000	40.725	
Spiked Amount 40.000 Range 43 - 150 Recovery =					112.50%	101.81%	
2) SA Decachlorobiphen	29.40	24.62	674728	381669	44.836	42.798	
Spiked Amount 40.000 Range 24 - 154 Recovery =					112.09%	107.00%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.25	8.92	7833	7458	36.800	25.628	#
4) L1 Aroclor-1016{2}	10.68	10.34	21135	15770	44.827	27.858	#
5) L1 Aroclor-1016{3}	11.99	10.75	41612	19416	50.590	72.464	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	72578	N.D.	282.911	#
7) L1 Aroclor-1016{5}	13.29	14.12	113214	122566	346.720	831.066	#
Sum Aroclor-1016			183795	237788	478.937	1239.928	
Average Aroclor-1016					119.734	247.986	
10) L2 Aroclor-1221{3}	9.25	0.00	7833	0	25.878	N.D.	#
Sum Aroclor-1221			7833	0	25.878	N.D.	
Average Aroclor-1221					25.878	0.000	
11) L3 Aroclor-1232{1}	0.00	8.92	0	7458	N.D.	51.536	#
12) L3 Aroclor-1232{2}	9.25	10.08	7833	24680	38.330	590.783	#
13) L3 Aroclor-1232{3}	10.68	11.44	21135	170814	97.377	2050.564	#
14) L3 Aroclor-1232{4}	11.99	13.19	41612	9459	118.541	167.190	#
Sum Aroclor-1232			70580	212411	254.247	2860.073	
Average Aroclor-1232					84.749	715.018	
15) L4 Aroclor-1242{1}	9.25	8.92	7833	7458	42.731	29.847	#
16) L4 Aroclor-1242{2}	10.68	10.08	21135	24680	57.639	321.554	#
17) L4 Aroclor-1242{3}	11.38	0.00	14208	0	128.155	N.D.	#
18) L4 Aroclor-1242{4}	0.00	12.26	0	72578	N.D.	313.632	#
19) L4 Aroclor-1242{5}	14.18	0.00	68479	0	188.444	N.D.	#
Sum Aroclor-1242			111655	104716	416.969	665.033	
Average Aroclor-1242					104.242	221.678	
20) L5 Aroclor-1248{1}	10.68	10.34	21135	15770	108.947	37.863	#
21) L5 Aroclor-1248{2}	11.99	12.26	41612	72578	74.377	214.170	#

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(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\BA0930.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA_B\BA0930.D\ECD2B.CH
Acq On : 15 Dec 97 11:28 Operator:
Sample : 278399 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:21 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	
22)	L5 Aroclor-1248{3}	13.29	12.57	113214	39025	273.916	123.287	#
23)	L5 Aroclor-1248{4}	14.18	13.55	68479	173481	137.968	644.722	#
24)	L5 Aroclor-1248{5}	0.00	15.57	0	242020	N.D.	1921.521	#
Sum	Aroclor-1248			244440	542874	595.208	2941.562	
Average	Aroclor-1248					148.802	588.312	
25)	L6 Aroclor-1254{1}	14.18	11.44	68479	98496	504.508	446.760m	
26)	L6 Aroclor-1254{2}	15.57	13.55	181104	173481	491.222	414.259	
27)	L6 Aroclor-1254{3}	15.88	14.97	199174	82733	432.193	553.438	#
28)	L6 Aroclor-1254{4}	18.53	15.57	149930	242020	369.931	498.055	#
29)	L6 Aroclor-1254{5}	19.86	17.87	278615	198377	322.843	436.532	#
Sum	Aroclor-1254			877302	795107	2120.697	2349.044	
Average	Aroclor-1254					424.139	469.809	
30)	L7 Aroclor-1260{1}	0.00	16.06	0	109742	N.D.	321.987	#
31)	L7 Aroclor-1260{2}	18.53	16.77	149930	110260	243.572	271.211	
32)	L7 Aroclor-1260{3}	20.08	17.87	19802	198377	43.397	384.644	#
33)	L7 Aroclor-1260{4}	21.16	19.88	66519	25589	142.763	40.868	#
34)	L7 Aroclor-1260{5}	21.74	20.99	44613	29151	34.607	61.716	#
Sum	Aroclor-1260			280864	473119	464.340	1080.426	
Average	Aroclor-1260					116.085	216.085	

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0930.D\ECD1A.CH Vial: 30
Signal #2 : E:\WESTDA~1\BA0930.D\ECD2B.CH
Acq On : 15 Dec 97 11:28 Operator:
Sample : 278399 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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	7.21	6.01	401406	259930	43.149	43.015
Spiked Amount 40.000 Range 43 - 150 Recovery =					107.87%	107.54%
2) SA Decachlorobiphen	29.40	24.62	674728	382849	44.678	46.084
Spiked Amount 40.000 Range 24 - 154 Recovery =					111.70%	115.21%
Target Compounds						
3) L6 Aroclor-1254{1}	14.18	11.44	64015	170825	471.782	768.844 #
4) L6 Aroclor-1254{2}	15.57	13.55	175449	173040	457.397	412.876
5) L6 Aroclor-1254{3}	15.88	14.97	165339	82669	314.116	551.382 #
6) L6 Aroclor-1254{4}	18.53	15.57	147809	236849	344.719	476.231 #
7) L6 Aroclor-1254{5}	19.86	17.87	289262	183487	333.085	382.927
Sum Aroclor-1254			841874	846869	1921.098	2592.260
Average Aroclor-1254					384.220	518.452

7R36141B 2 3 1A

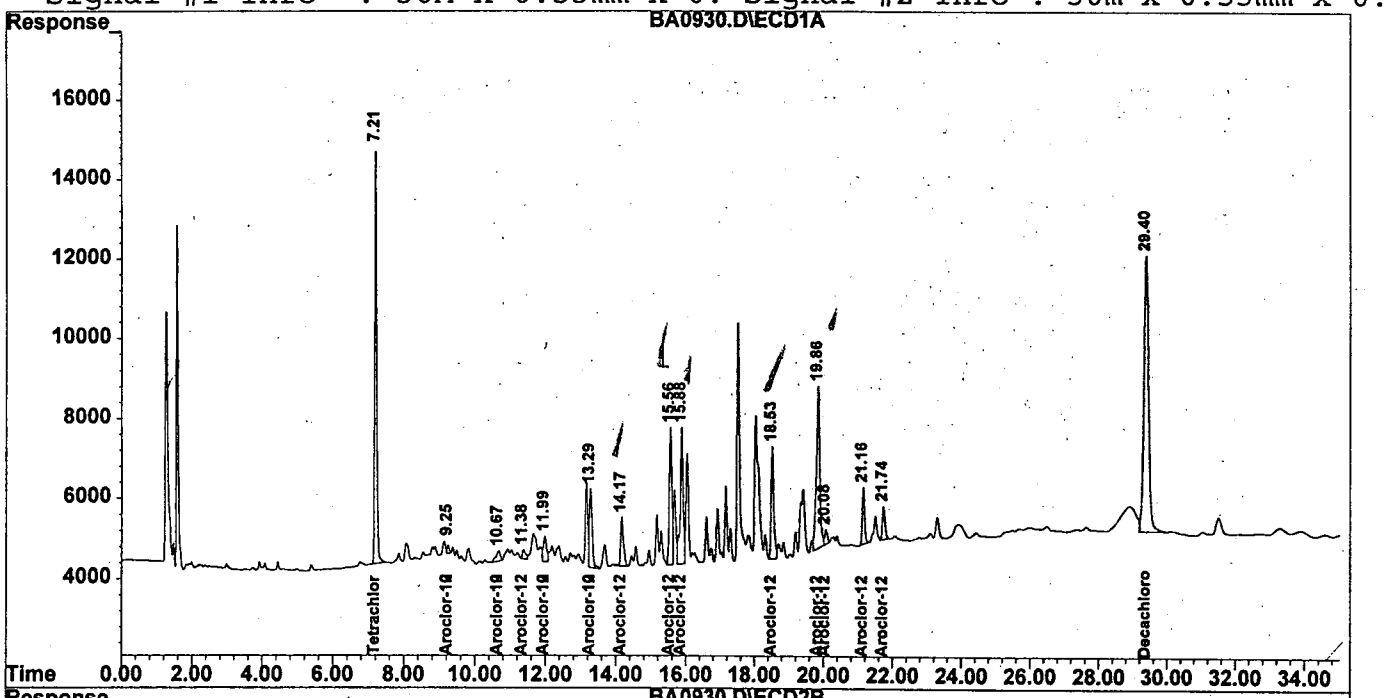
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

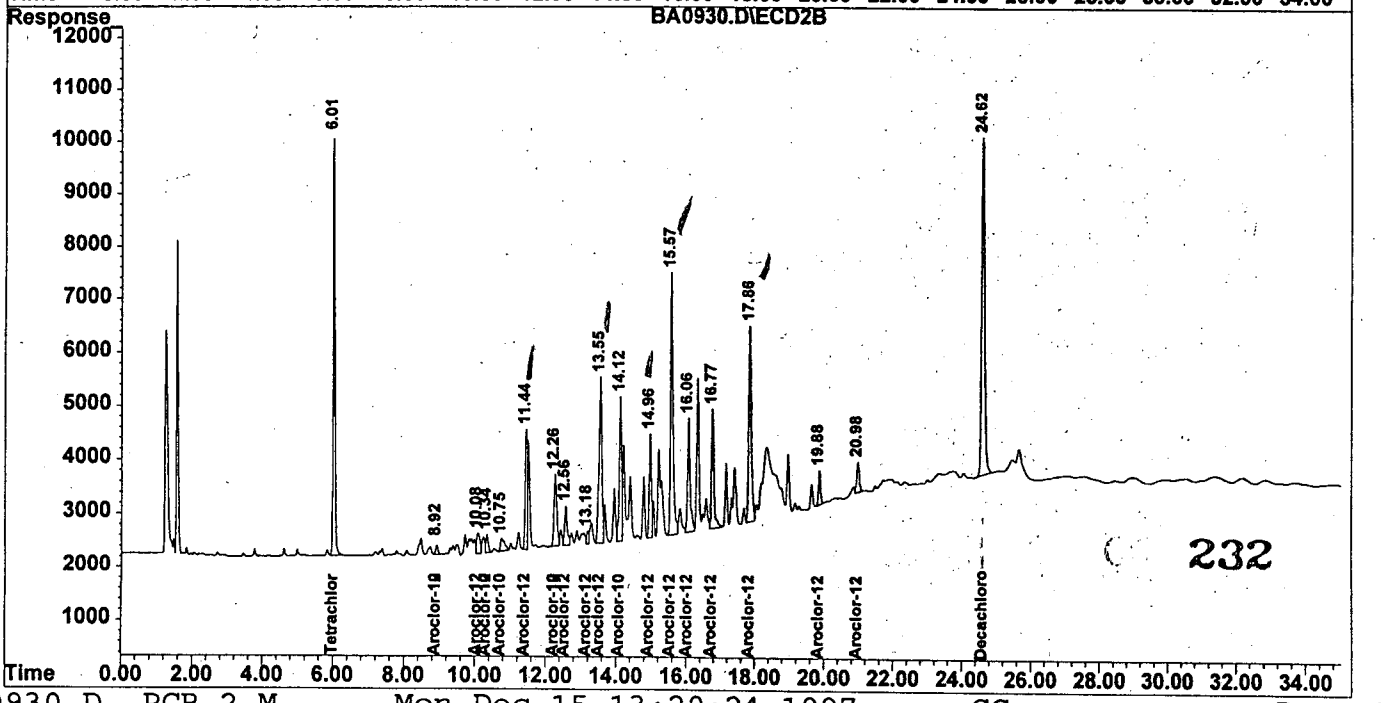
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0930.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA_B\BA0930.D\ECD2B.CH
Acq On : 15 Dec 97 11:28 Operator:
Sample : 278399 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:21 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





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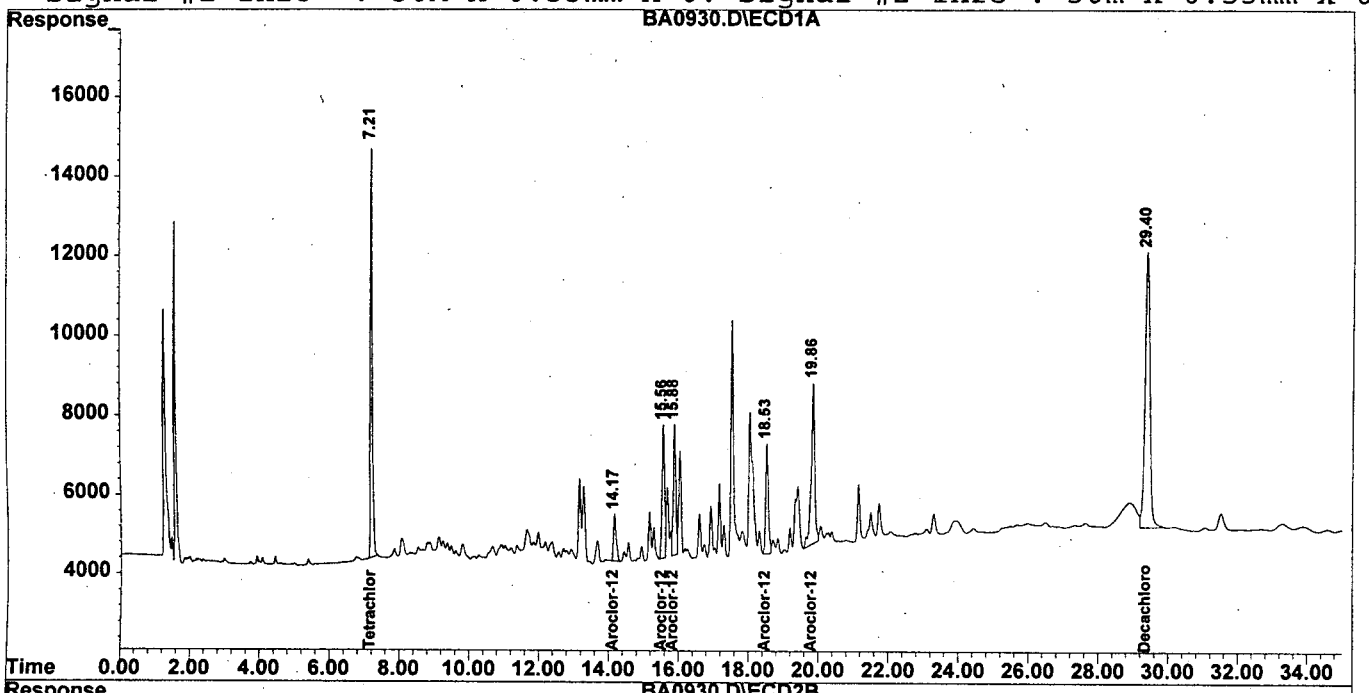
Quantitation Report

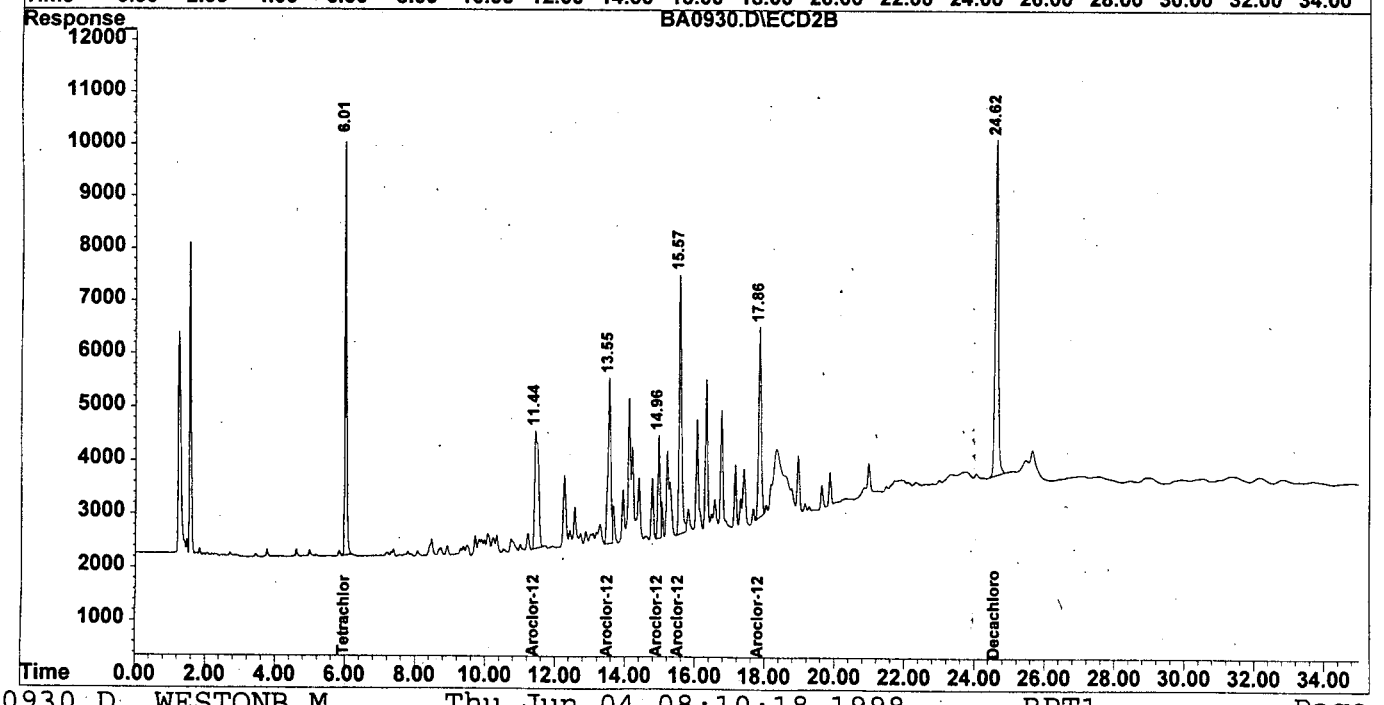
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0930.D\ECD1A.CH Vial: 30
Signal #2 : E:\WESTDA~1\BA0930.D\ECD2B.CH
Acq On : 15 Dec 97 11:28 Operator:
Sample : 278399 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278400
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	22.06%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	43	21
Aroclor-1221	U	U	86	60
Aroclor-1232	U	U	43	34
Aroclor-1242	U	U	43	21
Aroclor-1248	U	U	43	26
Aroclor-1254	940	U	43	30
Aroclor-1260	U	U	43	34

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0932.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA_B\BA0932.D\ECD2B.CH
Acq On : 15 Dec 97 12:46 Operator:
Sample : 278400 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 19:59 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	7.21	6.01	392392	260087	43.315	40.155
Spiked Amount 40.000 Range 43 - 150 Recovery =					108.29%	100.39%
2) SA Decachlorobiphen	29.40	24.62	622121	369522	41.340	41.436
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.35%	103.59%
Target Compounds						
3) L1 Aroclor-1016{1}	9.16	8.89	96212	170675	451.991	586.477 #
4) L1 Aroclor-1016{2}	10.68	10.34	85143	108611	180.586	191.862
5) L1 Aroclor-1016{3}	11.99	10.75	143912	63037	174.962	235.263 #
6) L1 Aroclor-1016{4}	0.00	12.26	0	379272	N.D.	1478.415 #
7) L1 Aroclor-1016{5}	13.28	14.11	620433	457977	1900.080	3105.355 #
Sum Aroclor-1016			945700	1179572	2707.619	5597.373
Average Aroclor-1016					676.905	1119.475
10) L2 Aroclor-1221{3}	9.16	0.00	96212	0	317.841	N.D. #
Sum Aroclor-1221			96212	0	317.841	N.D.
Average Aroclor-1221					317.841	0.000
11) L3 Aroclor-1232{1}	0.00	8.89	0	170675	N.D.	1179.353 #
12) L3 Aroclor-1232{2}	9.16	10.08	96212	261556	470.785	6260.984 #
13) L3 Aroclor-1232{3}	10.68	11.44	85143	387337	392.279	4649.849 #
14) L3 Aroclor-1232{4}	11.99	13.18	143912	42633	409.967	753.565 #
Sum Aroclor-1232			325267	862201	1273.031	12843.750
Average Aroclor-1232					424.344	3210.938
15) L4 Aroclor-1242{1}	9.16	8.89	96212	170675	524.843	683.012 #
16) L4 Aroclor-1242{2}	10.68	10.08	85143	261556	232.198	3407.758 #
17) L4 Aroclor-1242{3}	11.37	11.10	42783	14194	385.896	87.996 #
18) L4 Aroclor-1242{4}	12.92	12.26	34364	379272	199.493	1638.952 #
19) L4 Aroclor-1242{5}	14.17	0.00	482310	0	1327.253	N.D. #
Sum Aroclor-1242			740811	825697	2669.684	5817.718
Average Aroclor-1242					533.937	1454.430
20) L5 Aroclor-1248{1}	10.68	10.34	85143	108611	438.890	260.764 #
21) L5 Aroclor-1248{2}	11.99	12.26	143912	379272	257.228	1119.190 #

(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\BA0932.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA_B\BA0932.D\ECD2B.CH
Acq On : 15 Dec 97 12:46 Operator:
Sample : 278400 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 19:59 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	
22)	L5 Aroclor-1248{3}	13.28	12.56	620433	168960	1501.102	533.770	#
23)	L5 Aroclor-1248{4}	14.17	13.55	482310	735146	971.741	2732.082	#
24)	L5 Aroclor-1248{5}	16.19	15.57	67424	1056275	178.838	8386.317	#
	Sum Aroclor-1248			1399223	2448263	3347.800	13032.123	
Average	Aroclor-1248					669.560	2606.425	
						NP	NP	
25)	L6 Aroclor-1254{1}	14.17	11.44	482310	387337	3553.356	1756.889	#
26)	L6 Aroclor-1254{2}	15.55	13.55	1277703	735146	3465.614	1755.470	#
27)	L6 Aroclor-1254{3}	15.88	14.97	747437	566930	1621.886	3792.454	#
28)	L6 Aroclor-1254{4}	18.53	15.57	728657	1056275	1797.855	2173.720	
29)	L6 Aroclor-1254{5}	19.86	17.86	1179475	906543	1366.708	1994.867	#
	Sum Aroclor-1254			4415583	3652231	11805.420	11473.399	
Average	Aroclor-1254					2361.084	2294.680	
30)	L7 Aroclor-1260{1}	18.11	16.06	539225	462140	1036.091	1355.942	#
31)	L7 Aroclor-1260{2}	18.53	16.77	728657	375744	1183.755	924.236	
32)	L7 Aroclor-1260{3}	20.08	17.86	81715	906543	179.088	1757.747	#
33)	L7 Aroclor-1260{4}	21.16	19.88	311849	139482	669.286	222.762	#
34)	L7 Aroclor-1260{5}	21.74	20.99	229270	116980	177.850	247.660	#
	Sum Aroclor-1260			1890717	2000890	3246.069	4508.346	
Average	Aroclor-1260					649.214	901.669	
						NP	NP	

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12/16/02

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0932.D\ECD1A.CH Vial: 32
Signal #2 : E:\WESTDA~1\BA0932.D\ECD2B.CH
Acq On : 15 Dec 97 12:46 Operator:
Sample : 278400 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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	7.21	6.01	385195	250047	41.407	41.380
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.52%	103.45%
2) SA Decachlorobiphen	29.40	24.62	621184	369072	41.132	44.426
Spiked Amount 40.000 Range 24 - 154 Recovery =					102.83%	111.07%
Target Compounds						
3) L6 Aroclor-1254{1}	14.17	11.44	442269	381696	3259.448	1717.931 #
4) L6 Aroclor-1254{2}	15.55	13.55	1261764	733903	3289.424	1751.106 #
5) L6 Aroclor-1254{3}	15.88	14.97	735801	566405	1397.895	3777.780 #
6) L6 Aroclor-1254{4}	18.53	15.57	726637	1055441	1694.663	2122.172 #
7) L6 Aroclor-1254{5}	19.86	17.86	1179475	905621	1358.163	1889.980 #
Sum Aroclor-1254			4345946	3643066	~~10999.593~~	11258.969
Average Aroclor-1254					2199.919	2251.794

2 3 5A

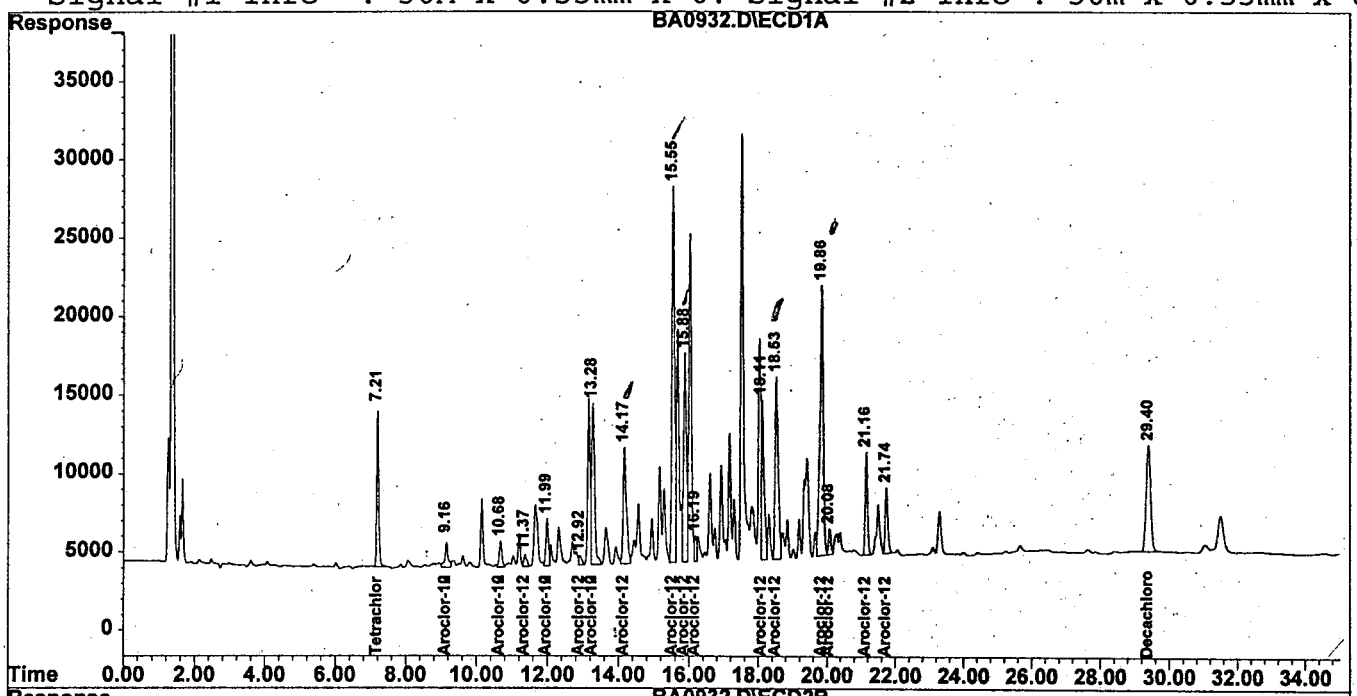
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

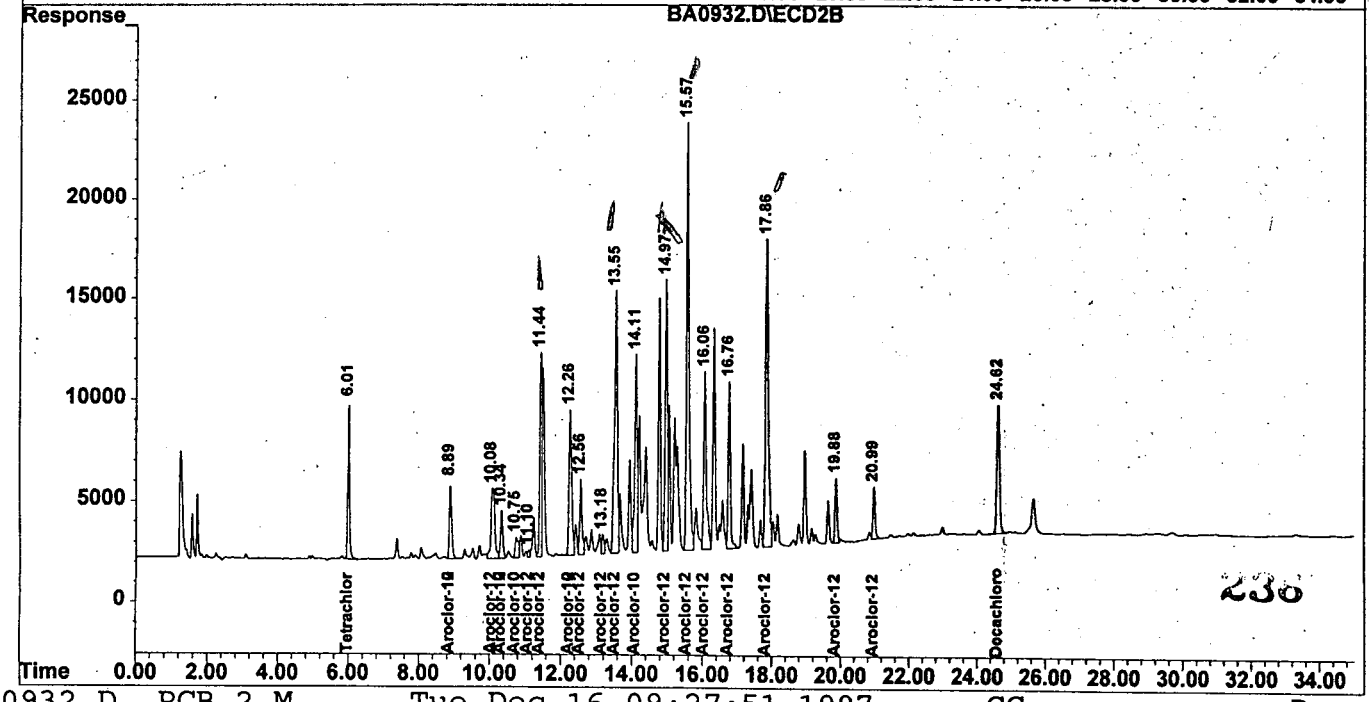
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0932.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA_B\BA0932.D\ECD2B.CH
Acq On : 15 Dec 97 12:46 Operator:
Sample : 278400 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 19:59 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





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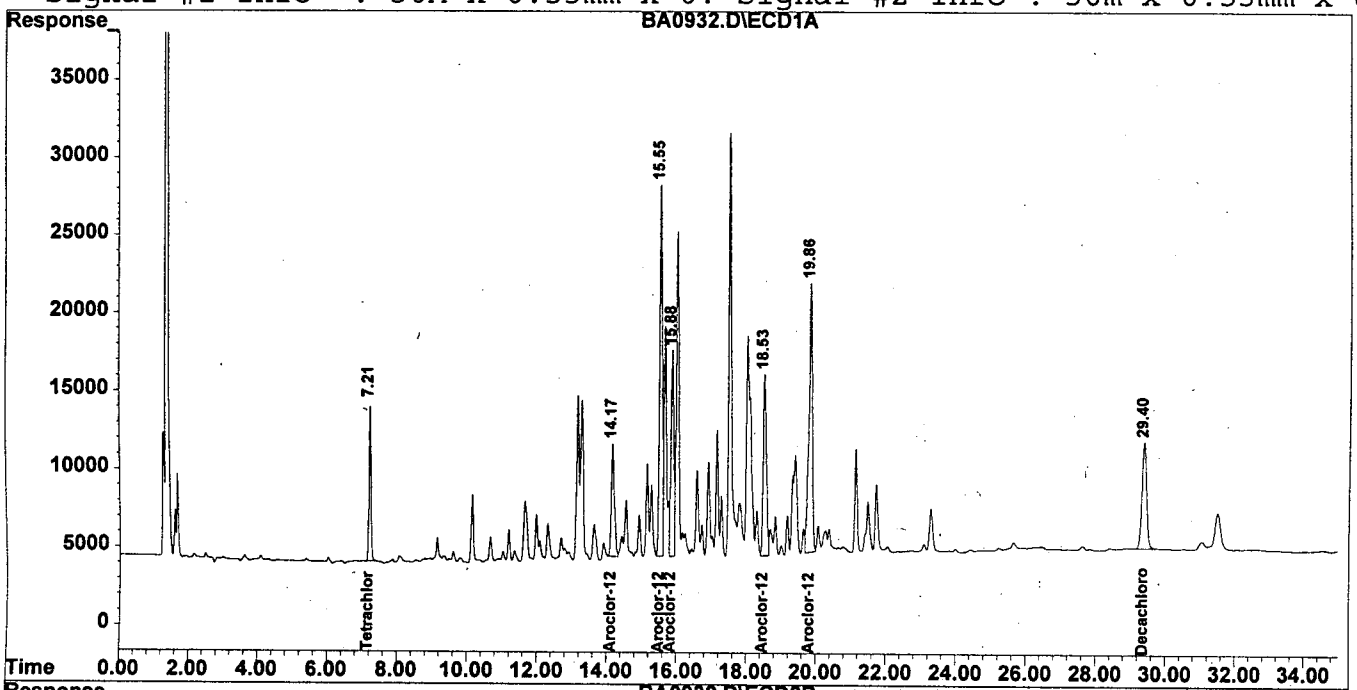
Quantitation Report

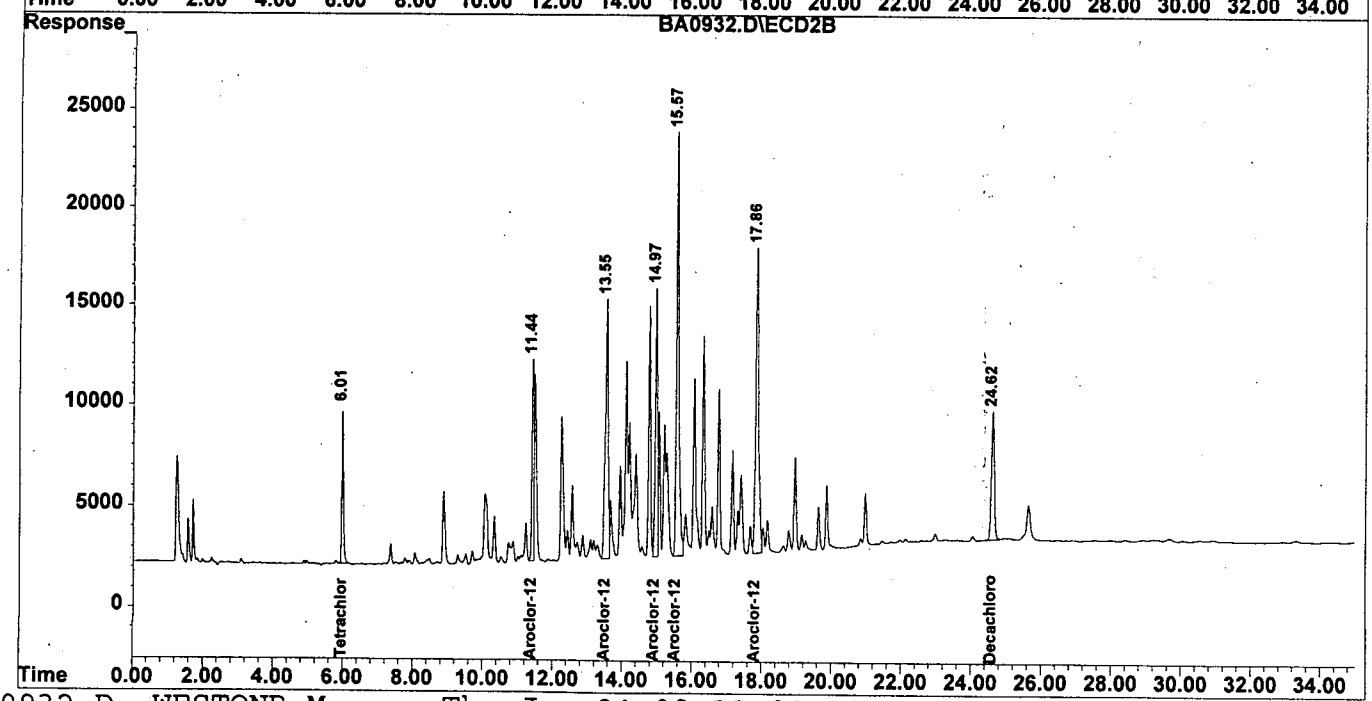
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0932.D\ECD1A.CH Vial: 32
Signal #2 : E:\WESTDA~1\BA0932.D\ECD2B.CH
Acq On : 15 Dec 97 12:46 Operator:
Sample : 278400 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278401
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRNS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	52.91%

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	71	35
Aroclor-1221	U	U	140	99
Aroclor-1232	U	U	71	57
Aroclor-1242	U	U	71	35
Aroclor-1248	U	U	71	42
Aroclor-1254	980	U	71	50
Aroclor-1260	U	U	71	57

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.

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Thomas Mancuso, Lab Mgr.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0934.D\ECD1A.CH Vial: 34
Signal #2 : C:\HPCHEM\1\DATA_B\BA0934.D\ECD2B.CH
Acq On : 15 Dec 97 14:04 Operator:
Sample : 278401 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:00 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	7.21	6.01	351922	226420	38.847	34.958	
Spiked Amount 40.000 Range 43 - 150 Recovery =					97.12%	87.40%	
2) SA Decachlorobiphen	29.41	24.63	541504	328149	35.983	36.797	
Spiked Amount 40.000 Range 24 - 154 Recovery =					89.96%	91.99%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.16	8.93	32713	8825	153.681	30.325	#
4) L1 Aroclor-1016{2}	10.68	10.34	28547	27335	60.548	48.288	
5) L1 Aroclor-1016{3}	11.99	10.75	49205	41378	59.821	154.428	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	149303	N.D.	581.989	#
7) L1 Aroclor-1016{5}	13.29	14.12	306525	376830	938.735	2555.128	#
Sum Aroclor-1016			416990	603671	1212.784	3370.157	
Average Aroclor-1016					303.196	674.031	
					NP	NP	
10) L2 Aroclor-1221{3}	9.16	0.00	32713	0	108.069	N.D.	#
Sum Aroclor-1221			32713	0	108.069	N.D.	
Average Aroclor-1221					108.069	0.000	
					NP		
11) L3 Aroclor-1232{1}	0.00	8.93	0	8825	N.D.	60.981	#
12) L3 Aroclor-1232{2}	9.16	10.12	32713	42992	160.071	1029.117	#
13) L3 Aroclor-1232{3}	10.68	11.44	28547	162971	131.525	1956.416	#
14) L3 Aroclor-1232{4}	11.99	13.20	49205	25637	140.172	453.147	#
Sum Aroclor-1232			110465	240425	431.768	3499.661	
Average Aroclor-1232					143.923	874.915	
					NP	NP	
15) L4 Aroclor-1242{1}	9.16	8.93	32713	8825	178.451	35.317	#
16) L4 Aroclor-1242{2}	10.68	10.12	28547	42992	77.852	560.133	#
17) L4 Aroclor-1242{3}	11.37	0.00	9982	0	90.033	N.D.	#
18) L4 Aroclor-1242{4}	12.94	12.26	37143	149303	215.626	645.185	#
19) L4 Aroclor-1242{5}	14.18	0.00	155571	0	428.110	N.D.	#
Sum Aroclor-1242			263955	201120	990.073	1240.634	
Average Aroclor-1242					198.015	413.545	
					NP	NP	
20) L5 Aroclor-1248{1}	10.68	10.34	28547	27335	147.153	65.630	#
21) L5 Aroclor-1248{2}	11.99	12.26	49205	149303	87.949	440.577	#
					NP	NP	

238

(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\BA0934.D\ECD1A.CH Vial: 34
Signal #2 : C:\HPCHEM\1\DATA_B\BA0934.D\ECD2B.CH
Acq On : 15 Dec 97 14:04 Operator:
Sample : 278401 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:00 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	
22) L5	Aroclor-1248{3}	13.29	12.56	306525	83617	741.620	264.158	#
23) L5	Aroclor-1248{4}	14.18	13.55	155571	474505	313.438	1763.442	#
24) L5	Aroclor-1248{5}	0.00	15.57	0	851879	N.D.	6763.508	#
Sum	Aroclor-1248			539848	1586639	1290.160	9297.315	
Average	Aroclor-1248					322.540	1859.463	
						NO	NO	
25) L6	Aroclor-1254{1}	14.18	11.44	155571	162971	1146.147	739.208	#
26) L6	Aroclor-1254{2}	15.56	13.55	661112	474505	1793.185	1133.081	#
27) L6	Aroclor-1254{3}	15.88	14.97	592271	308260	1285.187	2062.096	#
28) L6	Aroclor-1254{4}	18.53	15.57	696587	851879	1718.726	1753.091	
29) L6	Aroclor-1254{5}	19.86	17.87	1332666	848801	1544.217	1867.804	
Sum	Aroclor-1254			3438207	2646417	7487.463	7555.280	
Average	Aroclor-1254					1497.493	1511.056	
30) L7	Aroclor-1260{1}	18.11	16.06	516083	453477	991.624	1330.524	#
31) L7	Aroclor-1260{2}	18.53	16.77	696587	421669	1131.654	1037.199	
32) L7	Aroclor-1260{3}	20.08	17.87	115783	848801	253.752	1645.788	#
33) L7	Aroclor-1260{4}	21.16	19.88	357686	162684	767.661	259.817	#
34) L7	Aroclor-1260{5}	21.75	20.99	308815	136314	239.554	288.593	
Sum	Aroclor-1260			1994954	2022946	3384.245	4561.920	
Average	Aroclor-1260					676.849	912.384	
						NP	NP	

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RS 12/16/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0934.D\ECD1A.CH Vial: 34
Signal #2 : E:\WESTDA~1\BA0934.D\ECD2B.CH
Acq On : 15 Dec 97 14:04 Operator:
Sample : 278401 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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	7.21	6.01	346779	222063	37.277	36.749
Spiked Amount 40.000 Range 43 - 150 Recovery =					93.19%	91.87%
2) SA Decachlorobiphen	29.41	24.63	542583	327756	35.928	39.453
Spiked Amount 40.000 Range 24 - 154 Recovery =					89.82%	98.63%
Target Compounds						
3) L6 Aroclor-1254{1}	14.18	11.44	138422	160967	1020.148	724.479 #
4) L6 Aroclor-1254{2}	15.56	13.55	645609	474385	1683.105	1131.893 #
5) L6 Aroclor-1254{3}	15.88	14.97	576304	305652	1094.879	2038.622 #
6) L6 Aroclor-1254{4}	18.53	15.57	696479	843964	1624.327	1696.957
7) L6 Aroclor-1254{5}	19.86	17.87	1332592	808703	1534.477	1687.719
Sum Aroclor-1254			3389406	2593673	6956.937	7279.669
Average Aroclor-1254					1391.387	1455.934

4.5%D

TMS 6/4/98

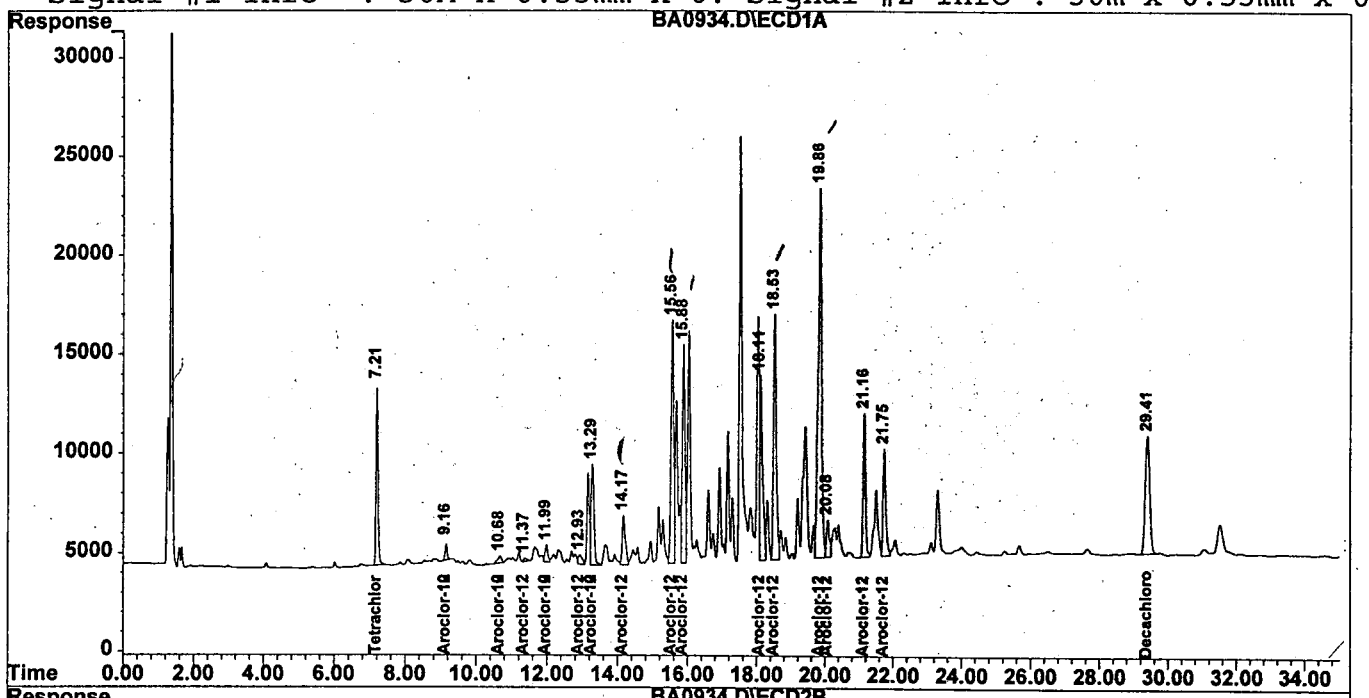
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

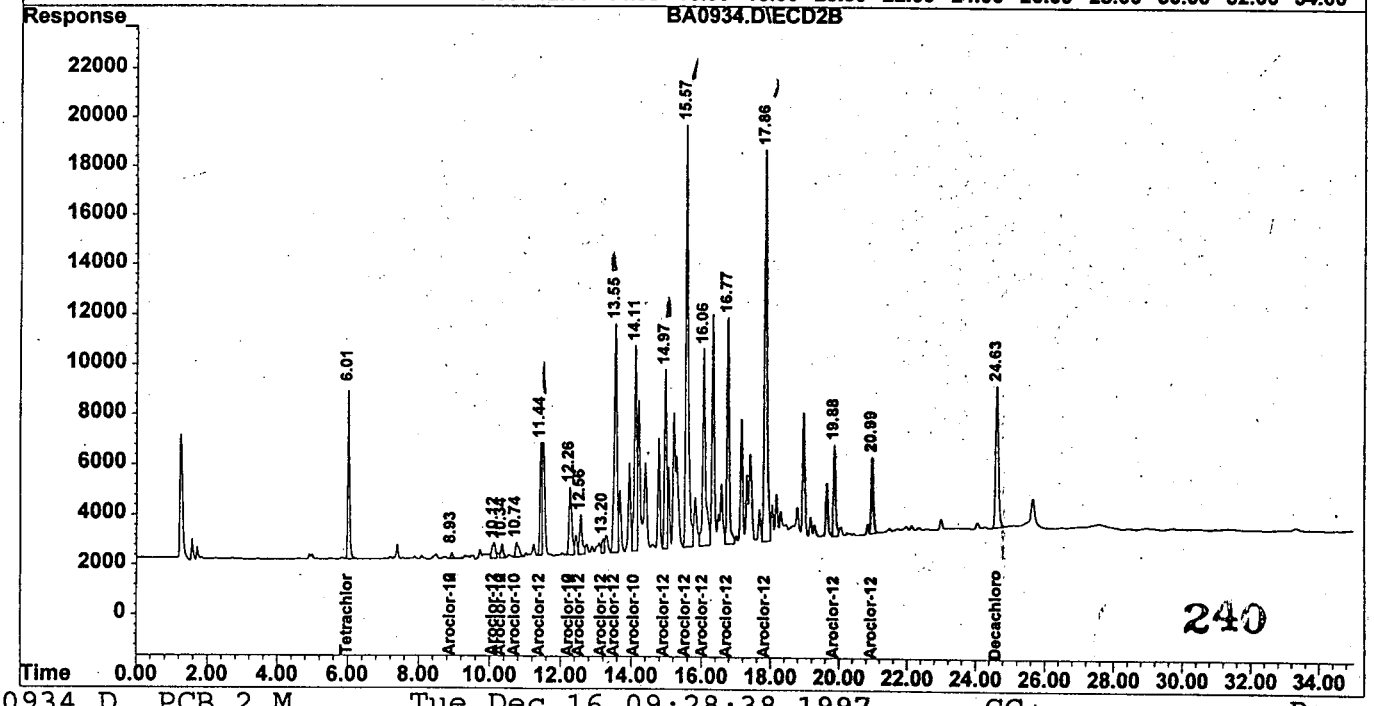
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0934.D\ECD1A.CH Vial: 34
Signal #2 : C:\HPCHEM\1\DATA_B\BA0934.D\ECD2B.CH
Acq On : 15 Dec 97 14:04 Operator:
Sample : 278401 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:00 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





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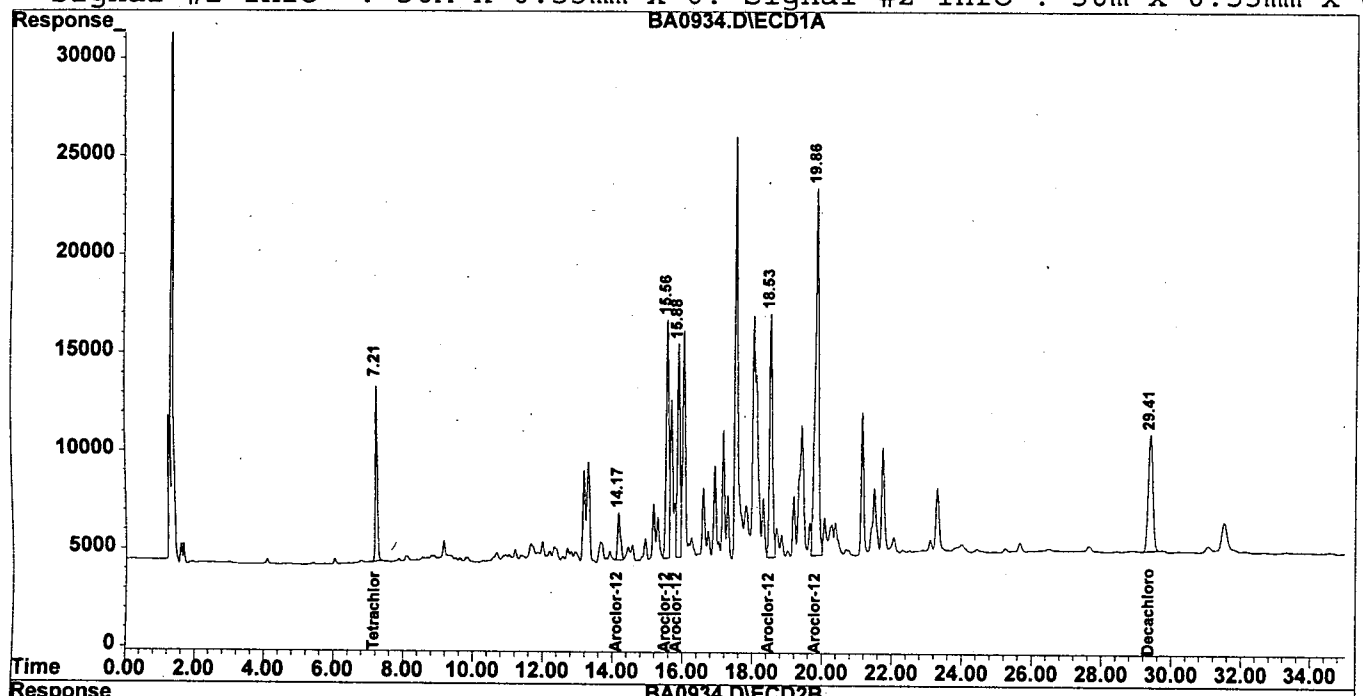
AMENDED REPORT JUN 0 5 1998

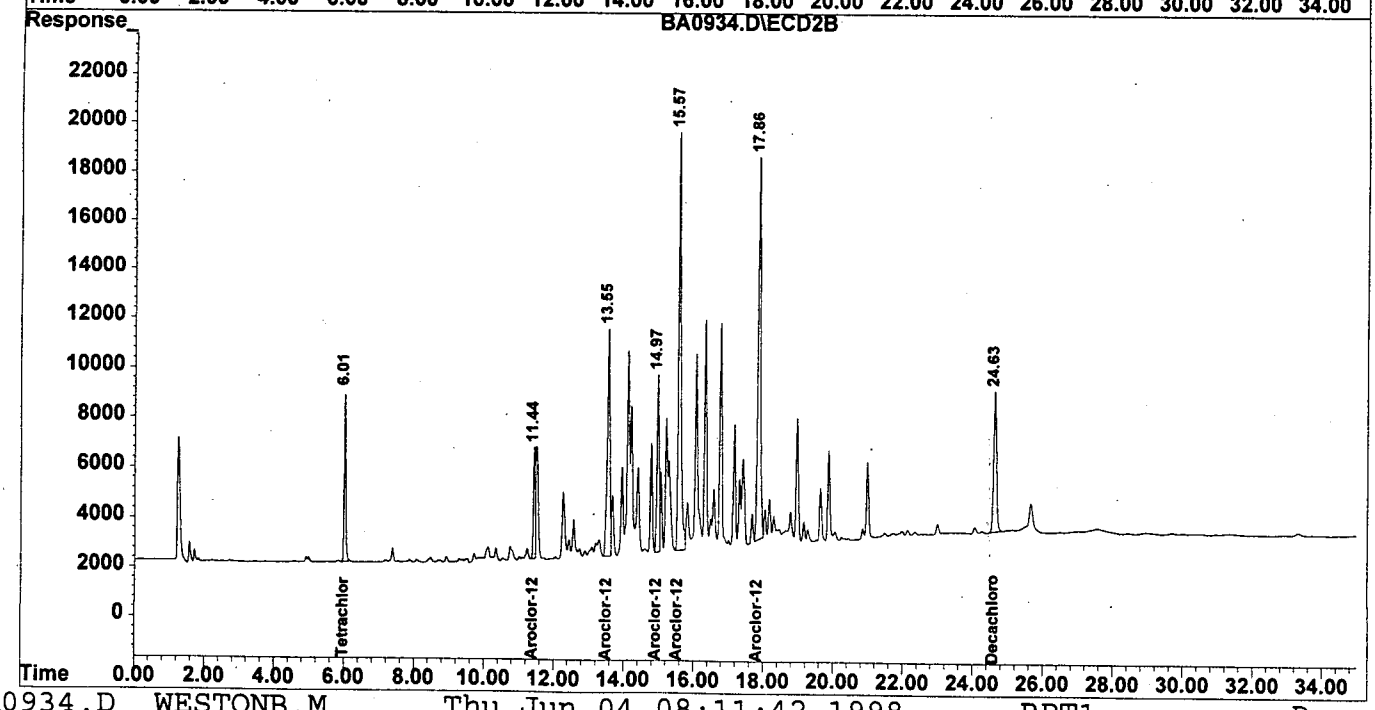
Quantitation Report

Signal #1 : E:\WESTDA~1\BA0934.D\ECD1A.CH Vial: 34
Signal #2 : E:\WESTDA~1\BA0934.D\ECD2B.CH
Acq On : 15 Dec 97 14:04 Operator:
Sample : 278401 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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





240A

AMENDED REPORT JUN 0 5 1998

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 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: 278402
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRND1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	~~50.15%~~

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	67	33
Aroclor-1221	U	U	130	94
Aroclor-1232	U	U	67	53
Aroclor-1242	U	U	67	33
Aroclor-1248	730	U	67	40
Aroclor-1254	1700 ~~1600~~	U	67	47
Aroclor-1260	U	U	67	53

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0935.D\ECD1A.CH Vial: 35
Signal #2 : C:\HPCHEM\1\DATA_B\BA0935.D\ECD2B.CH
Acq On : 15 Dec 97 14:42 Operator:
Sample : 278402 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:00 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	7.21	6.01	395851	259287	43.697	40.032	
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.24%	100.08%	
2) SA Decachlorobiphen	29.41	24.63	641415	381712	42.622	42.803	
Spiked Amount 40.000 Range 24 - 154 Recovery =					106.56%	107.01%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.23	8.90	29343	360840	137.850	1239.926	#
4) L1 Aroclor-1016{2}	10.68	10.34	212450	265441	450.600	468.906	
5) L1 Aroclor-1016{3}	12.00	10.76	382363	115355	464.860	430.522	
6) L1 Aroclor-1016{4}	12.50	12.26	51749	563890	184.836	2198.063	#
7) L1 Aroclor-1016{5}	13.29	14.12	918305	708141	2812.315	4801.613	#
Sum Aroclor-1016			1594209	2013667	4050.461	9139.029	
Average Aroclor-1016					810.092	1827.806	
9) L2 Aroclor-1221{2}	8.96	7.54	48884	11487	497.698	162.893	#
10) L2 Aroclor-1221{3}	9.23	7.69	29343	14038	96.937	57.552	#
Sum Aroclor-1221			78227	25525	594.634	220.445	
Average Aroclor-1221					297.317	110.223	
11) L3 Aroclor-1232{1}	8.96	8.90	48884	360840	853.986	2493.378	#
12) L3 Aroclor-1232{2}	9.23	10.08	29343	386342	143.582	9248.050	#
13) L3 Aroclor-1232{3}	10.68	11.44	212450	568188	978.819	6820.907	#
14) L3 Aroclor-1232{4}	12.00	13.18	382363	114411	1089.252	2022.294	#
Sum Aroclor-1232			673040	1429782	3065.640	20584.628	
Average Aroclor-1232					766.410	5146.157	
15) L4 Aroclor-1242{1}	9.23	8.90	29343	360840	160.069	1444.020	#
16) L4 Aroclor-1242{2}	10.68	10.08	212450	386342	579.384	5033.573	#
17) L4 Aroclor-1242{3}	11.38	11.10	97279	48457	877.450	300.408	#
18) L4 Aroclor-1242{4}	12.92	12.26	89270	563890	518.243	2436.745	#
19) L4 Aroclor-1242{5}	14.18	0.00	763133	0	2100.038	N.D.	#
Sum Aroclor-1242			1191474	1359529	4235.183	9214.745	
Average Aroclor-1242					847.037	2303.686	
20) L5 Aroclor-1248{1}	10.68	10.34	212450	265441	1095.125	637.299	#

242

(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\BA0935.D\ECD1A.CH Vial: 35
Signal #2 : C:\HPCHEM\1\DATA_B\BA0935.D\ECD2B.CH
Acq On : 15 Dec 97 14:42 Operator:
Sample : 278402 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:00 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}	12.00	12.26	382363	563890	683.435	1663.978	#
22)	L5 Aroclor-1248{3}	13.29	12.57	918305	306187	2221.786	967.291	#
23)	L5 Aroclor-1248{4}	~~14.18~~	~~13.55~~	763133	1187389	~~1537.531~~	~~4412.789~~	#
24)	L5 Aroclor-1248{5}	~~16.19~~	~~15.57~~	170446	1599098	~~452.096~~	~~12696.075~~	#
	Sum Aroclor-1248			2446697	3922004	~~5989.974~~	~~20377.432~~	
	Average Aroclor-1248					~~1197.995~~	~~4075.486~~	
					Sum	4452.442	3286.394	
					Avg	1113.111	10891.465	
25)	L6 Aroclor-1254{1}	14.18	11.44	763133	568188	~~5622.274~~	2577.197	#
26)	L6 Aroclor-1254{2}	15.56	13.55	1730835	1187389	~~4694.680~~	2835.390	#
27)	L6 Aroclor-1254{3}	15.89	14.97	1144277	761646	2482.999	~~5095.002~~	#
28)	L6 Aroclor-1254{4}	18.53	15.57	1139114	1599098	2810.599	~~3290.802~~	
29)	L6 Aroclor-1254{5}	19.86	17.86	2054759	1457846	2380.937	3208.020	#
	Sum Aroclor-1254			6832118	5574167	~~17991.489~~	~~17006.412~~	
	Average Aroclor-1254					~~3598.298~~	~~3401.282~~	
					Sum	7674.535	8620.607	
					Avg	1558.178	2873.536	
30)	L7 Aroclor-1260{1}	0.00	16.06	0	704855	N.D.	2068.079	#
31)	L7 Aroclor-1260{2}	18.53	16.77	1139114	626638	1850.571	1541.373	
32)	L7 Aroclor-1260{3}	20.08	17.86	152313	1457846	333.809	2826.699	#
33)	L7 Aroclor-1260{4}	21.16	19.88	533095	230293	1144.123	367.792	#
34)	L7 Aroclor-1260{5}	21.75	20.99	415210	196997	322.087	417.065	#
	Sum Aroclor-1260			2239732	3216630	3650.590	7221.008	
	Average Aroclor-1260					912.647	1444.202	

243

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0935.D\ECD1A.CH Vial: 35
Signal #2 : E:\WESTDA~1\BA0935.D\ECD2B.CH
Acq On : 15 Dec 97 14:42 Operator:
Sample : 278402 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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	7.21	6.01	387164	251919	41.618	41.689
Spiked Amount 40.000 Range 43 - 150 Recovery =					104.05%	104.22%
2) SA Decachlorobiphen	29.41	24.63	640963	381143	42.442	45.879
Spiked Amount 40.000 Range 24 - 154 Recovery =					106.11%	114.70%
Target Compounds						
3) L6 Aroclor-1254{1}	~~14.18~~	11.44	708618	561296	~~5222.396~~	2526.267 #
4) L6 Aroclor-1254{2}	~~15.56~~	13.55	1708318	1187212	~~4453.593~~	2832.709 #
5) L6 Aroclor-1254{3}	~~15.89~~	14.97	1126905	761564	~~2140.926~~	~~5079.439~~ #
6) L6 Aroclor-1254{4}	18.53	15.57	1134608	1598982	2646.132	~~3215.069~~
7) L6 Aroclor-1254{5}	19.86	17.86	2054759	1427962	2366.051	2980.077 #
Sum Aroclor-1254			6733209	5537015	~~16829.099~~	~~16633.561~~
Average Aroclor-1254					~~3365.820~~	~~3326.712~~
					Sum ~~7153.109~~	8339.053
					Avg ~~2384.370~~	~~2779.684~~
					2506.09	3097.57

21%D

243A 6/9/1

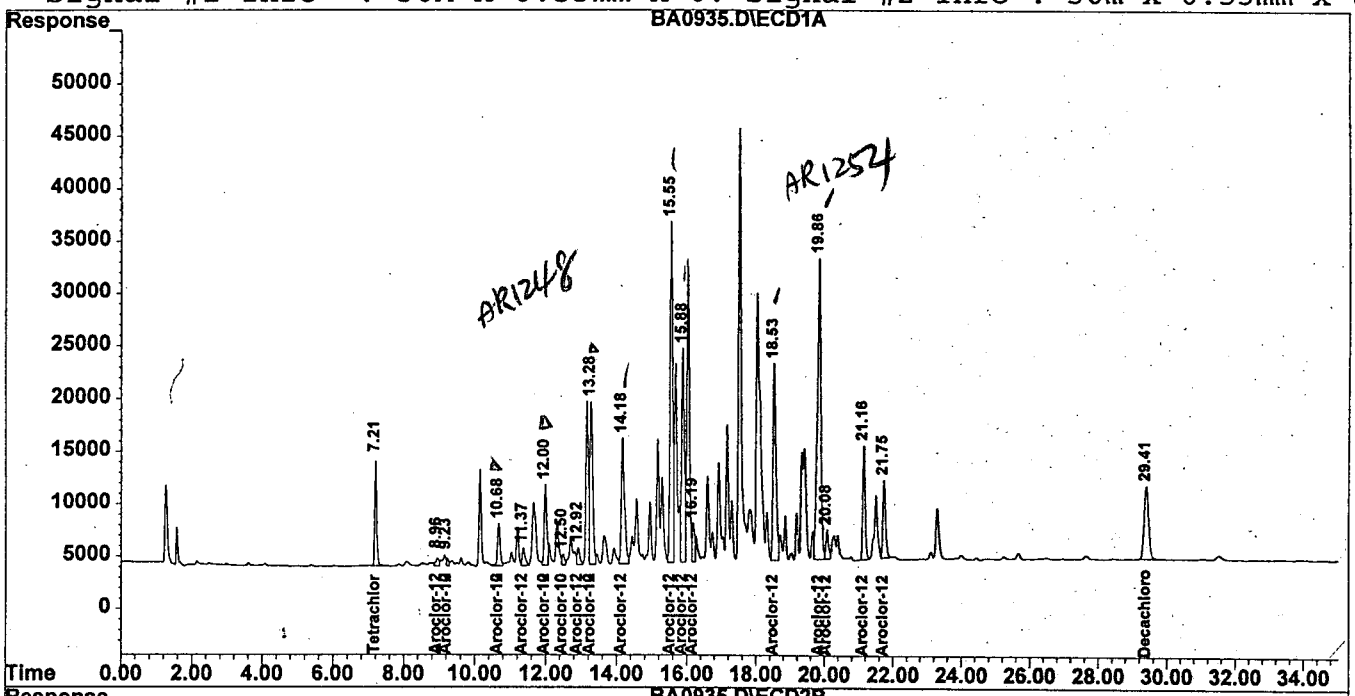
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

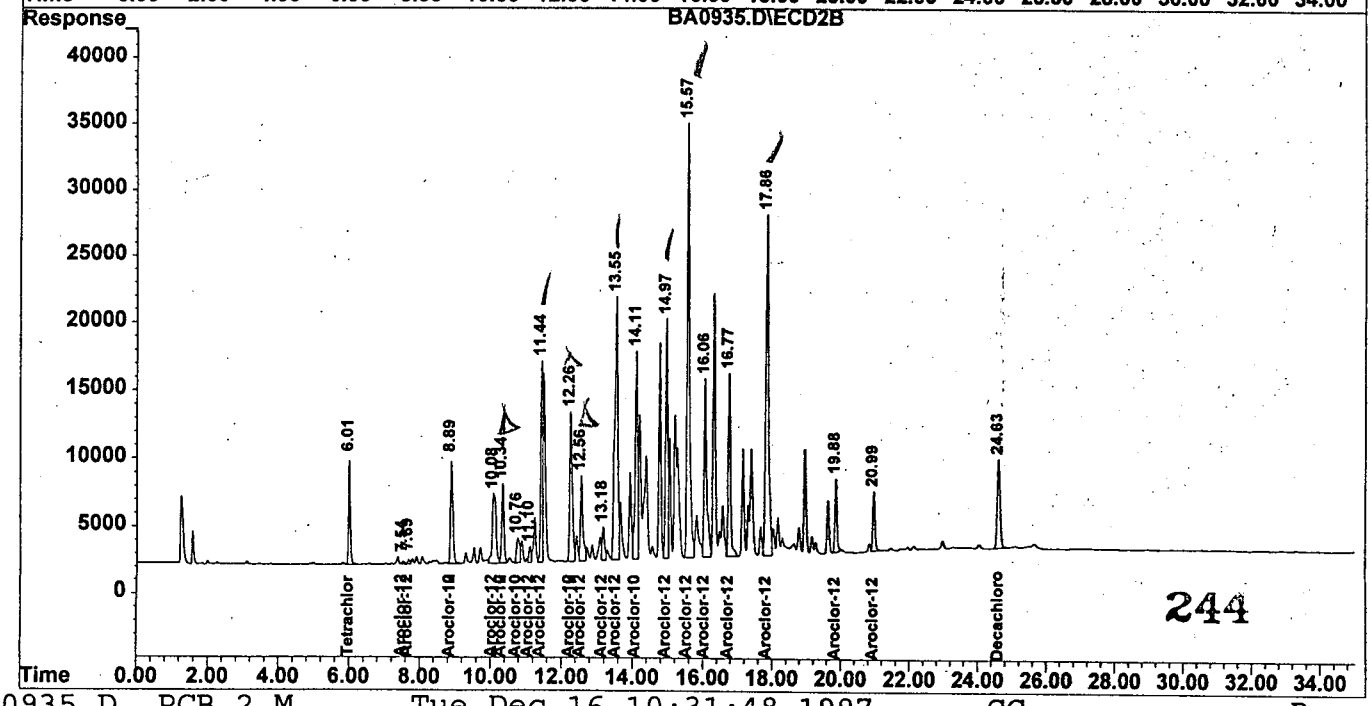
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0935.D\ECD1A.CH Vial: 35
Signal #2 : C:\HPCHEM\1\DATA_B\BA0935.D\ECD2B.CH
Acq On : 15 Dec 97 14:42 Operator:
Sample : 278402 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:00 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





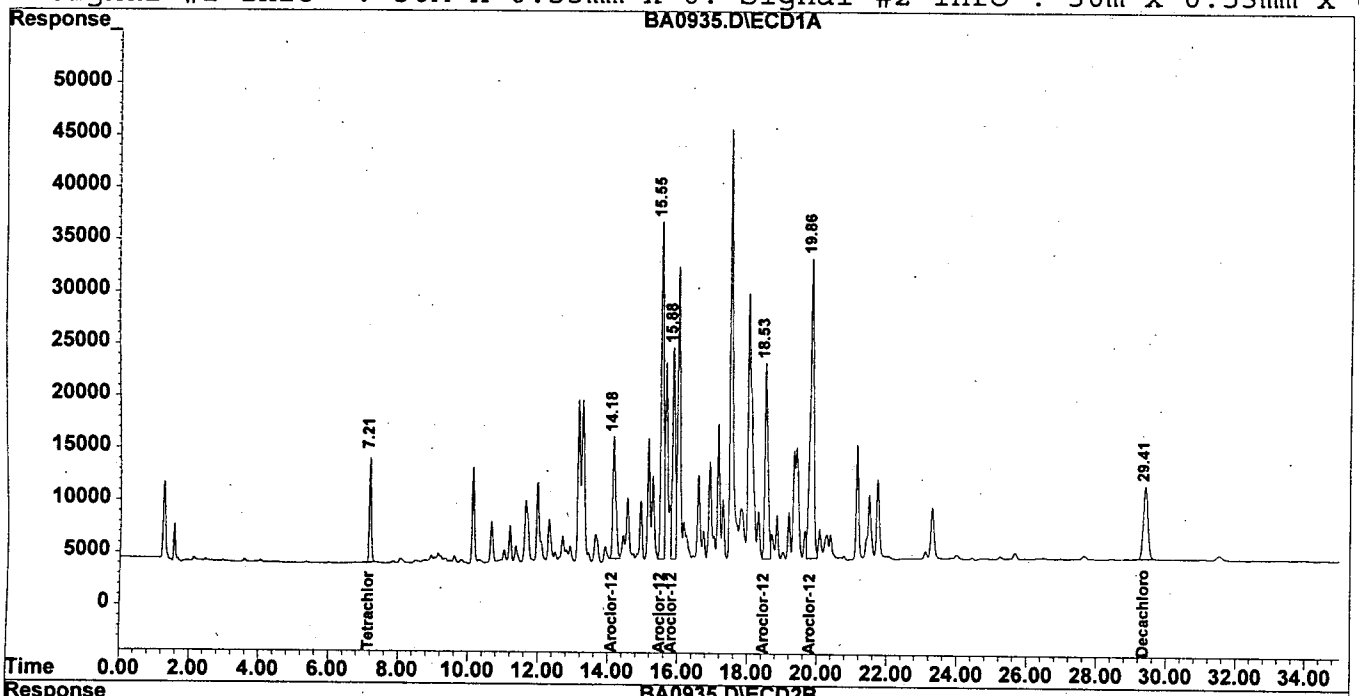
Quantitation Report

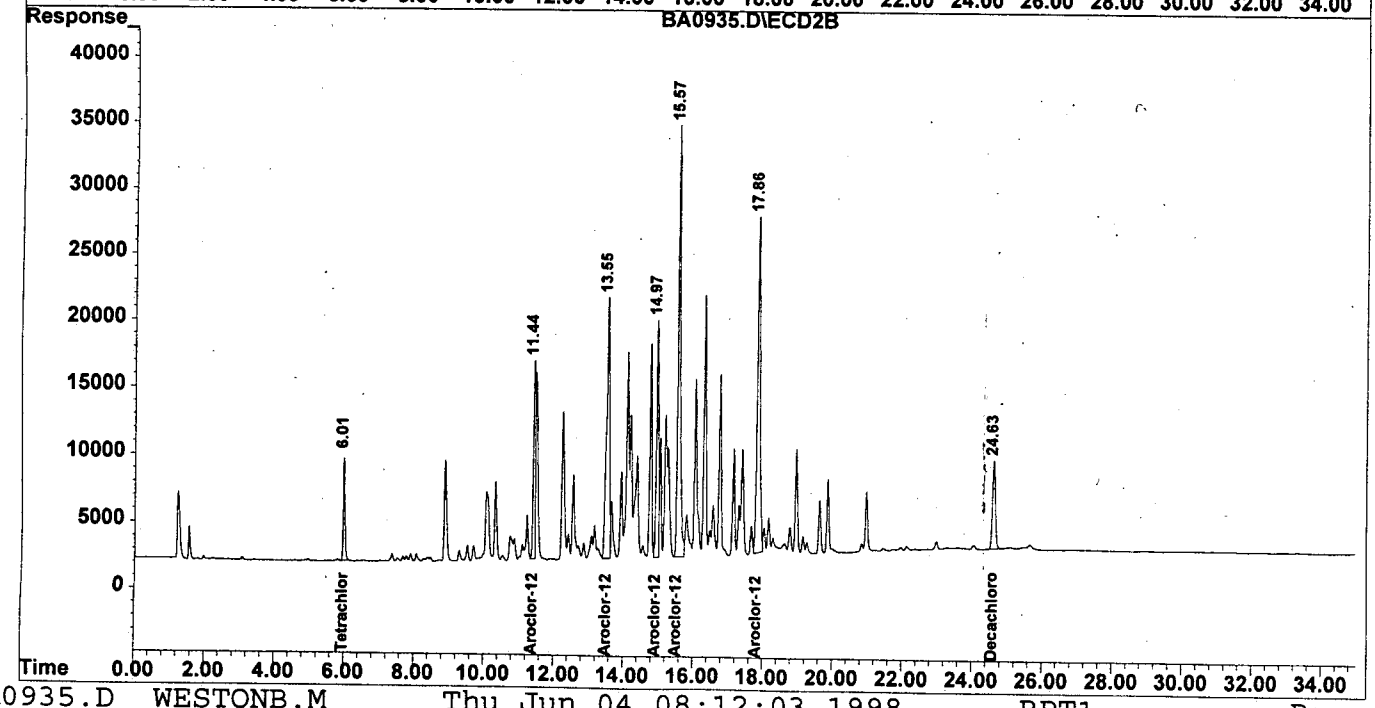
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0935.D\ECD1A.CH Vial: 35
Signal #2 : E:\WESTDA~1\BA0935.D\ECD2B.CH
Acq On : 15 Dec 97 14:42 Operator:
Sample : 278402 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278403
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRNS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	55.62%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	75	38
Aroclor-1221	U	U	150	100
Aroclor-1232	U	U	75	60
Aroclor-1242	U	U	75	38
Aroclor-1248	U	U	75	45
Aroclor-1254	1100	U	75	52
Aroclor-1260	U	U	75	60

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.

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Thomas Mancuso, Lab Mgr.
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ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0936.D\ECD1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA_B\BA0936.D\ECD2B.CH
Acq On : 15 Dec 97 15:21 Operator:
Sample : 278403 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:01 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	7.21	6.01	411604	267202	45.436	41.254	
Spiked Amount 40.000 Range 43 - 150 Recovery =					113.59%	103.14%	
2) SA Decachlorobiphen	29.40	24.63	625860	377934	41.589	42.379	
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.97%	105.95%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.25	8.93	3295	11748	15.478	40.369	#
4) L1 Aroclor-1016{2}	10.68	10.34	39465	36535	83.705	64.540	
5) L1 Aroclor-1016{3}	11.99	10.75	54271	54810	65.980	204.660	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	173058	N.D.	674.586	#
7) L1 Aroclor-1016{5}	13.29	14.12	332902	383858	1019.515	2602.785	#
Sum Aroclor-1016			429933	660010	1184.677	3586.840	
Average Aroclor-1016					296.169	717.368	
10) L2 Aroclor-1221{3}	9.25	0.00	3295	0	10.884	N.D.	#
Sum Aroclor-1221			3295	0	10.884	N.D.	
Average Aroclor-1221					10.884	0.000	
11) L3 Aroclor-1232{1}	0.00	8.93	0	11748	N.D.	81.179	#
12) L3 Aroclor-1232{2}	9.25	10.11	3295	54284	16.121	1299.411	#
13) L3 Aroclor-1232{3}	10.68	11.44	39465	185023	181.828	2221.133	#
14) L3 Aroclor-1232{4}	11.99	13.20	54271	30599	154.603	540.865	#
Sum Aroclor-1232			97030	281654	352.552	4142.588	
Average Aroclor-1232					117.517	1035.647	
15) L4 Aroclor-1242{1}	9.25	8.93	3295	11748	17.972	47.014	#
16) L4 Aroclor-1242{2}	10.68	10.11	39465	54284	107.628	707.250	#
17) L4 Aroclor-1242{3}	11.37	11.10	12661	5004	114.202	31.021	#
18) L4 Aroclor-1242{4}	12.93	12.26	36137	173058	209.788	747.837	#
19) L4 Aroclor-1242{5}	14.18	0.00	182390	0	501.913	N.D.	#
Sum Aroclor-1242			273948	244093	951.503	1533.122	
Average Aroclor-1242		246			190.301	383.281	
20) L5 Aroclor-1248{1}	10.68	10.34	39465	36535	203.433	87.718	#
21) L5 Aroclor-1248{2}	11.99	12.26	54271	173058	97.003	510.675	#

(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\BA0936.D\ECD1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA_B\BA0936.D\ECD2B.CH
Acq On : 15 Dec 97 15:21 Operator:
Sample : 278403 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:01 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	
22) L5	Aroclor-1248{3}	13.29	12.56	332902	97000	805.437	306.439	#
23) L5	Aroclor-1248{4}	14.18	13.55	182390	496456	367.473	1845.019	#
24) L5	Aroclor-1248{5}	0.00	15.57	0	861391	N.D.	6839.032	#
Sum	Aroclor-1248			609028	1664440	1473.346	9588.883	
Average	Aroclor-1248					368.337	1917.777	
						NP	NP	
25) L6	Aroclor-1254{1}	14.18	11.44	182390	185023	1343.733	839.228	#
26) L6	Aroclor-1254{2}	15.56	13.55	660594	496456	1791.779	1185.497	#
27) L6	Aroclor-1254{3}	15.88	14.97	590486	314892	1281.312	2106.456	#
28) L6	Aroclor-1254{4}	18.53	15.57	710140	861391	1752.166	1772.666	
29) L6	Aroclor-1254{5}	19.86	17.86	1362435	877527	1578.711	1931.016	
Sum	Aroclor-1254			3506043	2735288	7747.702	7834.863	
Average	Aroclor-1254					1549.540	1566.973	
30) L7	Aroclor-1260{1}	18.11	16.06	510299	452716	980.510	1328.290	#
31) L7	Aroclor-1260{2}	18.53	16.77	710140	422115	1153.671	1038.297	
32) L7	Aroclor-1260{3}	20.08	17.86	114129	877527	250.125	1701.486	#
33) L7	Aroclor-1260{4}	21.16	19.88	359789	165833	772.176	264.845	#
34) L7	Aroclor-1260{5}	21.75	20.99	312784	139758	242.633	295.883	
Sum	Aroclor-1260			2007141	2057949	3399.116	4628.802	
Average	Aroclor-1260					679.823	925.760	
						NP	NP	

QC 247

12-11-97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0936.D\ECD1A.CH Vial: 36
Signal #2 : E:\WESTDA~1\BA0936.D\ECD2B.CH
Acq On : 15 Dec 97 15:21 Operator:
Sample : 278403 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 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	7.21	6.01	406836	261614	43.733	43.294
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.33%	108.24%
2) SA Decachlorobiphen	29.40	24.63	625860	377589	41.442	45.451
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.61%	113.63%
Target Compounds						
3) L6 Aroclor-1254{1}	14.18	11.44	169614	179477	1250.025	807.785 #
4) L6 Aroclor-1254{2}	15.56	13.55	658922	496212	1717.814	1183.972 #
5) L6 Aroclor-1254{3}	15.88	14.97	589394	310426	1119.746	2070.464 #
6) L6 Aroclor-1254{4}	18.53	15.57	710140	855726	1656.187	1720.606
7) L6 Aroclor-1254{5}	19.86	17.86	1362435	864201	1568.841	1803.540
Sum Aroclor-1254			3490504	2706043	~~7312.614~~	7586.366
Average Aroclor-1254					1462.523	1517.273

3.7%D

JM 6/4/98

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

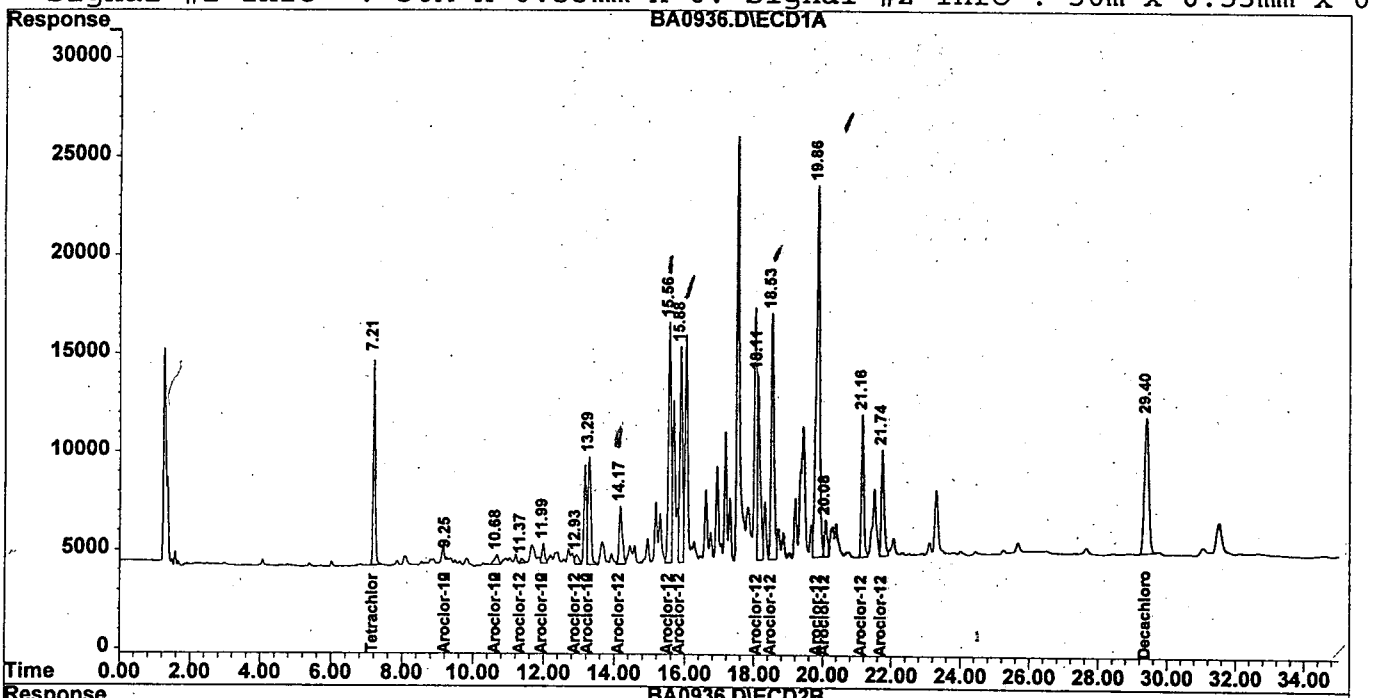
247A

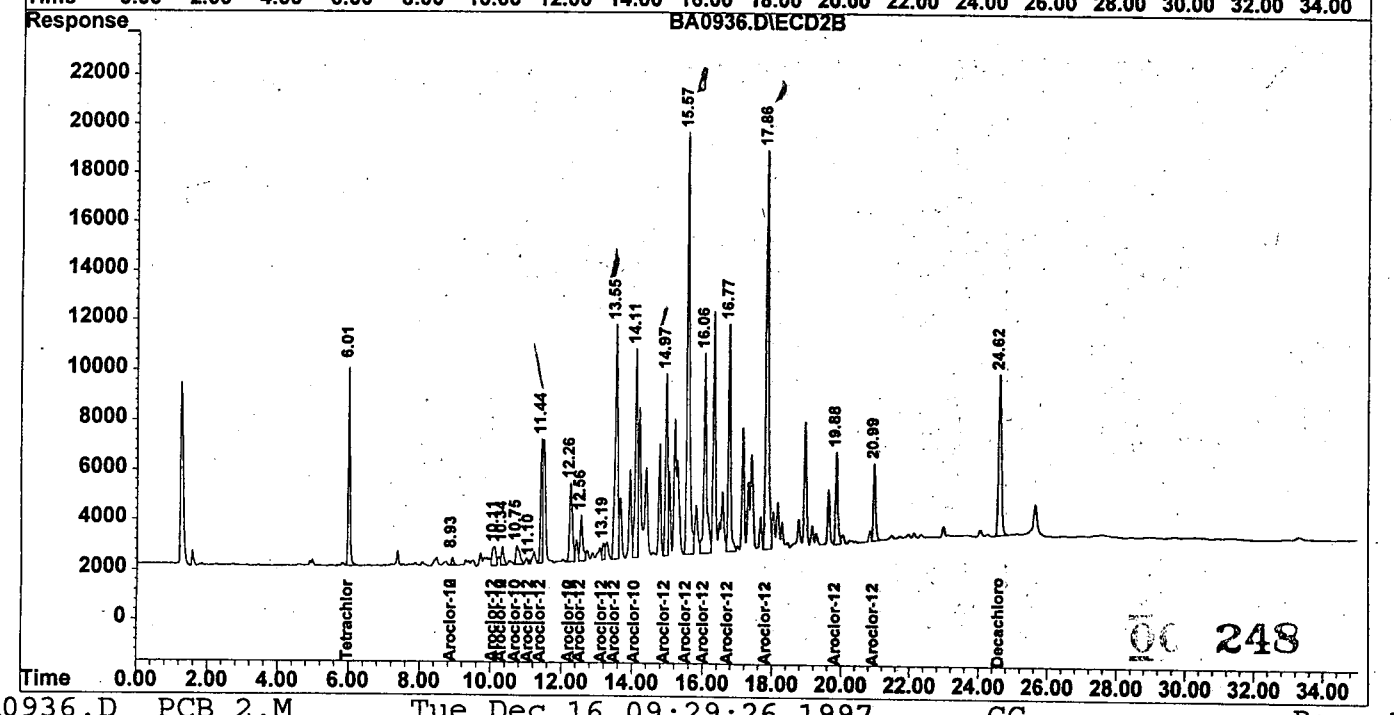
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0936.D\ECD1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA_B\BA0936.D\ECD2B.CH
Acq On : 15 Dec 97 15:21 Operator:
Sample : 278403 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:01 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 JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0936.D\ECD1A.CH Vial: 36
Signal #2 : E:\WESTDA~1\BA0936.D\ECD2B.CH
Acq On : 15 Dec 97 15:21 Operator:
Sample : 278403 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:22 1998 Quant Results File: WESTONB.RES

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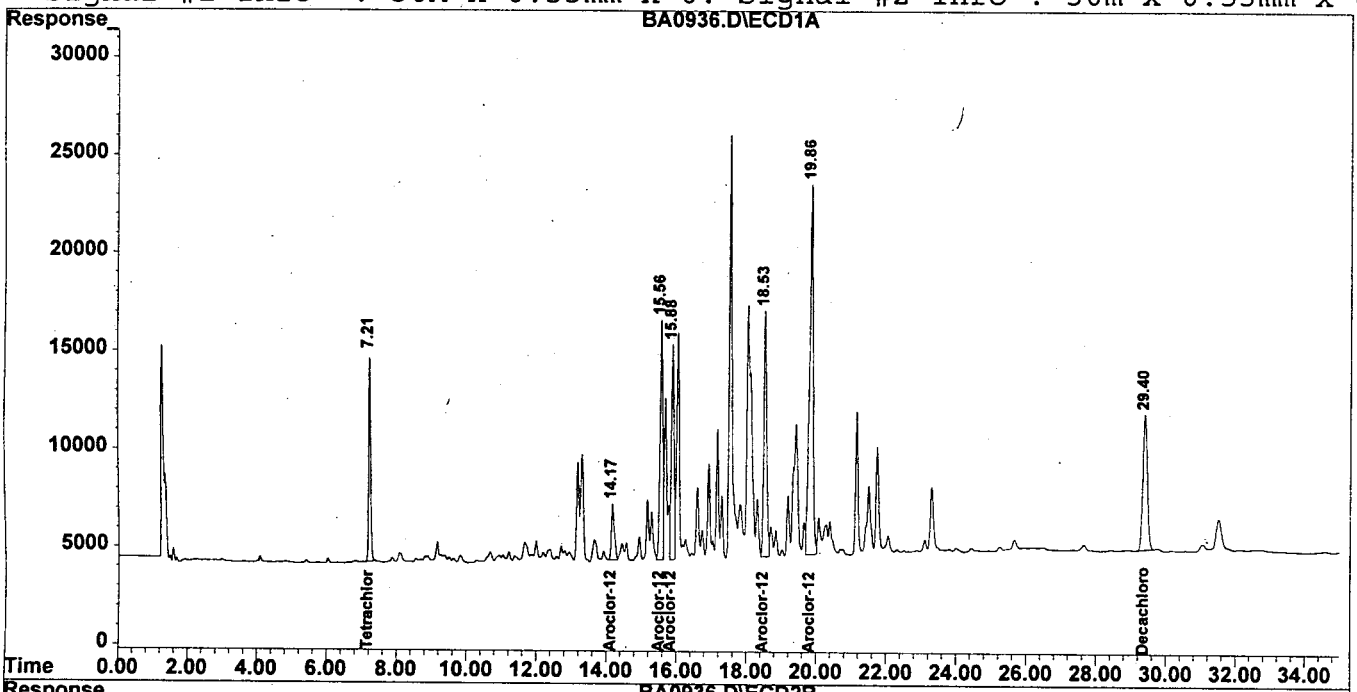
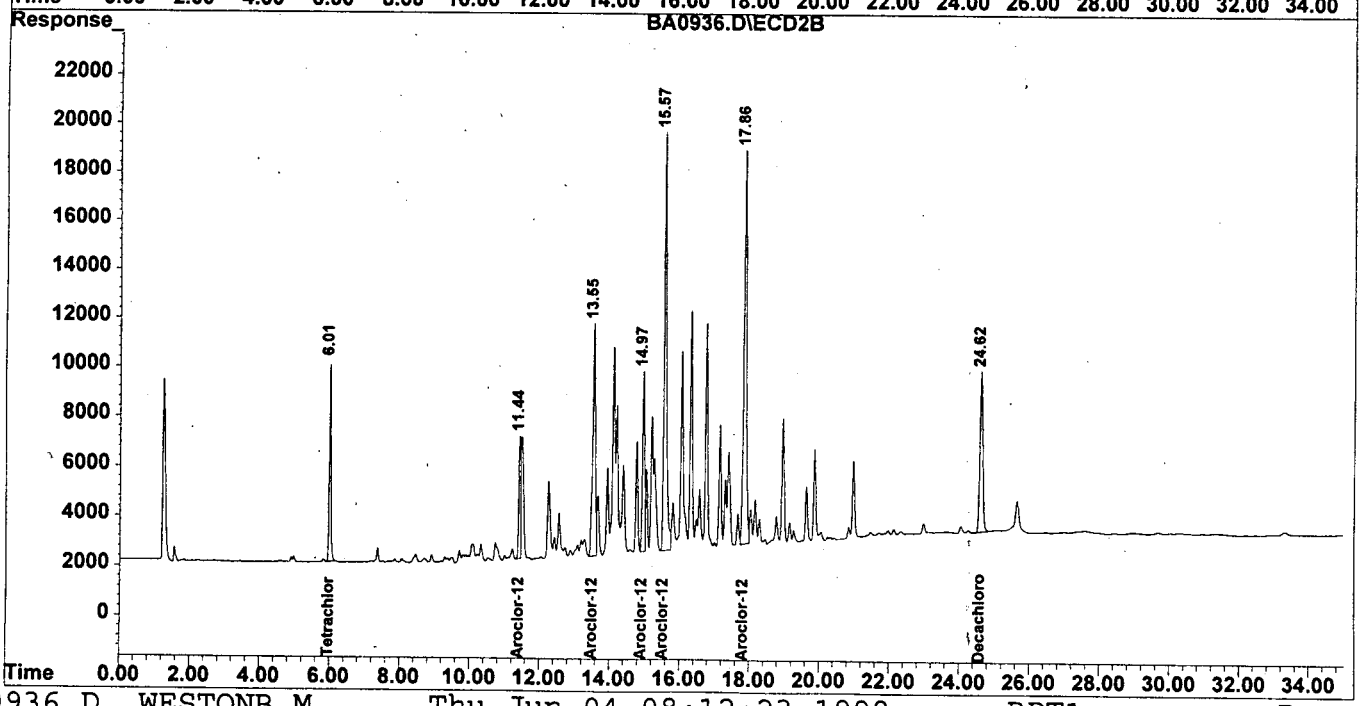
Title : PESTICIDES and PCBs by METHOD 8080 and 608.
Last Update : Wed May 27 11:34:29 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8080_2.M

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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278404
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRND2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	51.68%

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	69	34
Aroclor-1221	U	U	140	96
Aroclor-1232	U	U	69	55
Aroclor-1242	U	U	69	34
Aroclor-1248	590 ~~580~~	U	69	41
Aroclor-1254	2100 ~~1600~~	U	69	48
Aroclor-1260	U	U	69	55

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0937.D\ECD1A.CH Vial: 37
Signal #2 : C:\HPCHEM\1\DATA_B\BA0937.D\ECD2B.CH
Acq On : 15 Dec 97 16:00 Operator:
Sample : 278404 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:01 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	7.21	6.01	389460	257593	42.991	39.770
Spiked Amount 40.000 Range 43 - 150 Recovery =					107.48%	99.43%
2) SA Decachlorobiphen	29.40	24.63	625012	372836	41.532	41.808
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.83%	104.52%
Target Compounds						
3) L1 Aroclor-1016{1}	9.16	8.89	98891	262006	464.577	900.311 #
4) L1 Aroclor-1016{2}	10.68	10.34	154065	151704	326.769	267.987
5) L1 Aroclor-1016{3}	12.00	10.75	212861	98620	258.786	368.066 #
6) L1 Aroclor-1016{4}	0.00	12.26	0	484315	N.D.	1887.879 #
7) L1 Aroclor-1016{5}	13.29	14.12	762092	617427	2333.911	4186.514 #
Sum Aroclor-1016			1227909	1614072	3384.044	7610.758
Average Aroclor-1016					846.011	1522.152
9) L2 Aroclor-1221{2}	8.96	7.54	32857	9036	334.523	128.135 #
10) L2 Aroclor-1221{3}	9.16	0.00	98891	0	326.692	N.D. #
Sum Aroclor-1221			131748	9036	661.215	128.135
Average Aroclor-1221					330.607	128.135
11) L3 Aroclor-1232{1}	8.96	8.89	32857	262006	573.099	1810.443 #
12) L3 Aroclor-1232{2}	9.16	10.12	98891	330277	483.895	7906.010 #
13) L3 Aroclor-1232{3}	10.68	11.44	154065	1041999	709.826	12508.841 #
14) L3 Aroclor-1232{4}	12.00	13.19	212861	84515	606.383	1493.853 #
Sum Aroclor-1232			498674	1718797	2374.103	23719.147
Average Aroclor-1232					593.526	5929.787
15) L4 Aroclor-1242{1}	9.16	8.89	98891	262006	539.458	1048.504 #
16) L4 Aroclor-1242{2}	10.68	10.12	154065	330277	420.161	4303.121 #
17) L4 Aroclor-1242{3}	11.37	11.10	68199	25454	615.155	157.798 #
18) L4 Aroclor-1242{4}	12.92	12.26	80978	484315	470.101	2092.879 #
19) L4 Aroclor-1242{5}	14.18	0.00	637354	0	1753.913	N.D. #
Sum Aroclor-1242			1039488	1102053	3798.788	7602.302
Average Aroclor-1242					759.758	1900.576
20) L5 Aroclor-1248{1}	10.68	10.34	154065	151704	794.169	364.226 #

GC 250

(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\BA0937.D\ECD1A.CH Vial: 37
Signal #2 : C:\HPCHEM\1\DATA_B\BA0937.D\ECD2B.CH
Acq On : 15 Dec 97 16:00 Operator:
Sample : 278404 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:01 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

1248 Avg (1006.) (896.69)

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}	12.00	12.26	212861	484315	380.466	1429.163	#
22)	L5 Aroclor-1248{3}	13.29	12.57	762092	247345	1843.838	781.402	#
23)	L5 Aroclor-1248{4}	14.18	13.55	637354	1001255	~~1284.118~~	~~3721.047~~	#
24)	L5 Aroclor-1248{5}	16.19	15.57	119014	1535009	~~315.676~~	~~12187.234~~	#
	Sum Aroclor-1248			1885386	3419628	~~4618.267~~	~~18483.072~~	
	Average Aroclor-1248					923.653	3696.614	
						Sum 3334.148	2574.791	
						Per 833.537	858.264	
25)	L6 Aroclor-1254{1}	14.18	11.44	637354	1041999	~~4695.619~~	~~4726.314~~	
26)	L6 Aroclor-1254{2}	15.55	13.55	2099657	1001255	~~5695.065~~	~~2390.918~~	#
27)	L6 Aroclor-1254{3}	15.89	14.97	1030603	939430	~~2236.337~~	~~6284.281~~	#
28)	L6 Aroclor-1254{4}	18.53	15.57	1197484	1535009	2954.618	~~3158.911~~	
29)	L6 Aroclor-1254{5}	19.86	17.86	1919160	1490340	2223.812	3279.524	#
	Sum Aroclor-1254			6884259	6008033	~~17805.451~~	~~19839.949~~	
	Average Aroclor-1254					~~3561.090~~	~~3967.990~~	
						Sum ~~74147.767~~	10396.752	
						Per ~~2471.589~~	3465.585	
30)	L7 Aroclor-1260{1}	0.00	16.06	0	647400	N.D.	1899.501	#
31)	L7 Aroclor-1260{2}	18.53	16.77	1197484	576593	1945.397	1418.274	#
32)	L7 Aroclor-1260{3}	20.08	17.86	166218	1490340	364.283	2889.704	#
33)	L7 Aroclor-1260{4}	21.16	19.88	505187	239782	1084.226	382.947	#
34)	L7 Aroclor-1260{5}	21.75	20.99	413700	198854	320.916	420.996	#
	Sum Aroclor-1260			2282588	3152969	3714.822	7011.421	
	Average Aroclor-1260					928.705	1402.284	

ND ND

JPZ 12/16/97

QC 251

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0937.D\ECD1A.CH Vial: 37
Signal #2 : E:\WESTDA~1\BA0937.D\ECD2B.CH
Acq On : 15 Dec 97 16:00 Operator:
Sample : 278404 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:29 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	7.21	6.01	378959	248891	40.736	41.188
Spiked Amount 40.000 Range 43 - 150 Recovery =					101.84%	102.97%
2) SA Decachlorobiphen	29.40	24.63	624908	372470	41.379	44.835
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.45%	112.09%
Target Compounds						
3) L6 Aroclor-1254{1}	14.18	11.44	547798	438386	~~4037.177~~	1973.079m#
4) L6 Aroclor-1254{2}	15.55	13.55	2061186	1001350	~~5373.5~~23	2389.240 #
5) L6 Aroclor-1254{3}	15.89	14.97	1002432	939465	1904.448	~~6265.99~~0 #
6) L6 Aroclor-1254{4}	18.53	15.57	1175131	1535061	2740.639	~~3086.543~~
7) L6 Aroclor-1254{5}	19.86	17.86	1905866	1467067	2194.601	3061.687 #
Sum Aroclor-1254			6692413	5381329	~~16250.389~~	~~16776.539~~
Average Aroclor-1254					~~3250.078~~	3355.308
				Sum	6839.688	7424.006
				Avg	2279.896	2474.669

AVG = 2467.62 3074.02

22%D

251A

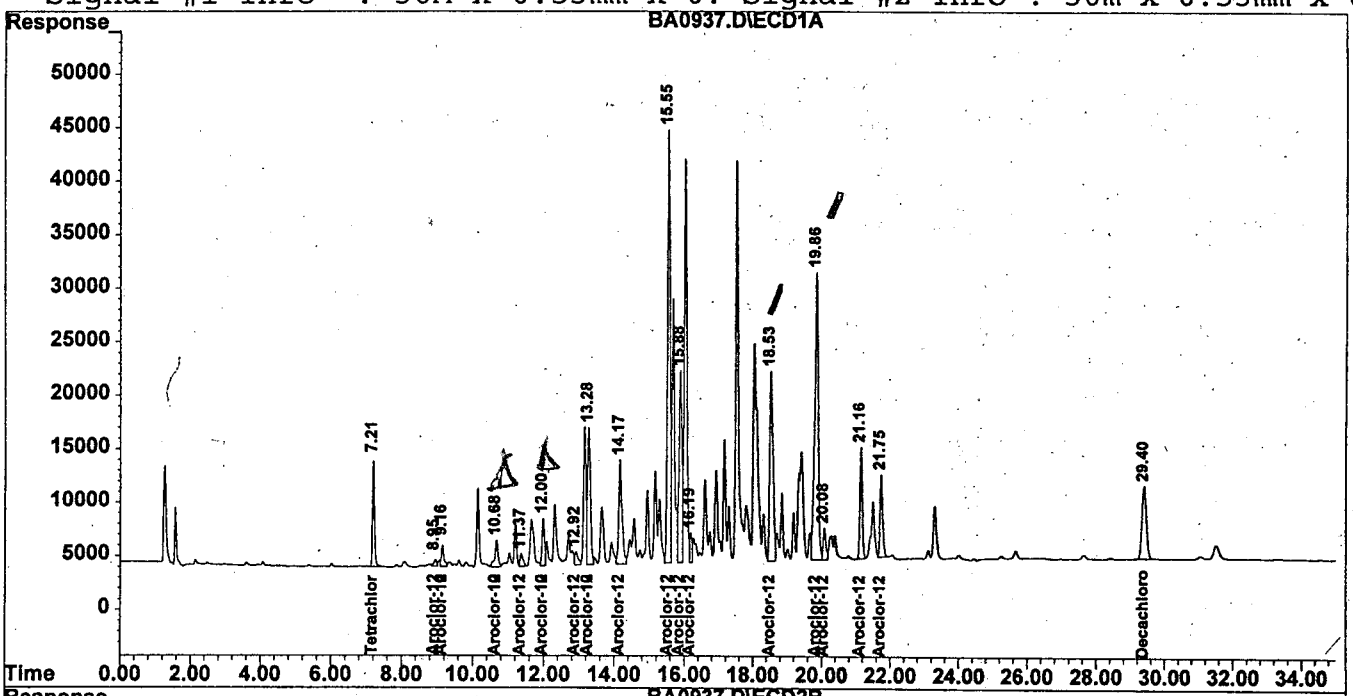
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

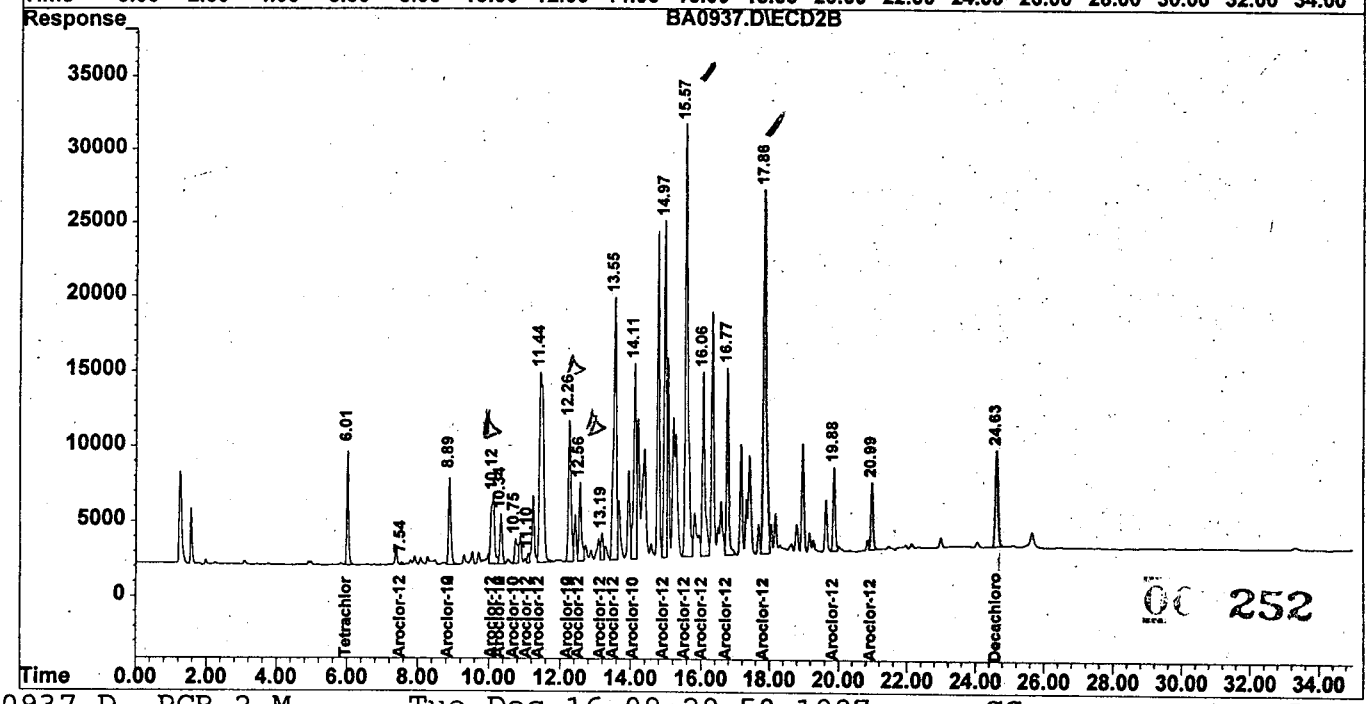
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0937.D\ECD1A.CH Vial: 37
Signal #2 : C:\HPCHEM\1\DATA_B\BA0937.D\ECD2B.CH
Acq On : 15 Dec 97 16:00 Operator:
Sample : 278404 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:01 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



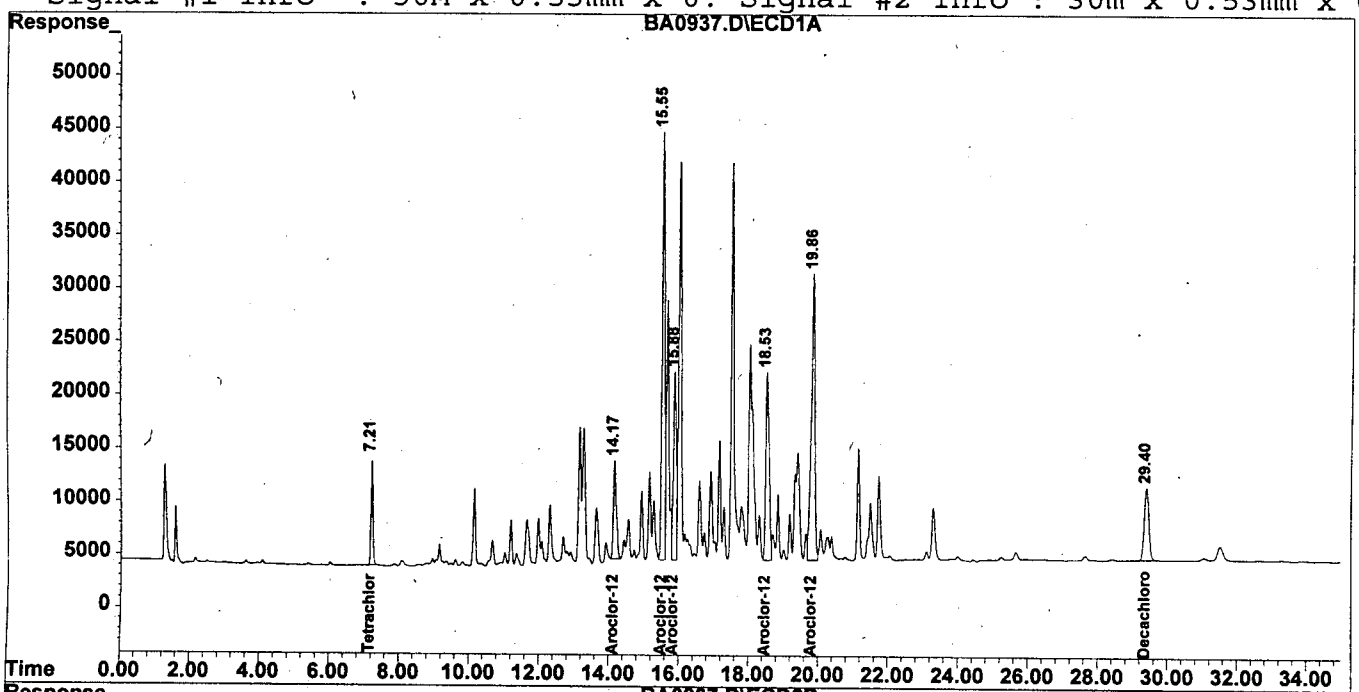


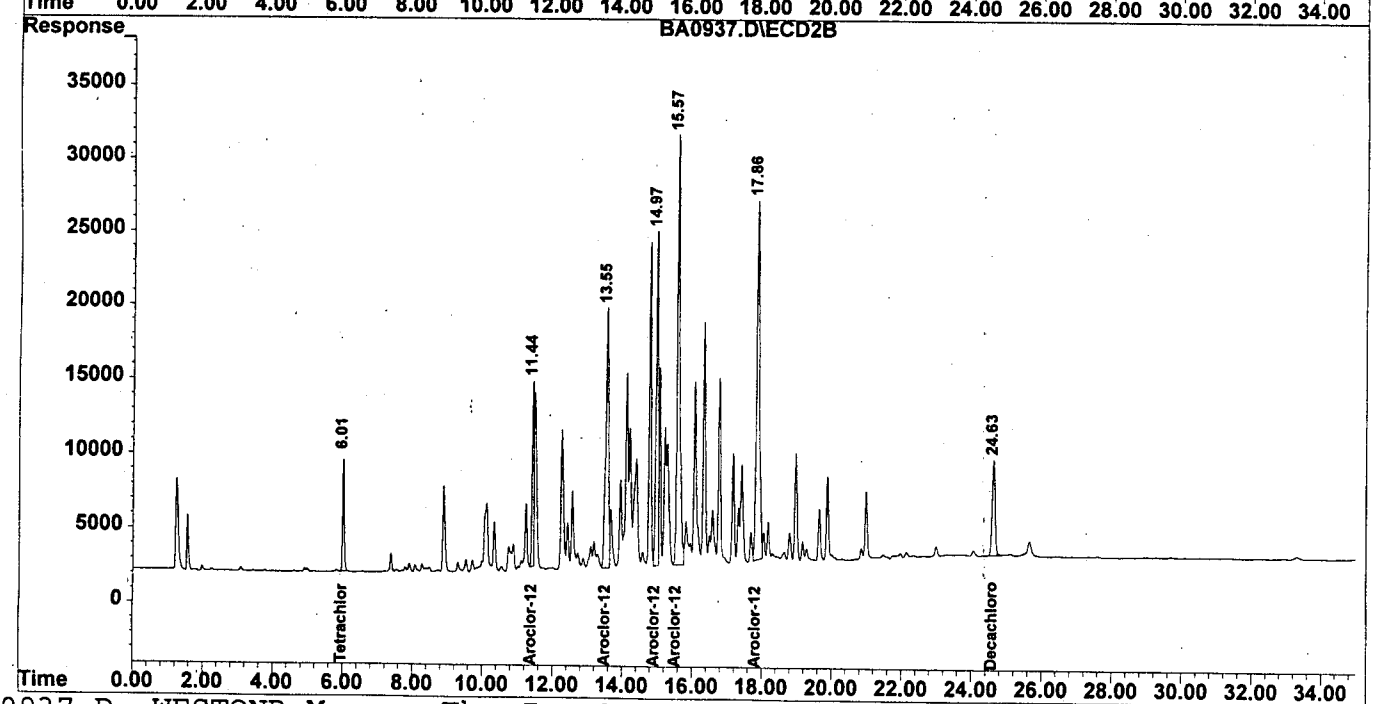
Quantitation Report AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0937.D\ECD1A.CH Vial: 37
Signal #2 : E:\WESTDA~1\BA0937.D\ECD2B.CH
Acq On : 15 Dec 97 16:00 Operator:
Sample : 278404 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:29 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





AMENDED REPORT JUN 0 5 1998

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 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: 278405
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRSS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/17/97
Weight/Volume:	30g	Final Volume:	100ml
Dilution Factor:	10	Sample Moisture:	45.21%

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	610	300
Aroclor-1221	U	U	1200	850
Aroclor-1232	U	U	610	490
Aroclor-1242	U	U	610	300
Aroclor-1248	U	U	610	360
Aroclor-1254	~~7300~~ 8600	U	610	420
Aroclor-1260	U J	U	610	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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed) AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0985.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA0985.D\ECD2B.CH
Acq On : 17 Dec 97 4:05 Operator:
Sample : 278405 1:10 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 11:36 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	7.23	6.00	40927	27972	4.518m	4.319	
Spiked Amount 40.000 Range 43 - 150 Recovery =					11.30%#	10.80%#	
2) SA Decachlorobiphen	29.40	24.61	90012	55712	5.981m	6.247m	
Spiked Amount 40.000 Range 24 - 154 Recovery =					14.95%#	15.62%#	
Target Compounds							
3) L1 Aroclor-1016{1}	9.18	0.00	11550	0	54.259	N.D.	#
4) L1 Aroclor-1016{2}	0.00	10.33	0	6781	N.D.	11.979	#
5) L1 Aroclor-1016{3}	12.01	10.74	7629	8998	9.275	33.583	#
6) L1 Aroclor-1016{4}	0.00	12.25	0	133816	N.D.	521.621	#
7) L1 Aroclor-1016{5}	13.30	14.11	148336	417477	454.280	2830.739	#
Sum Aroclor-1016			167515	567073	517.814	3397.922	
Average Aroclor-1016					172.605	849.480	
					NO	NO	
10) L2 Aroclor-1221{3}	9.18	0.00	11550	0	38.155	N.D.	#
Sum Aroclor-1221			11550	0	38.155	N.D.	
Average Aroclor-1221					38.155	0.000	
					NO		
12) L3 Aroclor-1232{2}	9.18	10.10	11550	11022	56.515	263.842	#
13) L3 Aroclor-1232{3}	0.00	11.43	0	288908	N.D.	3468.237	#
14) L3 Aroclor-1232{4}	12.01	13.18	7629	47122	21.734	832.917	#
Sum Aroclor-1232			19179	347052	78.248	4564.995	
Average Aroclor-1232					39.124	1521.665	
					NO	NO	
15) L4 Aroclor-1242{1}	9.18	0.00	11550	0	63.004	N.D.	#
16) L4 Aroclor-1242{2}	0.00	10.10	0	11022	N.D.	143.605	#
17) L4 Aroclor-1242{3}	11.38	0.00	4353	0	39.263	N.D.	#
18) L4 Aroclor-1242{4}	0.00	12.25	0	133816	N.D.	578.263	#
19) L4 Aroclor-1242{5}	14.19	0.00	157574	0	433.622	N.D.	#
Sum Aroclor-1242			173476	144839	535.888	721.868	
Average Aroclor-1242					178.629	360.934	
					NO	NO	
20) L5 Aroclor-1248{1}	0.00	10.33	0	6781	N.D.	16.281	#
21) L5 Aroclor-1248{2}	12.01	12.25	7629	133816	13.636	394.878	#
22) L5 Aroclor-1248{3}	13.30	12.56	148336	80481	358.891	254.251	#
					NO	NO	

254

(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\BA0985.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA0985.D\ECD2B.CH
Acq On : 17 Dec 97 4:05 Operator:
Sample : 278405 1:10 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 11:36 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}	14.19	13.54	157574	446509	317.474	1659.400	#
24) L5	Aroclor-1248{5}	16.20	15.56	89346	742703	236.983	5896.705	#
Sum	Aroclor-1248			402885	1410291	926.984	8221.515	
Average	Aroclor-1248					231.746	1644.303	
25) L6	Aroclor-1254{1}	14.19	11.43	157574	288908	1160.903	1310.431	
26) L6	Aroclor-1254{2}	15.58	13.54	529256	446509	1435.541	1066.229	#
27) L6	Aroclor-1254{3}	15.90	14.95	750031	294038	1627.514	1966.959	
28) L6	Aroclor-1254{4}	18.54	15.56	517794	742703	1277.582	1528.417	
29) L6	Aroclor-1254{5}	19.87	17.86	1003243	635256	1162.500	1397.895	
Sum	Aroclor-1254			2957898	2407415	6664.042	7269.930	
Average	Aroclor-1254					1332.808	1453.986	
30) L7	Aroclor-1260{1}	18.06	16.05	1215453	372783	2335.425	1093.762	#
31) L7	Aroclor-1260{2}	18.54	16.76	517794	315871	841.193	776.962	
32) L7	Aroclor-1260{3}	20.09	17.86	56140	635256	123.037	1231.734	#
33) L7	Aroclor-1260{4}	21.17	19.87	254683	78461	546.597	125.307	#
34) L7	Aroclor-1260{5}	21.75	20.98	148524	65066	115.213	137.752	
Sum	Aroclor-1260			2192595	1467436	3961.466	3365.516	
Average	Aroclor-1260					792.293	673.103	

255

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0985.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\BA0985.D\ECD2B.CH
Acq On : 17 Dec 97 4:05 Operator:
Sample : 278405 1:10 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:49 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	7.23	6.00	39593	27670	4.256	4.579
Spiked Amount 40.000 Range 43 - 150 Recovery =					10.64%#	11.45%#
2) SA Decachlorobiphen	29.40	24.61	91422	57270	6.054	6.894
Spiked Amount 40.000 Range 24 - 154 Recovery =					15.14%#	17.24%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.19	11.43	157453	288740	1160.404	1299.556
4) L6 Aroclor-1254{2}	15.58	13.54	511411	445001	1333.251	1061.780
5) L6 Aroclor-1254{3}	15.90	14.95	612870	290807	1164.347	1939.611 #
6) L6 Aroclor-1254{4}	18.54	15.56	512600	737152	1195.484	1482.190
7) L6 Aroclor-1254{5}	19.87	17.86	1002450	608428	1154.320	1269.756
Sum Aroclor-1254			2796784	2370129	6007.805	7052.893
Average Aroclor-1254					1201.561	1410.579

SD = 16%

7/25 6/4/98

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

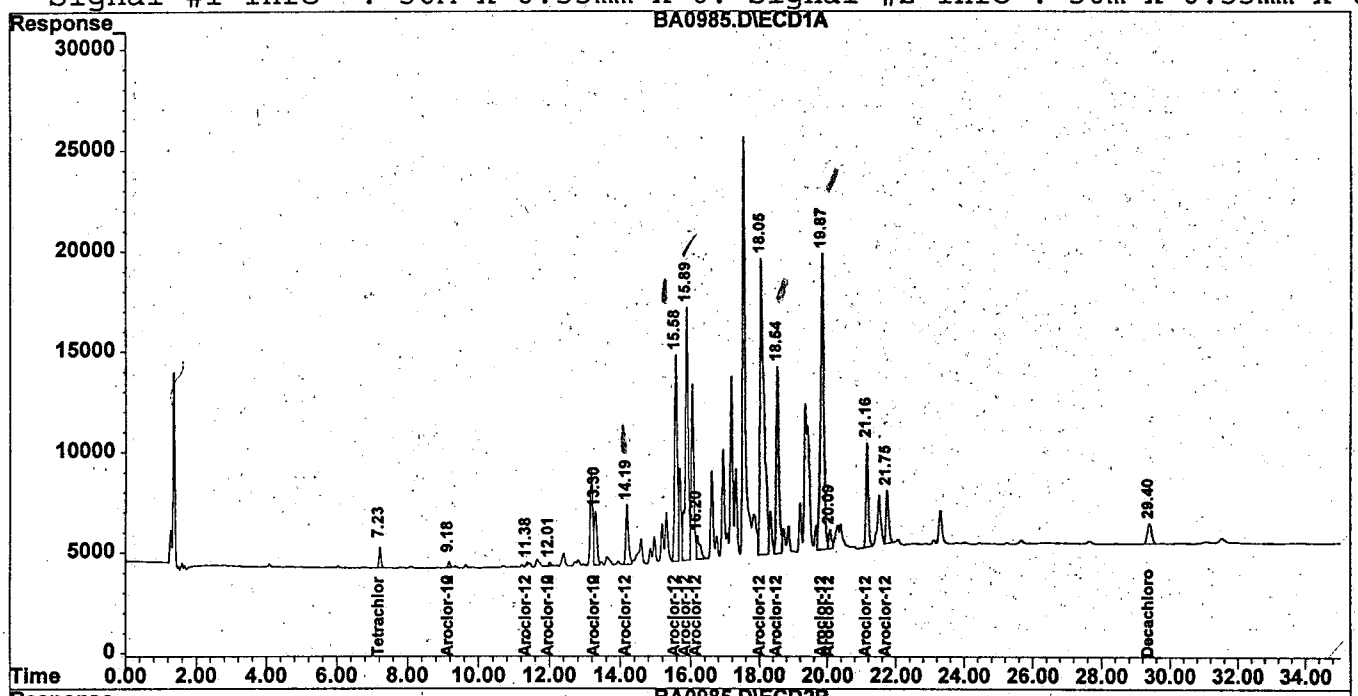
255A

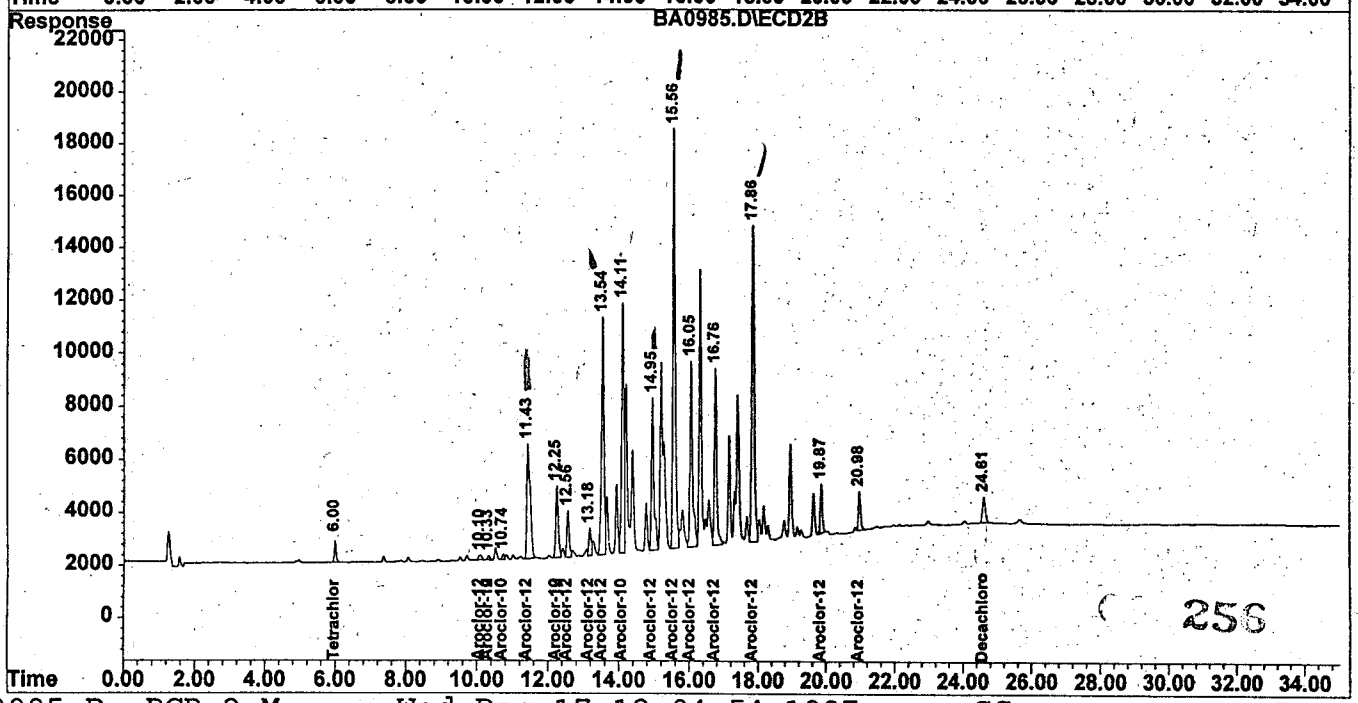
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0985.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA0985.D\ECD2B.CH
Acq On : 17 Dec 97 4:05 Operator:
Sample : 278405 1:10 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 11:36 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





256

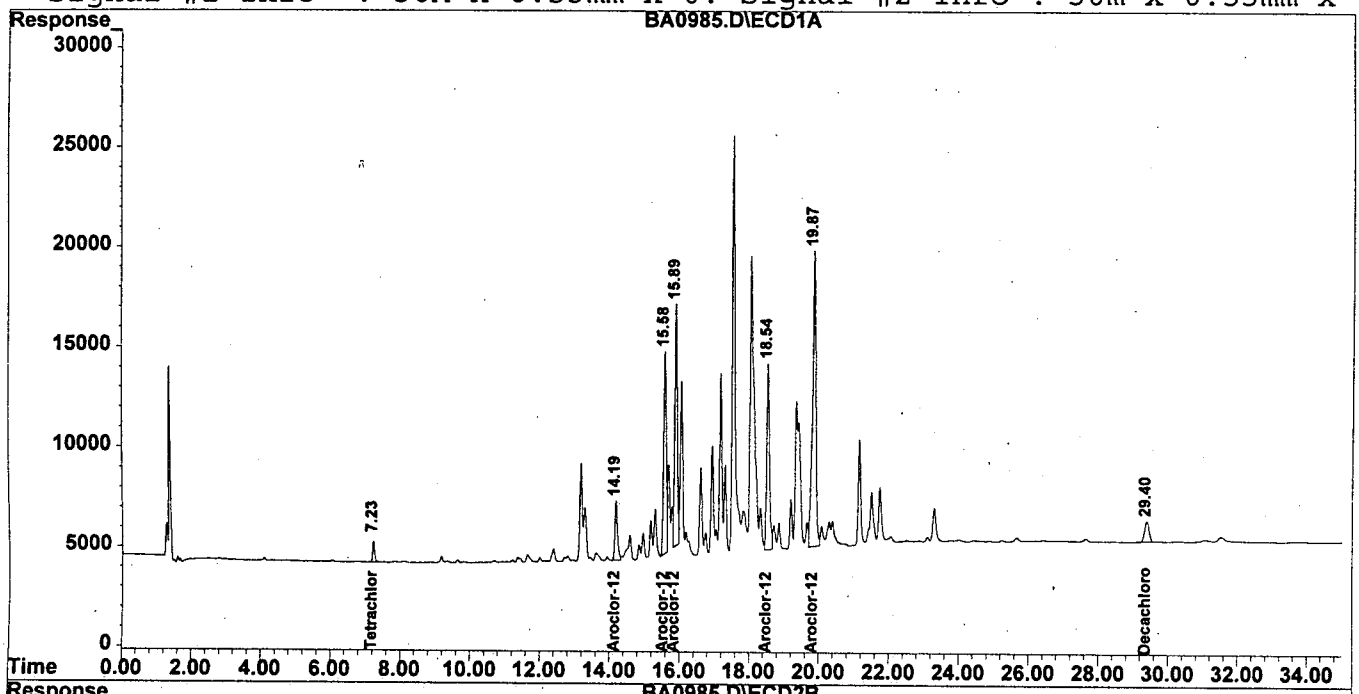
Quantitation Report

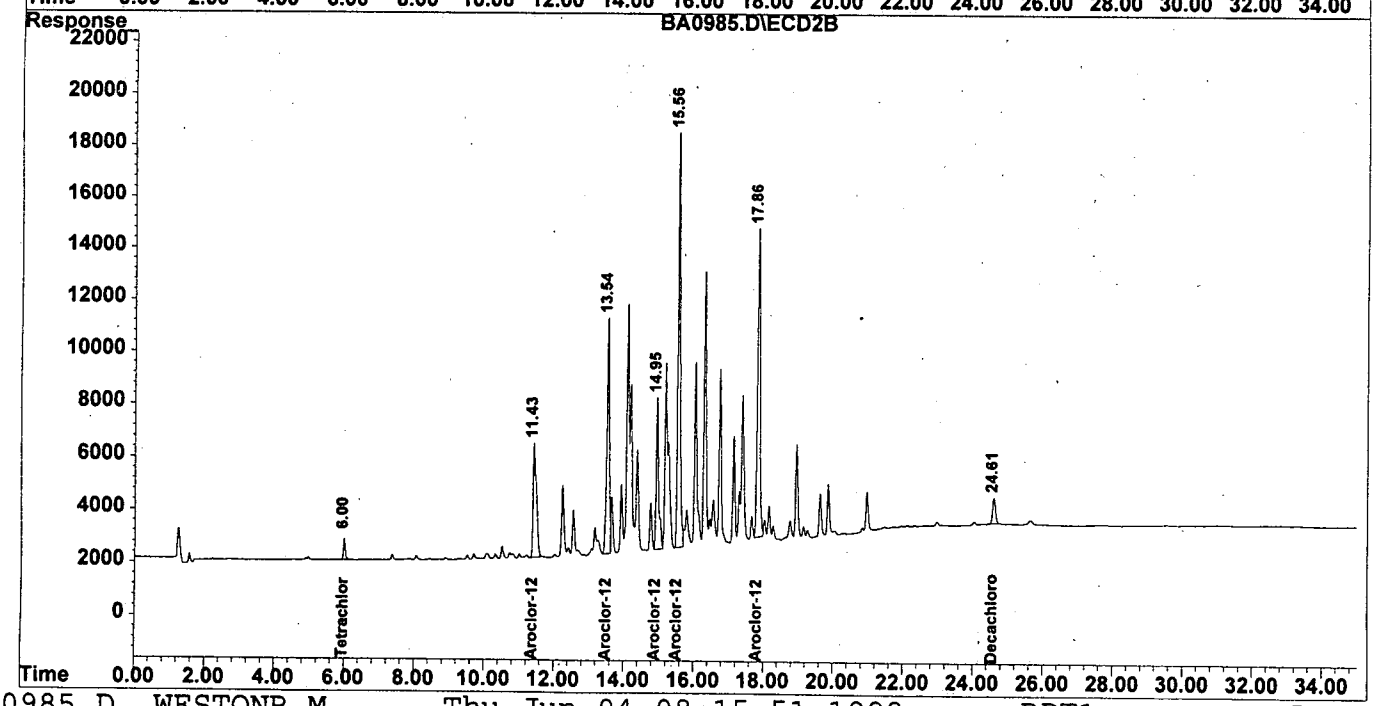
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0985.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\BA0985.D\ECD2B.CH
Acq On : 17 Dec 97 4:05 Operator:
Sample : 278405 1:10 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:49 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278406
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRSS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	31.88%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	49	24
Aroclor-1221	U	U	98	68
Aroclor-1232	U	U	49	39
Aroclor-1242	U	U	49	24
Aroclor-1248	U	U	49	29
Aroclor-1254	~~680~~ 530 J	U	49	34
Aroclor-1260	~~U~~ 450 J	U	49	39

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.

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J 1254 + 1260 = presence of both

ICM Laboratories Quantitation Report (QT Reviewed) AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0939.D\ECD1A.CH Vial: 39
Signal #2 : C:\HPCHEM\1\DATA_B\BA0939.D\ECD2B.CH
Acq On : 15 Dec 97 17:18 Operator:
Sample : 278406 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:02 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	7.21	6.01	165193	110084	18.235	16.996	
Spiked Amount 40.000 Range 43 - 150 Recovery =					45.59%	42.49%#	
2) SA Decachlorobiphen	29.40	24.62	823195	511994	54.702	57.412	
Spiked Amount 40.000 Range 24 - 154 Recovery =					136.76%	143.53%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.16	8.93	69226	19557	325.215	67.204	#
4) L1 Aroclor-1016{2}	0.00	10.34	0	28680	N.D.	50.664	#
5) L1 Aroclor-1016{3}	11.99	10.75	31235	29923	37.974	111.679	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	88148	N.D.	343.604	#
7) L1 Aroclor-1016{5}	13.29	14.12	110165	277749	337.380	1883.304	#
Sum Aroclor-1016			210625	444059	700.568	2456.455	
Average Aroclor-1016					233.523	491.291	
					NO	NO	
10) L2 Aroclor-1221{3}	9.16	0.00	69226	0	228.692	N.D.	#
Sum Aroclor-1221			69226	0	228.692	N.D.	
Average Aroclor-1221					228.692	0.000	
					NO		
11) L3 Aroclor-1232{1}	0.00	8.93	0	19557	N.D.	135.141	#
12) L3 Aroclor-1232{2}	9.16	10.12	69226	31132	338.738	745.210	#
13) L3 Aroclor-1232{3}	0.00	11.45	0	74318	N.D.	892.156	#
14) L3 Aroclor-1232{4}	11.99	13.21	31235	32725	88.979	578.429	#
Sum Aroclor-1232			100461	157731	427.717	2350.937	
Average Aroclor-1232					213.858	587.734	
					NO	NO	
15) L4 Aroclor-1242{1}	9.16	8.93	69226	19557	377.633	78.266	#
16) L4 Aroclor-1242{2}	0.00	10.12	0	31132	N.D.	405.607	#
17) L4 Aroclor-1242{3}	11.43	0.00	8267	0	74.568	N.D.	#
18) L4 Aroclor-1242{4}	12.94	12.26	26782	88148	155.477	380.915	#
19) L4 Aroclor-1242{5}	14.18	0.00	61619	0	169.569	N.D.	#
Sum Aroclor-1242			165894	138837	777.247	864.788	
Average Aroclor-1242					194.312	288.263	
					NO	NO	
20) L5 Aroclor-1248{1}	0.00	10.34	0	28680	N.D.	68.858	#
21) L5 Aroclor-1248{2}	11.99	12.26	31235	88148	55.829	260.115	#
					NO	NO	

00 258

DPG 12/15/02

(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\BA0939.D\ECD1A.CH Vial: 39
Signal #2 : C:\HPCHEM\1\DATA_B\BA0939.D\ECD2B.CH
Acq On : 15 Dec 97 17:18 Operator:
Sample : 278406 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:02 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	
22) L5	Aroclor-1248{3}	13.29	12.57	110165	72643	266.537	229.492	
23) L5	Aroclor-1248{4}	14.18	13.55	61619	343081	124.149	1275.019	#
24) L5	Aroclor-1248{5}	0.00	15.57	0	805848	N.D.	6398.048	#
Sum	Aroclor-1248			203019	1338400	446.514	8231.533	
Average	Aroclor-1248					148.838	1646.307	
25) L6	Aroclor-1254{1}	14.18	11.45	61619	74318	453.973	337.091	#
26) L6	Aroclor-1254{2}	15.56	13.55	521219	343081	1413.743	819.250	#
27) L6	Aroclor-1254{3}	15.88	14.97	420761	254766	913.021	1704.247	#
28) L6	Aroclor-1254{4}	18.53	15.57	870417	805848	2147.627	1658.364	
29) L6	Aroclor-1254{5}	19.79	17.86	2849184	1193871	3301.470	2627.139	
Sum	Aroclor-1254			4723200	2671884	8229.835	7146.090	
Average	Aroclor-1254					1645.967	1429.218	
30) L7	Aroclor-1260{1}	18.12	16.06	685129	498820	1316.438	1463.561	
31) L7	Aroclor-1260{2}	18.53	16.77	870417	602931	1414.053	1483.058	
32) L7	Aroclor-1260{3}	20.08	17.86	361849	1193871	793.030	2314.864	#
33) L7	Aroclor-1260{4}	21.16	19.88	626605	492873	1344.814	787.149	#
34) L7	Aroclor-1260{5}	21.74	20.99	943962	503403	732.251	1065.760	#
Sum	Aroclor-1260			3487963	3291898	5600.586	7114.392	
Average	Aroclor-1260					1120.117	1422.878	

AVG = 1038.53 926.45

259

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0939.D\ECD1A.CH Vial: 39
Signal #2 : E:\WESTDA~1\BA0939.D\ECD2B.CH
Acq On : 15 Dec 97 17:18 Operator:
Sample : 278406 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:30 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	7.21	6.01	164519	109711	17.685	18.156	
Spiked Amount 40.000 Range 43 - 150 Recovery =					44.21%	45.39%	
2) SA Decachlorobiphen	29.40	24.62	823195	492507	54.509	59.284m	
Spiked Amount 40.000 Range 24 - 154 Recovery =					136.27%	148.21%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.18	11.44	56658	72198	417.560	324.949	
4) L6 Aroclor-1254{2}	15.56	13.55	523900	333336	1365.810	795.347	#
5) L6 Aroclor-1254{3}	15.88	14.97	422761	254680	803.174	1698.654	#
6) L6 Aroclor-1254{4}	18.53	15.57	870935	804021	2031.194	1616.643	
7) L6 Aroclor-1254{5}	19.79	17.86	2849184	1187656	3280.830	2478.571	
Sum Aroclor-1254			4723438	2651892	7898.567	6914.164	
Average Aroclor-1254					1579.713	1382.833	

AVGF 1084492 1370.21

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

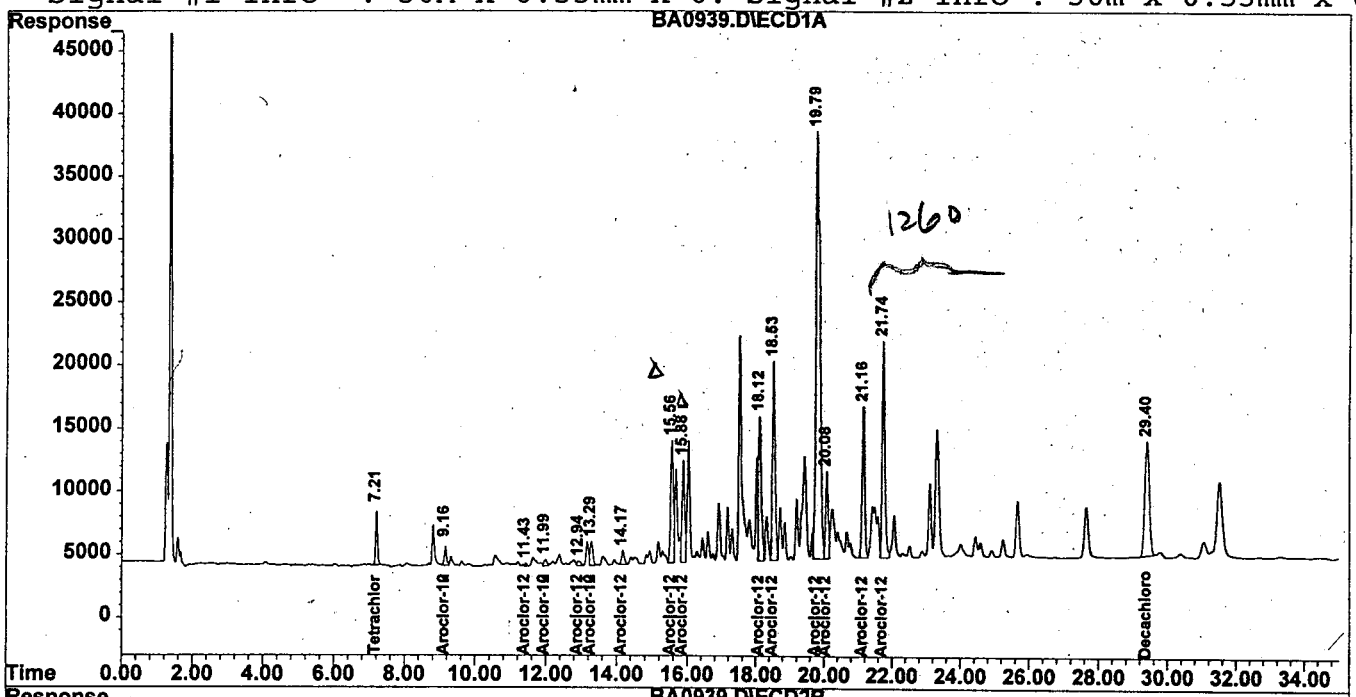
259A

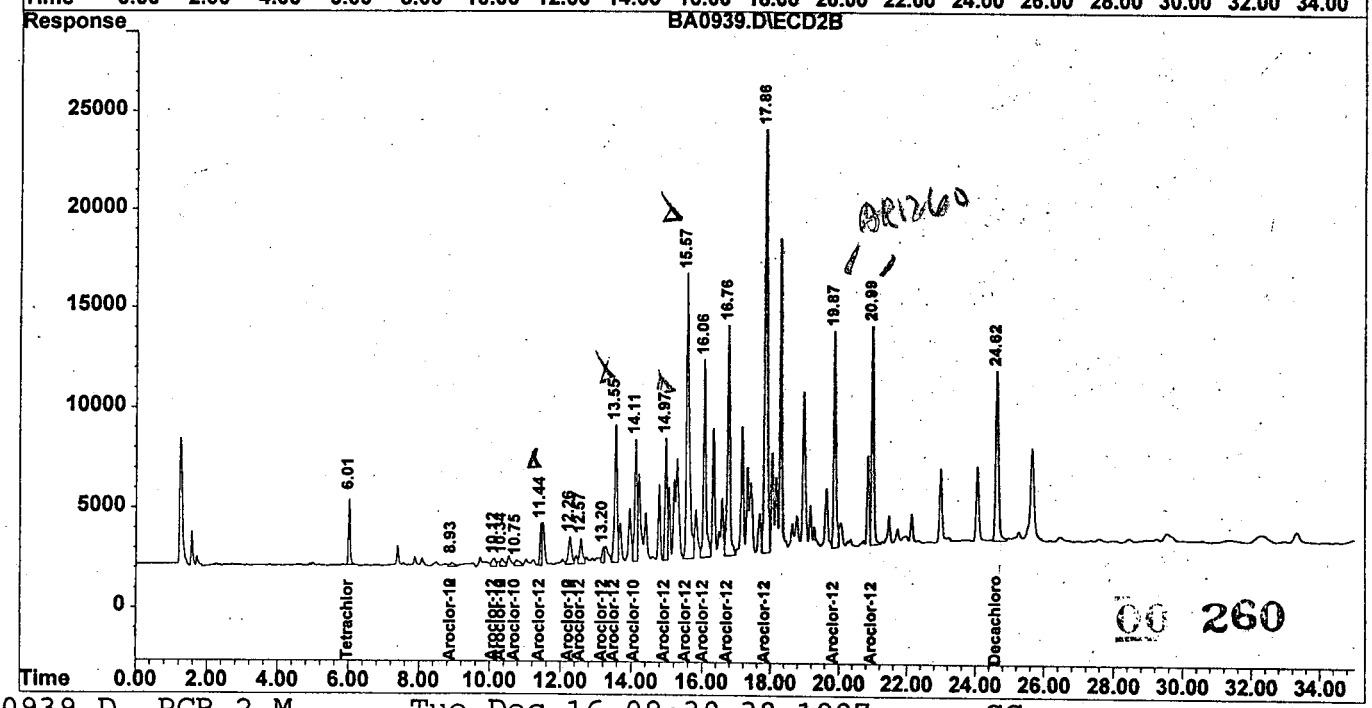
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0939.D\ECD1A.CH Vial: 39
Signal #2 : C:\HPCHEM\1\DATA_B\BA0939.D\ECD2B.CH
Acq On : 15 Dec 97 17:18 Operator:
Sample : 278406 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:02 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 : 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





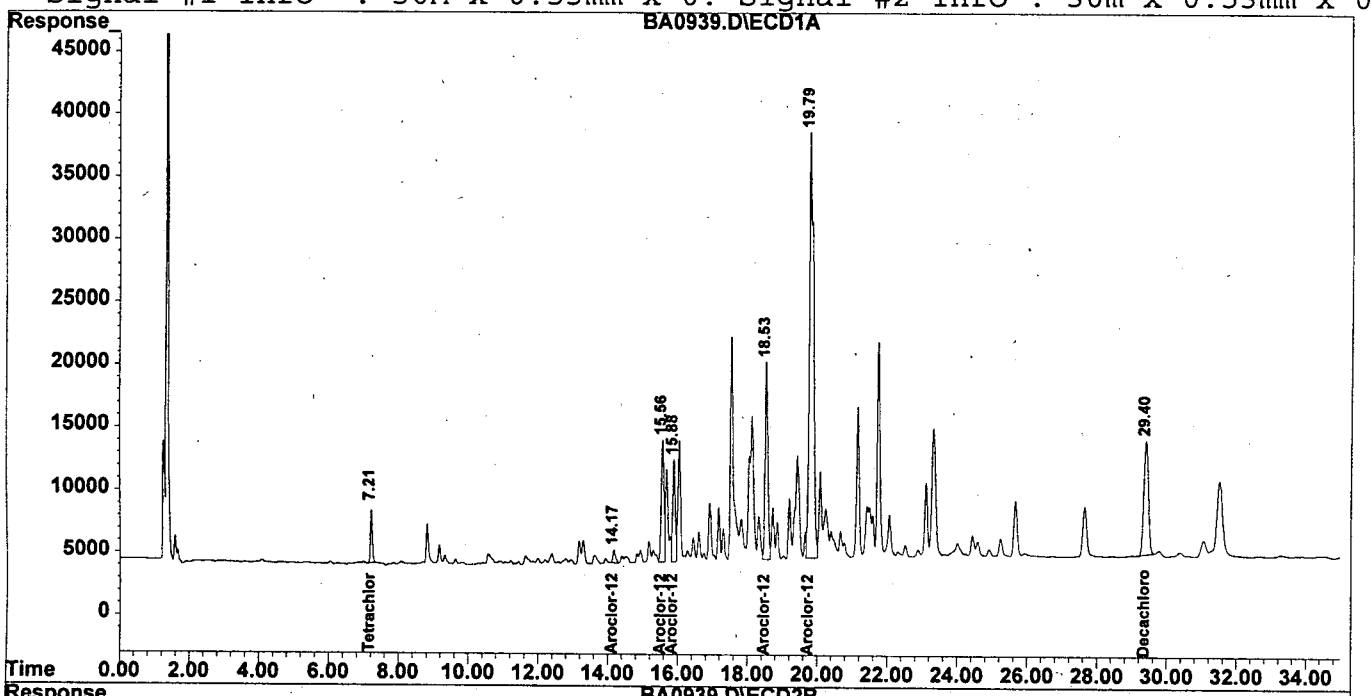
Quantitation Report

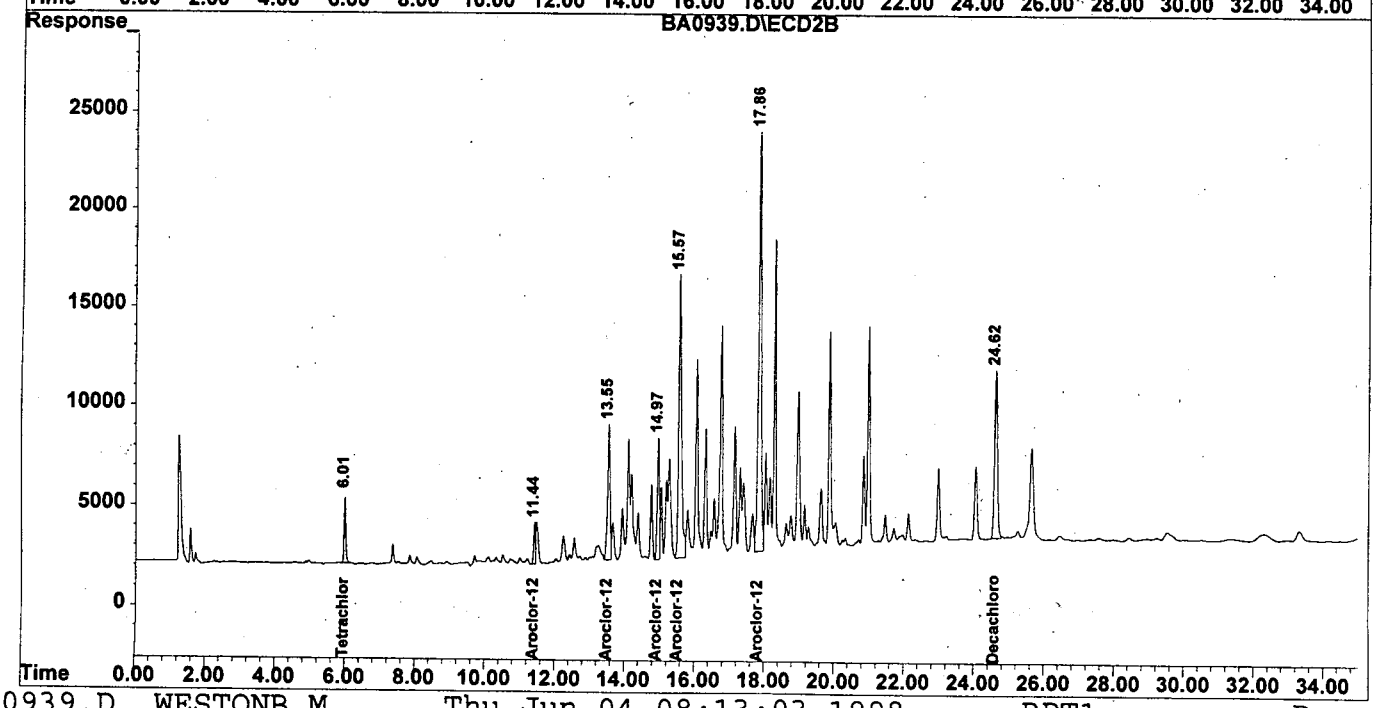
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0939.D\ECD1A.CH Vial: 39
Signal #2 : E:\WESTDA~1\BA0939.D\ECD2B.CH
Acq On : 15 Dec 97 17:18 Operator:
Sample : 278406 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:30 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





260A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278407
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRSD2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	27.68%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	46	23
Aroclor-1221	U	U	92	64
Aroclor-1232	U	U	46	37
Aroclor-1242	U	U	46	23
Aroclor-1248	U	U	46	28
Aroclor-1254	~~780~~ 840 J	U	46	32
Aroclor-1260	~~U~~ 400 J	U	46	37

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.

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Thomas Mancuso, Lab Mgr.
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ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0940.D\ECD1A.CH Vial: 40
Signal #2 : C:\HPCHEM\1\DATA_B\BA0940.D\ECD2B.CH
Acq On : 15 Dec 97 17:57 Operator:
Sample : 278407 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:02 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	7.21	6.01	207944	136429	22.954	21.064	
Spiked Amount 40.000 Range 43 - 150 Recovery =					57.39%	52.66%	
2) SA Decachlorobiphen	29.40	24.62	606723	397390	40.317	44.561	
Spiked Amount 40.000 Range 24 - 154 Recovery =					100.79%	111.40%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.16	8.93	145956	7216	685.685	24.796	#
4) L1 Aroclor-1016{2}	10.67	10.34	19823	34659	42.045	61.225	#
5) L1 Aroclor-1016{3}	11.99	10.75	24920	14944	30.296	55.773	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	61826	N.D.	241.001	#
7) L1 Aroclor-1016{5}	13.28	14.11	85657	274110	262.326	1858.628	#
Sum Aroclor-1016			276357	392755	1020.352	2241.424	
Average Aroclor-1016					255.088	448.285	
10) L2 Aroclor-1221{3}	9.16	0.00	145956	0	482.175	N.D.	#
Sum Aroclor-1221			145956	0	482.175	N.D.	
Average Aroclor-1221					482.175	0.000	
11) L3 Aroclor-1232{1}	0.00	8.93	0	7216	N.D.	49.862	#
12) L3 Aroclor-1232{2}	9.16	10.11	145956	28086	714.196	672.302	
13) L3 Aroclor-1232{3}	10.67	11.44	19823	48234	91.333	579.036	#
14) L3 Aroclor-1232{4}	11.99	13.20	24920	64705	70.990	1143.700	#
Sum Aroclor-1232			190700	148241	876.518	2444.900	
Average Aroclor-1232					292.173	611.225	
15) L4 Aroclor-1242{1}	9.16	8.93	145956	7216	796.204	28.877	#
16) L4 Aroclor-1242{2}	10.67	10.11	19823	28086	54.062	365.924	#
17) L4 Aroclor-1242{3}	11.43	0.00	18336	0	165.390	N.D.	#
18) L4 Aroclor-1242{4}	0.00	12.26	0	61826	N.D.	267.171	#
19) L4 Aroclor-1242{5}	14.17	0.00	75416	0	207.536	N.D.	#
Sum Aroclor-1242			259532	97128	1223.190	661.972	
Average Aroclor-1242					305.798	220.657	
20) L5 Aroclor-1248{1}	10.67	10.34	19823	34659	102.185	83.213	
21) L5 Aroclor-1248{2}	11.99	12.26	24920	61826	44.541	182.443	#

QC 262

(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\BA0940.D\ECD1A.CH Vial: 40
Signal #2 : C:\HPCHEM\1\DATA_B\BA0940.D\ECD2B.CH
Acq On : 15 Dec 97 17:57 Operator:
Sample : 278407 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:02 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	
22)	L5 Aroclor-1248{3}	13.28	12.57	85657	50151	207.243	158.435	
23)	L5 Aroclor-1248{4}	14.17	13.55	75416	366549	151.946	1362.237	#
24)	L5 Aroclor-1248{5}	0.00	15.57	0	938579	N.D.	7451.871	#
	Sum Aroclor-1248			205817	1451765	505.915	9238.198	
Average	Aroclor-1248					126.479	1847.640	
25)	L6 Aroclor-1254{1}	14.17	11.44	75416	48234	555.620	218.782	#
26)	L6 Aroclor-1254{2}	15.55	13.55	871287	366549	2363.260	875.291	#
27)	L6 Aroclor-1254{3}	15.88	14.97	422831	410894	917.515	2748.660	#
28)	L6 Aroclor-1254{4}	18.53	15.57	1070372	938579	2640.988	1931.513	#
29)	L6 Aroclor-1254{5}	19.85	17.86	2536526	1321444	2939.180	2907.866	
	Sum Aroclor-1254			4976433	3085702	9416.562	8682.111	
Average	Aroclor-1254					1883.312	1736.422	
30)	L7 Aroclor-1260{1}	18.12	16.06	1083961	547181	2082.770	1605.454	
31)	L7 Aroclor-1260{2}	18.53	16.76	1070372	629711	1738.895	1548.931	
32)	L7 Aroclor-1260{3}	20.08	17.86	369822	1321444	810.503	2562.223	#
33)	L7 Aroclor-1260{4}	21.16	19.88	692979	495253	1487.264	790.951	#
34)	L7 Aroclor-1260{5}	21.74	20.99	987488	445364	766.015	942.883	
	Sum Aroclor-1260			4204622	3438953	6885.448	7450.441	
Average	Aroclor-1260					1377.090	1490.088	

QC 263

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0940.D\ECD1A.CH Vial: 40
Signal #2 : E:\WESTDA~1\BA0940.D\ECD2B.CH
Acq On : 15 Dec 97 17:57 Operator:
Sample : 278407 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:23 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	7.21	6.01	202319	134695	21.748	22.290	
Spiked Amount 40.000 Range 43 - 150 Recovery =					54.37%	55.73%	
2) SA Decachlorobiphen	29.40	24.62	606679	395778	40.172	47.641	
Spiked Amount 40.000 Range 24 - 154 Recovery =					100.43%	119.10%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.17	11.44	57104	49081	420.846	220.901	#
4) L6 Aroclor-1254{2}	15.55	13.55	869036	366435	2265.581	874.321	#
5) L6 Aroclor-1254{3}	15.88	14.97	421304	410497	800.406	2737.908	#
6) L6 Aroclor-1254{4}	18.53	15.57	1069127	937988	2493.416	1886.010	
7) L6 Aroclor-1254{5}	19.85	17.86	2535739	1318439	2919.899	2751.508	
Sum Aroclor-1254			4952310	3082439	8900.147	8470.649	
Average Aroclor-1254					1780.029	1694.130	

AVG=1853.13 1831.27

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

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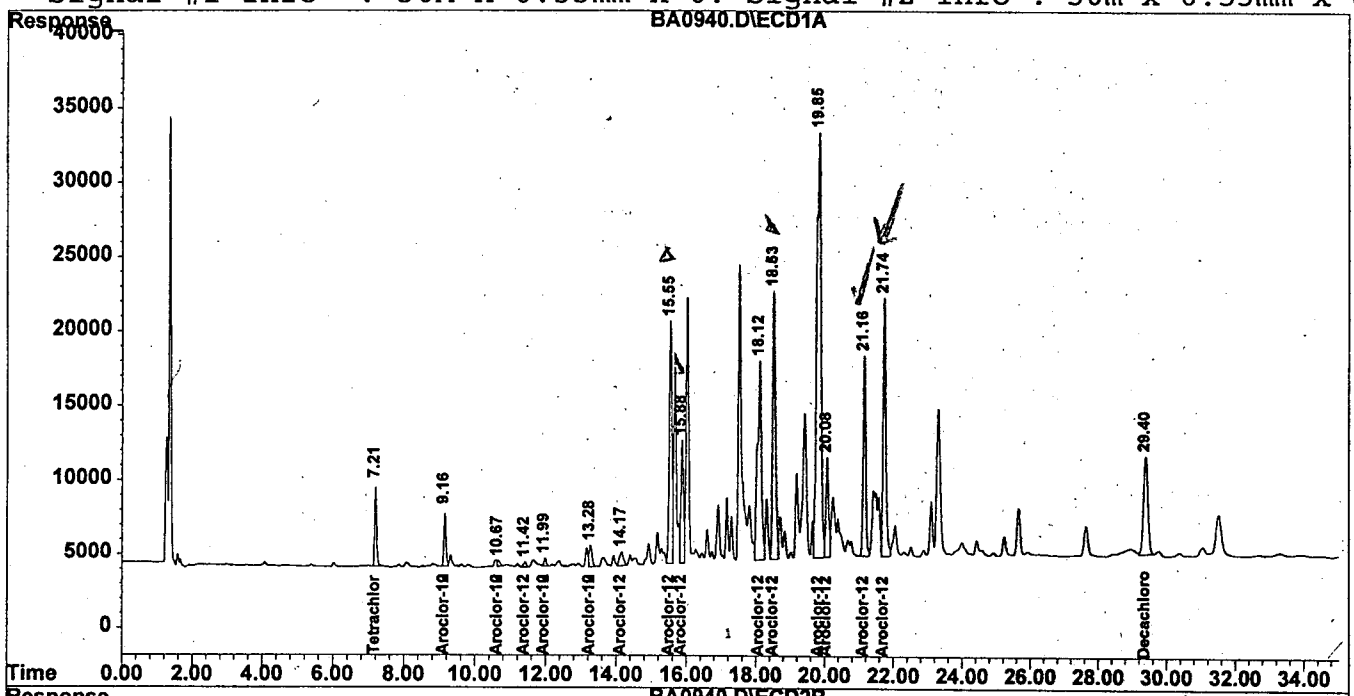
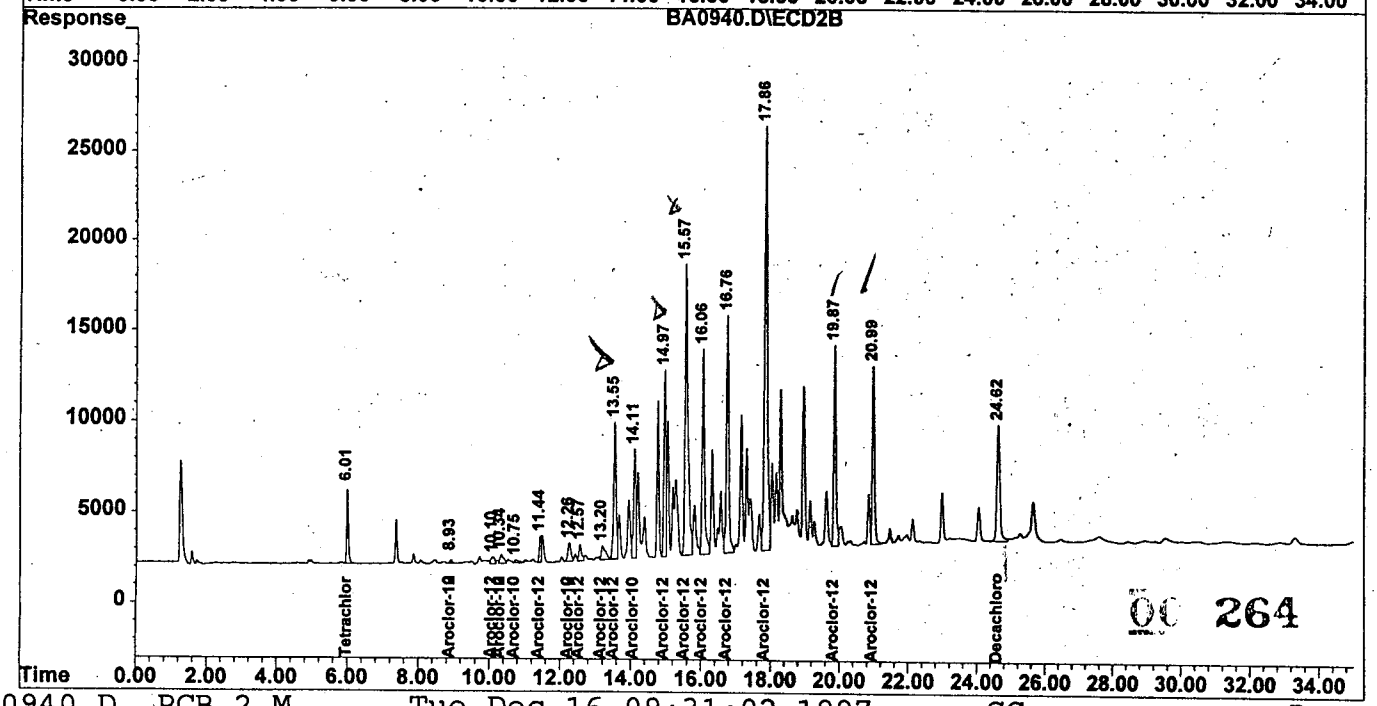
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0940.D\ECD1A.CH Vial: 40
Signal #2 : C:\HPCHEM\1\DATA_B\BA0940.D\ECD2B.CH
Acq On : 15 Dec 97 17:57 Operator:
Sample : 278407 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:02 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 : 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





00 264

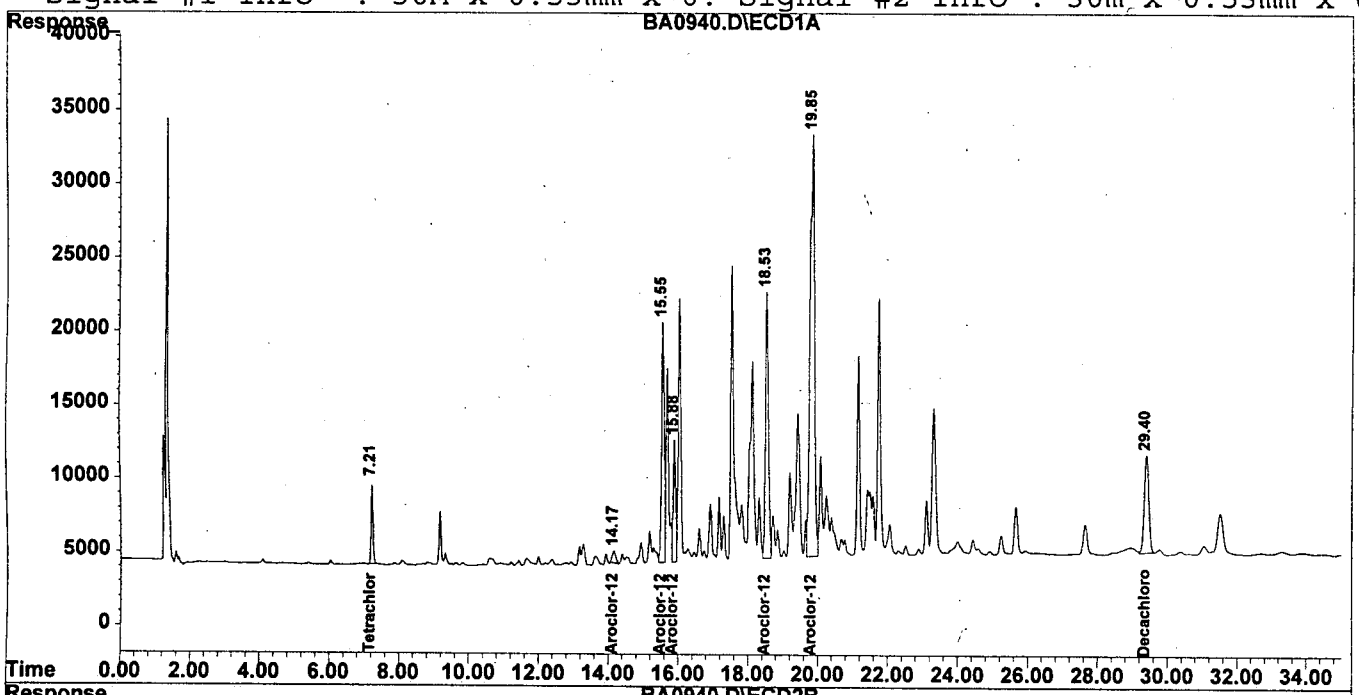
Quantitation Report

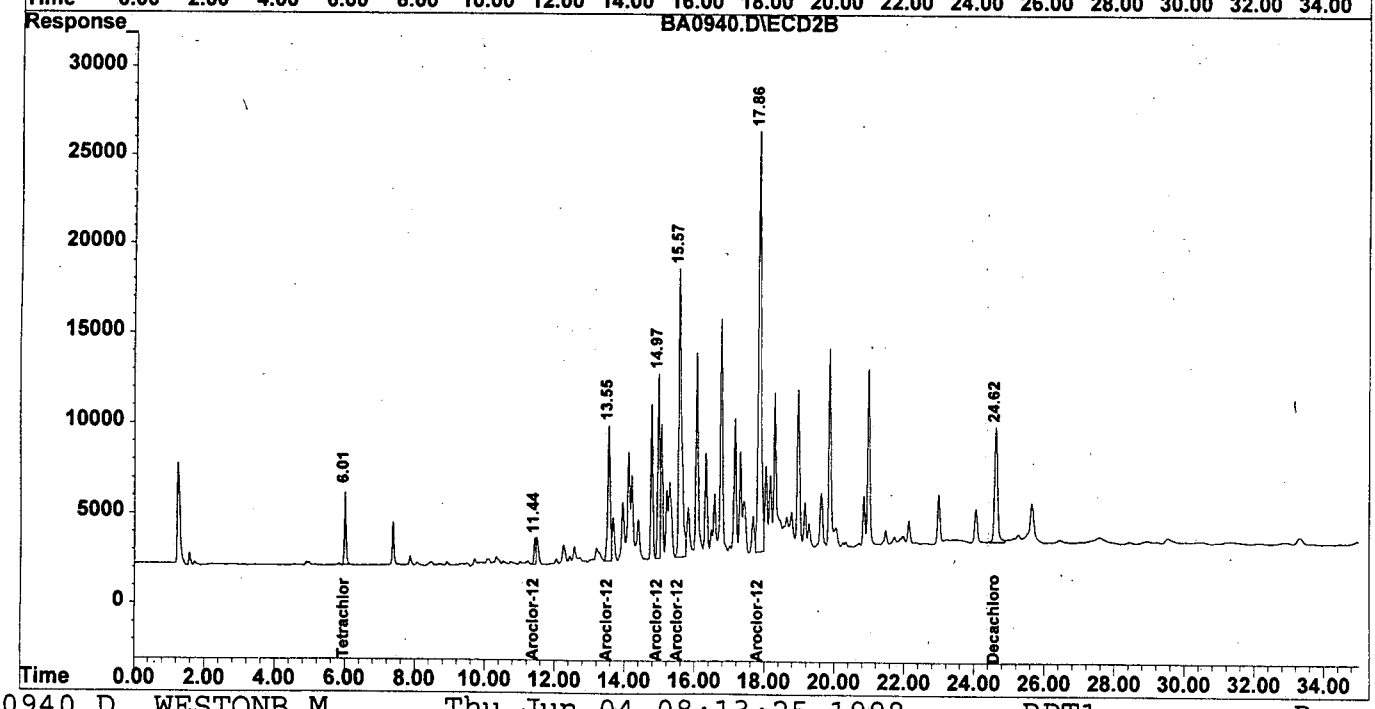
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0940.D\ECD1A.CH Vial: 40
Signal #2 : E:\WESTDA~1\BA0940.D\ECD2B.CH
Acq On : 15 Dec 97 17:57 Operator:
Sample : 278407 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:23 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





AMENDED REPORT JUN 0 5 1998

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 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: 278408
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RRRRNS3
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	~~10ml~~
Dilution Factor:	1	Sample Moisture:	51.23%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	68	34
Aroclor-1221	U	U	140	96
Aroclor-1232	U	U	68	55
Aroclor-1242	U	U	68	34
Aroclor-1248	U	U	68	41
Aroclor-1254	1100	U	68	48
Aroclor-1260	U	U	68	55

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.

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Thomas Mancuso, Lab Mgr.
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AMENDED REPORT JUN 0 9 1998

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0941.D\ECD1A.CH Vial: 41
Signal #2 : C:\HPCHEM\1\DATA_B\BA0941.D\ECD2B.CH
Acq On : 15 Dec 97 18:36 Operator:
Sample : 278408 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:02 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	7.21	6.01	385797	251391	42.587	38.813	
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.47%	97.03%	
2) SA Decachlorobiphen	29.41	24.63	595962	358992	39.602	40.255	
Spiked Amount 40.000 Range 24 - 154 Recovery =					99.00%	100.64%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.25	8.93	2889	11549	13.574	39.684	#
4) L1 Aroclor-1016{2}	10.68	10.34	39199	36463	83.141	64.412	
5) L1 Aroclor-1016{3}	11.99	10.75	59337	51266	72.140	191.331	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	176374	N.D.	687.513	#
7) L1 Aroclor-1016{5}	13.29	14.12	355281	438036	1088.050	2970.139	#
Sum Aroclor-1016			456707	713687	1256.904	3953.079	
Average Aroclor-1016					314.226	790.616	
10) L2 Aroclor-1221{3}	9.25	0.00	2889	0	9.545	N.D.	#
Sum Aroclor-1221			2889	0	9.545	N.D.	
Average Aroclor-1221					9.545	0.000	
11) L3 Aroclor-1232{1}	0.00	8.93	0	11549	N.D.	79.802	#
12) L3 Aroclor-1232{2}	9.25	10.12	2889	57669	14.138	1380.461	#
13) L3 Aroclor-1232{3}	10.68	11.44	39199	188088	180.603	2257.929	#
14) L3 Aroclor-1232{4}	11.99	13.20	59337	30961	169.036	547.260	#
Sum Aroclor-1232			101426	288267	363.777	4265.452	
Average Aroclor-1232					121.259	1066.363	
15) L4 Aroclor-1242{1}	9.25	8.93	2889	11549	15.761	46.217	#
16) L4 Aroclor-1242{2}	10.68	10.12	39199	57669	106.903	751.364	#
17) L4 Aroclor-1242{3}	11.37	0.00	11377	0	102.623	N.D.	#
18) L4 Aroclor-1242{4}	0.00	12.26	0	176374	N.D.	762.168	#
19) L4 Aroclor-1242{5}	14.18	0.00	182995	0	503.577	N.D.	#
Sum Aroclor-1242			236461	245592	728.864	1559.748	
Average Aroclor-1242					182.216	519.916	
20) L5 Aroclor-1248{1}	10.68	10.34	39199	36463	202.063	87.544	#
21) L5 Aroclor-1248{2}	11.99	12.26	59337	176374	106.059	520.461	#

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12/16/97

(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\BA0941.D\ECD1A.CH Vial: 41
Signal #2 : C:\HPCHEM\1\DATA_B\BA0941.D\ECD2B.CH
Acq On : 15 Dec 97 18:36 Operator:
Sample : 278408 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:02 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	
22)	L5 Aroclor-1248{3}	13.29	12.57	355281	95638	859.581	302.136	#
23)	L5 Aroclor-1248{4}	14.18	13.55	182995	553315	368.691	2056.331	#
24)	L5 Aroclor-1248{5}	0.00	15.57	0	985548	N.D.	7824.778	#
	Sum Aroclor-1248			636812	1847339	1536.395	10791.251	
Average	Aroclor-1248					384.099	2158.250	
25)	L6 Aroclor-1254{1}	14.18	11.44	182995	188088	1348.189	853.131	#
26)	L6 Aroclor-1254{2}	15.56	13.55	777594	553315	2109.130	1321.273	#
27)	L6 Aroclor-1254{3}	15.88	14.97	681316	363904	1478.407	2434.322	#
28)	L6 Aroclor-1254{4}	18.53	15.57	802091	985548	1979.042	2028.170	
29)	L6 Aroclor-1254{5}	19.86	17.87	1543075	996961	1788.027	2193.834	
	Sum Aroclor-1254			3987071	3087817	8702.794	8830.731	
Average	Aroclor-1254					1740.559	1766.146	
30)	L7 Aroclor-1260{1}	18.11	16.06	593497	511270	1140.371	1500.092	#
31)	L7 Aroclor-1260{2}	18.53	16.77	802091	477401	1303.053	1174.286	
32)	L7 Aroclor-1260{3}	20.08	17.87	129955	996961	284.811	1933.064	#
33)	L7 Aroclor-1260{4}	21.16	19.88	427318	186022	917.105	297.089	#
34)	L7 Aroclor-1260{5}	21.75	20.99	351355	159512	272.553	337.703	
	Sum Aroclor-1260			2304215	2331166	3917.892	5242.233	
Average	Aroclor-1260					783.578	1048.447	

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0941.D\ECD1A.CH Vial: 41
Signal #2 : E:\WESTDA~1\BA0941.D\ECD2B.CH
Acq On : 15 Dec 97 18:36 Operator:
Sample : 278408 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:23 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	7.21	6.01	382200	245536	41.085	40.633	
Spiked Amount 40.000 Range 43 - 150 Recovery =					102.71%	101.58%	
2) SA Decachlorobiphen	29.41	24.63	595962	358945	39.462	43.207	
Spiked Amount 40.000 Range 24 - 154 Recovery =					98.66%	108.02%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.18	11.44	174813	186334	1288.340	838.649	#
4) L6 Aroclor-1254{2}	15.56	13.55	775997	553002	2023.028	1319.474	#
5) L6 Aroclor-1254{3}	15.88	14.97	680187	361324	1292.238	2409.941	#
6) L6 Aroclor-1254{4}	18.53	15.57	802080	984263	1870.609	1979.054	
7) L6 Aroclor-1254{5}	19.86	17.87	1543075	955402	1776.848	1993.871	
Sum Aroclor-1254			3976152	3040326	8251.065	8540.990	
Average Aroclor-1254					1650.213	1708.198	

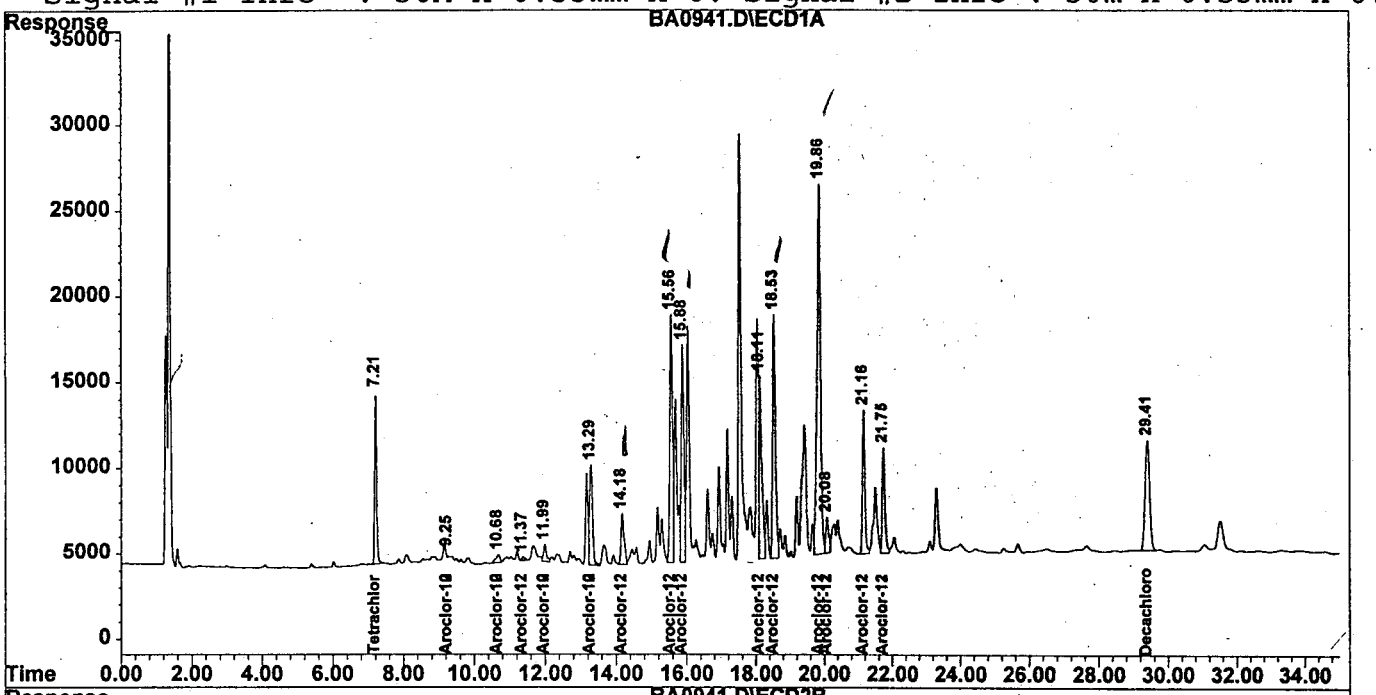
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

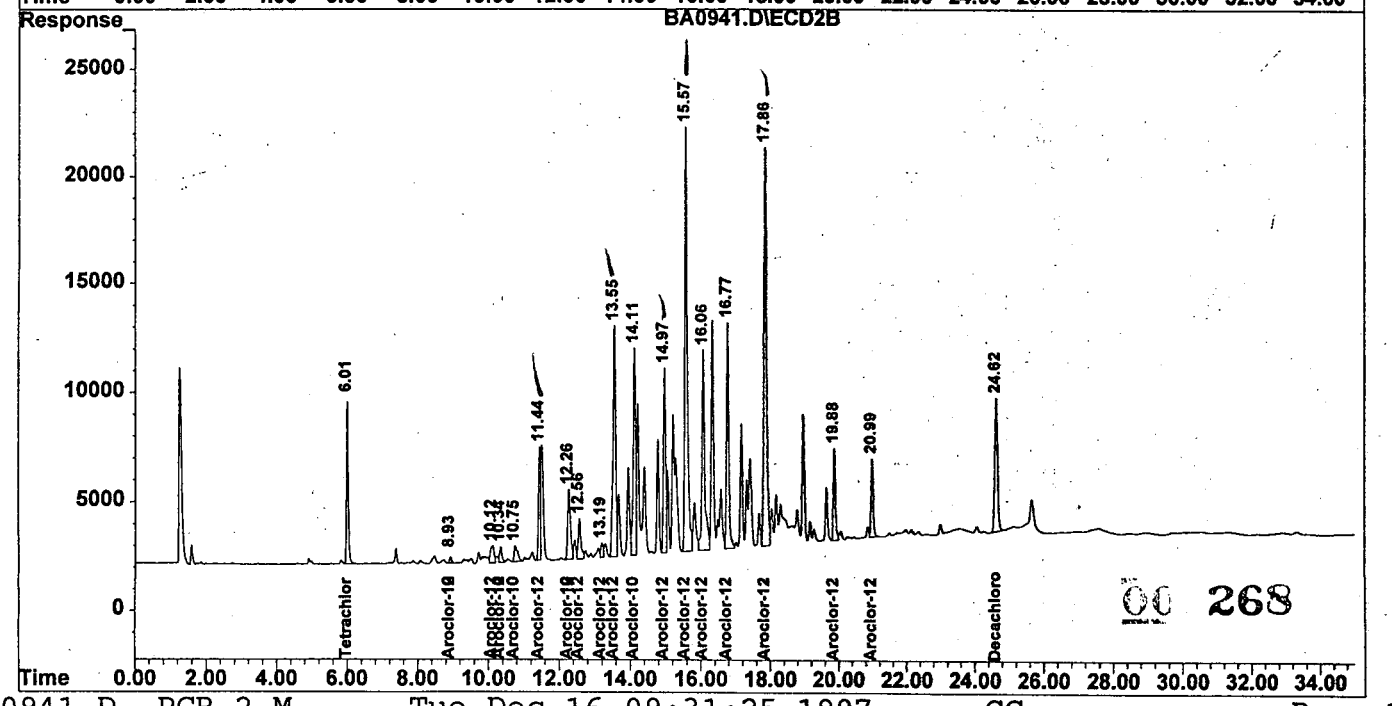
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0941.D\ECD1A.CH Vial: 41
Signal #2 : C:\HPCHEM\1\DATA_B\BA0941.D\ECD2B.CH
Acq On : 15 Dec 97 18:36 Operator:
Sample : 278408 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 20:02 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 : 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





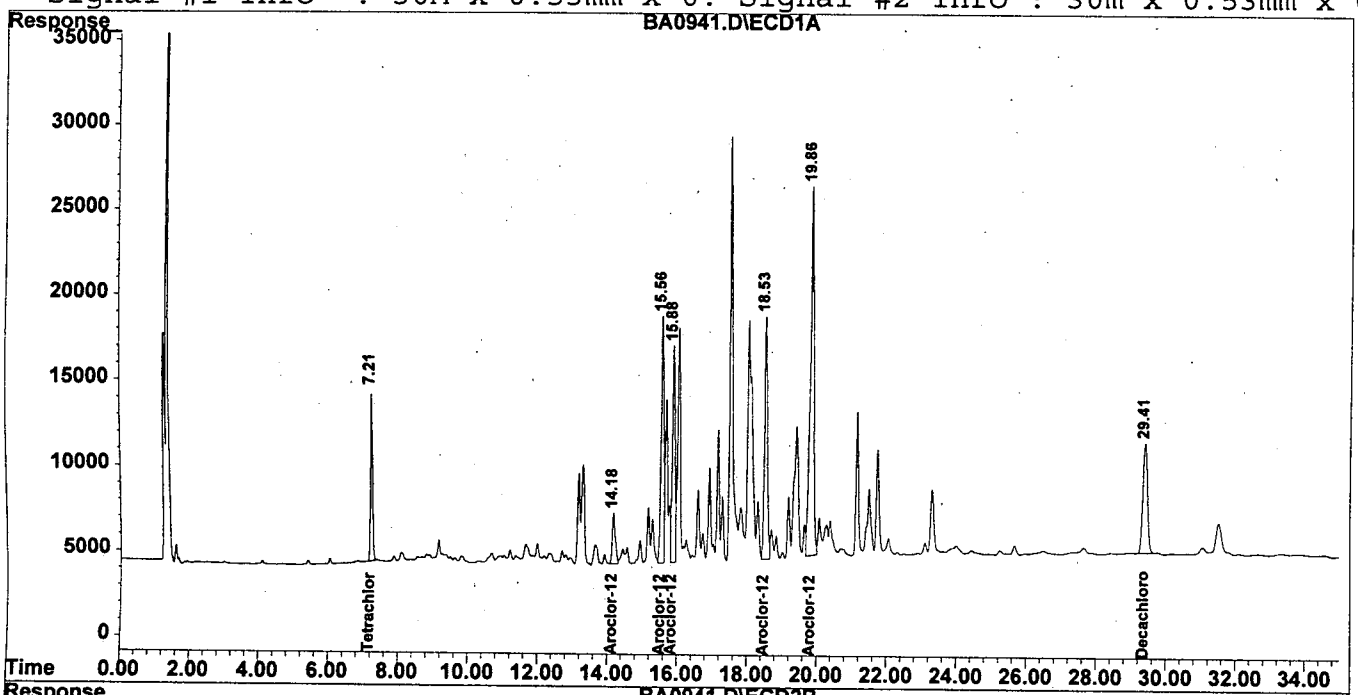
00 268

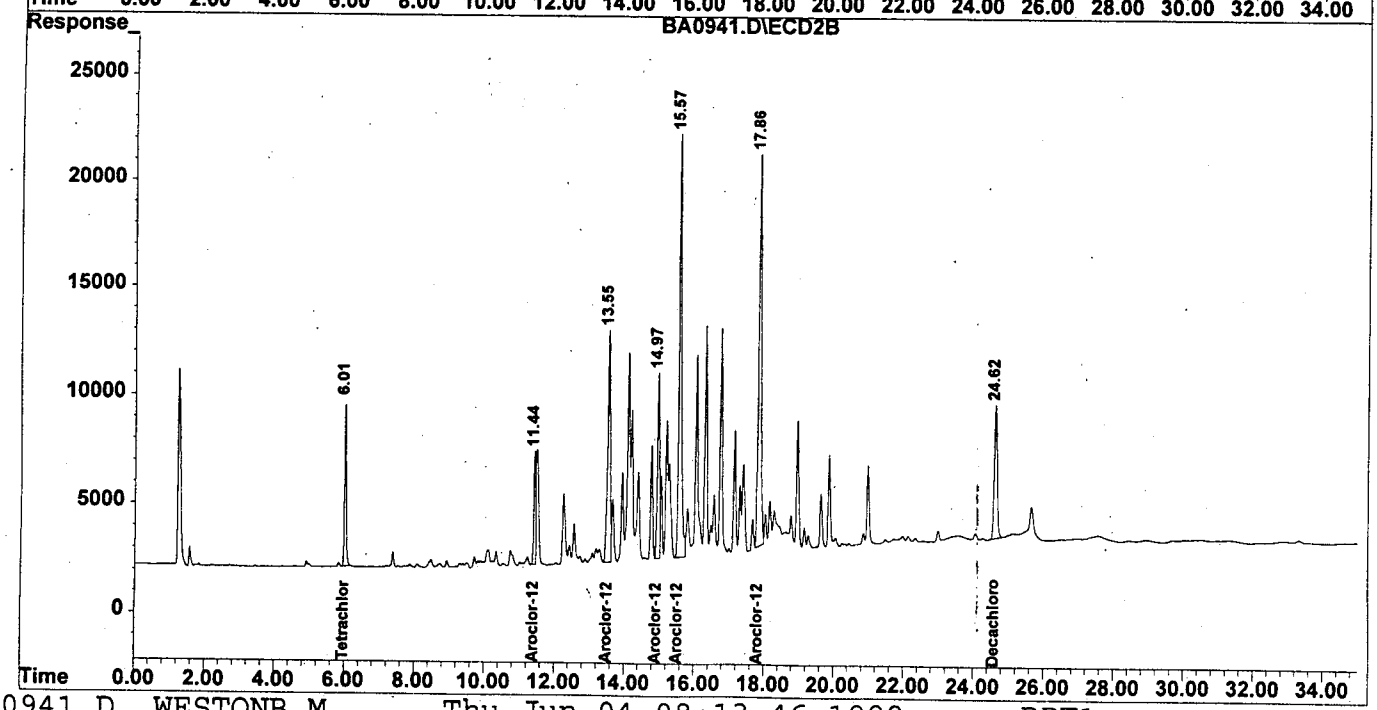
Quantitation Report AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0941.D\ECD1A.CH Vial: 41
Signal #2 : E:\WESTDA~1\BA0941.D\ECD2B.CH
Acq On : 15 Dec 97 18:36 Operator:
Sample : 278408 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:23 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





AMENDED REPORT JUN 0 5 1998

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 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: 278409
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	27.32%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	46	23
Aroclor-1221	U	U	92	64
Aroclor-1232	U	U	46	37
Aroclor-1242	U	U	46	23
Aroclor-1248	U	U	46	28
Aroclor-1254	190	U	46	32
Aroclor-1260	U	U	46	37

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.
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ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0943.D\ECD1A.CH Vial: 43
Signal #2 : C:\HPCHEM\1\DATA_B\BA0943.D\ECD2B.CH
Acq On : 15 Dec 97 19:54 Operator:
Sample : 278409 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 16 8:20 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	7.21	6.01	417201	261892	46.053	40.434	
Spiked Amount 40.000 Range 43 - 150 Recovery =					115.13%	101.09%	
2) SA Decachlorobiphen	29.40	24.62	628065	368984	41.735	41.376	
Spiked Amount 40.000 Range 24 - 154 Recovery =					104.34%	103.44%	
Target Compounds							
3) L1 Aroclor-1016{1}	0.00	8.92	0	13896	N.D.	47.750	#
4) L1 Aroclor-1016{2}	10.68	10.34	21169	20695	44.898	36.559	
5) L1 Aroclor-1016{3}	11.99	10.75	51975	23488	63.139	87.661	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	78236	N.D.	304.966	#
7) L1 Aroclor-1016{5}	13.29	14.12	122682	115318	375.715	781.920	#
Sum Aroclor-1016			195826	251633	483.803	1258.857	
Average Aroclor-1016					161.268	251.771	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
11) L3 Aroclor-1232{1}	0.00	8.92	0	13896	N.D.	96.021	#
12) L3 Aroclor-1232{2}	0.00	10.08	0	35779	N.D.	856.465	#
13) L3 Aroclor-1232{3}	10.68	11.44	21169	87856	97.530	1054.680	#
14) L3 Aroclor-1232{4}	11.99	13.19	51975	8159	148.064	144.220	
Sum Aroclor-1232			73144	145690	245.594	2151.386	
Average Aroclor-1232					122.797	537.847	
15) L4 Aroclor-1242{1}	0.00	8.92	0	13896	N.D.	55.610	#
16) L4 Aroclor-1242{2}	10.68	10.08	21169	35779	57.730	466.161	#
18) L4 Aroclor-1242{4}	12.94	12.26	47370	78236	274.998	338.082	
19) L4 Aroclor-1242{5}	14.18	0.00	81863	0	225.275	N.D.	#
Sum Aroclor-1242			150401	127911	558.003	859.853	
Average Aroclor-1242					186.001	286.618	
20) L5 Aroclor-1248{1}	10.68	10.34	21169	20695	109.119	49.688	#
21) L5 Aroclor-1248{2}	11.99	12.26	51975	78236	92.901	230.866	#
22) L5 Aroclor-1248{3}	13.29	12.57	122682	40913	296.823	129.251	#
23) L5 Aroclor-1248{4}	14.18	13.55	81863	168757	164.934	627.164	#

270

(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\BA0943.D\ECD1A.CH Vial: 43
Signal #2 : C:\HPCHEM\1\DATA_B\BA0943.D\ECD2B.CH
Acq On : 15 Dec 97 19:54 Operator:
Sample : 278409 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 16 8:20 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	15.57	0	237649	N.D.	1886.818	#
Sum	Aroclor-1248			277689	546250	663.776	2923.787	
Average	Aroclor-1248					165.944	584.757	
25)	L6 Aroclor-1254{1}	14.18	11.44	81863	87856	603.112	398.498	#
2[illegible])	L6 Aroclor-1254{2}	15.57	13.55	173766	168757	471.319	402.977	
2[illegible])	L6 Aroclor-1254{3}	15.88	14.97	209106	81114	453.745	542.608	
28)	L6 Aroclor-1254{4}	18.53	15.57	160080	237649	394.974	489.060	
29)	L6 Aroclor-1254{5}	19.86	17.86	265815	203029	308.011	446.770	#
Sum	Aroclor-1254			890629	778404	2231.161	2279.914	
Average	Aroclor-1254					446.232	455.983	
3[illegible])	L7 Aroclor-1260{1}	0.00	16.06	0	111591	N.D.	327.414	#
3[illegible])	L7 Aroclor-1260{2}	18.53	16.77	160080	89431	260.061	219.977	
32)	L7 Aroclor-1260{3}	0.00	17.86	0	203029	N.D.	393.665	#
3[illegible])	L7 Aroclor-1260{4}	21.16	19.88	67575	30380	145.029	48.519	#
3[illegible])	L7 Aroclor-1260{5}	21.75	20.99	52203	28833	40.495	61.043	#
Sum	Aroclor-1260			279858	463265	445.585	1050.618	
Average	Aroclor-1260					148.528	210.124	

DC 271

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0943.D\ECD1A.CH Vial: 43
Signal #2 : E:\WESTDA~1\BA0943.D\ECD2B.CH
Acq On : 15 Dec 97 19:54 Operator:
Sample : 278409 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:32 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	7.21	6.01	389595	252309	41.880	41.754	
Spiked Amount 40.000 Range 43 - 150 Recovery =					104.70%	104.39%	
2) SA Decachlorobiphen	29.40	24.62	622856	369135	41.243	44.434	
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.11%	111.09%	
Target Compounds							
3) L6 Aroclor-1254{1}	14.18	11.44	69790	87209	514.341	392.507	
4) L6 Aroclor-1254{2}	15.57	13.55	171632	168636	447.446	402.368	
5) L6 Aroclor-1254{3}	15.88	14.97	207390	97491	394.004	650.241	#
6) L6 Aroclor-1254{4}	18.53	15.57	160028	223998	373.217	450.393	
7) L6 Aroclor-1254{5}	19.86	17.86	265534	195527	305.762	408.054	#
Sum Aroclor-1254			874374	772861	2034.770	2303.563	
Average Aroclor-1254					406.954	460.713	

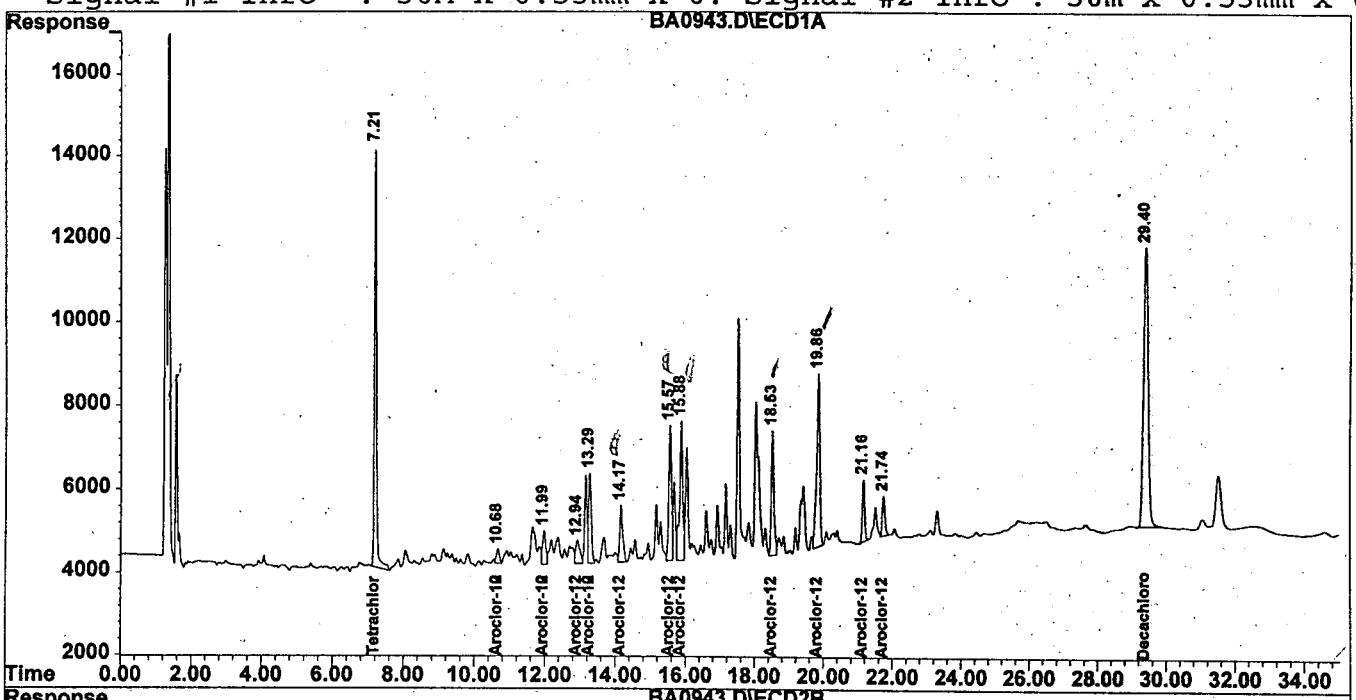
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

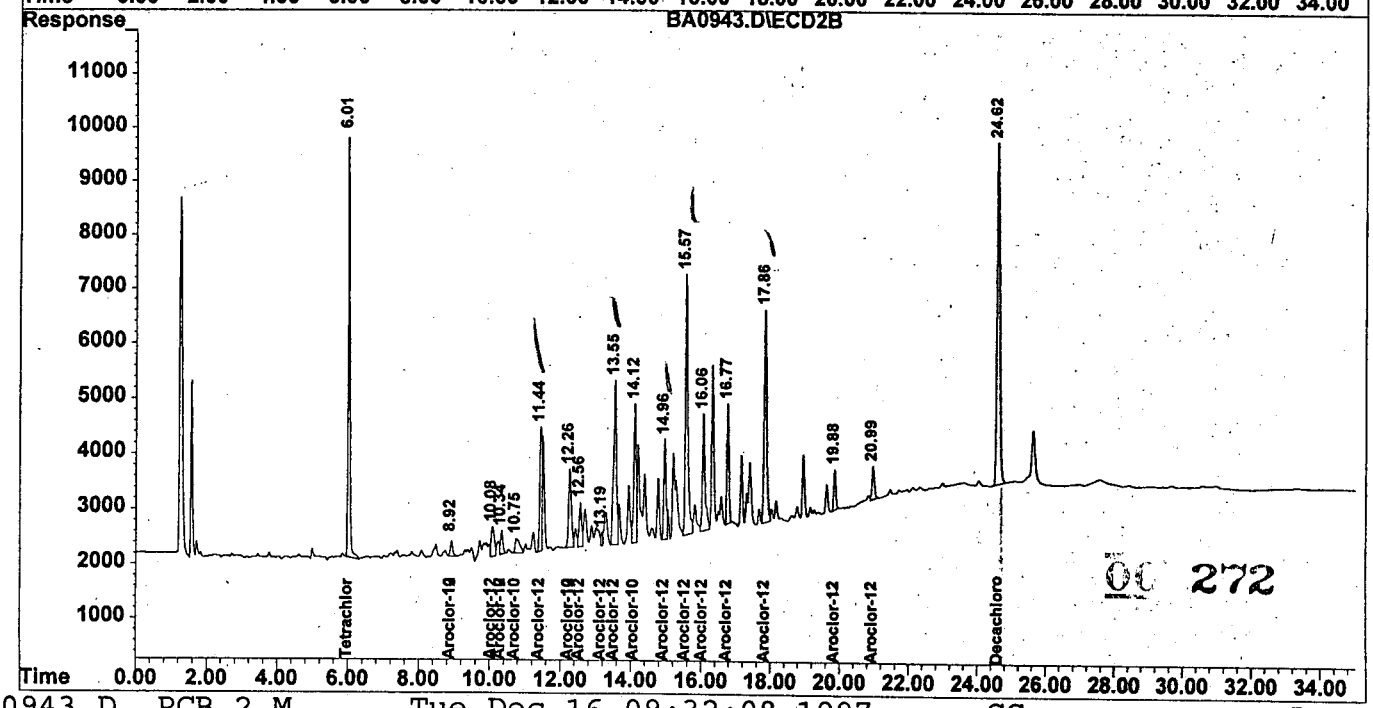
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0943.D\ECD1A.CH Vial: 43
Signal #2 : C:\HPCHEM\1\DATA_B\BA0943.D\ECD2B.CH
Acq On : 15 Dec 97 19:54 Operator:
Sample : 278409 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 16 8:20 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





OC 272

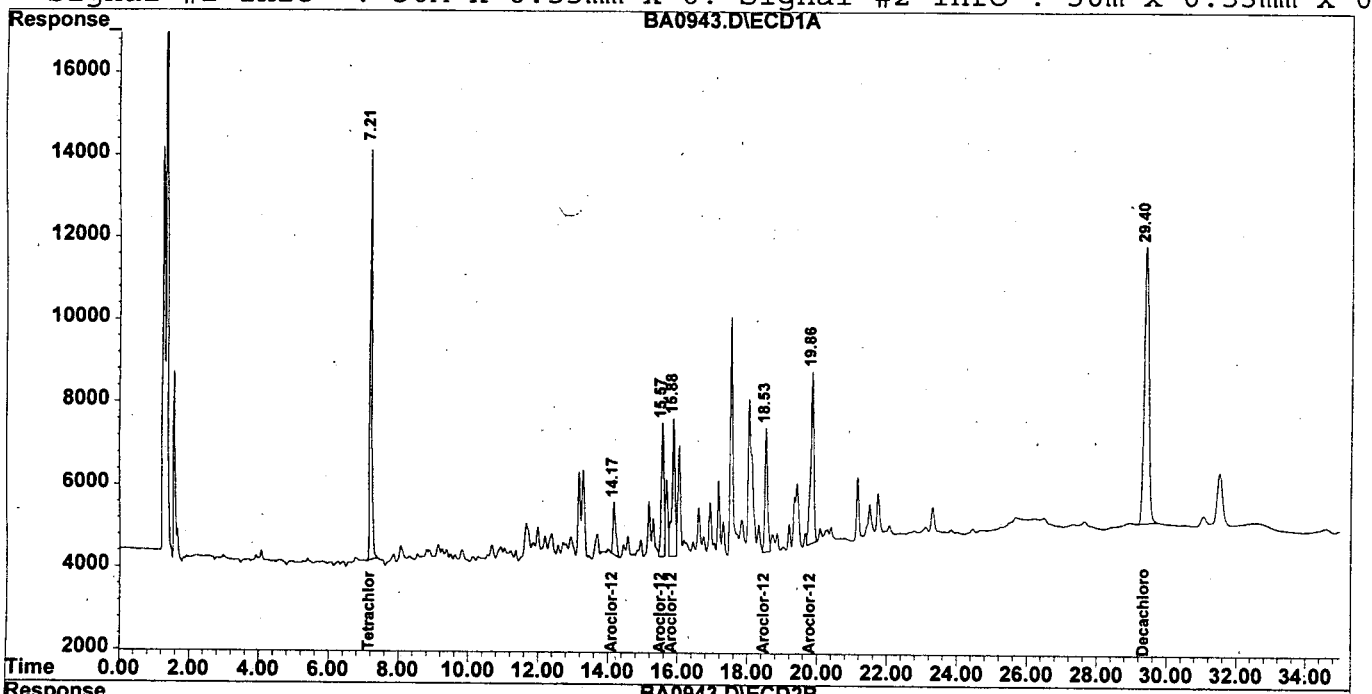
Quantitation Report

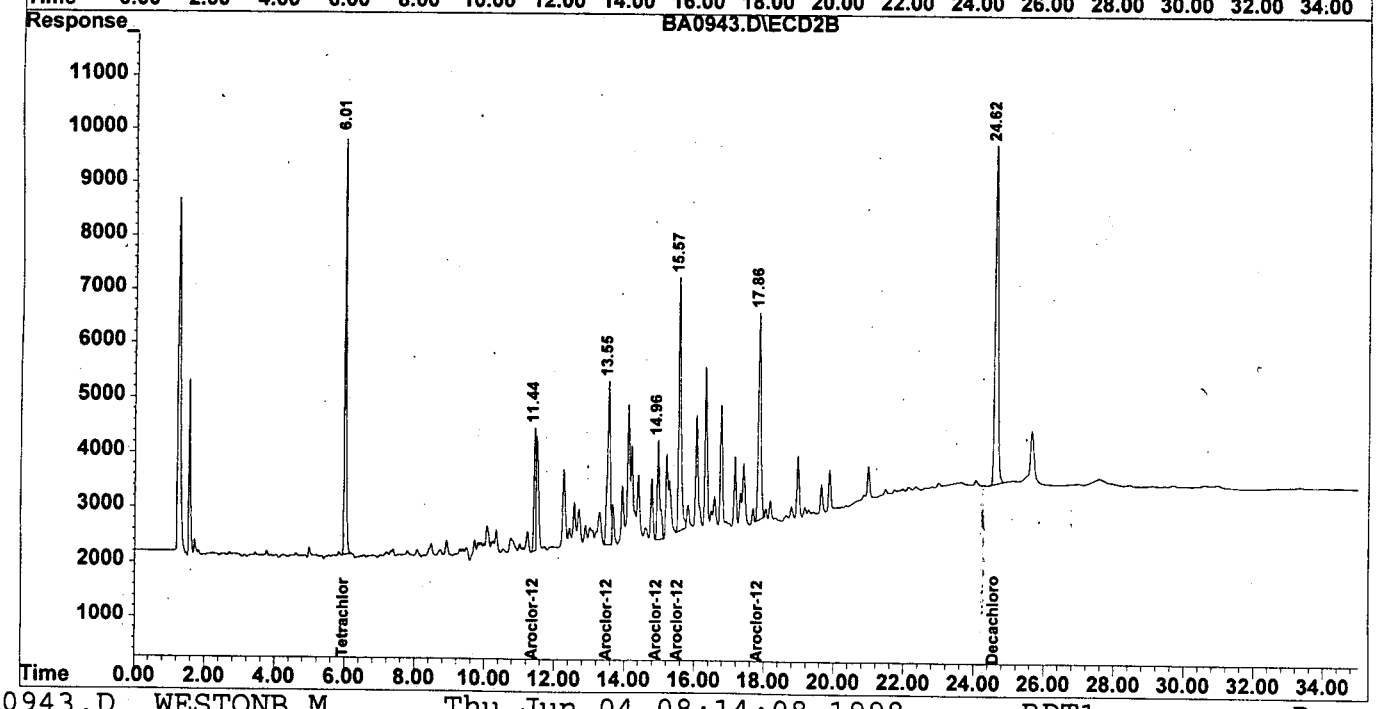
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0943.D\ECD1A.CH Vial: 43
Signal #2 : E:\WESTDA~1\BA0943.D\ECD2B.CH
Acq On : 15 Dec 97 19:54 Operator:
Sample : 278409 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:32 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





272A

AMENDED REPORT JUN 0 5 1998

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 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: 278410
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	26.46%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	45	23
Aroclor-1221	U	U	91	63
Aroclor-1232	U	U	45	36
Aroclor-1242	U	U	45	23
Aroclor-1248	U	U	45	27
Aroclor-1254	~~330~~ 360	U	45	32
Aroclor-1260	U	U	45	36

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1033.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_B\BA1033.D\ECD2B.CH
Acq On : 18 Dec 97 20:03 Operator:
Sample : 278410 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:21 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	7.22	5.95	411826	282654	45.460	43.640	
Spiked Amount 40.000 Range 43 - 150 Recovery =					113.65%	109.10%	
2) SA Decachlorobiphen	29.18	24.46	639085	401052	42.468	44.972	
Spiked Amount 40.000 Range 24 - 154 Recovery =					106.17%	112.43%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.16	8.85	11538	27075	54.204	93.035	#
4) L1 Aroclor-1016{2}	10.66	10.26	26104	39097	55.366	69.066	
5) L1 Aroclor-1016{3}	11.97	10.66	34841	47698	42.358	178.016	#
6) L1 Aroclor-1016{4}	0.00	12.17	0	135701	N.D.	528.968	#
7) L1 Aroclor-1016{5}	13.25	14.02	251603	193433	770.536	1311.586	#
Sum Aroclor-1016			324087	443003	922.465	2180.670	
Average Aroclor-1016					230.616	436.134	
					NP	NP	
10) L2 Aroclor-1221{3}	9.16	0.00	11538	0	38.117	N.D.	#
Sum Aroclor-1221			11538	0	38.117	N.D.	
Average Aroclor-1221					38.117	0.000	
					NP		
12) L3 Aroclor-1232{2}	9.16	0.00	11538	0	56.458	N.D.	#
13) L3 Aroclor-1232{3}	10.66	11.41	26104	198559	120.270	2383.630	#
14) L3 Aroclor-1232{4}	11.97	13.20	34841	8209	99.253	145.106	#
Sum Aroclor-1232			72483	206768	275.982	2528.737	
Average Aroclor-1232					91.994	1264.368	
					NP	NP	
15) L4 Aroclor-1242{1}	9.16	0.00	11538	0	62.941	N.D.	#
16) L4 Aroclor-1242{2}	10.66	0.00	26104	0	71.190	N.D.	#
17) L4 Aroclor-1242{3}	11.35	11.15	14828	17925	133.747	111.124	
19) L4 Aroclor-1242{5}	14.14	14.30	156510	117225	430.695	1311.608	#
Sum Aroclor-1242			208980	135150	698.573	1422.732	
Average Aroclor-1242					174.643	711.366	
					NP	NP	
20) L5 Aroclor-1248{1}	10.66	10.26	26104	39097	134.561	93.869	#
21) L5 Aroclor-1248{2}	11.97	12.17	34841	135701	62.275	400.439	#
22) L5 Aroclor-1248{3}	13.25	12.48	251603	69947	608.739	220.975	#
23) L5 Aroclor-1248{4}	14.14	13.46	156510	298884	315.331	1110.765	#
					NP	NP	

274

(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\BA1033.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_B\BA1033.D\ECD2B.CH
Acq On : 18 Dec 97 20:03 Operator:
Sample : 278410 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:21 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}	16.13	15.47	24161	408589	64.084	3243.999	#
Sum	Aroclor-1248			493219	952218	1184.990	5070.047	
Average	Aroclor-1248					236.998	1014.009	
						NO	NO	
25) L6	Aroclor-1254{1}	14.14	11.36	156510	153209	1153.066	694.926	#
2[illegible]) L6	Aroclor-1254{2}	15.51	13.46	332416	298884	901.638	713.710	
2[illegible]) L6	Aroclor-1254{3}	15.83	14.87	284218	157284	616.734	1052.144	#
28) L6	Aroclor-1254{4}	18.46	15.47	279751	408589	690.246	840.839	
2[illegible]) L6	Aroclor-1254{5}	19.78	17.76	486430	355181	563.647	781.583	#
Sum	Aroclor-1254			1539326	1373146	3925.331	4083.203	
Average	Aroclor-1254					785.066	816.641	
						L		
3[illegible]) L7	Aroclor-1260{1}	0.00	15.97	0	186442	N.D.	547.031	#
3[illegible]) L7	Aroclor-1260{2}	18.46	16.67	279751	172475	454.476	424.245	
32) L7	Aroclor-1260{3}	20.00	17.76	32224	355181	70.622	688.680	#
3[illegible]) L7	Aroclor-1260{4}	21.08	19.77	124586	57015	267.386	91.057	#
3[illegible]) L7	Aroclor-1260{5}	21.66	20.88	93650	44876	72.646	95.007	#
Sum	Aroclor-1260			530212	815989	865.130	1846.020	
Average	Aroclor-1260					216.282	369.204	
						NO	NO	

QC 275

12/12/97

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

ICM Laboratories Quantitation Report

AMENDED REPORT (QT Reviewed) JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1033.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\BA1033.D\ECD2B.CH
Acq On : 18 Dec 97 20:03 Operator:
Sample : 278410 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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	7.22	5.95	408700	278417	43.933	46.075
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.83%	115.19%
2) SA Decachlorobiphen	29.18	24.46	638952	401200	42.309	48.293
Spiked Amount 40.000 Range 24 - 154 Recovery =					105.77%	120.73%
Target Compounds						
3) L6 Aroclor-1254{1}	14.14	11.36	136457	151980	1005.666	684.027 #
4) L6 Aroclor-1254{2}	15.51	13.46	330356	298708	861.240	712.722
5) L6 Aroclor-1254{3}	15.83	14.87	282695	156753	537.071	1045.502 #
6) L6 Aroclor-1254{4}	18.46	15.47	279334	408571	651.462	821.512 #
7) L6 Aroclor-1254{5}	19.78	17.76	486388	355116	560.075	741.107 #
Sum Aroclor-1254			1515230	1371127	3615.515	4004.871
Average Aroclor-1254					723.103	800.974

275A

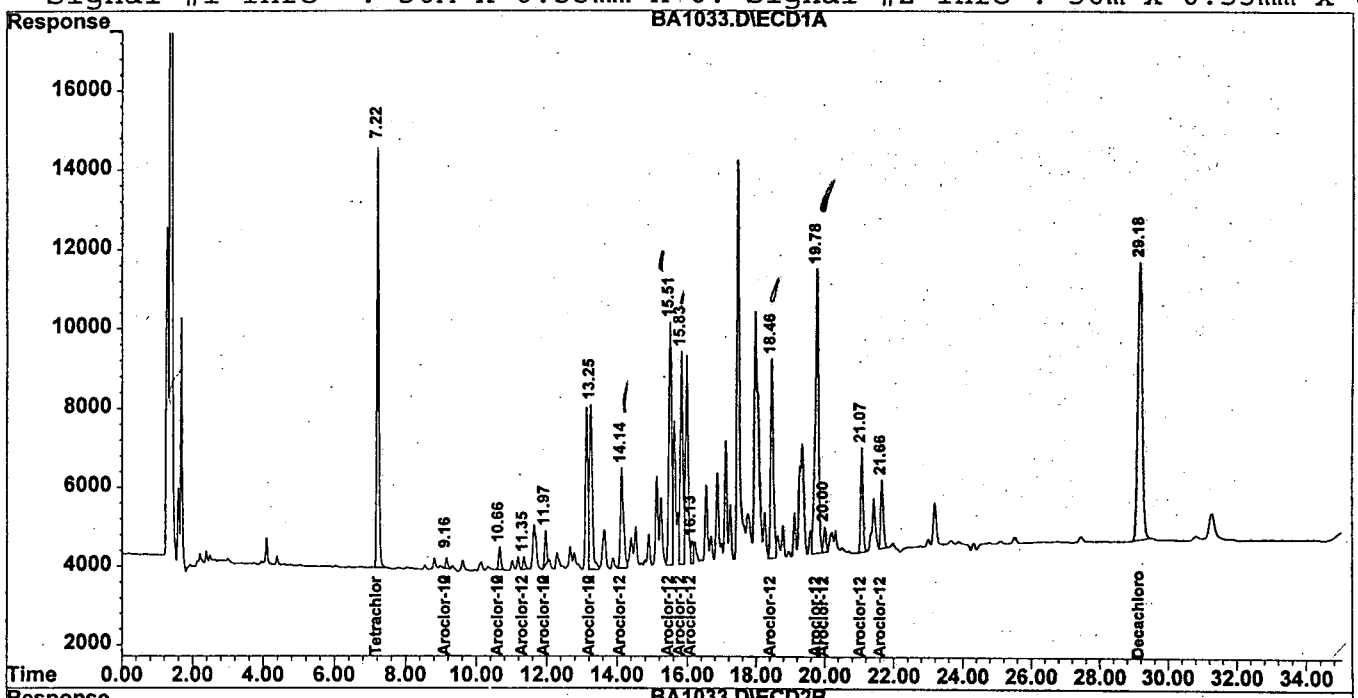
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

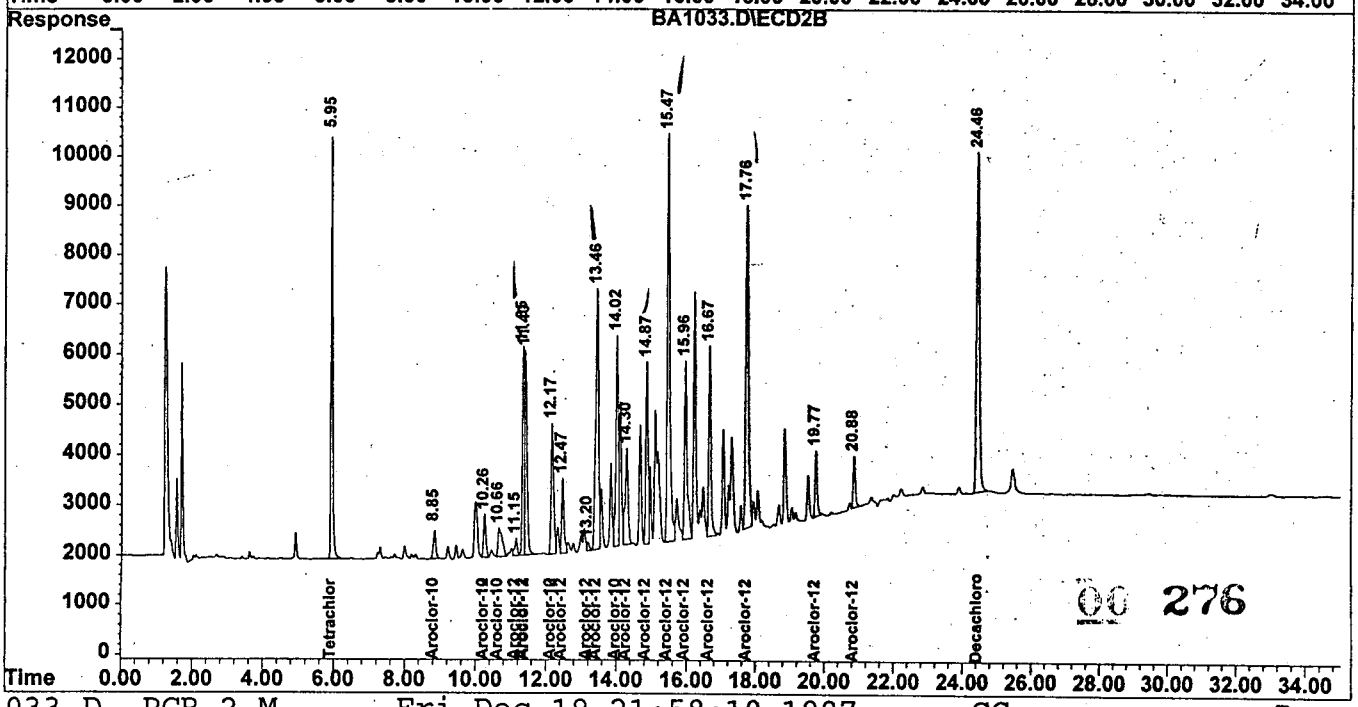
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1033.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_B\BA1033.D\ECD2B.CH
Acq On : 18 Dec 97 20:03 Operator:
Sample : 278410 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:21 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





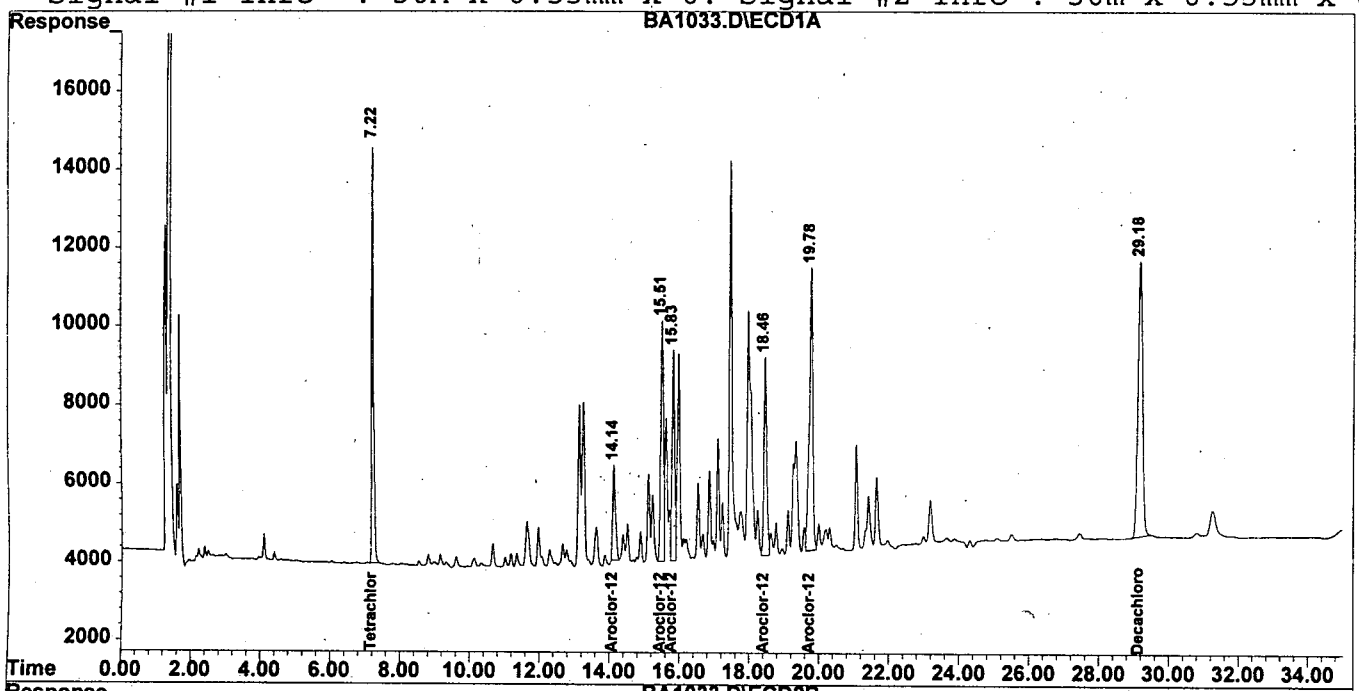
00 276

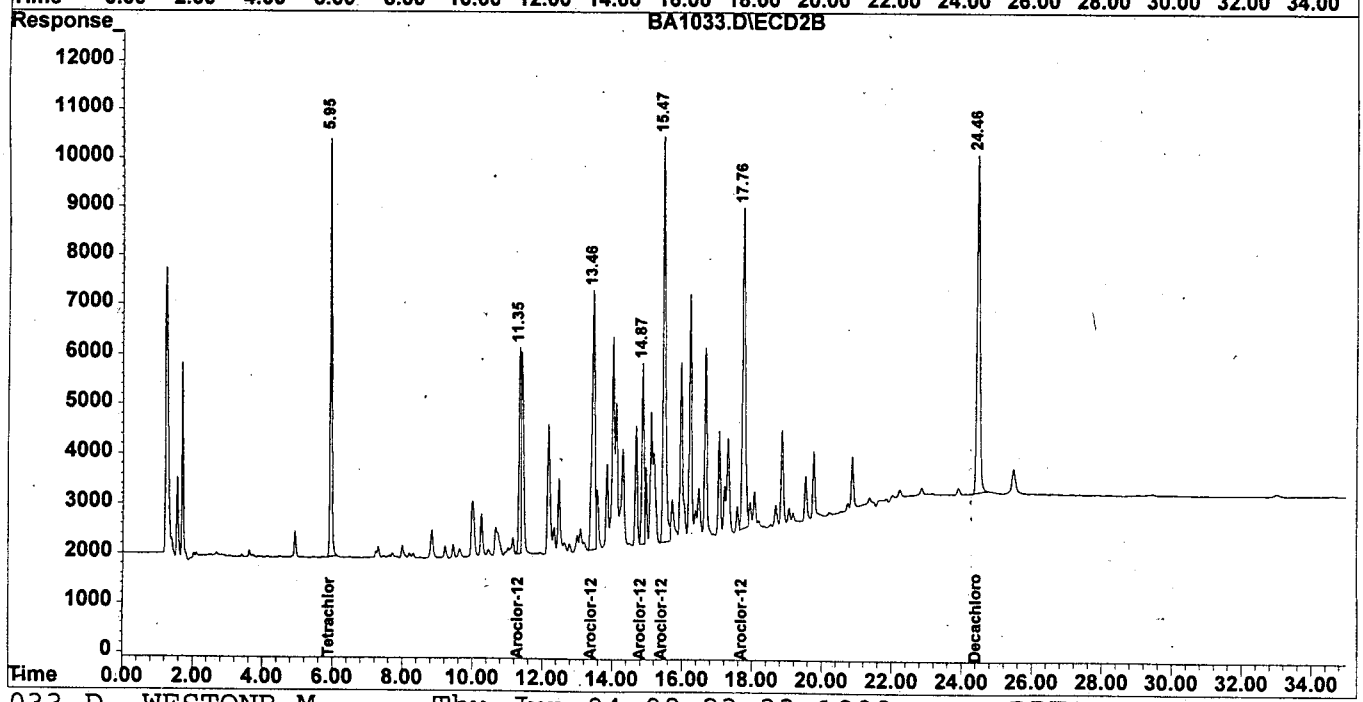
Quantitation Report AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1033.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\BA1033.D\ECD2B.CH
Acq On : 18 Dec 97 20:03 Operator:
Sample : 278410 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278411
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSNS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/17/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	19.49%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	UJ	U	41	21
Aroclor-1221	U	U	83	58
Aroclor-1232	U	U	41	33
Aroclor-1242	U	U	41	21
Aroclor-1248	U	U	41	25
Aroclor-1254	390	U	41	29
Aroclor-1260	UJ	U	41	33

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.

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Thomas Mancuso, Lab Mgr.
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ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0990.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_B\BA0990.D\ECD2B.CH
Acq On : 17 Dec 97 7:20 Operator:
Sample : 278411 Inst : GC_5890_2
Misc : QPC740 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 11:49 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	7.23	6.00	414637	261303	45.770m	40.343	
Spiked Amount 40.000 Range 43 - 150 Recovery =					114.43%	100.86%	
2) SA Decachlorobiphen	29.41	24.61	675283	363322	44.873	40.741	
Spiked Amount 40.000 Range 24 - 154 Recovery =					112.18%	101.85%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.18	0.00	273424	0	1284.509	N.D.	#
4) L1 Aroclor-1016{2}	10.69	10.33	24779	11967	52.555	21.140	#
5) L1 Aroclor-1016{3}	12.01	0.00	90434	0	109.946	N.D.	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	39645	N.D.	154.537	#
7) L1 Aroclor-1016{5}	13.29	14.11	67073	177801	205.410	1205.596	#
Sum Aroclor-1016			455709	229413	1652.421	1381.272	
Average Aroclor-1016					413.105	460.424	
					NP	NP	
8) L2 Aroclor-1221{1}	6.04	0.00	9131	0	103.761	N.D.	#
10) L2 Aroclor-1221{3}	9.18	0.00	273424	0	903.271	N.D.	#
Sum Aroclor-1221			282554	0	1007.032	N.D.	
Average Aroclor-1221					503.516	0.000	
					NP		
12) L3 Aroclor-1232{2}	9.18	10.12	273424	11356	1337.921	271.832	#
13) L3 Aroclor-1232{3}	10.69	11.44	24779	89884	114.164	1079.022	#
14) L3 Aroclor-1232{4}	12.01	13.19	90434	68141	257.623	1204.445	#
Sum Aroclor-1232			388637	169381	1709.708	2555.299	
Average Aroclor-1232					569.903	851.766	
					NP	NP	
15) L4 Aroclor-1242{1}	9.18	0.00	273424	0	1491.547	N.D.	#
16) L4 Aroclor-1242{2}	10.69	10.12	24779	11356	67.576	147.954	#
18) L4 Aroclor-1242{4}	0.00	12.26	0	39645	N.D.	171.318	#
19) L4 Aroclor-1242{5}	14.19	0.00	47847	0	131.669	N.D.	#
Sum Aroclor-1242			346050	51001	1690.792	319.271	
Average Aroclor-1242					563.597	159.636	
					NP	NP	
20) L5 Aroclor-1248{1}	0.00	10.33	0	11967	N.D.	28.731	#
21) L5 Aroclor-1248{2}	12.01	12.26	90434	39645	161.642	116.988	#
22) L5 Aroclor-1248{3}	0.00	12.56	0	20899	N.D.	66.022	#
					NP	NP	

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(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\BA0990.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_B\BA0990.D\ECD2B.CH
Acq On : 17 Dec 97 7:20 Operator:
Sample : 278411 Inst : GC_5890_2
Misc : QPC74067 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 11:49 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}	14.19	13.55	47847	179571	96.401	667.354	#
24)	L5 Aroclor-1248{5}	0.00	15.56	0	429400	N.D.	3409.227	#
	Sum Aroclor-1248			138282	681481	258.043	4288.322	
Average	Aroclor-1248					129.021	857.664	
						no	no	
2[illegible])	L6 Aroclor-1254{1}	~~14.19~~	11.44	47847	89884	~~352.508~~	407.695	
2[illegible])	L6 Aroclor-1254{2}	15.56	13.55	546511	179571	1482.344	428.801	#
27)	L6 Aroclor-1254{3}	15.90	14.96	292760	244260	635.268	1633.968	#
2[illegible])	L6 Aroclor-1254{4}	18.54	15.56	655196	429400	1616.601	883.666	#
2[illegible])	L6 Aroclor-1254{5}	19.87	17.85	896219	666183	1038.487	1465.950	#
	Sum Aroclor-1254			2438533	1609297	5125.208	4820.080	
Average	Aroclor-1254					1025.042	964.016	
3[illegible])	L7 Aroclor-1260{1}	18.13	16.06	297333	221447	571.309	649.735	
31)	L7 Aroclor-1260{2}	18.54	16.76	655196	278674	1064.412	685.467	#
3[illegible])	L7 Aroclor-1260{3}	20.09	17.85	117001	666183	256.420	1291.700	#
3[illegible])	L7 Aroclor-1260{4}	21.17	19.87	249534	133928	535.547	213.892	#
34)	L7 Aroclor-1260{5}	21.75	20.98	364896	131435	283.058	278.261	
	Sum Aroclor-1260			1683961	1431667	2710.746	3119.056	
Average	Aroclor-1260					542.149	623.811	
						no	no	

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12/17/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0990.D\ECD1A.CH Vial: 29
Signal #2 : E:\WESTDA~1\BA0990.D\ECD2B.CH
Acq On : 17 Dec 97 7:20 Operator:
Sample : 278411 Inst : GC_5890_2
Misc : ~~QPC7406~~ QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:49 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	7.23	6.00	409129	251370	43.980	41.599
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.95%	104.00%
2) SA Decachlorobiphen	29.41	24.61	675283	352845	44.715	42.473
Spiked Amount 40.000 Range 24 - 154 Recovery =					111.79%	106.18%
Target Compounds						
3) L6 Aroclor-1254{1}	~~14.19~~	11.44	27900	81956	~~205.620~~	368.867 #
4) L6 Aroclor-1254{2}	15.56	13.55	546686	179650	1425.214	428.649 #
5) L6 Aroclor-1254{3}	15.90	14.96	292891	244134	556.443	1628.313 #
6) L6 Aroclor-1254{4}	18.54	15.56	655237	429419	1528.143	863.432 #
7) L6 Aroclor-1254{5}	19.87	17.85	896219	666221	1031.994	1390.367 #
Sum Aroclor-1254			2418934	1601381	~~4747.414~~	4679.627
Average Aroclor-1254					~~949.483~~ 1135.448	935.925

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

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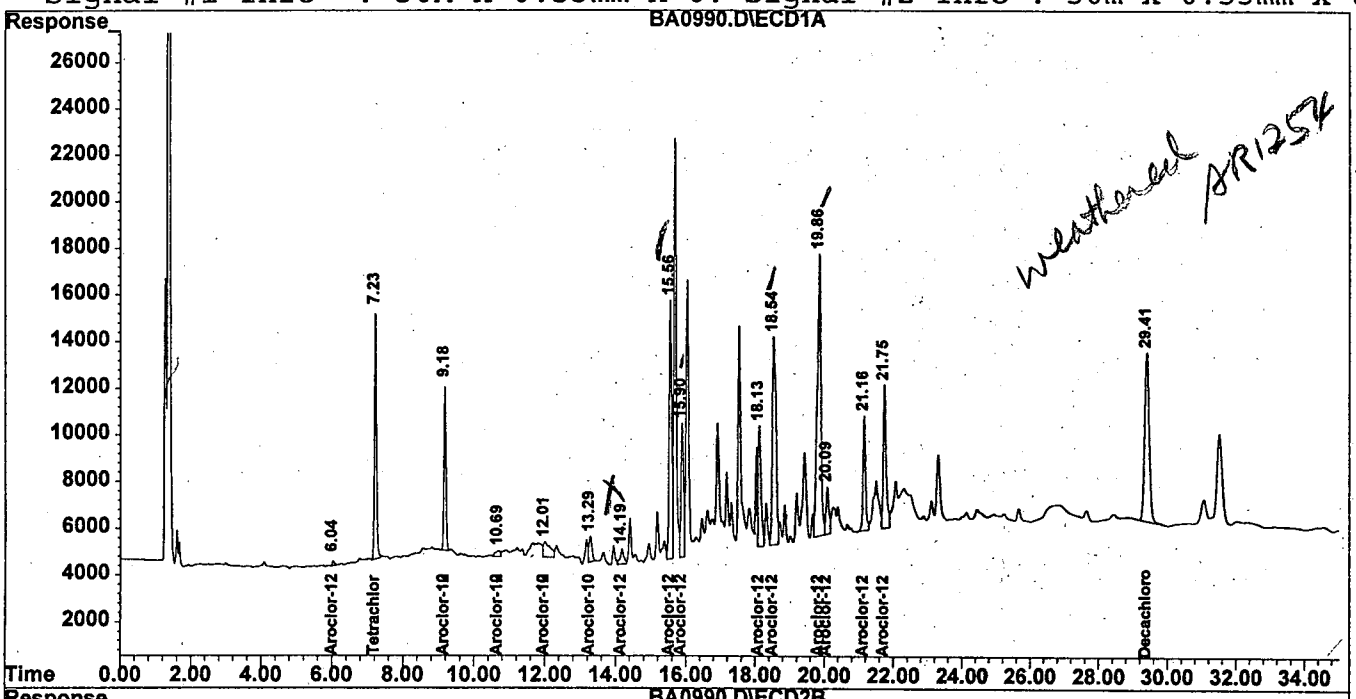
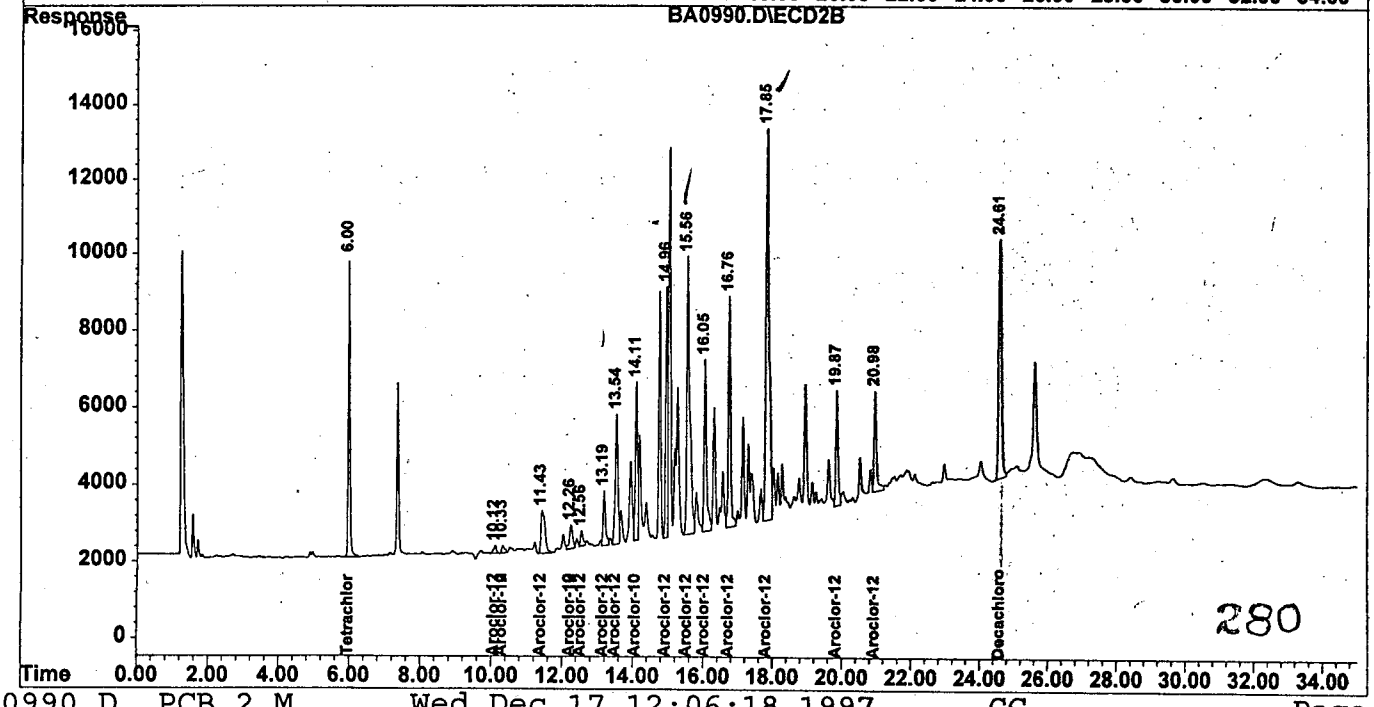
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0990.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA_B\BA0990.D\ECD2B.CH
Acq On : 17 Dec 97 7:20 Operator:
Sample : 278411 Inst : GC_5890_2
Misc : QPC740~~6~~7 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 11:49 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





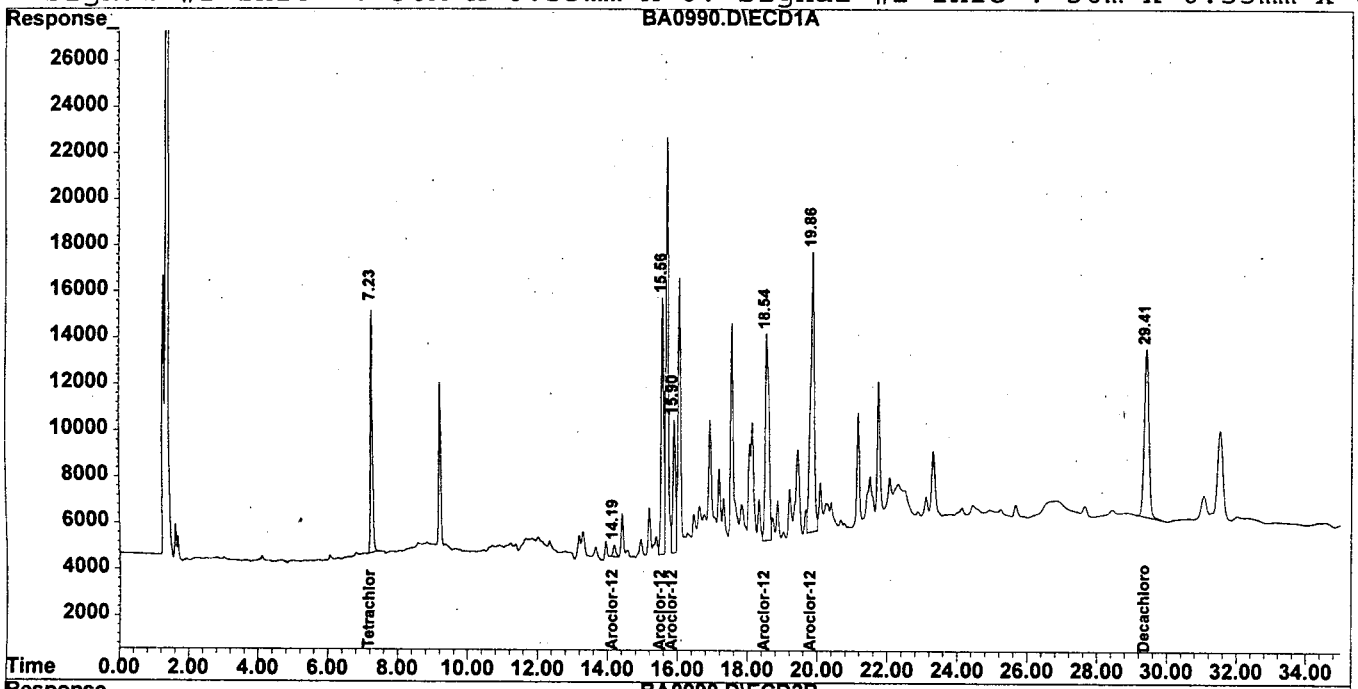
Quantitation Report

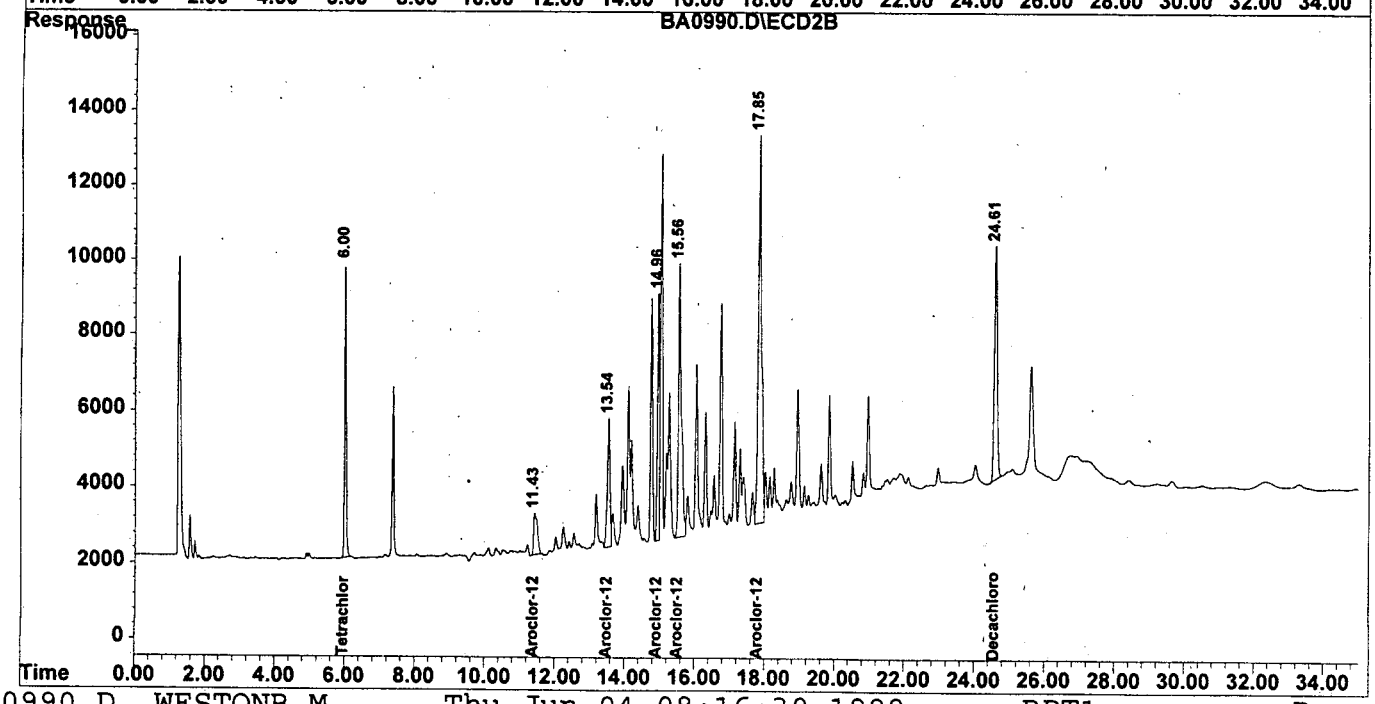
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0990.D\ECD1A.CH Vial: 29
Signal #2 : E:\WESTDA~1\BA0990.D\ECD2B.CH
Acq On : 17 Dec 97 7:20 Operator:
Sample : 278411 Inst : GC_5890_2
Misc : ~~QPC7406~~ QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:49 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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278412
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSND1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/17/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	18.72%

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	41	20
Aroclor-1221	U	U	82	57
Aroclor-1232	U	U	41	33
Aroclor-1242	U	U	41	20
Aroclor-1248	U	U	41	25
Aroclor-1254	32 ~~28~~J	U	41	29
Aroclor-1260	U J	U	41	33

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.
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ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0991.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA_B\BA0991.D\ECD2B.CH
Acq On : 17 Dec 97 7:59 AMENDED REPORT JUN 0 9 1998 Operator:
Sample : 278412 Inst : GC_5890_2
Misc : QPC74087 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 11:53 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	7.23	6.01	428569	263376	47.308m	40.663
Spiked Amount 40.000 Range 43 - 150 Recovery =					118.27%	101.66%
2) SA Decachlorobiphen	29.41	24.61	660922	386525	43.919	43.343
Spiked Amount 40.000 Range 24 - 154 Recovery =					109.80%	108.36%
Target Compounds						
7) L1 Aroclor-1016{5}	0.00	14.11	0	18701	N.D.	126.803 #
Sum Aroclor-1016			0	18701	N.D.	126.803
Average Aroclor-1016					0.000	126.803
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
13) L3 Aroclor-1232{3}	0.00	11.44	0	8245	N.D.	98.976 #
Sum Aroclor-1232			0	8245	N.D.	98.976
Average Aroclor-1232					0.000	98.976
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L5 Aroclor-1248{4}	0.00	13.55	0	11209	N.D.	41.658 #
24) L5 Aroclor-1248{5}	0.00	15.57	0	33597	N.D.	266.742 #
Sum Aroclor-1248			0	44806	N.D.	308.400
Average Aroclor-1248					0.000	154.200
25) L6 Aroclor-1254{1}	14.20	11.44	6672	8245	49.155m	37.397
26) L6 Aroclor-1254{2}	15.56	13.55	21404	11209	58.055	26.767 #
27) L6 Aroclor-1254{3}	15.90	14.96	22995	8866	49.897	59.311
28) L6 Aroclor-1254{4}	18.54	15.57	60283	33597	148.739	69.139 #
29) L6 Aroclor-1254{5}	19.79	17.84	206489	98474	239.268	216.693
Sum Aroclor-1254			317843	160390	545.114	409.306
Average Aroclor-1254					109.023	81.861
30) L7 Aroclor-1260{1}	18.13	16.06	28575	19703	54.906	57.810
31) L7 Aroclor-1260{2}	18.54	16.76	60283	51921	97.933	127.712 #

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(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\BA0991.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA_B\BA0991.D\ECD2B.CH
Acq On : 17 Dec 97 7:59 Operator:
Sample : 278412 Inst : GC_5890_2
Misc : QPC740~~6~~7 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 11:53 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	
32) L7	Aroclor-1260{3}	20.09	17.84	29973	98474	65.689	190.936	#
33) L7	Aroclor-1260{4}	21.17	19.87	34847	25816	74.787	41.230	#
34) L7	Aroclor-1260{5}	21.74	20.98	100284	28705	77.793	60.773	
Sum	Aroclor-1260			253962	224619	371.108	478.460	
Average	Aroclor-1260					74.222	95.692	

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0991.D\ECD1A.CH Vial: 30
Signal #2 : E:\WESTDA~1\BA0991.D\ECD2B.CH
Acq On : 17 Dec 97 7:59 Operator:
Sample : 278412 Inst : GC_5890_2
Misc : ~~QPC7406~~ QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 9:51 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	7.23	6.01	424088	259667	45.588	42.972
Spiked Amount 40.000 Range 43 - 150 Recovery =					113.97%	107.43%
2) SA Decachlorobiphen	29.41	24.61	662402	384717	43.862	46.309
Spiked Amount 40.000 Range 24 - 154 Recovery =					109.66%	115.77%
Target Compounds						
3) L6 Aroclor-1254{1}	14.20	11.43	6078	9402	44.794m	42.316m
4) L6 Aroclor-1254{2}	15.56	13.55	19887	13612	51.846	32.478m#
5) L6 Aroclor-1254{3}	15.90	14.96	19206	10274	36.488	68.525m#
6) L6 Aroclor-1254{4}	18.54	15.57	59255	26169	138.195	52.618 #
7) L6 Aroclor-1254{5}	19.83	17.84	59378	95942	68.374m	200.225 #
Sum Aroclor-1254			163805	155399	339.697	396.163
Average Aroclor-1254					67.939	79.233

JS 6/4/98

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

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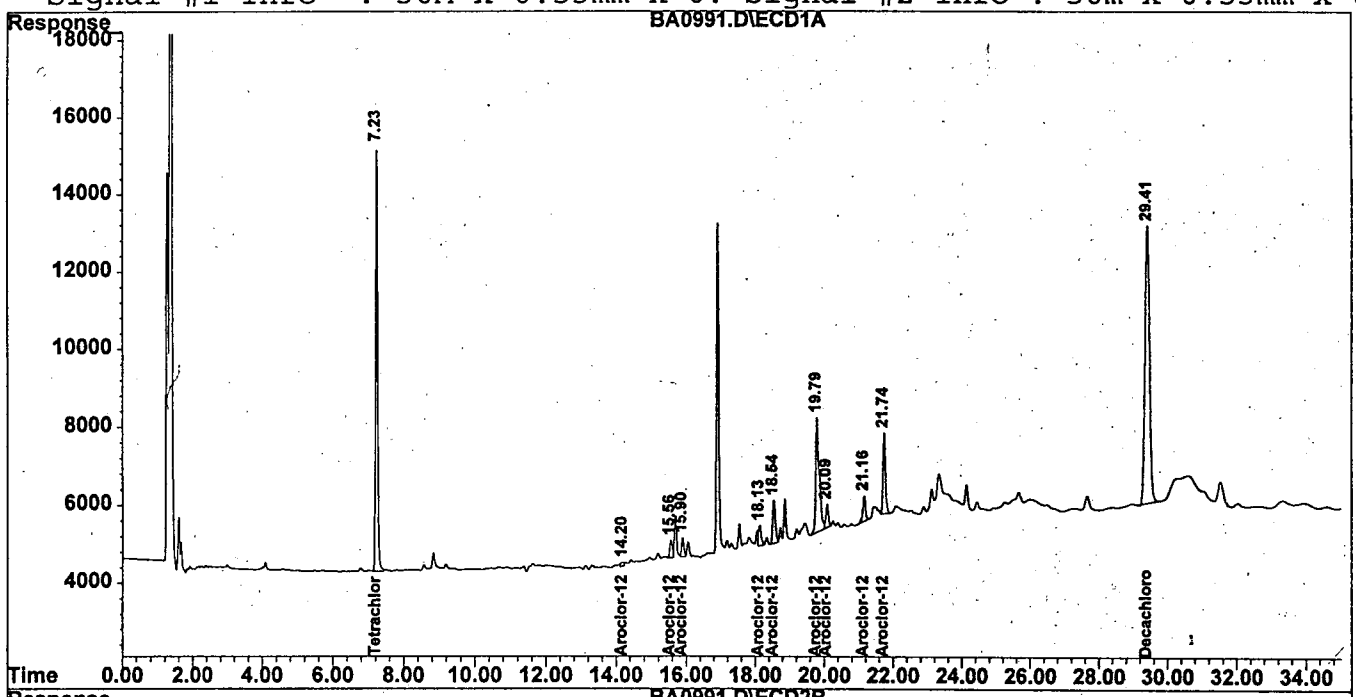
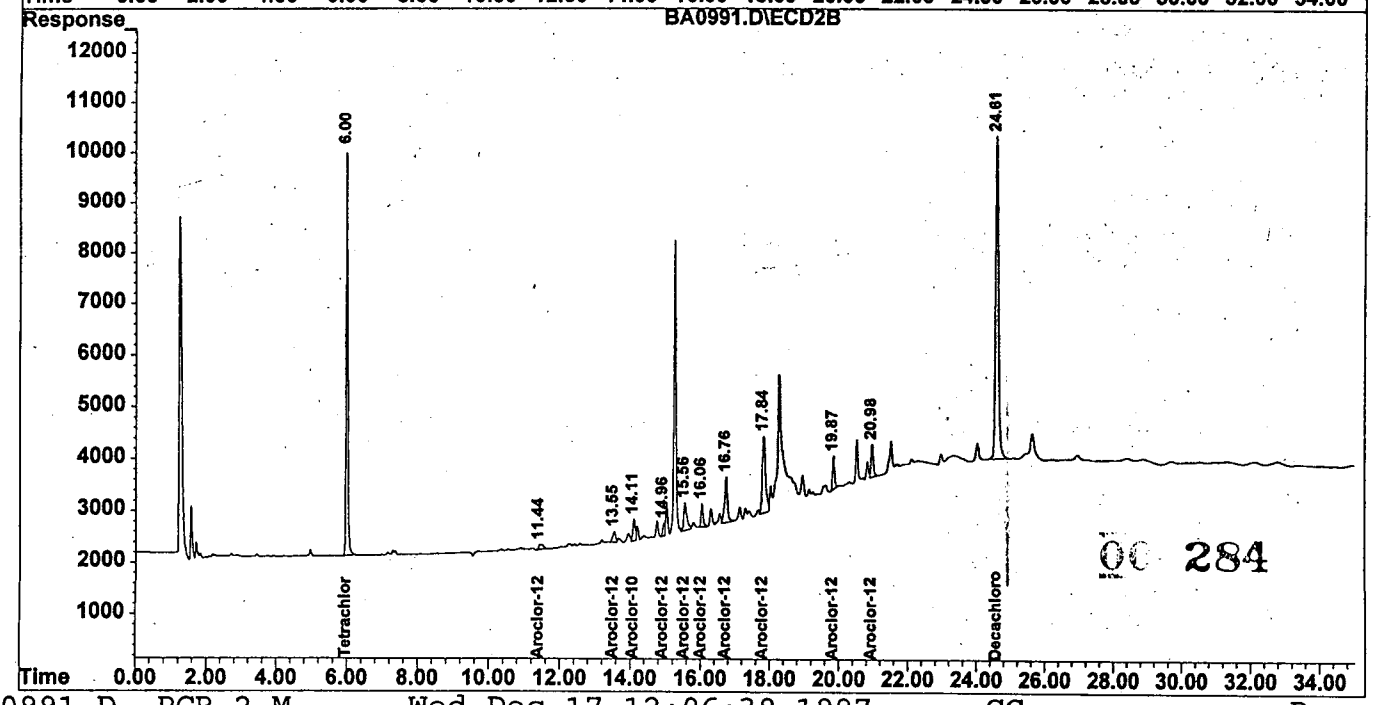
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0991.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA_B\BA0991.D\ECD2B.CH
Acq On : 17 Dec 97 7:59 Operator:
Sample : 278412 Inst : GC_5890_2
Misc : QPC74067 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 11:53 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





00 284

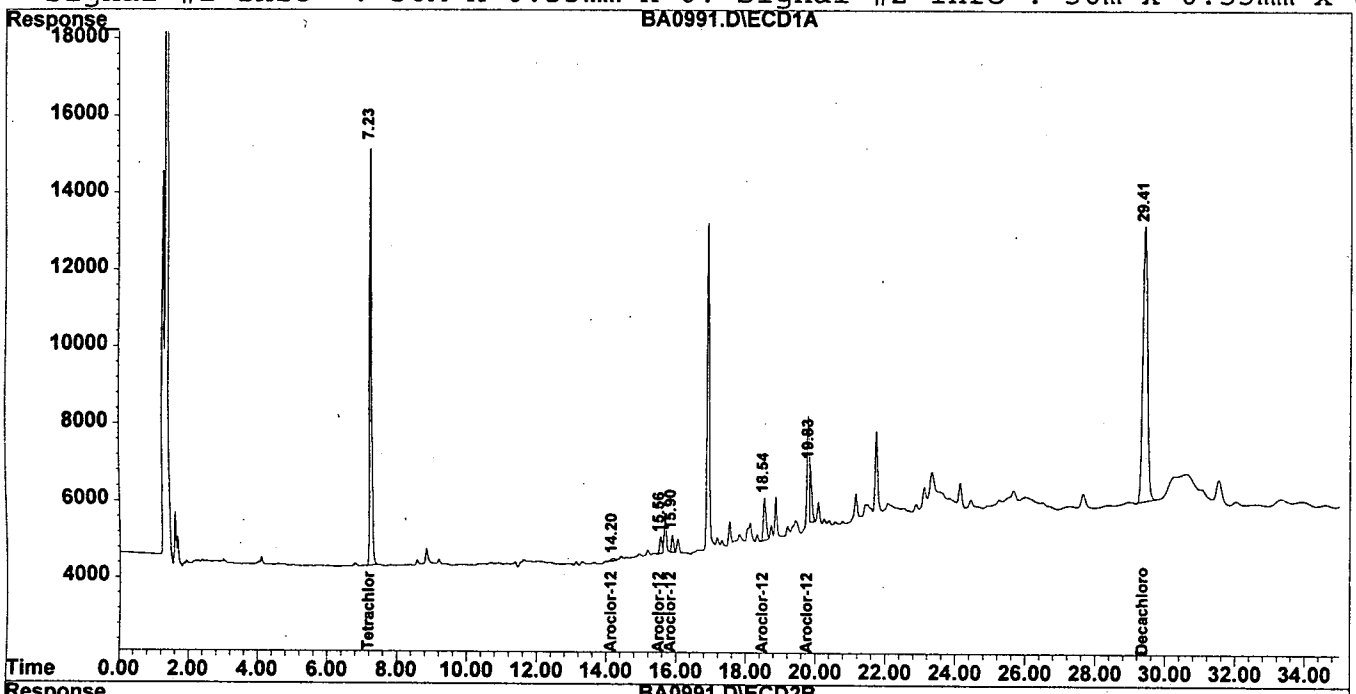
Quantitation Report

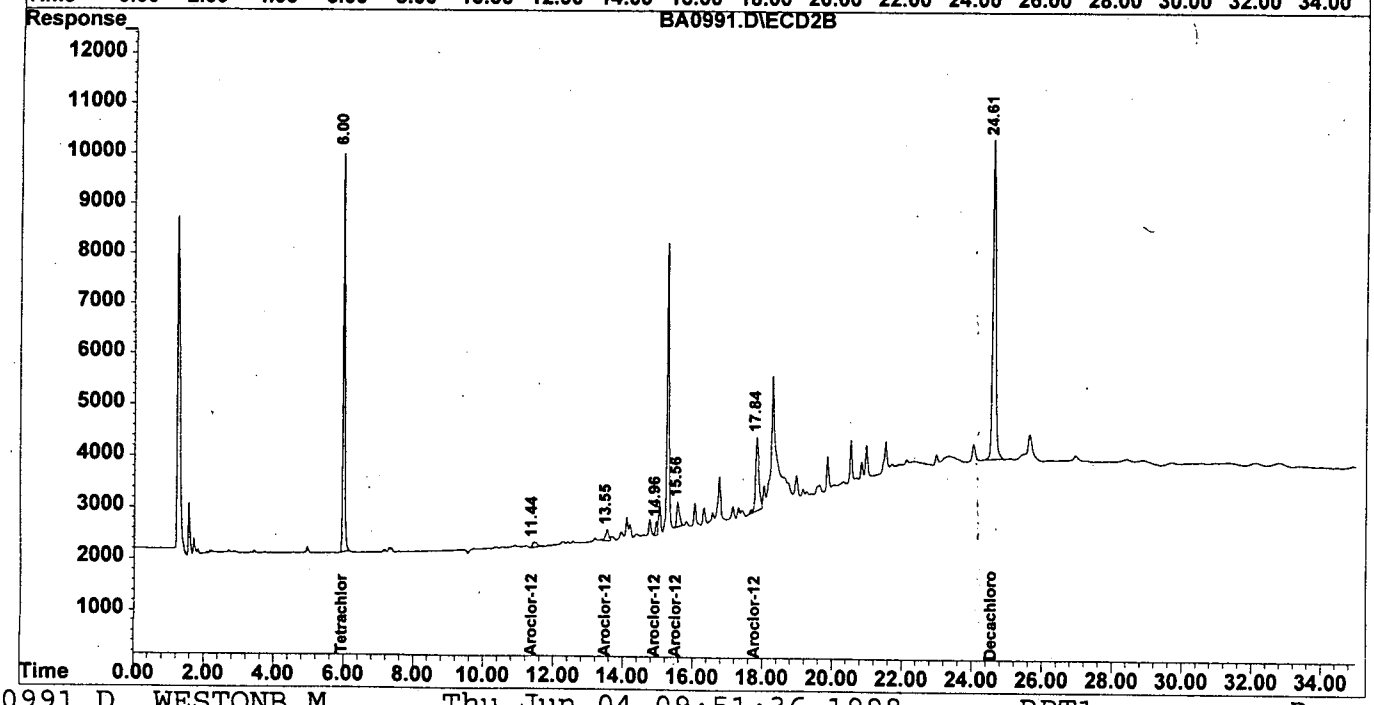
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0991.D\ECD1A.CH Vial: 30
Signal #2 : E:\WESTDA~1\BA0991.D\ECD2B.CH
Acq On : 17 Dec 97 7:59 Operator:
Sample : 278412 Inst : GC_5890_2
Misc : ~~QPC7406~~ QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 9:51 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





284A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278426
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSNS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/17/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	25.91%

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	45	22
Aroclor-1221	U	U	90	63
Aroclor-1232	U	U	45	36
Aroclor-1242	U	U	45	22
Aroclor-1248	U	U	45	27
Aroclor-1254	180	U	45	31
Aroclor-1260	U J	U	45	36

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0992.D\ECD1A.CH Vial: 31
Signal #2 : C:\HPCHEM\1\DATA_B\BA0992.D\ECD2B.CH
Acq On : 17 Dec 97 8:38 Operator:
Sample : 278426 Inst : GC_5890_2
Misc : QPC74067 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 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	7.23	6.01	410823	253264	45.349m	39.102	
Spiked Amount 40.000 Range 43 - 150 Recovery =					113.37%	97.76%	
2) SA Decachlorobiphen	29.41	24.61	616712	349408	40.981	39.181	
Spiked Amount 40.000 Range 24 - 154 Recovery =					102.45%	97.95%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.18	0.00	38489	0	180.816	N.D.	#
4) L1 Aroclor-1016{2}	0.00	10.33	0	7093	N.D.	12.530	#
6) L1 Aroclor-1016{4}	0.00	12.26	0	14658	N.D.	57.136	#
7) L1 Aroclor-1016{5}	13.30	14.11	21656	86740	66.320	588.146	#
Sum Aroclor-1016			60144	108491	247.136	657.812	
Average Aroclor-1016					123.568	219.271	
					NP	NP	
10) L2 Aroclor-1221{3}	9.18	0.00	38489	0	127.150	N.D.	#
Sum Aroclor-1221			38489	0	127.150	N.D.	
Average Aroclor-1221					127.150	0.000	
					NP		
12) L3 Aroclor-1232{2}	9.18	0.00	38489	0	188.335	N.D.	#
13) L3 Aroclor-1232{3}	0.00	11.44	0	40637	N.D.	487.833	#
14) L3 Aroclor-1232{4}	0.00	13.20	0	41564	N.D.	734.677	#
Sum Aroclor-1232			38489	82201	188.335	1222.509	
Average Aroclor-1232					188.335	611.255	
					NP	NP	
15) L4 Aroclor-1242{1}	9.18	0.00	38489	0	209.960	N.D.	#
18) L4 Aroclor-1242{4}	0.00	12.26	0	14658	N.D.	63.340	#
19) L4 Aroclor-1242{5}	14.18	0.00	44325	0	121.977	N.D.	#
Sum Aroclor-1242			82814	14658	331.937	63.340	
Average Aroclor-1242					165.969	63.340	
					NP	NP	
20) L5 Aroclor-1248{1}	0.00	10.33	0	7093	N.D.	17.030	#
21) L5 Aroclor-1248{2}	0.00	12.26	0	14658	N.D.	43.253	#
22) L5 Aroclor-1248{3}	13.30	12.56	21656	6788	52.394	21.443	#
23) L5 Aroclor-1248{4}	14.18	13.55	44325	90969	89.305	338.075	#
24) L5 Aroclor-1248{5}	0.00	15.57	0	199095	N.D.	1580.717	#
Sum Aroclor-1248			65981	318602	141.699	2000.519	
Average Aroclor-1248					70.850	400.104	
					NP	NP	

GC 286

JPR 12/17/97

(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\BA0992.D\ECD1A.CH Vial: 31
Signal #2 : C:\HPCHEM\1\DATA_B\BA0992.D\ECD2B.CH
Acq On : 17 Dec 97 8:38 Operator:
Sample : 278426 Inst : GC_5890_2
Misc : QPC74067 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 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	
25) L6	Aroclor-1254{1}	14.18	11.44	44325	40637	326.560	184.322	#
26) L6	Aroclor-1254{2}	15.57	13.55	144043	90969	390.699	217.227	#
27) L6	Aroclor-1254{3}	15.90	14.96	129134	87896	280.212	587.975	#
28) L6	Aroclor-1254{4}	18.54	15.57	285419	199095	704.229	409.719	#
29) L6	Aroclor-1254{5}	19.87	17.86	456689	326469	529.185	718.402	#
Sum	Aroclor-1254			1059610	745065	2230.885	2117.644	
Average	Aroclor-1254					446.177	423.529	
30) L7	Aroclor-1260{1}	18.13	16.06	146817	112640	282.100	330.490	
31) L7	Aroclor-1260{2}	18.54	16.76	285419	142736	463.683	351.095	
32) L7	Aroclor-1260{3}	20.09	17.86	45516	326469	99.754	633.009	#
33) L7	Aroclor-1260{4}	21.17	19.87	121885	70924	261.588	113.270	#
34) L7	Aroclor-1260{5}	21.75	20.98	205875	64435	159.701	136.415	
Sum	Aroclor-1260			805511	717203	1266.826	1564.278	
Average	Aroclor-1260					253.365	312.856	

NO NO

QC 287

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0992.D\ECD1A.CH Vial: 31
Signal #2 : E:\WESTDA~1\BA0992.D\ECD2B.CH
Acq On : 17 Dec 97 8:38 Operator:
Sample : 278426 Inst : GC_5890_2
Misc : ~~QPC7406~~ QPC7407 TM 6/9/98 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:09 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	7.23	6.01	397042	247041	42.680	40.882
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.70%	102.21%
2) SA Decachlorobiphen	29.41	24.61	616610	348852	40.830	41.992
Spiked Amount 40.000 Range 24 - 154 Recovery =					102.08%	104.98%
Target Compounds						
3) L6 Aroclor-1254{1}	14.14	11.44	27142	39683	200.032m	178.605
4) L6 Aroclor-1254{2}	15.57	13.55	133847	80204	348.939	191.367 #
5) L6 Aroclor-1254{3}	15.90	14.96	117517	87606	223.261	584.312 #
6) L6 Aroclor-1254{4}	18.54	15.57	285109	189326	664.930	380.677 #
7) L6 Aroclor-1254{5}	19.87	17.86	456687	307089	525.874	640.879
Sum Aroclor-1254			1020301	703909	1963.036	1975.840
Average Aroclor-1254					392.607	395.168

Ms Cuyo

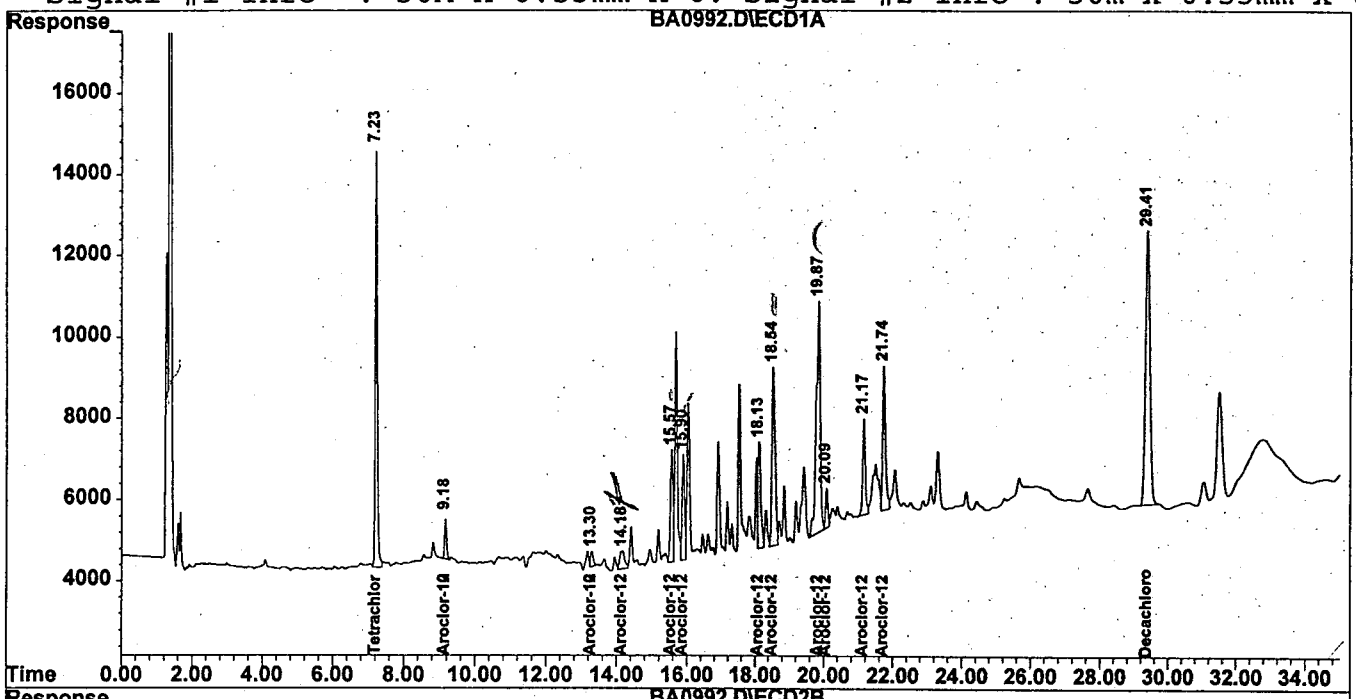
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

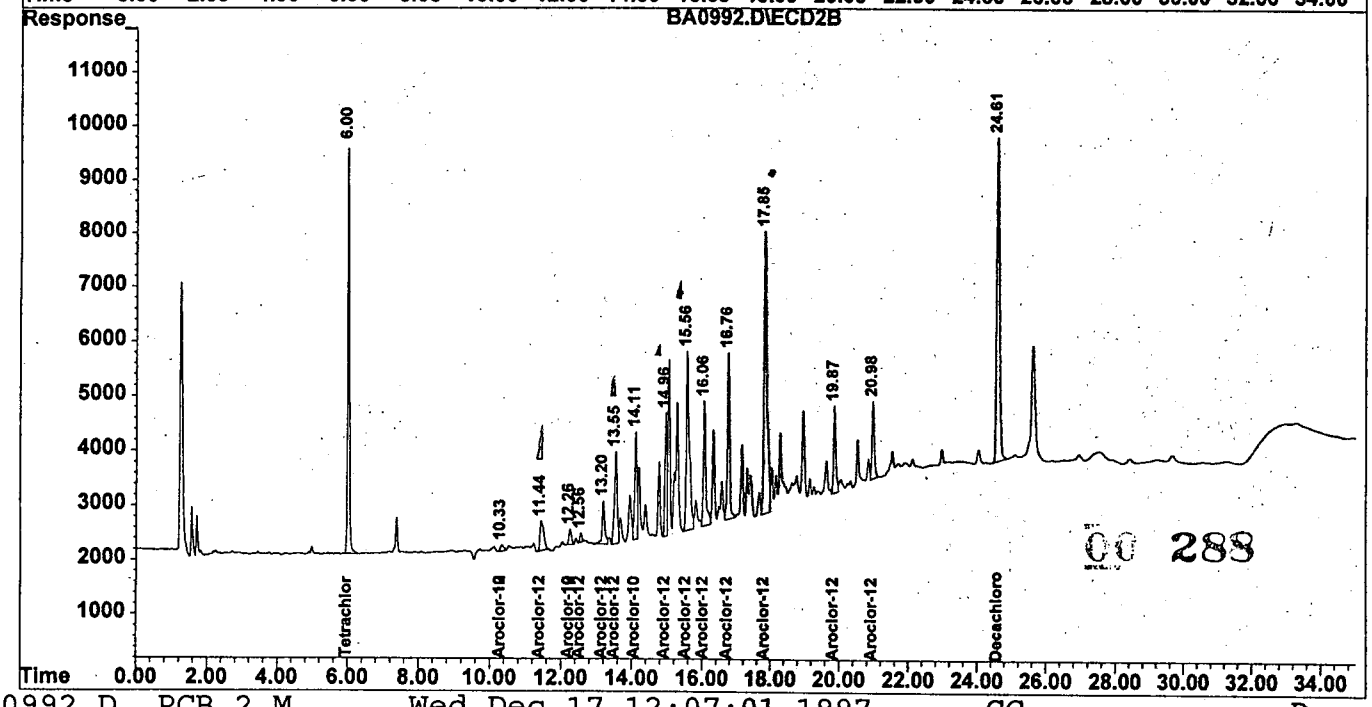
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0992.D\ECD1A.CH Vial: 31
Signal #2 : C:\HPCHEM\1\DATA_B\BA0992.D\ECD2B.CH
Acq On : 17 Dec 97 8:38 Operator:
Sample : 278426 Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 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





00 288

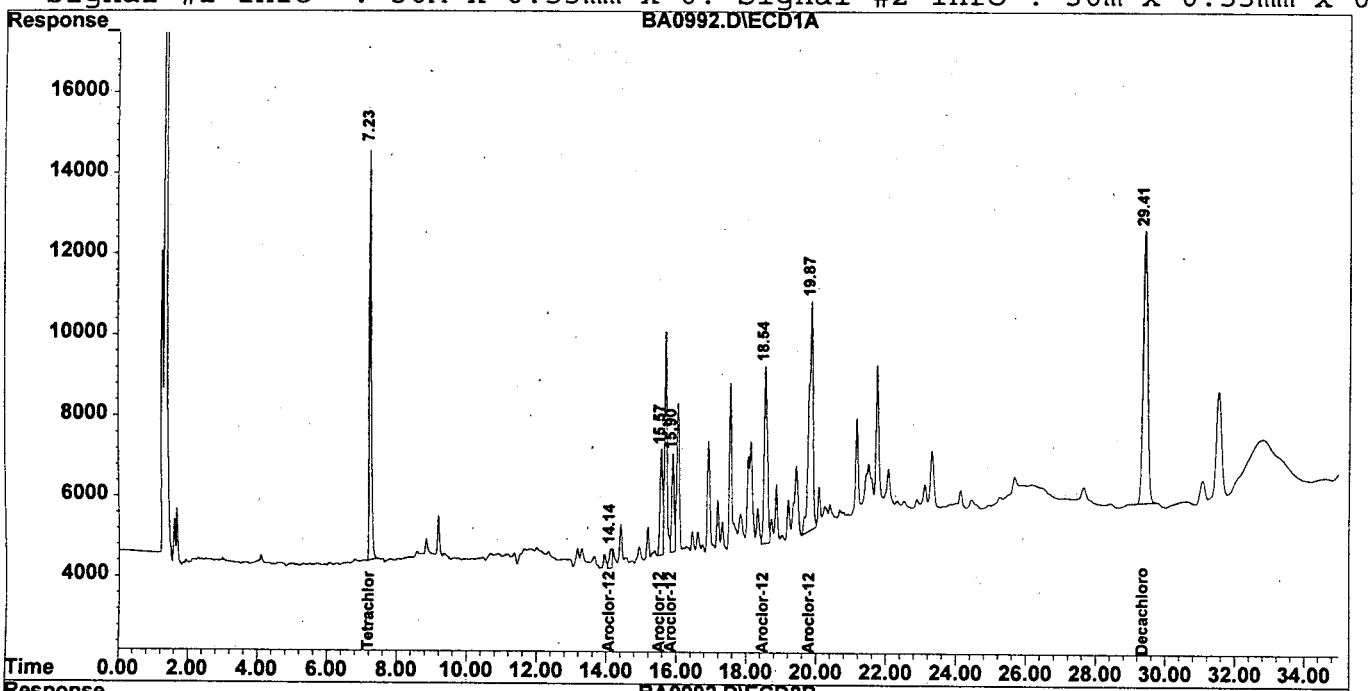
Quantitation Report

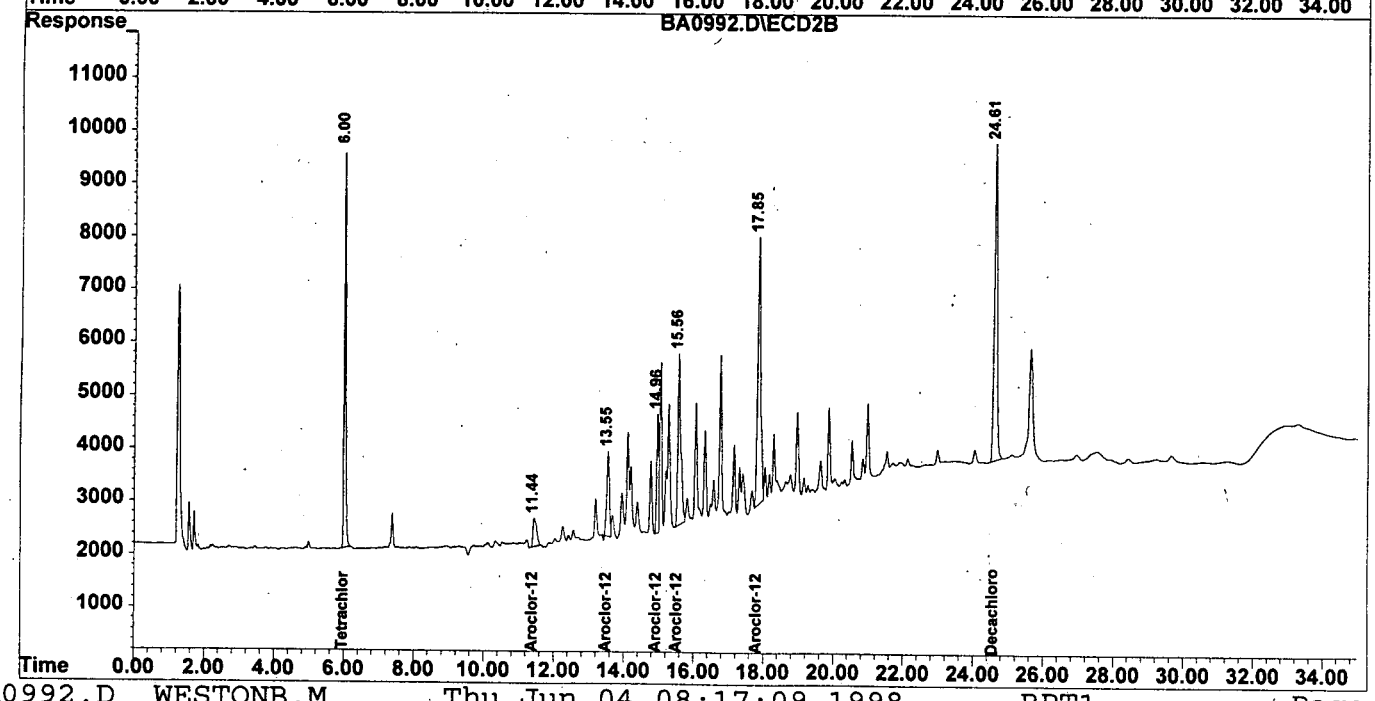
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0992.D\ECD1A.CH Vial: 31
Signal #2 : E:\WESTDA~1\BA0992.D\ECD2B.CH
Acq On : 17 Dec 97 8:38 Operator:
Sample : 278426 Inst : GC_5890_2
Misc : ~~QPC7406~~ QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:09 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 19, 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: 278427
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSND2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/17/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	15.79%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	UJ	U	40	20
Aroclor-1221	U	U	79	55
Aroclor-1232	U	U	40	32
Aroclor-1242	U	U	40	20
Aroclor-1248	U	U	40	24
Aroclor-1254	34J	U	40	28
Aroclor-1260	UJ	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.
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NEE

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA0993.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA_B\BA0993.D\ECD2B.CH
Acq On : 17 Dec 97 9:17 Operator:
Sample : 278427 Inst : GC_5890_2
Misc : QPC74067 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 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	7.23	6.01	453160	277600	50.023m	42.859	
Spiked Amount 40.000 Range 43 - 150 Recovery =					125.06%	107.15%	
2) SA Decachlorobiphen	29.41	24.62	690417	397692	45.879	44.595	
Spiked Amount 40.000 Range 24 - 154 Recovery =					114.70%	111.49%	
Target Compounds							
7) L1 Aroclor-1016{5}	0.00	14.11	0	20283	N.D.	137.533	#
Sum Aroclor-1016			0	20283	N.D.	137.533	
Average Aroclor-1016					0.000	137.533	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
13) L3 Aroclor-1232{3}	0.00	11.44	0	6788	N.D.	81.488	#
Sum Aroclor-1232			0	6788	N.D.	81.488	
Average Aroclor-1232					0.000	81.488	
Sum Aroclor-1242			0	0	N.D.	N.D.	
Average Aroclor-1242					0.000	0.000	
23) L5 Aroclor-1248{4}	0.00	13.55	0	17518	N.D.	65.102	#
24) L5 Aroclor-1248{5}	0.00	15.57	0	40513	N.D.	321.657	#
Sum Aroclor-1248			0	58031	N.D.	386.759	
Average Aroclor-1248					0.000	193.379	
25) L6 Aroclor-1254{1}	14.19	11.44	4844	6788	35.688m	30.789	
26) L6 Aroclor-1254{2}	15.59	13.55	15176	17518	41.163	41.831	
27) L6 Aroclor-1254{3}	15.90	14.96	22120	12461	47.999	83.355	#
28) L6 Aroclor-1254{4}	18.54	15.57	81203	40513	200.357	83.373	#
29) L6 Aroclor-1254{5}	19.87	17.86	91551	97192	106.084	213.872	#
Sum Aroclor-1254			214894	174471	431.290	453.220	
Average Aroclor-1254					86.258	90.644	
30) L7 Aroclor-1260{1}	18.14	16.06	61172	36024	117.538	105.697	
31) L7 Aroclor-1260{2}	18.54	16.76	81203	67044	131.920	164.911	#

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(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\BA0993.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA_B\BA0993.D\ECD2B.CH
Acq On : 17 Dec 97 9:17 Operator:
Sample : 278427 Inst : GC_5890_2
Misc : QPC74067 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 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	
32) L7	Aroclor-1260{3}	20.09	17.86	43159	97192	94.587	188.450	#
33) L7	Aroclor-1260{4}	21.17	19.87	47552	39506	102.055	63.093	#
34) L7	Aroclor-1260{5}	21.75	20.98	94284	42489	73.138	89.954	
Sum	Aroclor-1260			327370	282255	519.239	612.106	
Average	Aroclor-1260					103.848	122.421	

NP NP

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0993.D\ECD1A.CH Vial: 32
Signal #2 : E:\WESTDA~1\BA0993.D\ECD2B.CH
Acq On : 17 Dec 97 9:17 Operator:
Sample : 278427 Inst : GC_5890_2
Misc : ~~QPC7406~~ 70 Sch 08 QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 9:54 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	7.23	6.01	448516	273886	48.213	45.325
Spiked Amount 40.000 Range 43 - 150 Recovery =					120.53%	113.31%
2) SA Decachlorobiphen	29.41	24.62	690417	389536	45.717	46.889
Spiked Amount 40.000 Range 24 - 154 Recovery =					114.29%	117.22%
Target Compounds						
3) L6 Aroclor-1254{1}	14.19	11.44	5922	8026	43.644m	36.123m
4) L6 Aroclor-1254{2}	15.58	13.54	19320	17416	50.367m	41.555m
5) L6 Aroclor-1254{3}	15.90	14.96	21826	15032	41.466	100.260m#
6) L6 Aroclor-1254{4}	18.54	15.57	80946	34725	188.783	69.822 #
7) L6 Aroclor-1254{5}	19.87	17.86	91440	87813	105.293	183.262 #
Sum Aroclor-1254			219454	163013	429.553	431.021
Average Aroclor-1254					85.911	86.204

[signature] 6/4/98

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

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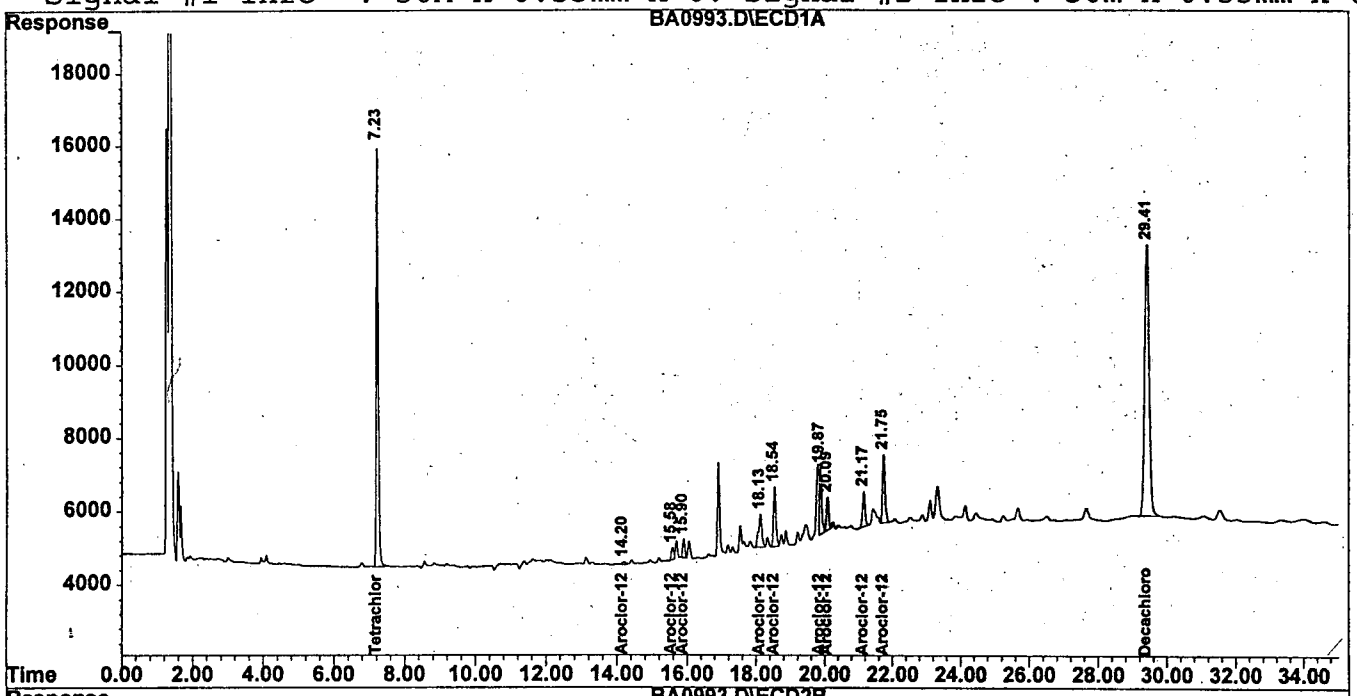
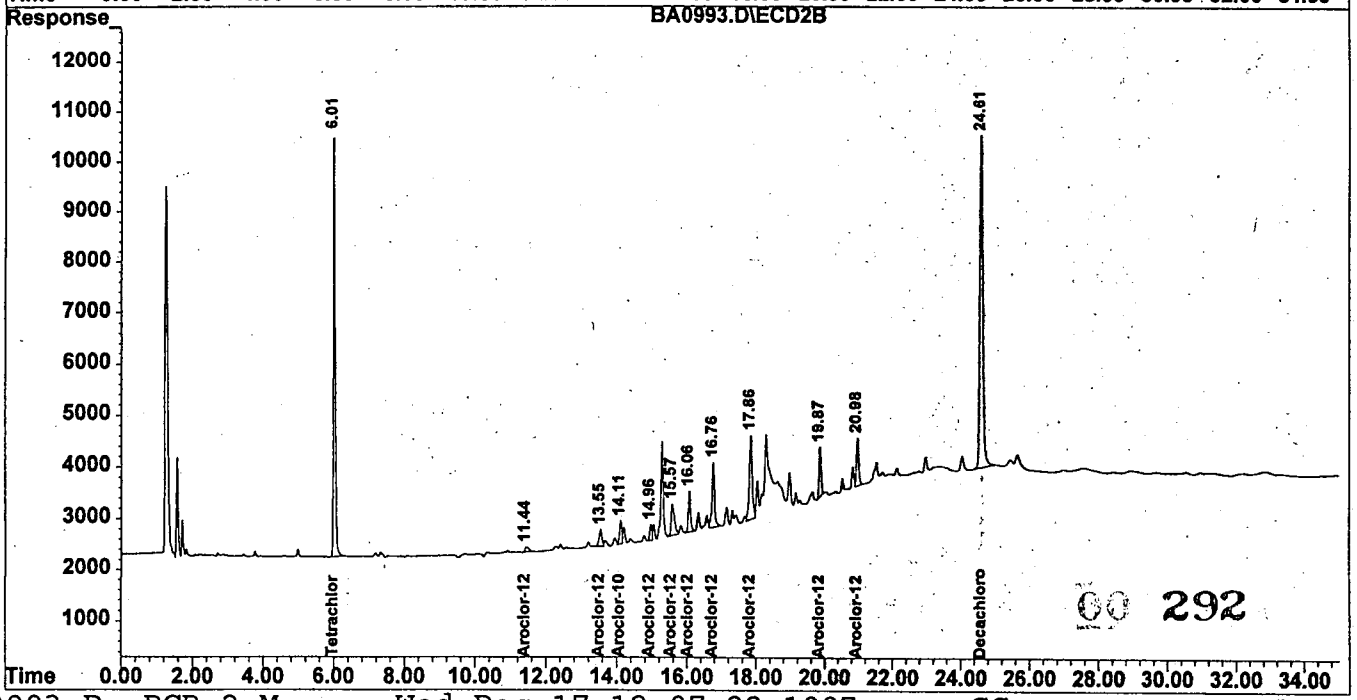
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0993.D\ECD1A.CH Vial: 32
Signal #2 : C:\HPCHEM\1\DATA_B\BA0993.D\ECD2B.CH
Acq On : 17 Dec 97 9:17 Operator:
Sample : 278427 Inst : GC_5890_2
Misc : QPC74097 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 17 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





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Quantitation Report

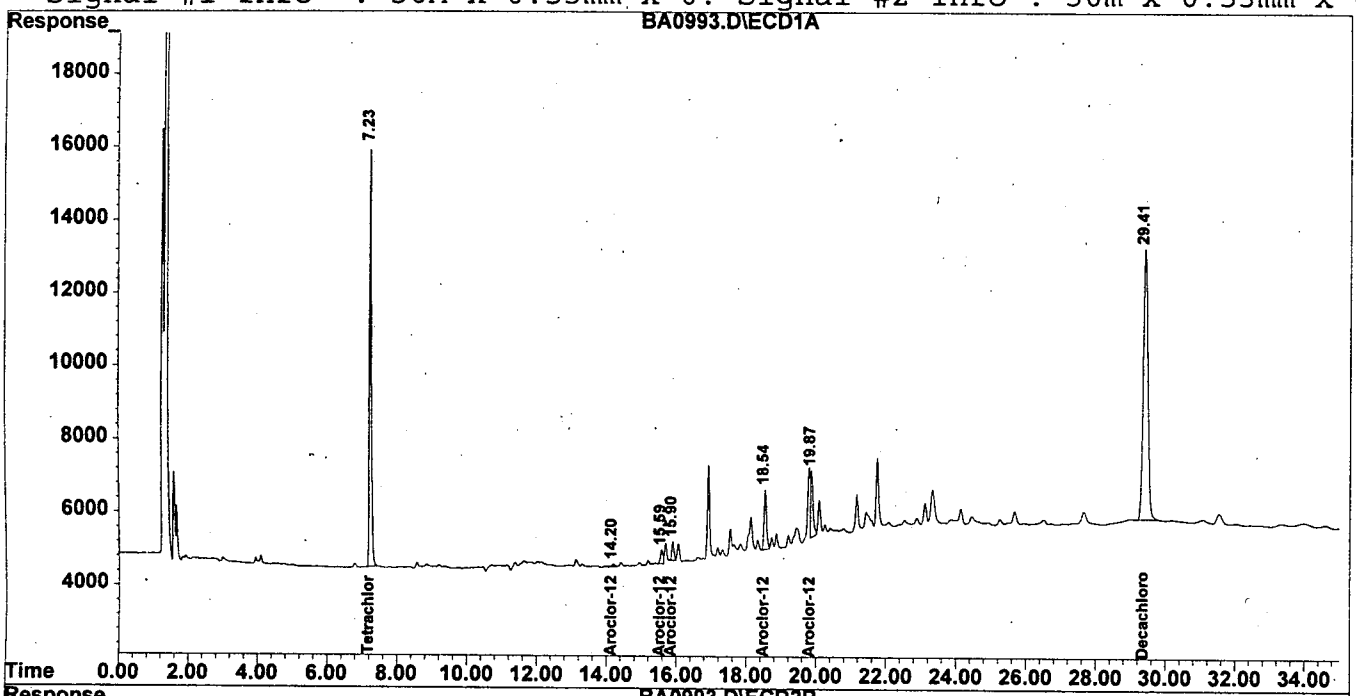
AMENDED REPORT JUN 0 5 1998

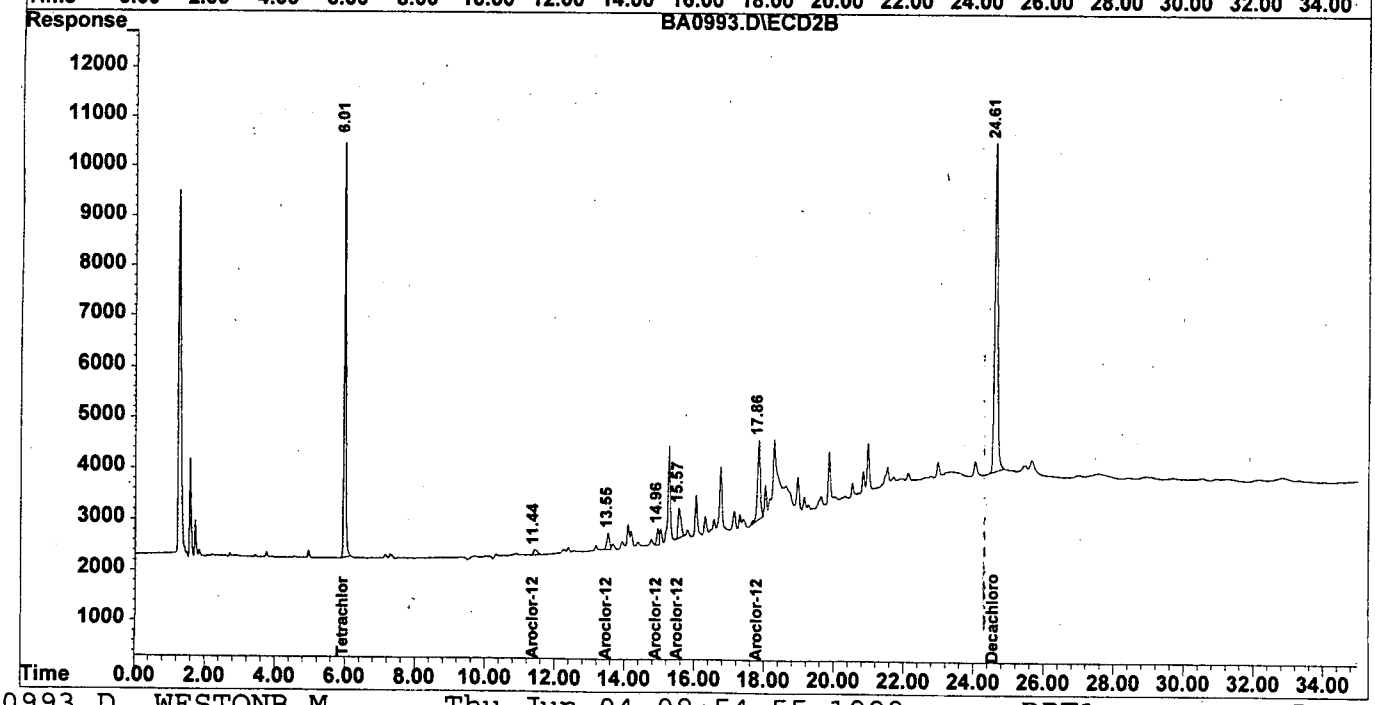
Signal #1 : E:\WESTDA~1\BA0993.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0993.D\ECD2B.CH
Acq On : 17 Dec 97 9:17
Sample : 278427
Misc : ~~QPC7406~~ QPC7407 TP 6/4/98
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 9:54 1998 Quant Results File: WESTONB.RES

Vial: 32
Operator:
Inst : GC_5890_2
Multiplr: 1.00

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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 19, 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: 278428
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSSS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/17/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	32.32%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	UJ	U	49	25
Aroclor-1221	U	U	98	69
Aroclor-1232	U	U	49	39
Aroclor-1242	U	U	49	25
Aroclor-1248	U	U	49	30
Aroclor-1254	1400	U	49	34
Aroclor-1260	UJ	U	49	39

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.
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NEE

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1009.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_B\BA1009.D\ECD2B.CH
Acq On : 17 Dec 97 20:25 Operator:
Sample : 278428 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:06 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	7.17	5.95	425054	272677	46.920	42.099	
Spiked Amount 40.000 Range 43 - 150 Recovery =					117.30%	105.25%	
2) SA Decachlorobiphen	29.17	24.46	694016	396592	46.118	44.471	
Spiked Amount 40.000 Range 24 - 154 Recovery =					115.30%	111.18%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.11	8.85	85285	21058	400.658	72.360	#
4) L1 Aroclor-1016{2}	10.63	10.26	29382	76195	62.319	134.600	#
5) L1 Aroclor-1016{3}	11.94	10.67	74826	41180	90.970	153.691	#
6) L1 Aroclor-1016{4}	0.00	12.17	0	146341	N.D.	570.444	#
7) L1 Aroclor-1016{5}	13.22	14.02	275164	584945	842.692	3966.269	#
Sum Aroclor-1016			464657	869720	1396.639	4897.365	
Average Aroclor-1016					349.160	979.473	
					np	np	
10) L2 Aroclor-1221{3}	9.27	0.00	27685	0	91.458	N.D.	#
Sum Aroclor-1221			27685	0	91.458	N.D.	
Average Aroclor-1221					91.458	0.000	
					np		
12) L3 Aroclor-1232{2}	9.27	0.00	27685	0	135.467	N.D.	#
13) L3 Aroclor-1232{3}	10.63	11.40	29382	183314	135.372	2200.625	#
14) L3 Aroclor-1232{4}	11.94	0.00	74826	0	213.159	N.D.	#
Sum Aroclor-1232			131893	183314	483.999	2200.625	
Average Aroclor-1232					161.333	2200.625	
					np	np	
15) L4 Aroclor-1242{1}	9.27	0.00	27685	0	151.022	N.D.	#
16) L4 Aroclor-1242{2}	10.63	0.00	29382	0	80.130	N.D.	#
17) L4 Aroclor-1242{3}	11.37	11.15	36355	11363	327.918	70.445	#
18) L4 Aroclor-1242{4}	12.86	0.00	23755	0	137.904	N.D.	#
19) L4 Aroclor-1242{5}	14.11	14.31	156773	235903	431.417	2639.469	#
Sum Aroclor-1242			273949	247266	1128.391	2709.915	
Average Aroclor-1242					225.678	1354.957	
					np	np	
22) L5 Aroclor-1248{3}	0.00	12.59	0	57857	N.D.	182.778	#
23) L5 Aroclor-1248{4}	0.00	13.46	0	714439	N.D.	2655.129	#
24) L5 Aroclor-1248{5}	16.19	0.00	145535	0	386.021	N.D.	#
					np	np	

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

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ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA1009.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_B\BA1009.D\ECD2B.CH
Acq On : 17 Dec 97 20:25 Operator:
Sample : 278428 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:06 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	
Sum	Aroclor-1248			145535	772296	386.021	2837.907	
Average	Aroclor-1248					386.021	1418.953	
						nb	nb	
25) L6	Aroclor-1254{1}	14.11	11.35	156773	181799	1155.001	824.607	#
26) L6	Aroclor-1254{2}	15.48	13.46	1328067	714439	3602.219	1706.024	#
27) L6	Aroclor-1254{3}	15.81	14.87	903633	657737	1960.820	4399.905	#
28) L6	Aroclor-1254{4}	18.45	15.47	1731646	1715516	4272.583	3530.379	
29) L6	Aroclor-1254{5}	19.77	17.76	3123949	1966578	3619.852	4327.496	
Sum	Aroclor-1254			7244067	5236069	14610.476	14788.411	
Average	Aroclor-1254					2922.095	2957.682	
31) L7	Aroclor-1260{2}	18.62	0.00	161322	0	262.079	N.D.	#
32) L7	Aroclor-1260{3}	20.17	0.00	358030	0	784.659	N.D.	#
Sum	Aroclor-1260			519352	0	1046.739	N.D.	
Average	Aroclor-1260					523.369	0.000	
						nb		

12/18/97 QC 295

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1009.D\ECD1A.CH Vial: 14
Signal #2 : E:\WESTDA~1\BA1009.D\ECD2B.CH
Acq On : 17 Dec 97 20:25 Operator:
Sample : 278428 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:25 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	7.17	5.95	420525	264939	45.205	43.844
Spiked Amount 40.000 Range 43 - 150 Recovery =					113.01%	109.61%
2) SA Decachlorobiphen	29.17	24.46	694016	393845	45.955	47.408
Spiked Amount 40.000 Range 24 - 154 Recovery =					114.89%	118.52%
Target Compounds						
3) L6 Aroclor-1254{1}	14.11	11.35	147176	174336	1084.662m	784.646 #
4) L6 Aroclor-1254{2}	15.48	13.46	1317431	712622	3434.551	1700.330 #
5) L6 Aroclor-1254{3}	15.81	14.87	891169	653401	1693.067	4358.017 #
6) L6 Aroclor-1254{4}	18.45	15.47	1724178	1705286	4021.125	3428.815
7) L6 Aroclor-1254{5}	19.77	17.76	3118124	1954655	3590.514	4079.256
Sum Aroclor-1254			7198078	5200300	~~13823.919~~	14351.064
Average Aroclor-1254					2764.784	2870.213

JAS 6/4/98

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

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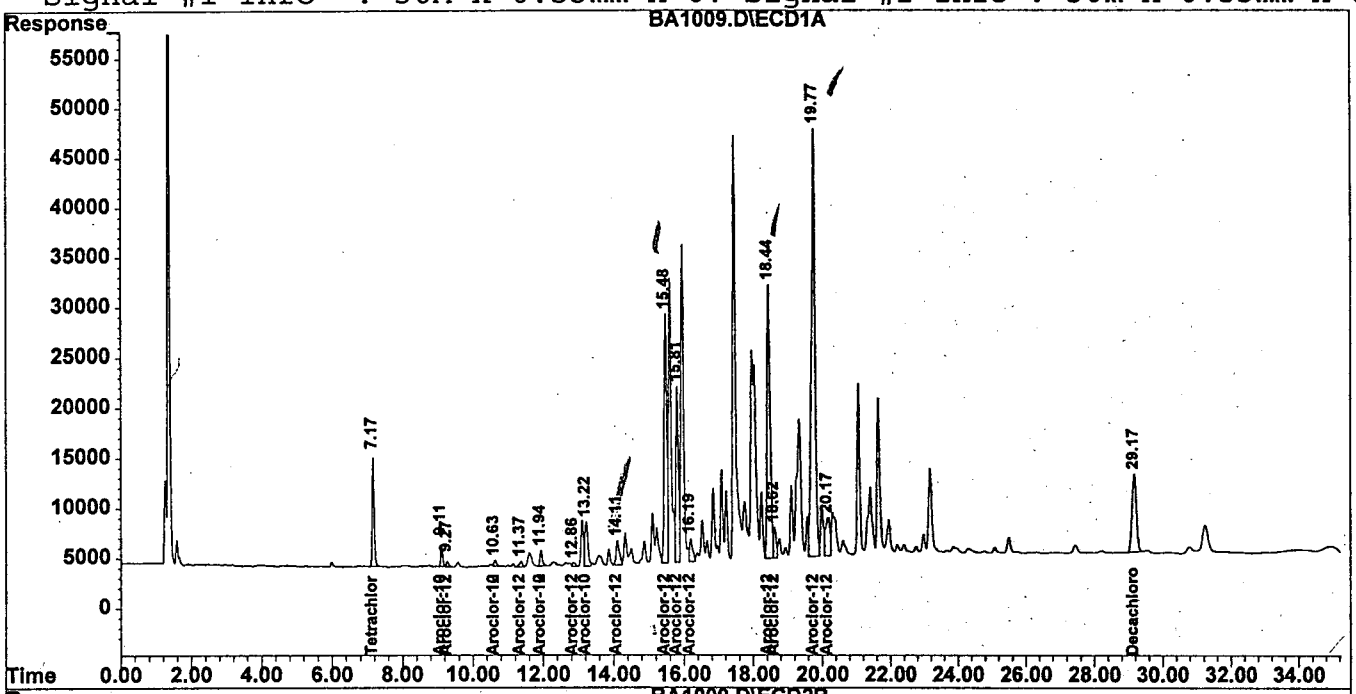
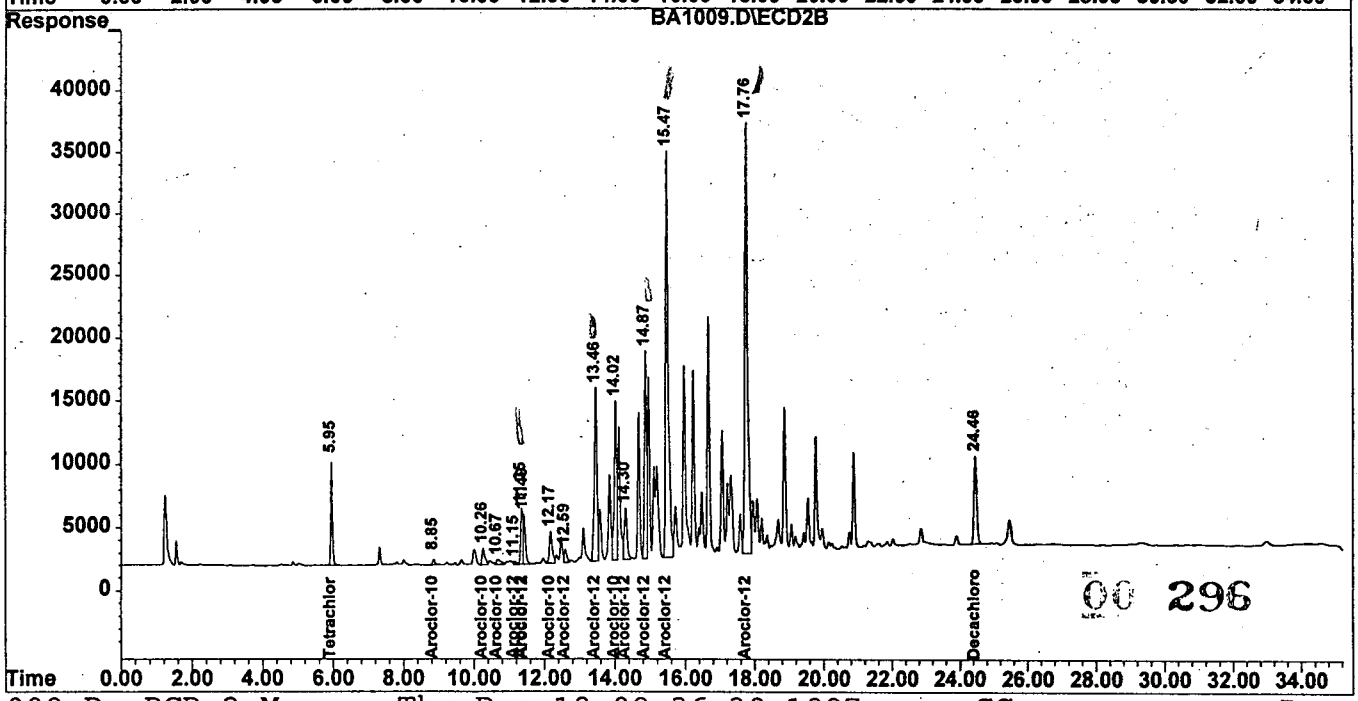
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1009.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_B\BA1009.D\ECD2B.CH
Acq On : 17 Dec 97 20:25 Operator:
Sample : 278428 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:06 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





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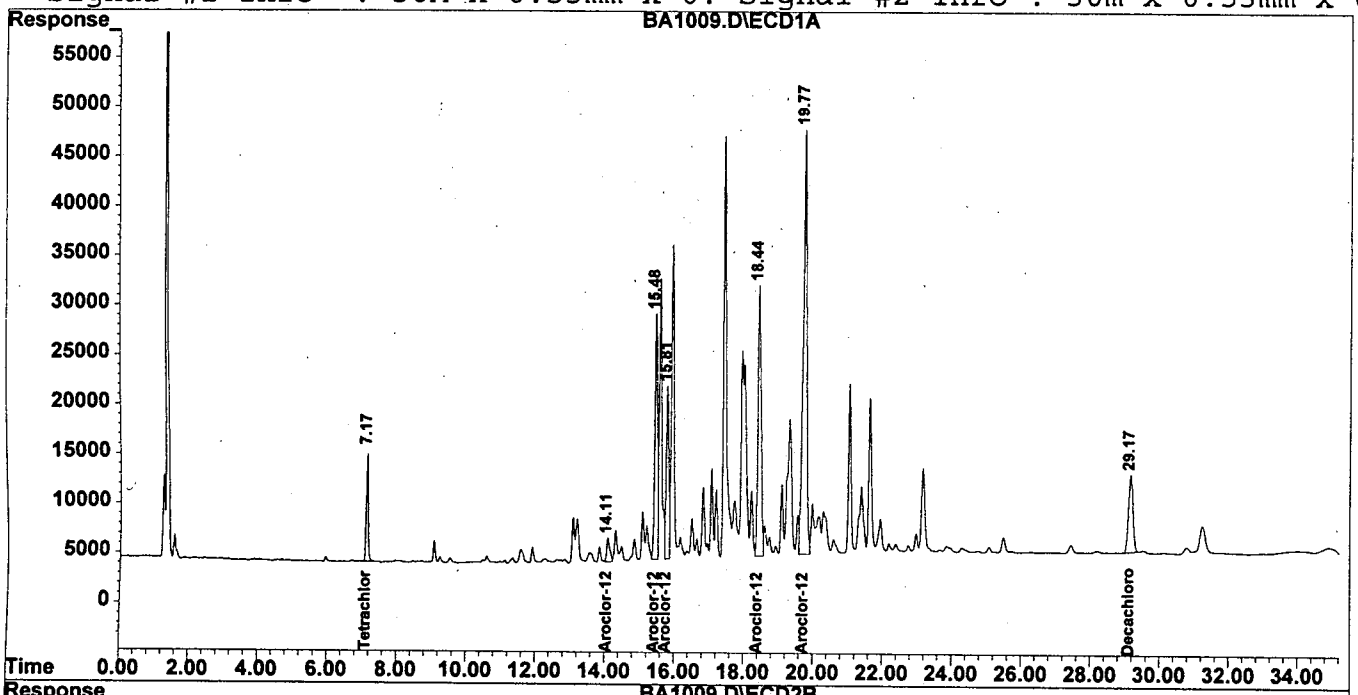
Quantitation Report

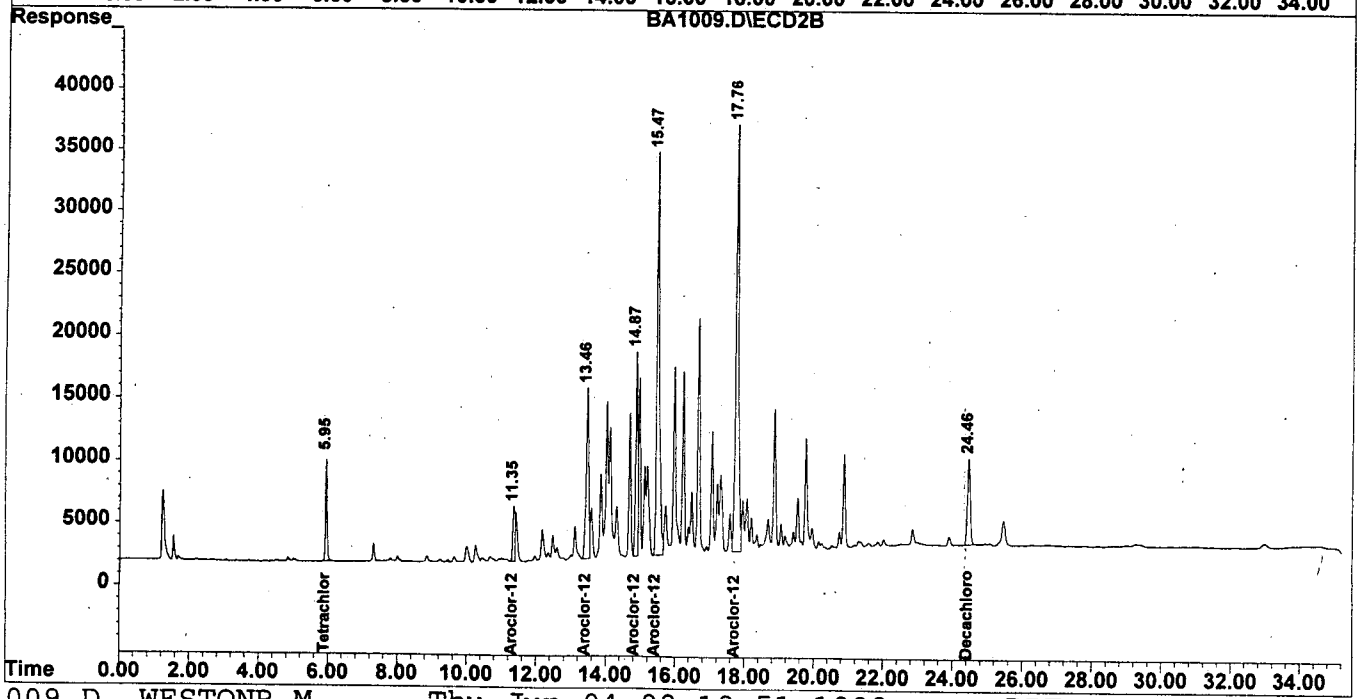
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1009.D\ECD1A.CH Vial: 14
Signal #2 : E:\WESTDA~1\BA1009.D\ECD2B.CH
Acq On : 17 Dec 97 20:25 Operator:
Sample : 278428 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:25 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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278429
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSSD1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	56.81%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	380	190
Aroclor-1221	U	U	770	540
Aroclor-1232	U	U	380	310
Aroclor-1242	U	U	380	190
Aroclor-1248	U	U	380	230
Aroclor-1254	5900 ~~5100~~	U	380	270
Aroclor-1260	U	U	380	310

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.

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Thomas Mancuso, Lab Mgr.
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ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1031.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_B\BA1031.D\ECD2B.CH
Acq On : 18 Dec 97 18:45 Operator:
Sample : 278429 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:21 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	7.22	5.95	72026	53104	7.951	8.199
Spiked Amount 40.000 Range 43 - 150 Recovery =					19.88%#	20.50%#
2) SA Decachlorobiphen	29.17	24.46	125373	82644	8.331	9.267
Spiked Amount 40.000 Range 24 - 154 Recovery =					20.83%#	23.17%#
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	8.85	0	24032	N.D.	82.580 #
4) L1 Aroclor-1016{2}	10.67	10.26	22297	39772	47.291	70.259 #
5) L1 Aroclor-1016{3}	11.97	10.67	48577	39250	59.058	146.488 #
6) L1 Aroclor-1016{4}	0.00	12.17	0	259524	N.D.	1011.635 #
7) L1 Aroclor-1016{5}	13.25	14.02	348266	358872	1066.568	2433.361 #
Sum Aroclor-1016			419140	721451	1172.916	3744.324
Average Aroclor-1016					390.972	748.865
					NP	NP
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
13) L3 Aroclor-1232{3}	10.67	0.00	22297	0	102.727	N.D. #
14) L3 Aroclor-1232{4}	11.97	13.21	48577	14523	138.383	256.709 #
Sum Aroclor-1232			70874	14523	241.110	256.709
Average Aroclor-1232					120.555	256.709
					NP	NP
16) L4 Aroclor-1242{2}	10.67	0.00	22297	0	60.806	N.D. #
17) L4 Aroclor-1242{3}	11.35	11.09	22455	24294	202.541	150.610 #
19) L4 Aroclor-1242{5}	14.14	14.30	329998	187795	908.111	2101.196 #
Sum Aroclor-1242			374750	212089	1171.459	2251.806
Average Aroclor-1242					390.486	1125.903
					NP	NP
20) L5 Aroclor-1248{1}	10.67	10.26	22297	39772	114.934	95.490
21) L5 Aroclor-1248{2}	11.97	12.17	48577	259524	86.826	765.828 #
22) L5 Aroclor-1248{3}	13.25	12.48	348266	95308	842.611	301.092 #
23) L5 Aroclor-1248{4}	14.14	13.46	329998	484452	664.868	1800.409 #
24) L5 Aroclor-1248{5}	16.14	15.47	41418	720539	109.858	5720.731 #
Sum Aroclor-1248			790556	1599595	1819.097	8683.550
Average Aroclor-1248					363.819	1736.710
					NP	NP

298

12/17/98

(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\BA1031.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_B\BA1031.D\ECD2B.CH
Acq On : 18 Dec 97 18:45 Operator:
Sample : 278429 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:21 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}	14.14	11.35	329998	515310	2431.217	2337.353	
26) L6	Aroclor-1254{2}	15.52	13.46	461793	484452	1252.557	1156.833	
27) L6	Aroclor-1254{3}	15.83	14.87	533162	208084	1156.925	1391.966	
28) L6	Aroclor-1254{4}	18.46	15.47	473113	720539	1167.337	1482.804	#
29) L6	Aroclor-1254{5}	19.78	17.76	955959	686995	1107.711	1511.748	#
Sum	Aroclor-1254			2754026	2615380	7115.747	7880.704	
Average	Aroclor-1254					1423.149	1576.141	
30) L7	Aroclor-1260{1}	18.05	15.97	439116	353541	843.736	1037.306	
31) L7	Aroclor-1260{2}	18.46	16.67	473113	325200	768.605	799.910	
32) L7	Aroclor-1260{3}	20.01	17.76	73053	686995	160.104	1332.054	#
33) L7	Aroclor-1260{4}	21.08	19.77	257873	130512	553.444	208.436	#
34) L7	Aroclor-1260{5}	21.66	20.88	192574	94471	149.384	200.005	#
Sum	Aroclor-1260			1435729	1590719	2475.273	3577.711	
Average	Aroclor-1260					495.055	715.542	

293

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1031.D\ECD1A.CH Vial: 4
Signal #2 : E:\WESTDA~1\BA1031.D\ECD2B.CH
Acq On : 18 Dec 97 18:45 Operator:
Sample : 278429 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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	7.22	5.95	71765	52494	7.714	8.687
Spiked Amount 40.000 Range 43 - 150 Recovery =					19.29%#	21.72%#
2) SA Decachlorobiphen	29.17	24.46	125373	82841	8.302	9.972
Spiked Amount 40.000 Range 24 - 154 Recovery =					20.76%#	24.93%
Target Compounds						
3) L6 Aroclor-1254{1}	14.14	11.35	303941	511683	2239.995	2302.972
4) L6 Aroclor-1254{2}	15.52	13.46	460229	481578	1199.819	1149.054
5) L6 Aroclor-1254{3}	15.83	14.87	531875	205768	1010.471	1372.417 #
6) L6 Aroclor-1254{4}	18.46	15.47	472372	717465	1101.665	1442.605 #
7) L6 Aroclor-1254{5}	19.78	17.76	955587	679151	1100.357	1417.351 #
Sum Aroclor-1254			2724004	2595645	6652.306	7684.399
Average Aroclor-1254					1330.461	1536.880

299A

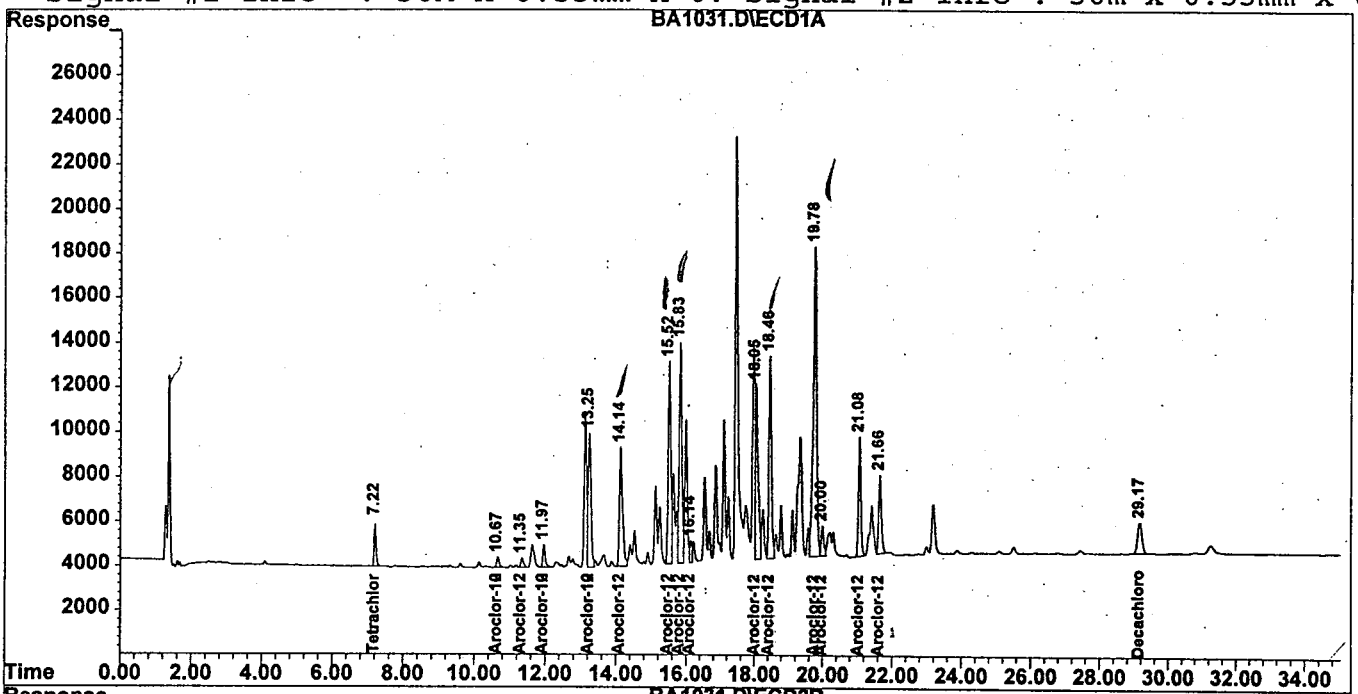
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

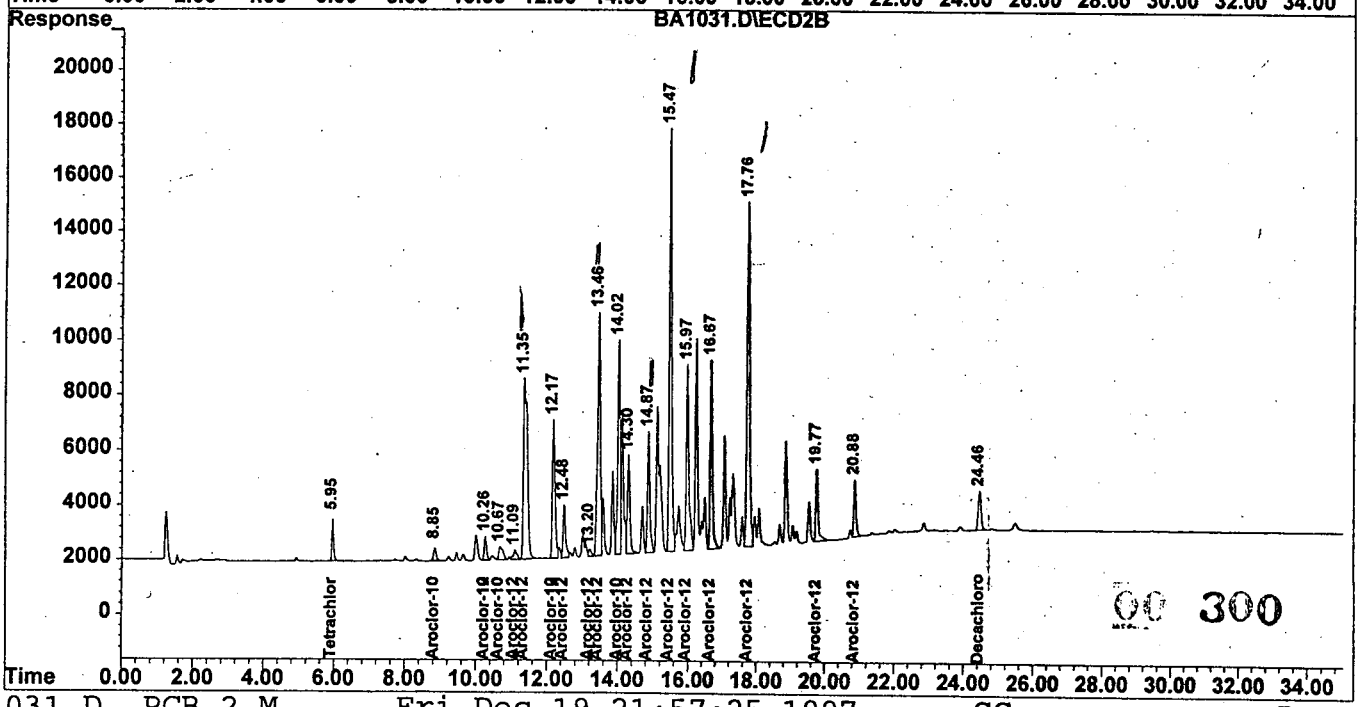
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1031.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_B\BA1031.D\ECD2B.CH
Acq On : 18 Dec 97 18:45 Operator:
Sample : 278429 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:21 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





00 300

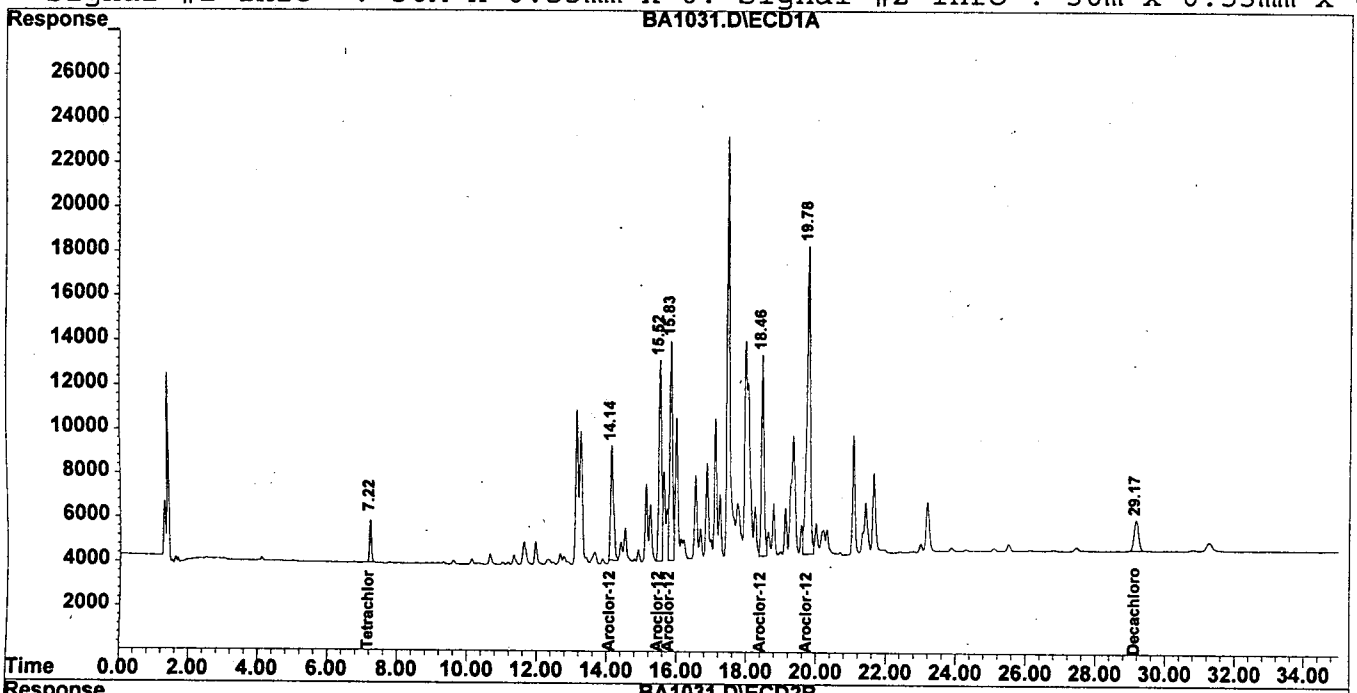
Quantitation Report

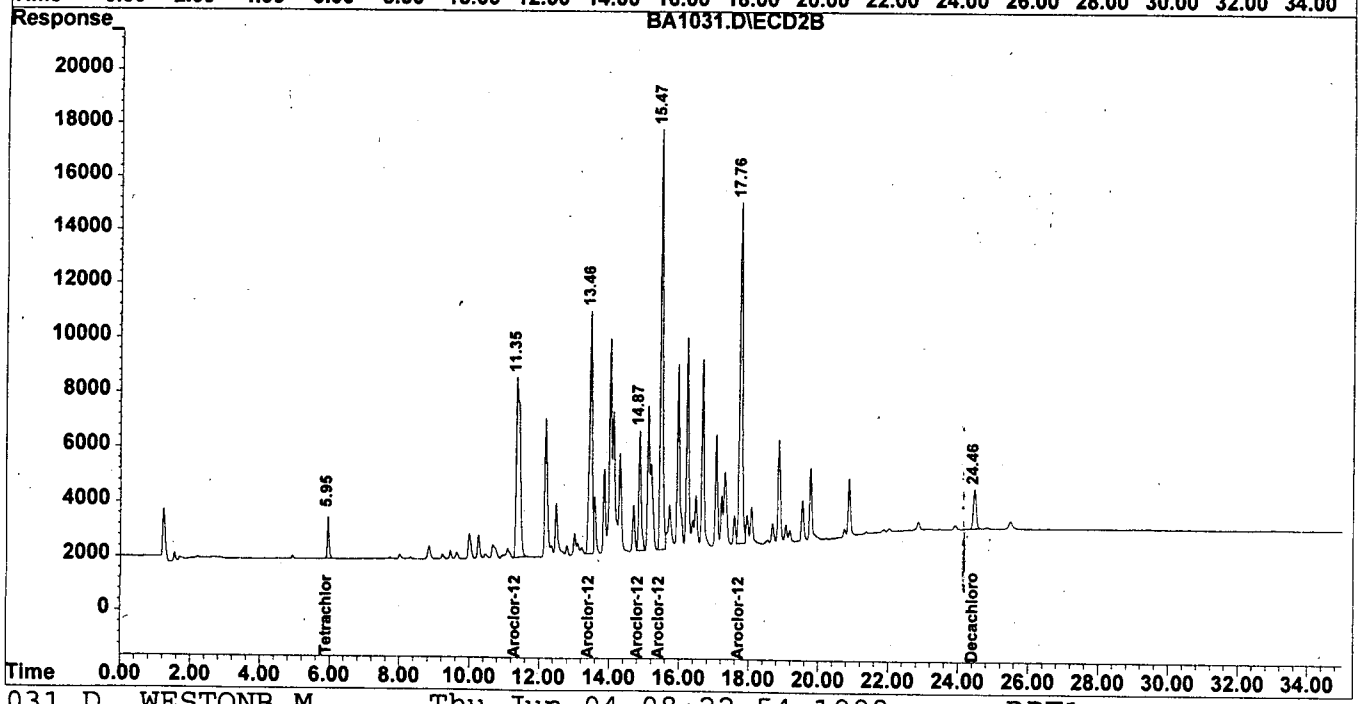
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1031.D\ECD1A.CH Vial: 4
Signal #2 : E:\WESTDA~1\BA1031.D\ECD2B.CH
Acq On : 18 Dec 97 18:45 Operator:
Sample : 278429 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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





300A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278430
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSSS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/17/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	31.97%

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	49	24
Aroclor-1221	U	U	98	68
Aroclor-1232	U	U	49	39
Aroclor-1242	U	U	49	24
Aroclor-1248	U	U	49	29
Aroclor-1254	~~1100~~ 1400	U	49	34
Aroclor-1260	U J	U	49	39

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.
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ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1011.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_B\BA1011.D\ECD2B.CH
Acq On : 17 Dec 97 21:43 Operator:
Sample : 278430 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:06 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	7.17	5.95	397744	255847	43.906	39.501	
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.77%	98.75%	
2) SA Decachlorobiphen	29.17	24.45	662562	388078	44.028	43.517	
Spiked Amount 40.000 Range 24 - 154 Recovery =					110.07%	108.79%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.11	8.85	152064	15445	714.376	53.071	#
4) L1 Aroclor-1016{2}	10.62	10.25	24460	56549	51.879	99.895	#
5) L1 Aroclor-1016{3}	11.94	10.67	47736	26242	58.035	97.939	#
6) L1 Aroclor-1016{4}	0.00	12.17	0	105896	N.D.	412.786	#
7) L1 Aroclor-1016{5}	13.22	14.02	200943	477114	615.389	3235.111	#
Sum Aroclor-1016			425203	681245	1439.679	3898.801	
Average Aroclor-1016					359.920	779.760	
10) L2 Aroclor-1221{3}	9.27	0.00	26050	0	86.059	N.D.	#
Sum Aroclor-1221			26050	0	86.059	N.D.	
Average Aroclor-1221					86.059	0.000	
12) L3 Aroclor-1232{2}	9.27	0.00	26050	0	127.470	N.D.	#
13) L3 Aroclor-1232{3}	10.62	11.40	24460	132050	112.694	1585.217	#
14) L3 Aroclor-1232{4}	11.94	0.00	47736	0	135.988	N.D.	#
Sum Aroclor-1232			98246	132050	376.151	1585.217	
Average Aroclor-1232					125.384	1585.217	
15) L4 Aroclor-1242{1}	9.27	0.00	26050	0	142.106	N.D.	#
16) L4 Aroclor-1242{2}	10.62	0.00	24460	0	66.706	N.D.	#
17) L4 Aroclor-1242{3}	11.37	11.15	26563	12548	239.593	77.788	#
19) L4 Aroclor-1242{5}	14.11	14.30	107237	179749	295.102	2011.178	#
Sum Aroclor-1242			184310	192297	743.507	2088.966	
Average Aroclor-1242					185.877	1044.483	
22) L5 Aroclor-1248{3}	0.00	12.62	0	14657	N.D.	46.304	#
23) L5 Aroclor-1248{4}	0.00	13.46	0	574082	N.D.	2133.506	#
24) L5 Aroclor-1248{5}	16.19	0.00	97418	0	258.393	N.D.	#
Sum Aroclor-1248			97418	588739	258.393	2179.810	
Average Aroclor-1248					258.393	1089.905	

302

(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\BA1011.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_B\BA1011.D\ECD2B.CH
Acq On : 17 Dec 97 21:43 Operator:
Sample : 278430 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:06 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	
25) L6	Aroclor-1254{1}	~~14.11~~	~~11.35~~	107237	112542	790.054	510.469	#
26) L6	Aroclor-1254{2}	15.48	13.46	1143444	574082	3101.453	1370.861	#
27) L6	Aroclor-1254{3}	15.81	14.87	714022	603690	1549.377	4038.360	#
28) L6	Aroclor-1254{4}	18.44	15.47	1464395	1360412	3613.181	2799.608	
29) L6	Aroclor-1254{5}	19.76	17.76	2596387	1645532	3008.544	3621.026	
Sum	Aroclor-1254			6025485	4296257	12062.608	12340.325	
Average	Aroclor-1254					2412.522	2468.065	
30) L7	Aroclor-1260{2}	18.62	0.00	135174	0	219.599	N.D.	#
31) L7	Aroclor-1260{3}	20.17	0.00	228195	0	500.114	N.D.	#
Sum	Aroclor-1260			363369	0	719.713	N.D.	
Average	Aroclor-1260					359.856	0.000	

303

12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1011.D\ECD1A.CH Vial: 16
Signal #2 : E:\WESTDA~1\BA1011.D\ECD2B.CH
Acq On : 17 Dec 97 21:43 Operator:
Sample : 278430 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:27 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	7.17	5.95	396277	249081	42.598	41.220
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.50%	103.05%
2) SA Decachlorobiphen	29.17	24.45	662562	388234	43.872	46.733
Spiked Amount 40.000 Range 24 - 154 Recovery =					109.68%	116.83%
Target Compounds						
3) L6 Aroclor-1254{1}	~~14.11~~	~~11.35~~	104864	109067	~~772.830m~~	~~490.885~~ #
4) L6 Aroclor-1254{2}	15.48	13.46	1138308	568786	2967.576	1357.134 #
5) L6 Aroclor-1254{3}	15.81	14.87	710416	600012	1349.669	4001.924 #
6) L6 Aroclor-1254{4}	18.44	15.47	1461278	1353730	3407.992	2721.941
7) L6 Aroclor-1254{5}	19.76	17.76	2594552	1639612	2987.622	3421.779
Sum Aroclor-1254			6009419	4271207	~~11485.688~~	~~11993.664~~
Average Aroclor-1254					~~2297.138~~	~~2398.733~~

2678.214 2875.69

MJ 6/4/98

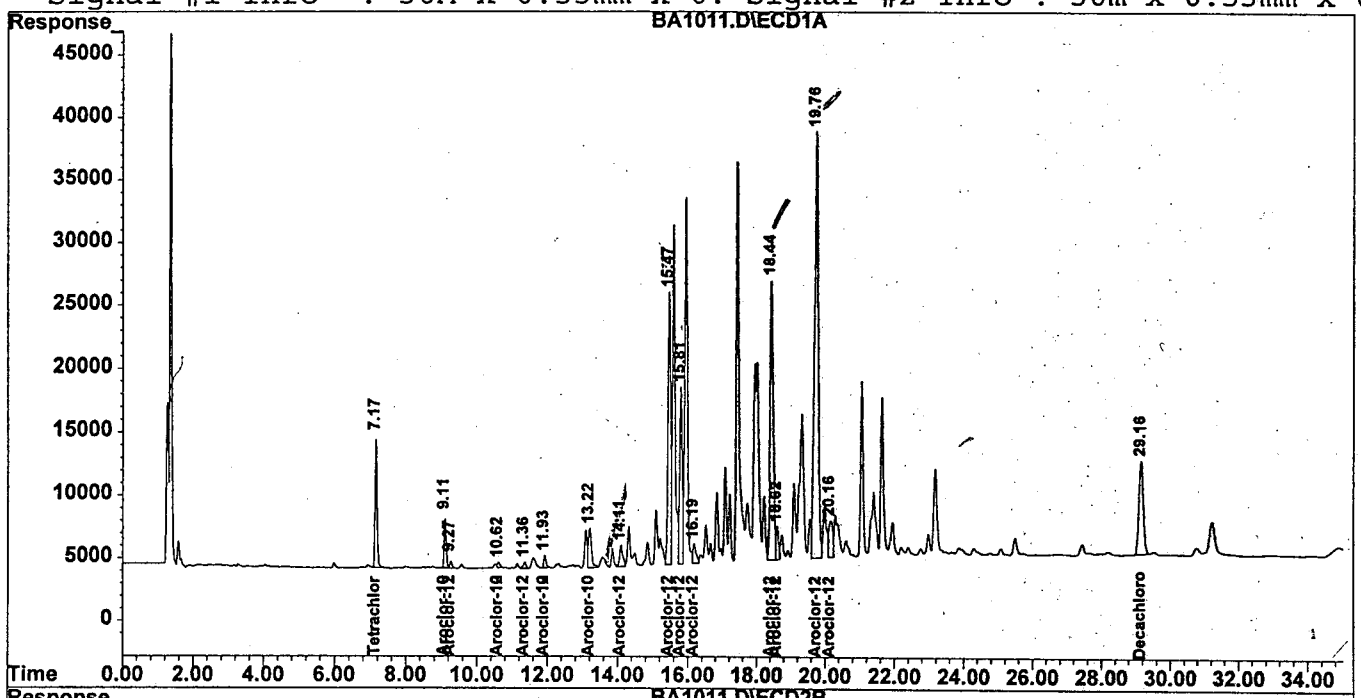
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

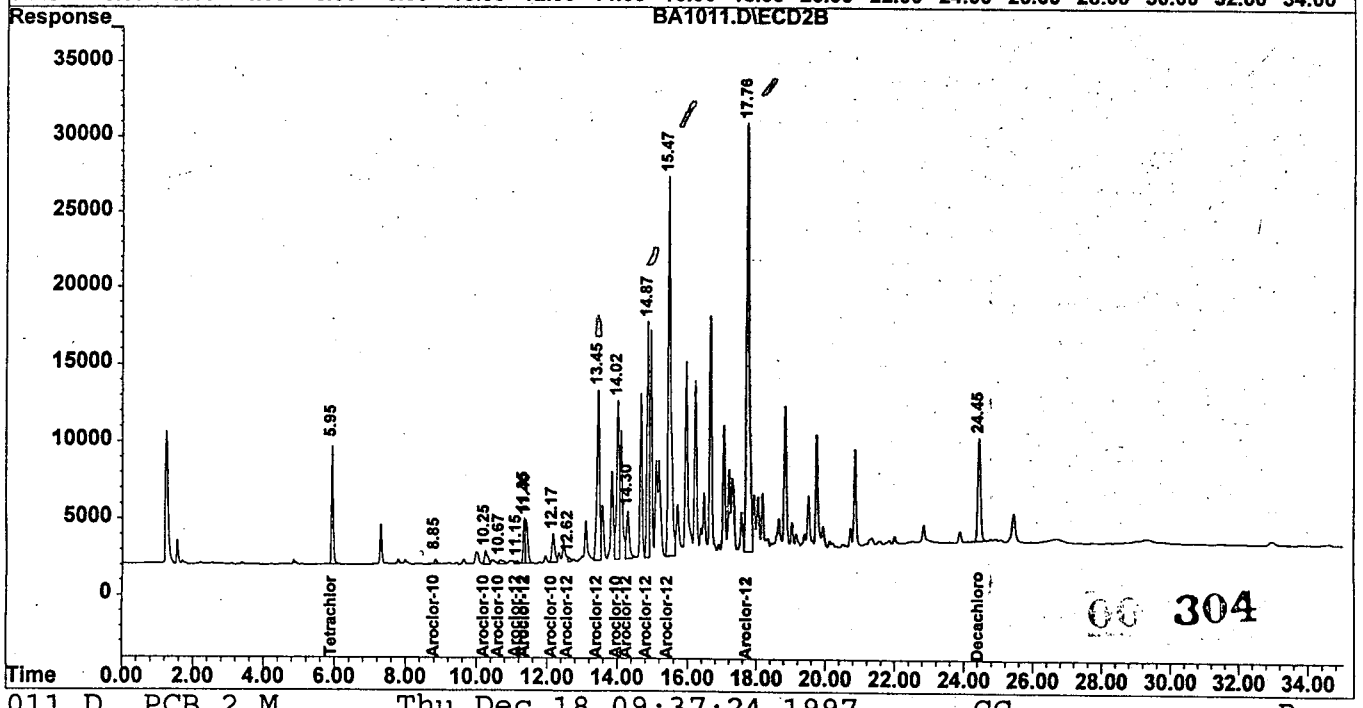
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1011.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_B\BA1011.D\ECD2B.CH
Acq On : 17 Dec 97 21:43 Operator:
Sample : 278430 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:06 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





00 304

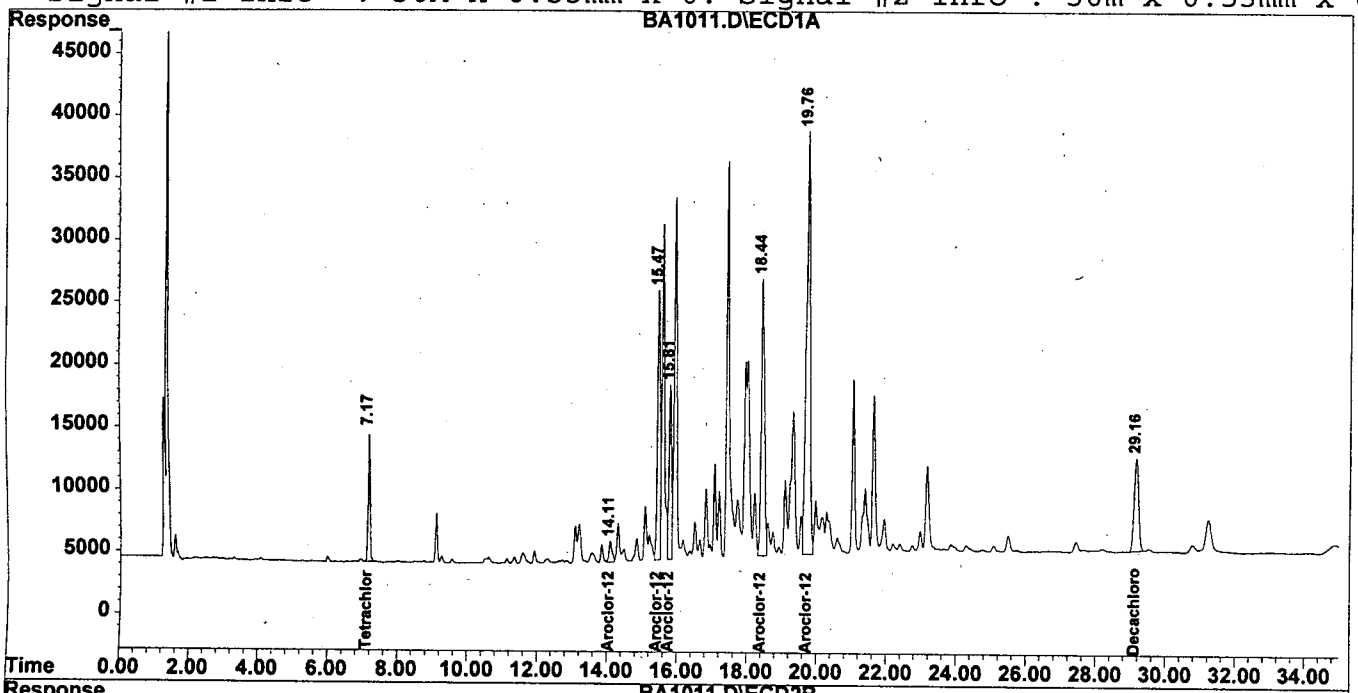
Quantitation Report

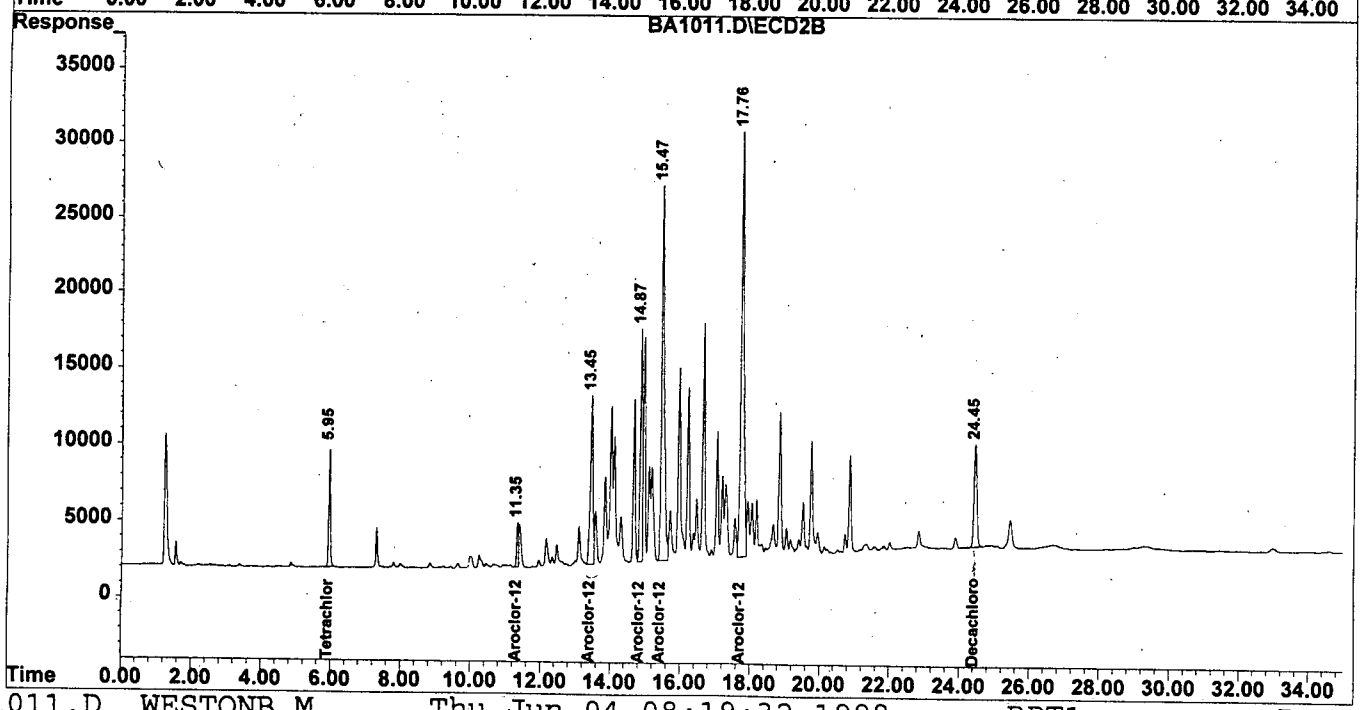
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1011.D\ECD1A.CH Vial: 16
Signal #2 : E:\WESTDA~1\BA1011.D\ECD2B.CH
Acq On : 17 Dec 97 21:43 Operator:
Sample : 278430 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:27 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278431
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: SSSSSD2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/17/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	46.2%

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	62	31
Aroclor-1221	U	U	120	87
Aroclor-1232	U	U	62	50
Aroclor-1242	U	U	62	31
Aroclor-1248	U	U	62	37
Aroclor-1254	~~1400~~ 1500	U	62	43
Aroclor-1260	U J	U	62	50

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1012.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_B\BA1012.D\ECD2B.CH
Acq On : 17 Dec 97 22:22 Operator:
Sample : 278431 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:07 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	5.95	395179	253355	43.622	39.116	
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.06%	97.79%	
2) SA Decachlorobiphen	29.16	24.45	703352	404308	46.738	45.337	
Spiked Amount 40.000 Range 24 - 154 Recovery =					116.85%	113.34%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.11	8.85	48881	9497	229.637	32.635	#
4) L1 Aroclor-1016{2}	0.00	10.25	0	38591	N.D.	68.172	#
5) L1 Aroclor-1016{3}	11.93	10.68	43721	15674	53.153	58.498	
6) L1 Aroclor-1016{4}	0.00	12.17	0	140715	N.D.	548.514	#
7) L1 Aroclor-1016{5}	13.22	14.02	246225	626899	754.066	4250.740	#
Sum Aroclor-1016			338827	831377	1036.857	4958.559	
Average Aroclor-1016					345.619	991.712	
					wp	wp	
10) L2 Aroclor-1221{3}	9.27	0.00	22922	0	75.726	N.D.	#
Sum Aroclor-1221			22922	0	75.726	N.D.	
Average Aroclor-1221					75.726	0.000	
					wp		
12) L3 Aroclor-1232{2}	9.27	0.00	22922	0	112.165	N.D.	#
14) L3 Aroclor-1232{4}	11.93	13.20	43721	33287	124.548	588.361	#
Sum Aroclor-1232			66643	33287	236.713	588.361	
Average Aroclor-1232					118.357	588.361	
					wp	wp	
15) L4 Aroclor-1242{1}	9.27	0.00	22922	0	125.044	N.D.	#
17) L4 Aroclor-1242{3}	11.37	0.00	34994	0	315.642	N.D.	#
19) L4 Aroclor-1242{5}	14.11	14.30	139869	276568	384.902	3094.466	#
Sum Aroclor-1242			197786	276568	825.588	3094.466	
Average Aroclor-1242					275.196	3094.466	
					wp	wp	
22) L5 Aroclor-1248{3}	0.00	12.58	0	35422	N.D.	111.904	#
23) L5 Aroclor-1248{4}	0.00	13.45	0	714556	N.D.	2655.561	#
24) L5 Aroclor-1248{5}	16.19	15.63	99199	27115	263.118	215.282	
Sum Aroclor-1248			99199	777093	263.118	2982.747	
Average Aroclor-1248					263.118	994.249	
					wp	wp	

GC 306

TP 12/18/98

(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\BA1012.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_B\BA1012.D\ECD2B.CH
Acq On : 17 Dec 97 22:22 Operator:
Sample : 278431 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:07 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}	14.11	11.35	139869	365668	1030.469	1658.603	#
26)	L6 Aroclor-1254{2}	15.49	13.45	962328	714556	2610.198	1706.302	#
27)	L6 Aroclor-1254{3}	15.81	14.86	989897	408786	2148.006	2734.559	#
28)	L6 Aroclor-1254{4}	18.44	15.47	1219783	1479581	3009.637	3044.845	
29)	L6 Aroclor-1254{5}	19.76	17.76	2802632	1640133	3247.529	3609.147	
	Sum Aroclor-1254			6114510	4608724	12045.839	12753.457	
	Average Aroclor-1254					2409.168	2550.691	
31)	L7 Aroclor-1260{2}	18.63	0.00	191163	0	310.558	N.D.	#
32)	L7 Aroclor-1260{3}	20.19	0.00	275247	0	603.233	N.D.	#
	Sum Aroclor-1260			466411	0	913.791	N.D.	
	Average Aroclor-1260					456.896	0.000	

NP

CC 307

12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1012.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA1012.D\ECD2B.CH
Acq On : 17 Dec 97 22:22
Sample : 278431
Misc : QPC7407
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:28 1998 Quant Results File: WESTONB.RES

Vial: 17
Operator:
Inst : GC_5890_2
Multiplr: 1.00

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	7.17	5.95	394670	248767	42.425	41.168
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.06%	102.92%
2) SA Decachlorobiphen	29.16	24.45	703352	398014	46.573	47.910
Spiked Amount 40.000 Range 24 - 154 Recovery =					116.43%	119.78%
Target Compounds						
3) L6 Aroclor-1254{1}	14.11	11.35	145616	364244	1073.165m	1639.381 #
4) L6 Aroclor-1254{2}	15.49	13.45	962221	713530	2508.514	1702.497 #
5) L6 Aroclor-1254{3}	15.81	14.86	989848	406763	1880.541	2713.006 #
6) L6 Aroclor-1254{4}	18.44	15.47	1219749	1504480	2844.698	3025.055
7) L6 Aroclor-1254{5}	19.76	17.76	2802610	1634937	3227.200	3412.022
Sum Aroclor-1254			6120044	4623954	11534.118	12491.960
Average Aroclor-1254					2306.824	2498.392

307A

MS 6/4/98

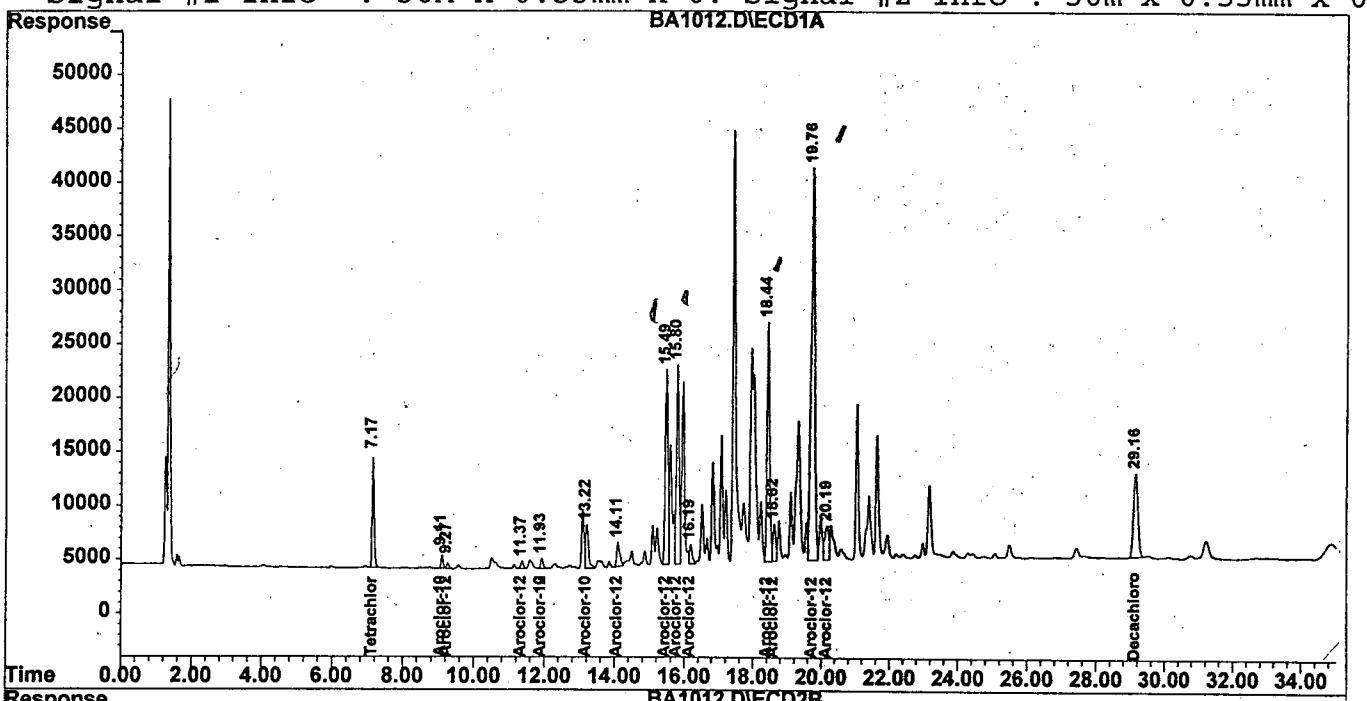
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

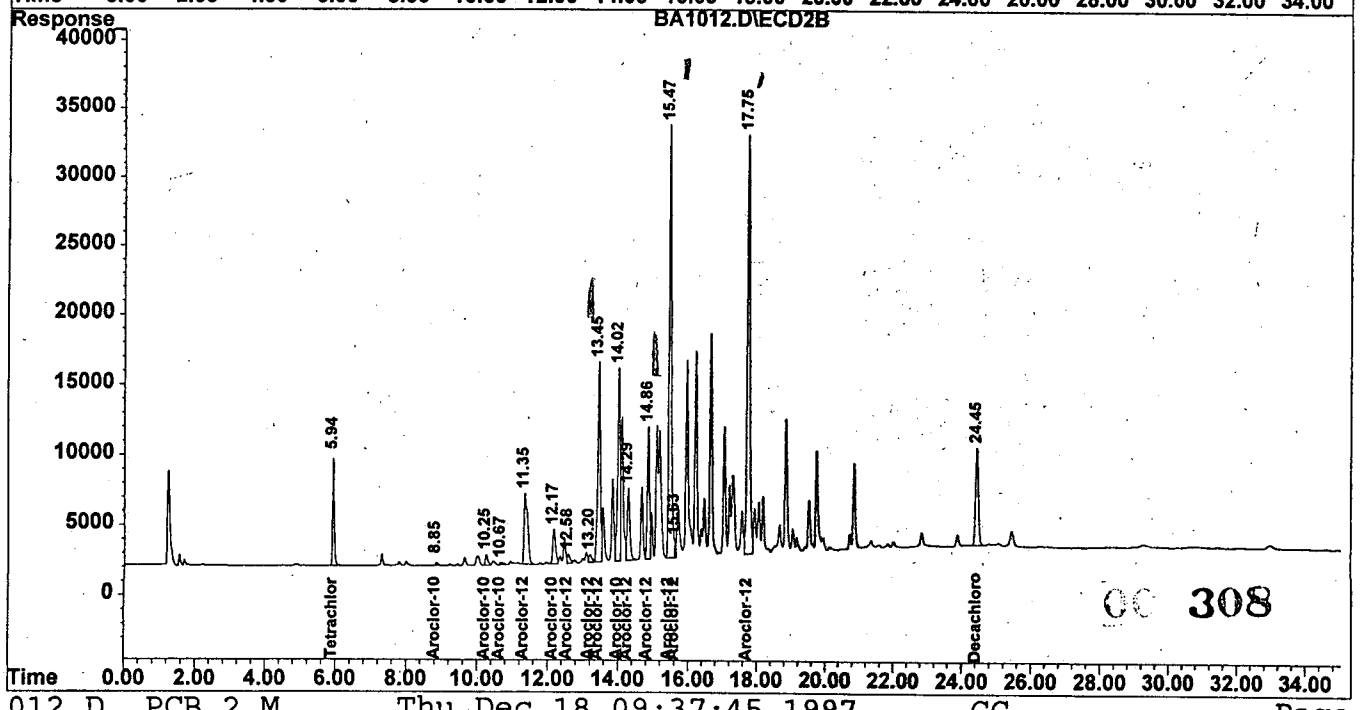
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1012.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_B\BA1012.D\ECD2B.CH
Acq On : 17 Dec 97 22:22 Operator:
Sample : 278431 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:07 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





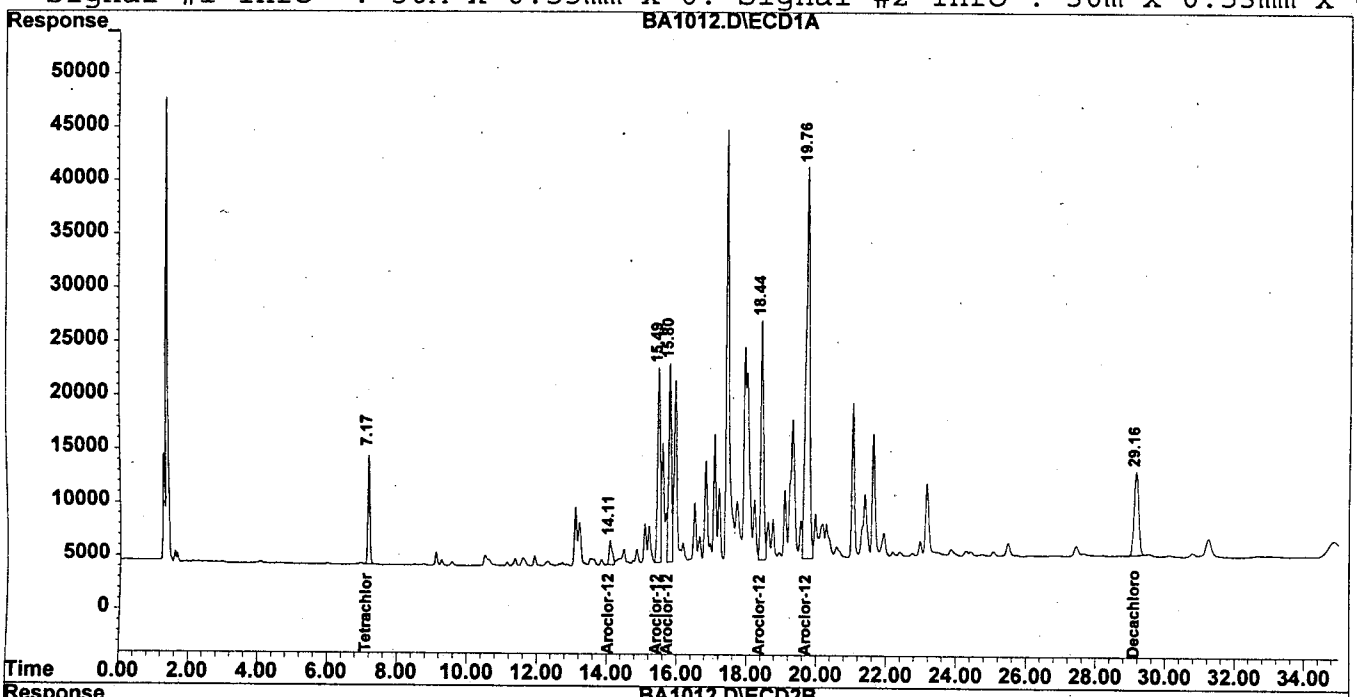
Quantitation Report

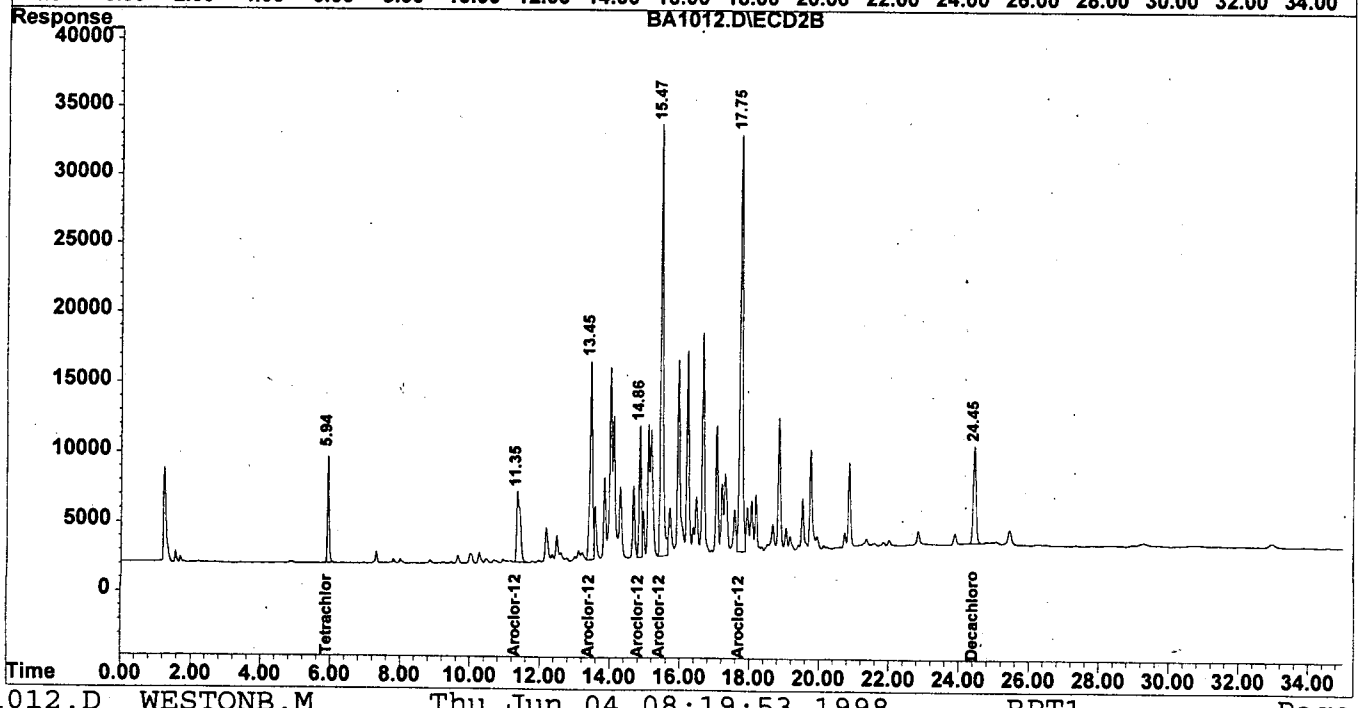
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1012.D\ECD1A.CH Vial: 17
Signal #2 : E:\WESTDA~1\BA1012.D\ECD2B.CH
Acq On : 17 Dec 97 22:22 Operator:
Sample : 278431 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:28 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





308A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278432
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	62.94%

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	90	45
Aroclor-1221	U	U	180	120
Aroclor-1232	U	U	90	72
Aroclor-1242	U	U	90	45
Aroclor-1248	U	U	90	54
Aroclor-1254	1600 ~~1400~~	U	90	63
Aroclor-1260	U	U	90	72

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1034.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_B\BA1034.D\ECD2B.CH
Acq On : 18 Dec 97 20:42 Operator:
Sample : 278432 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:22 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	7.22	5.95	351373	245632	38.787	37.924	
Spiked Amount 40.000 Range 43 - 150 Recovery =					96.97%	94.81%	
2) SA Decachlorobiphen	29.18	24.46	548289	352224	36.434	39.496	
Spiked Amount 40.000 Range 24 - 154 Recovery =					91.08%	98.74%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.16	8.84	29476	56879	138.473	195.449	#
4) L1 Aroclor-1016{2}	10.66	10.26	77204	83099	163.748	146.795	
5) L1 Aroclor-1016{3}	11.97	10.66	119395	114603	145.155	427.718	#
6) L1 Aroclor-1016{4}	0.00	12.17	0	267989	N.D.	1044.632	#
7) L1 Aroclor-1016{5}	13.25	14.02	544563	403036	1667.729	2732.819	#
Sum Aroclor-1016			770638	925606	2115.105	4547.414	
Average Aroclor-1016					528.776	909.483	
10) L2 Aroclor-1221{3}	9.16	0.00	29476	0	97.375	N.D.	#
Sum Aroclor-1221			29476	0	97.375	N.D.	
Average Aroclor-1221					97.375	0.000	
12) L3 Aroclor-1232{2}	9.16	0.00	29476	0	144.231	N.D.	#
13) L3 Aroclor-1232{3}	10.66	11.40	77204	440150	355.703	5283.849	#
14) L3 Aroclor-1232{4}	11.97	13.20	119395	22412	340.124	396.146	
Sum Aroclor-1232			226075	462562	840.058	5679.995	
Average Aroclor-1232					280.019	2839.998	
15) L4 Aroclor-1242{1}	9.16	0.00	29476	0	160.792	N.D.	#
16) L4 Aroclor-1242{2}	10.66	0.00	77204	0	210.548	N.D.	#
17) L4 Aroclor-1242{3}	11.35	11.15	31961	48621	288.287	301.423	
19) L4 Aroclor-1242{5}	14.14	14.30	313217	264772	861.930	2962.483	#
Sum Aroclor-1242			451858	313394	1521.557	3263.906	
Average Aroclor-1242					380.389	1631.953	
20) L5 Aroclor-1248{1}	10.66	10.26	77204	83099	397.968	199.513	#
21) L5 Aroclor-1248{2}	11.97	12.17	119395	267989	213.406	790.807	#
22) L5 Aroclor-1248{3}	13.25	12.47	544563	154510	1317.540	488.120	#
23) L5 Aroclor-1248{4}	14.14	13.46	313217	608727	631.058	2262.262	#

310

(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\BA1034.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_B\BA1034.D\ECD2B.CH
Acq On : 18 Dec 97 20:42 Operator:
Sample : 278432 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:22 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}	16.13	15.47	62346	855504	165.369	6792.293	#
Sum	Aroclor-1248			1116726	1969829	2725.341	10532.995	
Average	Aroclor-1248					545.068	2106.599	
						NP	NP	
25) L6	Aroclor-1254{1}	14.14	11.36	313217	283724	2307.581	1286.919	#
26) L6	Aroclor-1254{2}	15.51	13.46	748819	608727	2031.080	1453.592	#
27) L6	Aroclor-1254{3}	15.83	14.87	603636	384058	1309.848	2569.143	#
28) L6	Aroclor-1254{4}	18.46	15.47	661946	855504	1633.256	1760.551	
29) L6	Aroclor-1254{5}	19.78	17.76	1181943	860470	1369.568	1893.482	#
Sum	Aroclor-1254			3509561	2992484	8651.333	8963.688	
Average	Aroclor-1254					1730.267	1792.738	
30) L7	Aroclor-1260{1}	0.00	15.96	0	405630	N.D.	1190.138	#
31) L7	Aroclor-1260{2}	18.46	16.67	661946	378799	1075.378	931.749	
32) L7	Aroclor-1260{3}	20.00	17.76	89371	860470	195.867	1668.413	#
33) L7	Aroclor-1260{4}	21.08	19.77	302679	138469	649.606	221.144	#
34) L7	Aroclor-1260{5}	21.66	20.88	246590	134787	191.285	285.359	#
Sum	Aroclor-1260			1300587	1918155	2112.136	4296.804	
Average	Aroclor-1260					528.034	859.361	
						NP	NP	

CC 311

12/21/97

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

ICM Laboratories Quantitation Report

(QT Reviewed)
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1034.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA1034.D\ECD2B.CH
Acq On : 18 Dec 97 20:42
Sample : 278432
Misc : QPC7407
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 1998 Quant Results File: WESTONB.RES

Vial: 7
Operator:
Inst : GC_5890_2
Multiplr: 1.00

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	7.22	5.95	350560	240447	37.684	39.791
Spiked Amount 40.000 Range 43 - 150 Recovery =					94.21%	99.48%
2) SA Decachlorobiphen	29.18	24.46	548289	352823	36.306	42.470
Spiked Amount 40.000 Range 24 - 154 Recovery =					90.77%	106.18%
Target Compounds						
3) L6 Aroclor-1254{1}	14.14	11.36	269988	282911	1989.765	1273.322 #
4) L6 Aroclor-1254{2}	15.51	13.46	742342	603194	1935.289	1439.232 #
5) L6 Aroclor-1254{3}	15.83	14.87	598757	380416	1137.535	2537.281 #
6) L6 Aroclor-1254{4}	18.46	15.47	658571	851160	1535.919	1711.426
7) L6 Aroclor-1254{5}	19.78	17.76	1180313	837080	1359.128	1746.939 #
Sum Aroclor-1254			3449971	2954762	7957.636	8708.199
Average Aroclor-1254					1591.527	1741.640

311A 5/19/98

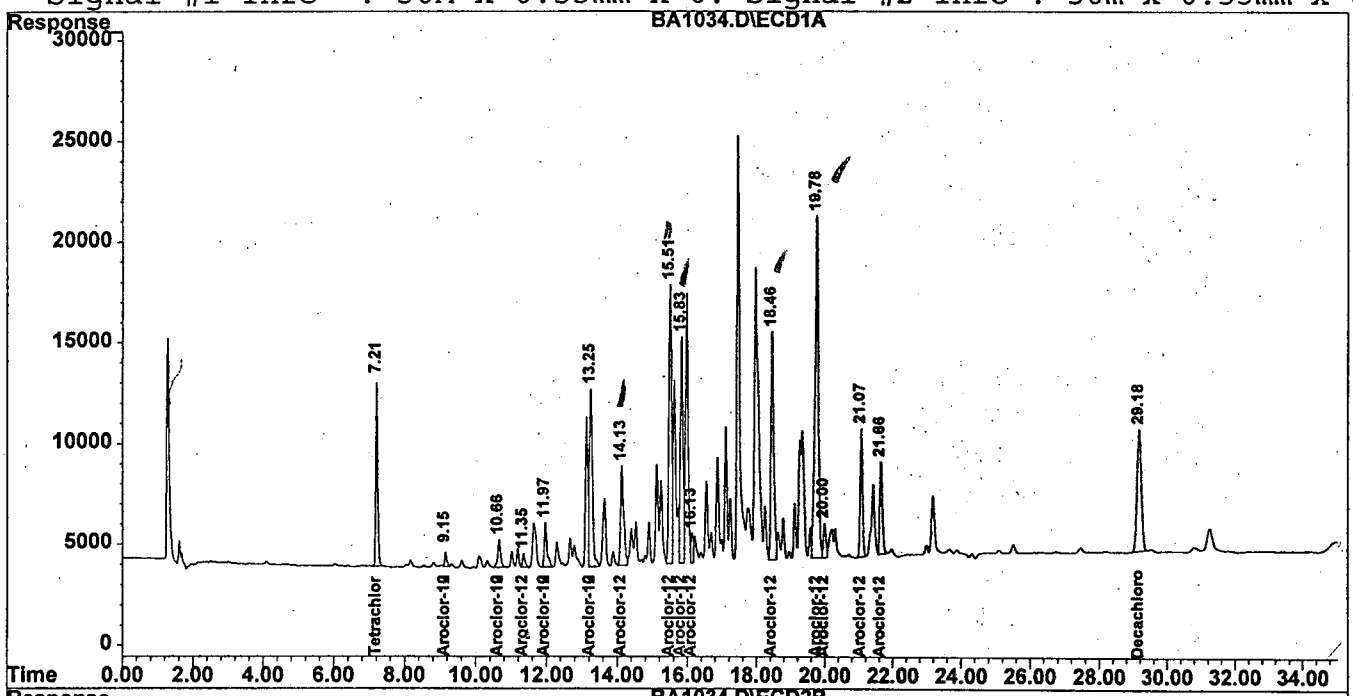
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

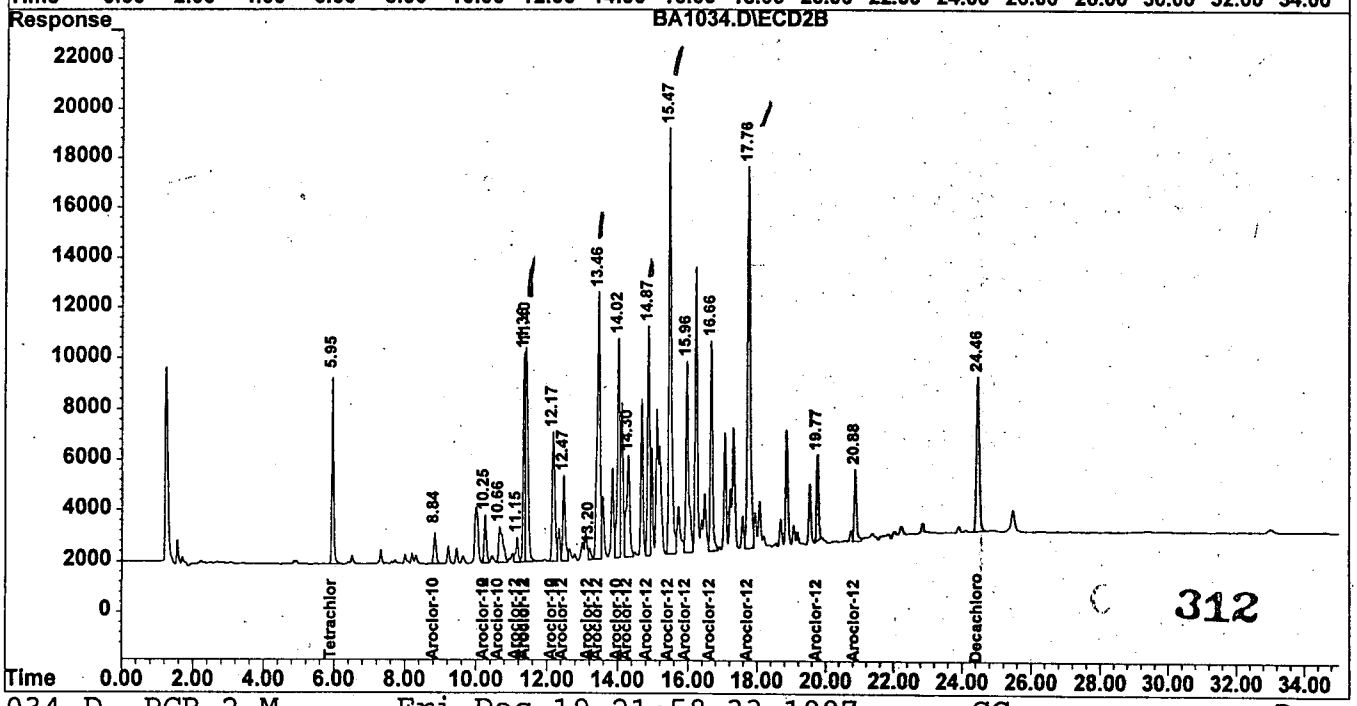
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1034.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_B\BA1034.D\ECD2B.CH
Acq On : 18 Dec 97 20:42 Operator:
Sample : 278432 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:22 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





312

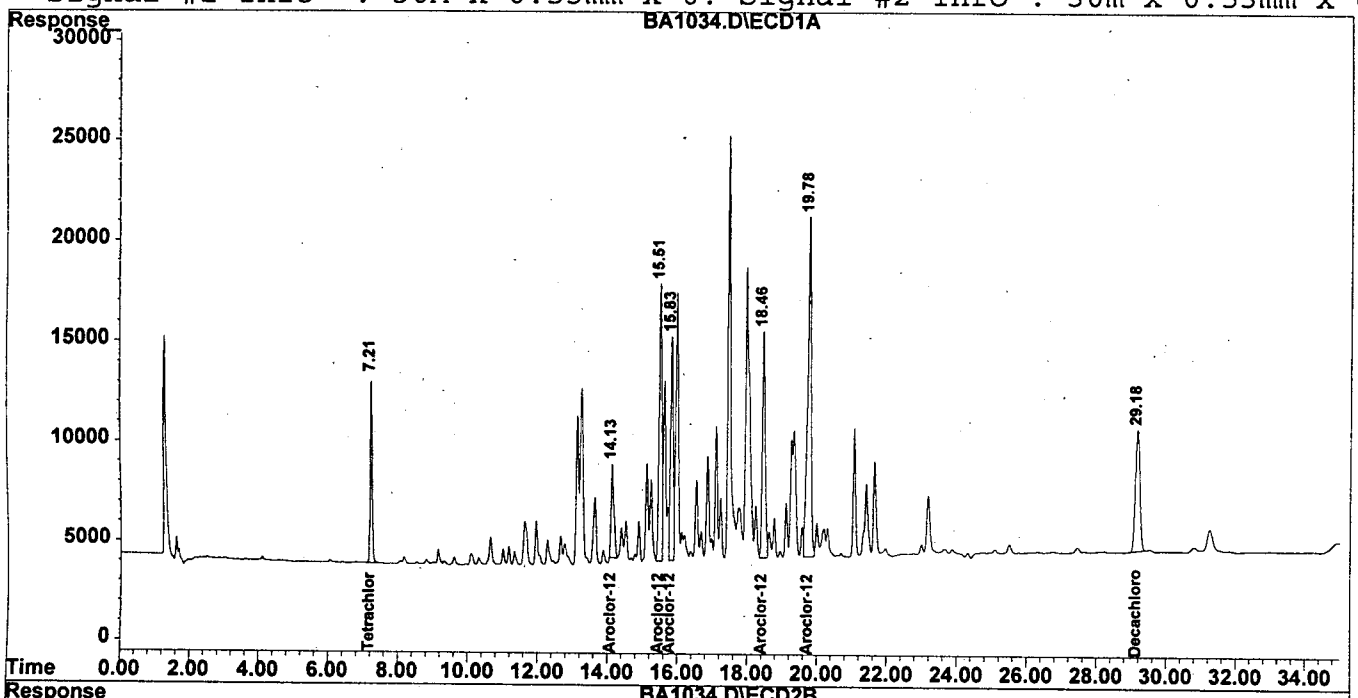
Quantitation Report

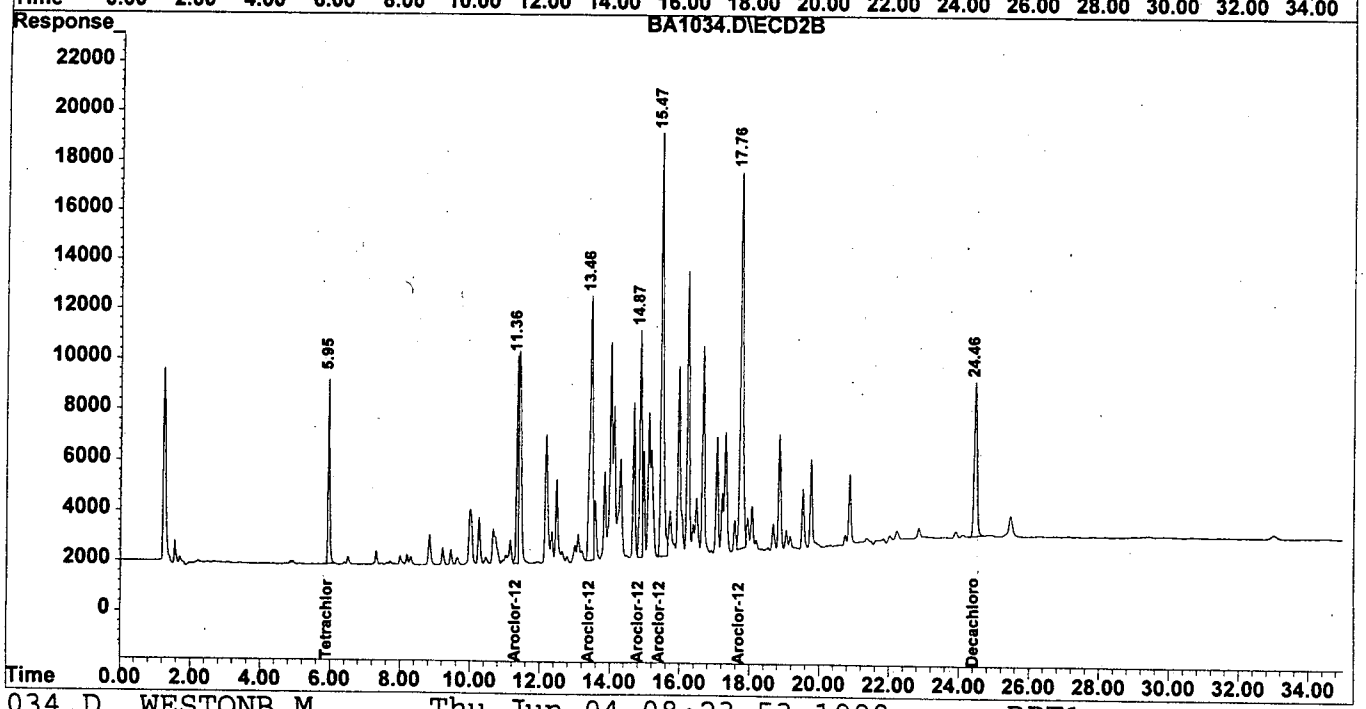
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1034.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\BA1034.D\ECD2B.CH
Acq On : 18 Dec 97 20:42 Operator:
Sample : 278432 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278433
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	48.8%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	320	160
Aroclor-1221	U	U	650	460
Aroclor-1232	U	U	320	260
Aroclor-1242	U	U	320	160
Aroclor-1248	U	U	320	200
Aroclor-1254	~~3600~~ 4000	U	320	230
Aroclor-1260	U	U	320	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.

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Thomas Mancuso, Lab Mgr.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1032.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_B\BA1032.D\ECD2B.CH
Acq On : 18 Dec 97 19:24 Operator:
Sample : 278433 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:21 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	7.22	5.95	78964	57351	8.717	8.855
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.79%#	22.14%#
2) SA Decachlorobiphen	29.18	24.46	130409	85880	8.666	9.630
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.67%#	24.08%
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	8.85	0	10253	N.D.	35.232 #
4) L1 Aroclor-1016{2}	0.00	10.26	0	14373	N.D.	25.391 #
5) L1 Aroclor-1016{3}	11.98	10.72	15949	26136	19.390	97.542 #
6) L1 Aroclor-1016{4}	0.00	12.17	0	180543	N.D.	703.765 #
7) L1 Aroclor-1016{5}	13.25	14.02	319589	369157	978.743	2503.101 #
Sum Aroclor-1016			335537	600462	998.132	3365.031
Average Aroclor-1016					499.066	673.006
					NP	NP
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
13) L3 Aroclor-1232{3}	0.00	11.40	0	236861	N.D.	2843.439 #
14) L3 Aroclor-1232{4}	11.98	13.20	15949	11156	45.433	197.189 #
Sum Aroclor-1232			15949	248017	45.433	3040.628
Average Aroclor-1232					45.433	1520.314
					NP	NP
19) L4 Aroclor-1242{5}	14.14	14.30	220797	178218	607.604	1994.048 #
Sum Aroclor-1242			220797	178218	607.604	1994.048
Average Aroclor-1242					607.604	1994.048
					NP	NP
20) L5 Aroclor-1248{1}	0.00	10.26	0	14373	N.D.	34.509 #
21) L5 Aroclor-1248{2}	11.98	12.17	15949	180543	28.507	532.764 #
22) L5 Aroclor-1248{3}	13.25	12.48	319589	70902	773.227	223.989 #
23) L5 Aroclor-1248{4}	14.14	13.46	220797	544800	444.854	2024.686 #
24) L5 Aroclor-1248{5}	0.00	15.47	0	660933	N.D.	5247.489 #
Sum Aroclor-1248			556335	1471551	1246.587	8063.437
Average Aroclor-1248					415.529	1612.687
					NP	NP
25) L6 Aroclor-1254{1}	14.14	11.35	220797	234545	1626.693	1063.854 #

314

(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\BA1032.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_B\BA1032.D\ECD2B.CH
Acq On : 18 Dec 97 19:24 Operator:
Sample : 278433 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:21 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	
26) L6	Aroclor-1254{2}	15.52	13.46	410211	544800	1112.648	1300.940	
27) L6	Aroclor-1254{3}	15.83	14.86	541656	187863	1175.355	1256.704	
28) L6	Aroclor-1254{4}	18.46	15.47	490846	660933	1211.092	1360.141	
29) L6	Aroclor-1254{5}	19.79	17.77	886398	583449	1027.107	1283.893	#
Sum	Aroclor-1254			2549909	2211591	6152.895	6265.531	
Average	Aroclor-1254					1230.579	1253.106	
30) L7	Aroclor-1260{1}	0.00	15.97	0	332211	N.D.	974.721	#
31) L7	Aroclor-1260{2}	18.46	16.67	490846	340383	797.414	837.256	
32) L7	Aroclor-1260{3}	20.00	17.77	59538	583449	130.483	1131.283	#
33) L7	Aroclor-1260{4}	21.08	19.77	233877	112892	501.945	180.296	#
34) L7	Aroclor-1260{5}	21.66	20.88	174942	76871	135.706	162.745	
Sum	Aroclor-1260			959203	1445806	1565.549	3286.302	
Average	Aroclor-1260					391.387	657.260	

NP NP

315

12/17/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1032.D\ECD1A.CH Vial: 5
Signal #2 : E:\WESTDA~1\BA1032.D\ECD2B.CH
Acq On : 18 Dec 97 19:24 Operator:
Sample : 278433 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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	7.22	5.95	78604	56856	8.450	9.409
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.13%#	23.52%#
2) SA Decachlorobiphen	29.18	24.46	130409	85205	8.635	10.256
Spiked Amount 40.000 Range 24 - 154 Recovery =					21.59%#	25.64%
Target Compounds						
3) L6 Aroclor-1254{1}	14.14	11.35	209860	230882	1546.632	1039.149 #
4) L6 Aroclor-1254{2}	15.52	13.46	392565	541216	1023.418	1291.352 #
5) L6 Aroclor-1254{3}	15.83	14.86	496680	185511	943.607	1237.312 #
6) L6 Aroclor-1254{4}	18.46	15.47	456415	657968	1064.451	1322.975
7) L6 Aroclor-1254{5}	19.79	17.77	884970	572346	1019.042	1194.453
Sum Aroclor-1254			2440490	2187923	5597.150	6085.241
Average Aroclor-1254					1119.430	1217.048

315A

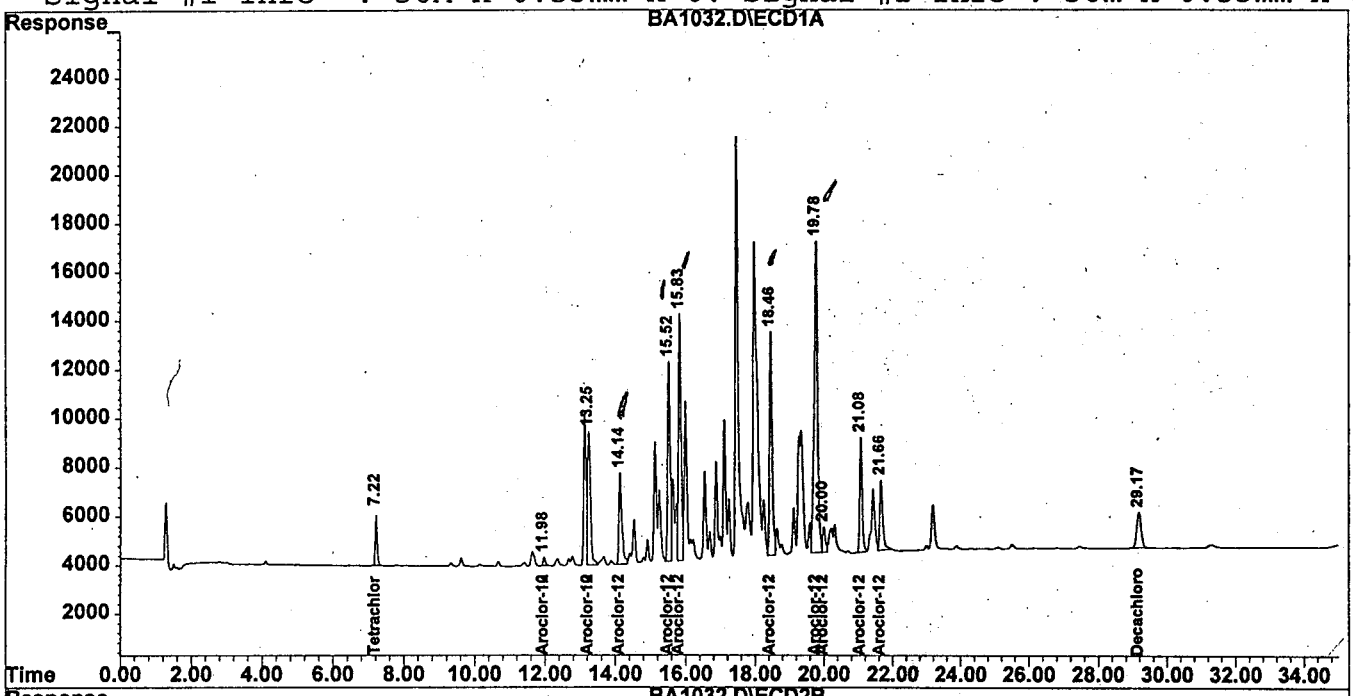
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

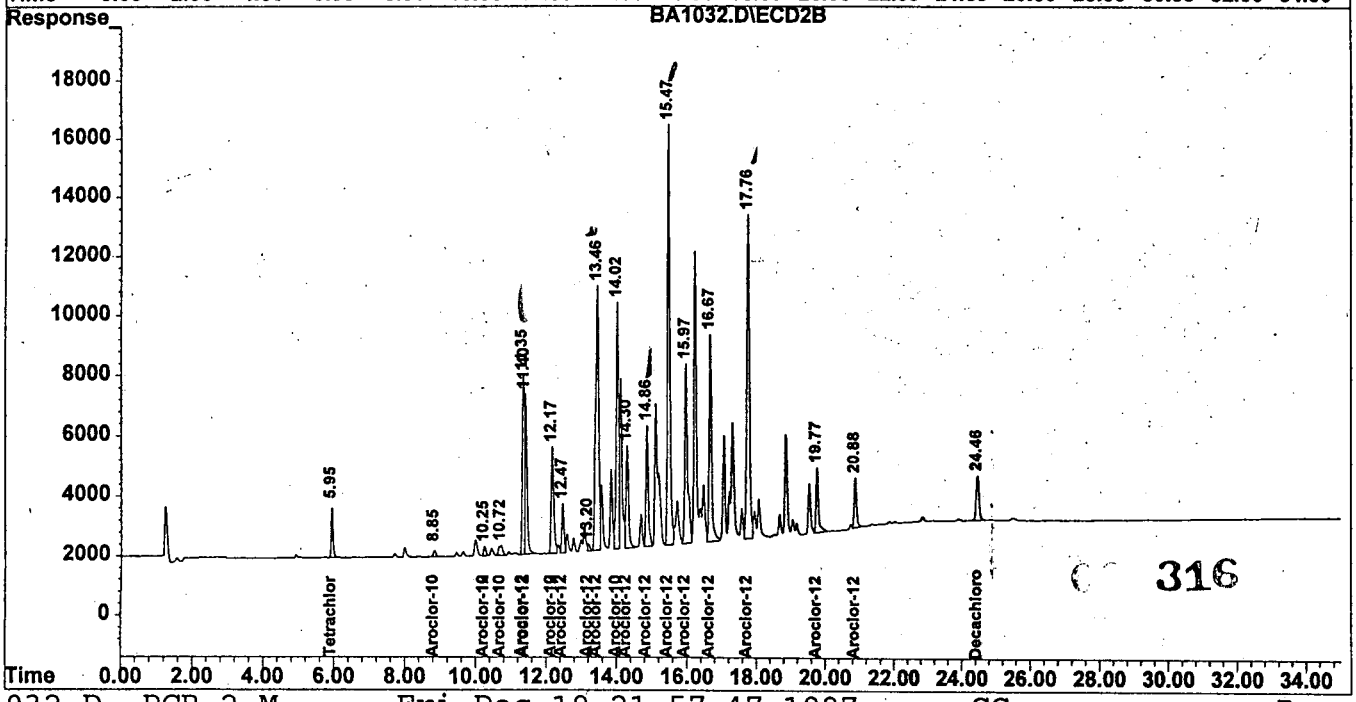
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1032.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_B\BA1032.D\ECD2B.CH
Acq On : 18 Dec 97 19:24 Operator:
Sample : 278433 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:21 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





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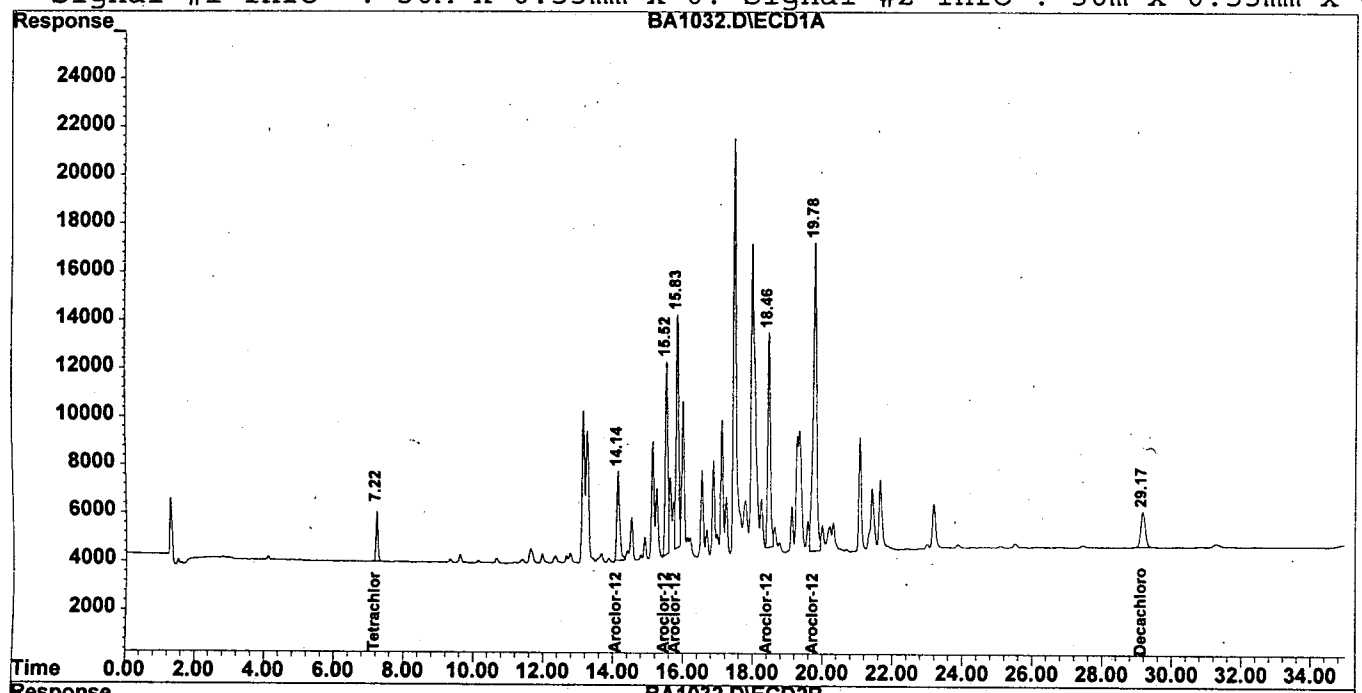
Quantitation Report

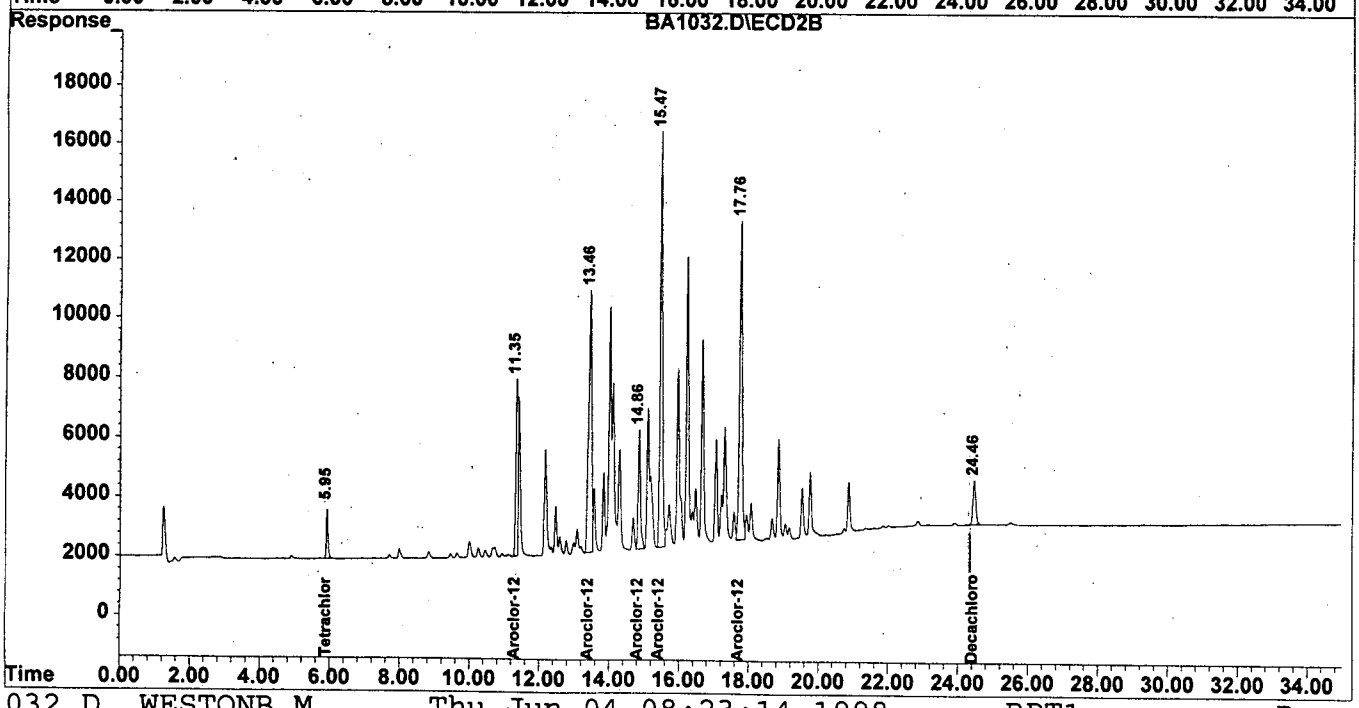
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1032.D\ECD1A.CH Vial: 5
Signal #2 : E:\WESTDA~1\BA1032.D\ECD2B.CH
Acq On : 18 Dec 97 19:24 Operator:
Sample : 278433 1:5 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278434
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTNS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	51.12%

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	68	34
Aroclor-1221	U	U	140	95
Aroclor-1232	U	U	68	54
Aroclor-1242	U	U	68	34
Aroclor-1248	U	U	68	41
Aroclor-1254	540 ~~400~~	U	68	48
Aroclor-1260	U	U	68	54

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1015.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_B\BA1015.D\ECD2B.CH
Acq On : 18 Dec 97 00:18 Operator:
Sample : 278434 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:08 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	5.94	393223	245070	43.407	37.837	
Spiked Amount 40.000 Range 43 - 150 Recovery =					108.52%	94.59%	
2) SA Decachlorobiphen	29.15	24.45	598545	351676	39.774	39.435	
Spiked Amount 40.000 Range 24 - 154 Recovery =					99.44%	98.59%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.11	0.00	24344	0	114.363	N.D.	#
4) L1 Aroclor-1016{2}	0.00	10.25	0	18072	N.D.	31.924	#
5) L1 Aroclor-1016{3}	11.93	10.66	11824	11238	14.374	41.943	#
6) L1 Aroclor-1016{4}	0.00	12.17	0	41401	N.D.	161.383	#
7) L1 Aroclor-1016{5}	13.18	14.02	241191	122508	738.648	830.675	
Sum Aroclor-1016			277358	193219	867.385	1065.926	
Average Aroclor-1016					289.128	266.481	
Sum Aroclor-1221			0	0	N.D.	N.D.	
Average Aroclor-1221					0.000	0.000	
12) L3 Aroclor-1232{2}	0.00	10.03	0	21067	N.D.	504.295	#
13) L3 Aroclor-1232{3}	0.00	11.42	0	70951	N.D.	851.746	#
14) L3 Aroclor-1232{4}	11.93	0.00	11824	0	33.682	N.D.	#
Sum Aroclor-1232			11824	92018	33.682	1356.040	
Average Aroclor-1232					33.682	678.020	
16) L4 Aroclor-1242{2}	0.00	10.03	0	21067	N.D.	274.480	#
19) L4 Aroclor-1242{5}	14.23	14.30	47146	57478	129.740	643.107	#
Sum Aroclor-1242			47146	78545	129.740	917.587	
Average Aroclor-1242					129.740	458.793	
22) L5 Aroclor-1248{3}	0.00	12.59	0	28930	N.D.	91.393	#
23) L5 Aroclor-1248{4}	14.23	13.46	47146	193291	94.988	718.343	#
Sum Aroclor-1248			47146	222221	94.988	809.736	
Average Aroclor-1248					94.988	404.868	
25) L6 Aroclor-1254{1}	14.11	11.35	29406	33512	216.647	152.005	#
26) L6 Aroclor-1254{2}	15.48	13.46	222816	193291	604.361	461.563	

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(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\BA1015.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_B\BA1015.D\ECD2B.CH
Acq On : 18 Dec 97 00:18 Operator:
Sample : 278434 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:08 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	
27)	L6 Aroclor-1254{3}	15.81	14.87	179254	169071	388.968	1130.994	#
28)	L6 Aroclor-1254{4}	18.45	15.47	434122	318168	1071.133	654.762	#
29)	L6 Aroclor-1254{5}	19.76	17.76	670449	486589	776.878	1070.750	#
	Sum Aroclor-1254			1536047	1200632	3057.986	3470.074	
Average	Aroclor-1254					611.597	694.015	
31)	L7 Aroclor-1260{2}	18.62	0.00	29105	0	47.283	N.D.	#
32)	L7 Aroclor-1260{3}	20.16	0.00	45280	0	99.235	N.D.	#
	Sum Aroclor-1260			74385	0	146.518	N.D.	
Average	Aroclor-1260					73.259	0.000	

00 319

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1015.D\ECD1A.CH Vial: 20
Signal #2 : E:\WESTDA~1\BA1015.D\ECD2B.CH
Acq On : 18 Dec 97 00:18 Operator:
Sample : 278434 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:28 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	7.17	5.94	386774	240237	41.576	39.756	
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.94%	99.39%	
2) SA Decachlorobiphen	29.15	24.45	598495	351176	39.630	42.272	
Spiked Amount 40.000 Range 24 - 154 Recovery =					99.08%	105.68%	
Target Compounds							
3) L6 Aroclor-1254{1}	~~14.10~~	~~11.35~~	35798	33550	~~263.825m~~	~~151.001~~	#
4) L6 Aroclor-1254{2}	15.48	13.46	222393	181043	579.780	431.971	#
5) L6 Aroclor-1254{3}	15.81	14.87	176454	167916	335.232	1119.959	#
6) L6 Aroclor-1254{4}	18.44	15.47	433785	318346	1011.673	640.098	#
7) L6 Aroclor-1254{5}	19.76	17.76	669869	463628	771.353	967.566	#
Sum Aroclor-1254			1538299	1164483	2961.863	3310.595	
Average Aroclor-1254					~~592.373~~	~~662.119~~	

674.51 789.898

6/4/98

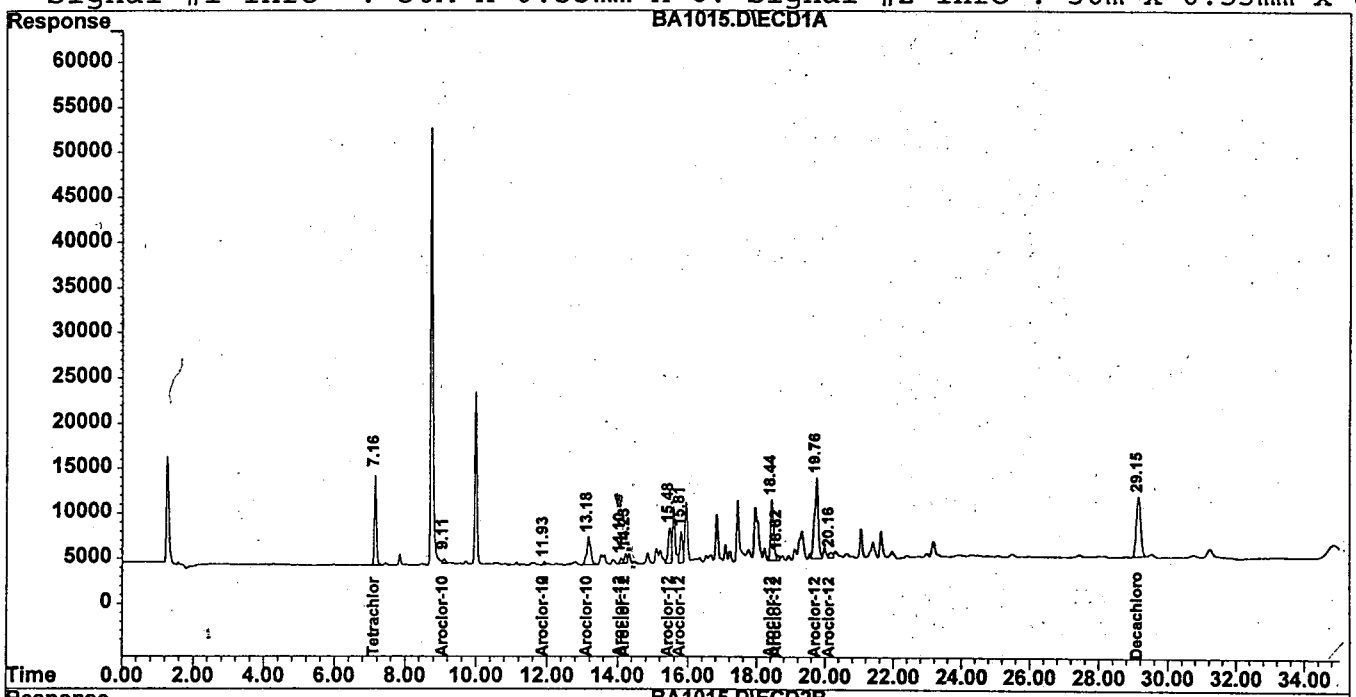
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

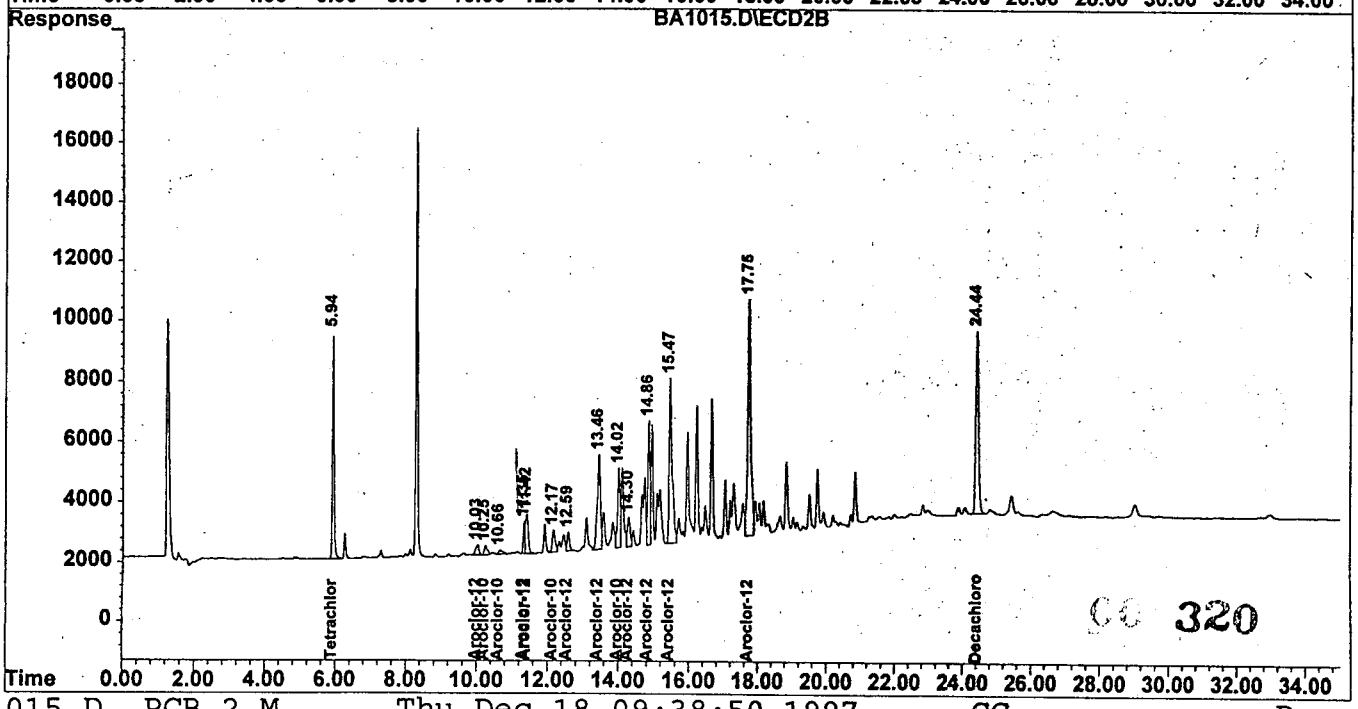
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1015.D\ECD1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA_B\BA1015.D\ECD2B.CH
Acq On : 18 Dec 97 00:18 Operator:
Sample : 278434 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:08 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





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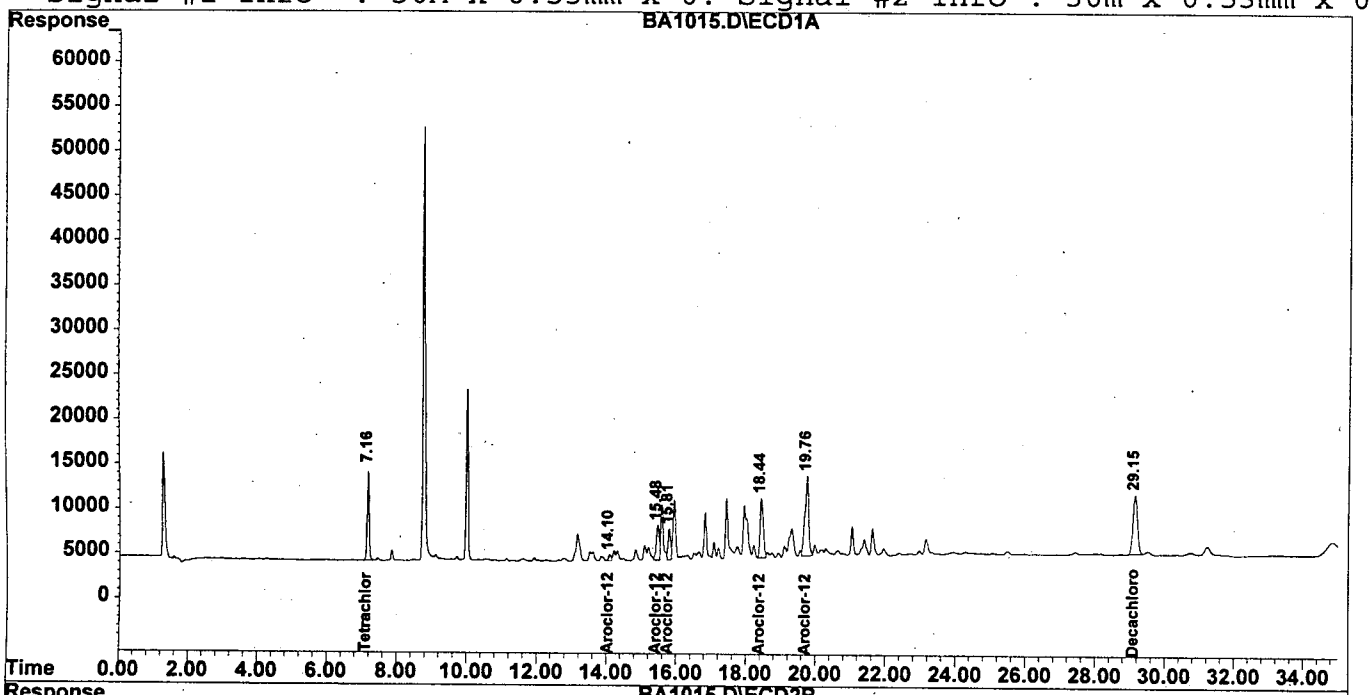
Quantitation Report

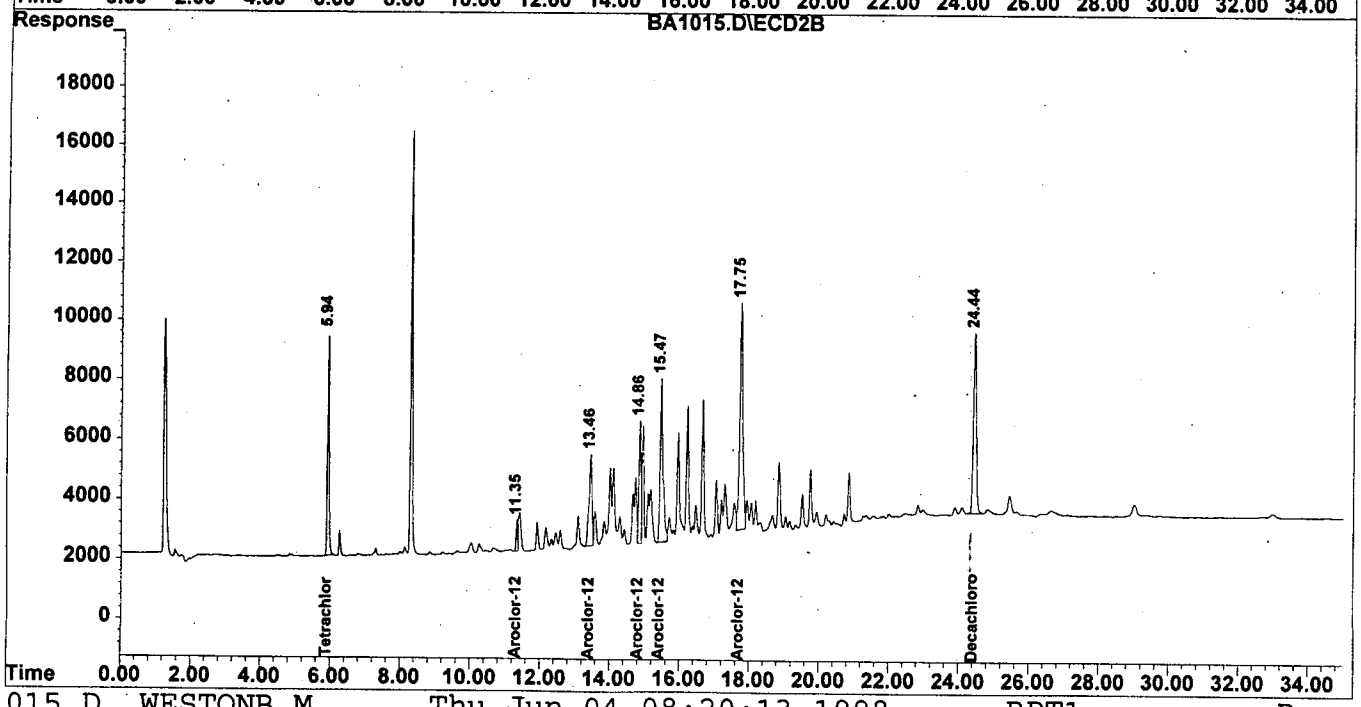
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1015.D\ECD1A.CH Vial: 20
Signal #2 : E:\WESTDA~1\BA1015.D\ECD2B.CH
Acq On : 18 Dec 97 00:18 Operator:
Sample : 278434 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:28 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





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INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278435
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTND1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	52.62%

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	70	35
Aroclor-1221	U	U	140	98
Aroclor-1232	U	U	70	56
Aroclor-1242	U	U	70	35
Aroclor-1248	U	U	70	42
Aroclor-1254	240 ~~200~~	U	70	49
Aroclor-1260	U	U	70	56

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1016.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_B\BA1016.D\ECD2B.CH
Acq On : 18 Dec 97 00:57 Operator:
Sample : 278435 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:19 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	7.16	5.94	410352	261131	45.297	40.317
Spiked Amount 40.000 Range 43 - 150 Recovery =					113.24%	100.79%
2) SA Decachlorobiphen	29.15	24.45	652030	372656	43.328	41.787
Spiked Amount 40.000 Range 24 - 154 Recovery =					108.32%	104.47%
Target Compounds						
3) L1 Aroclor-1016{1}	9.10	0.00	16392	0	77.010	N.D. #
6) L1 Aroclor-1016{4}	0.00	12.18	0	12374	N.D.	48.234 #
7) L1 Aroclor-1016{5}	13.22	14.02	20583	50865	63.036	344.895 #
Sum Aroclor-1016			36976	63239	140.046	393.129
Average Aroclor-1016					70.023	196.564
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	17160	N.D.	410.769 #
Sum Aroclor-1232			0	17160	N.D.	410.769
Average Aroclor-1232					0.000	410.769
16) L4 Aroclor-1242{2}	0.00	10.04	0	17160	N.D.	223.576 #
18) L4 Aroclor-1242{4}	0.00	12.33	0	11231	N.D.	48.533 #
19) L4 Aroclor-1242{5}	0.00	14.30	0	29731	N.D.	332.648 #
Sum Aroclor-1242			0	58122	N.D.	604.757
Average Aroclor-1242					0.000	201.586
20) L5 Aroclor-1248{1}	0.00	10.32	0	16303	N.D.	39.143 #
21) L5 Aroclor-1248{2}	0.00	12.33	0	11231	N.D.	33.142 #
23) L5 Aroclor-1248{4}	0.00	13.47	0	65650	N.D.	243.982 #
24) L5 Aroclor-1248{5}	16.26	15.55	32944	93097	87.382	739.148 #
Sum Aroclor-1248			32944	186282	87.382	1055.415
Average Aroclor-1248					87.382	263.854
25) L6 Aroclor-1254{1}	14.10	11.35	21449	31395	158.026	142.403
26) L6 Aroclor-1254{2}	15.46	13.47	120762	65650	327.552	156.768 #
27) L6 Aroclor-1254{3}	15.81	14.87	74097	107393	160.785	718.398 #

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(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\BA1016.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_B\BA1016.D\ECD2B.CH
Acq On : 18 Dec 97 00:57 Operator:
Sample : 278435 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:19 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	
28)	L6 Aroclor-1254{4}	18.45	15.47	299541	58522	739.074	120.432	#
29)	L6 Aroclor-1254{5}	19.69	17.75	590288	207805	683.992m	457.279	#
Sum	Aroclor-1254			1106137	470764	2069.429	1595.279	
Average	Aroclor-1254					413.886	319.056	
31)	L7 Aroclor-1260{1}	0.00	16.11	0	11166	N.D.	32.763	#
31)	L7 Aroclor-1260{2}	18.63	0.00	40511	0	65.813	N.D.	#
32)	L7 Aroclor-1260{3}	20.15	17.83	25109	79398	55.029	153.949	#
Sum	Aroclor-1260			65621	90564	120.843	186.711	
Average	Aroclor-1260					60.421	93.356	

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7P2nM

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1016.D\ECD1A.CH Vial: 21
Signal #2 : E:\WESTDA~1\BA1016.D\ECD2B.CH
Acq On : 18 Dec 97 00:57 Operator:
Sample : 278435 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:29 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	7.16	5.94	409178	254522	43.985	42.120
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.96%	105.30%
2) SA Decachlorobiphen	29.15	24.45	652030	370381	43.175	44.584
Spiked Amount 40.000 Range 24 - 154 Recovery =					107.94%	111.46%
Target Compounds						
3) L6 Aroclor-1254{1}	~~14.10~~	11.35	18536	13888	~~136.607~~m	62.507m#
4) L6 Aroclor-1254{2}	15.46	13.47	119087	62579	310.460	149.314 #
5) L6 Aroclor-1254{3}	15.81	14.87	73121	106862	138.917	712.740 #
6) L6 Aroclor-1254{4}	18.45	15.47	298703	51613	696.634	103.778 #
7) L6 Aroclor-1254{5}	~~19.69~~	~~17.75~~	593000	194237	~~682.838~~m	~~405.363~~ #
Sum Aroclor-1254			1102446	429179	1965.456	1433.701
Average Aroclor-1254					~~393.091~~ 382	~~286.740~~ 362.80

323A

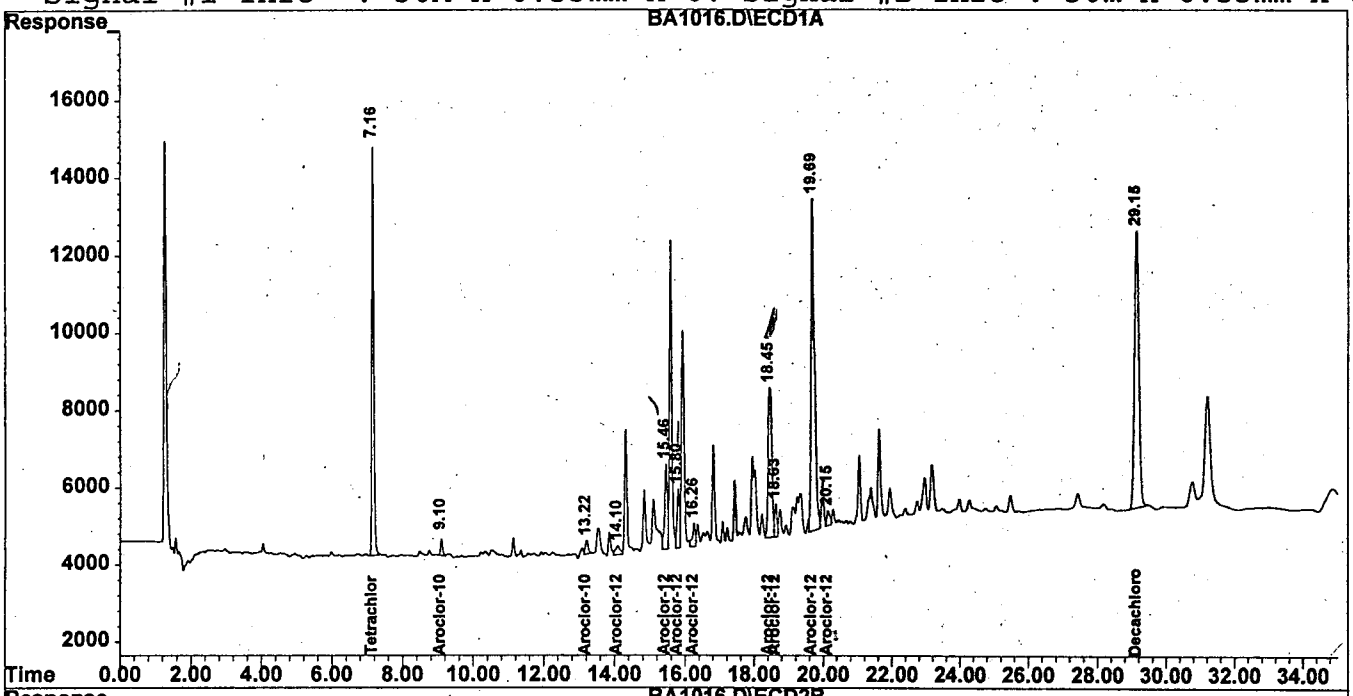
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

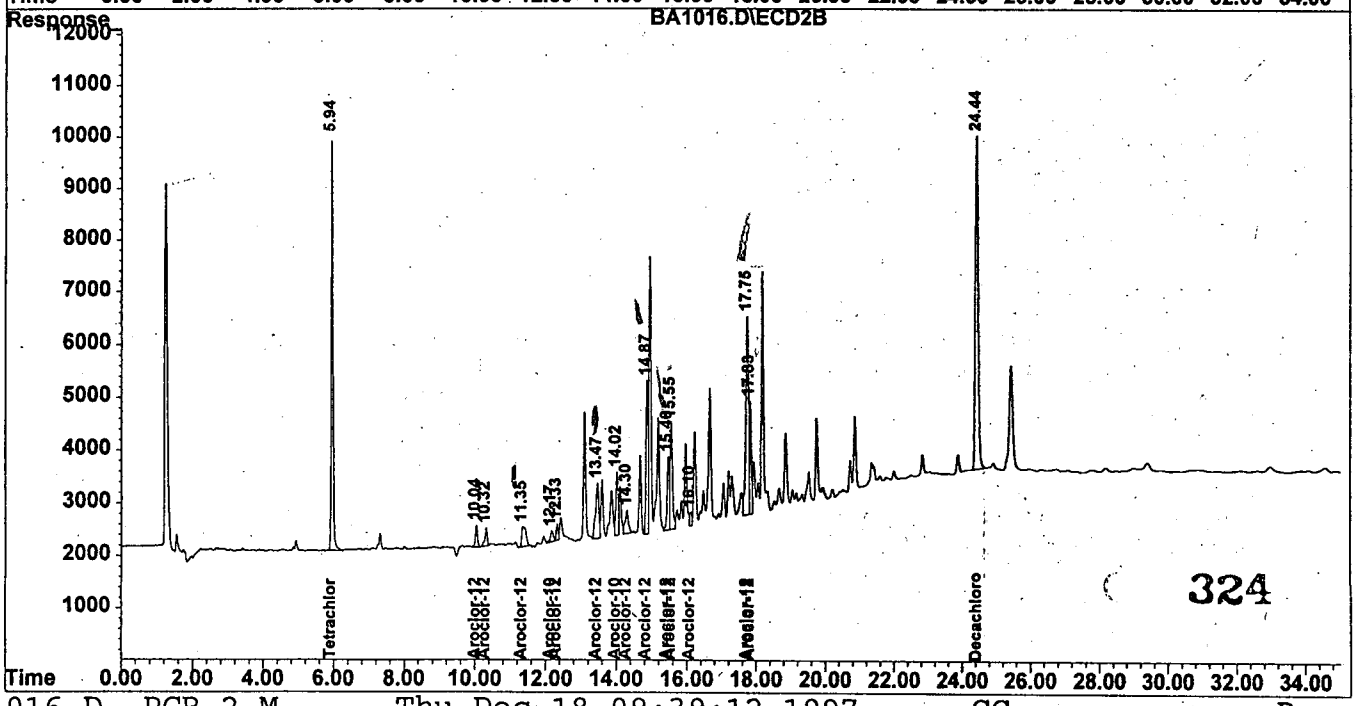
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1016.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_B\BA1016.D\ECD2B.CH
Acq On : 18 Dec 97 00:57 Operator:
Sample : 278435 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:19 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





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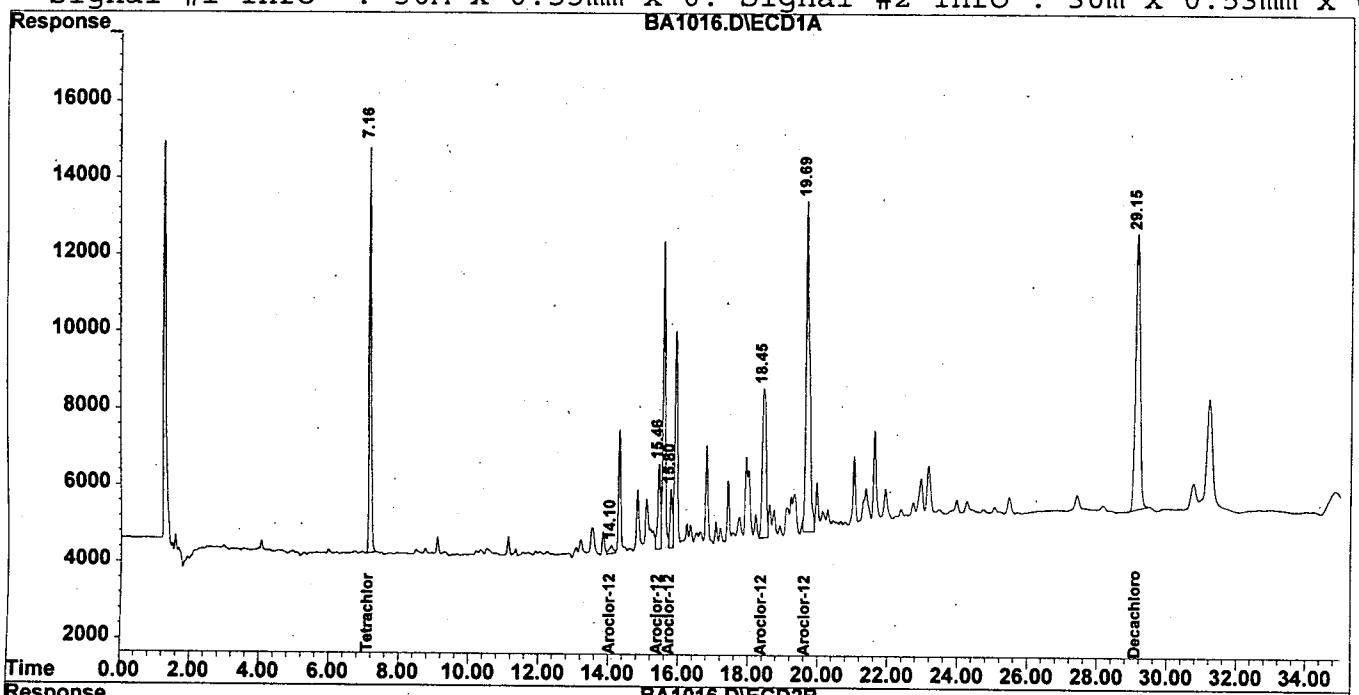
Quantitation Report

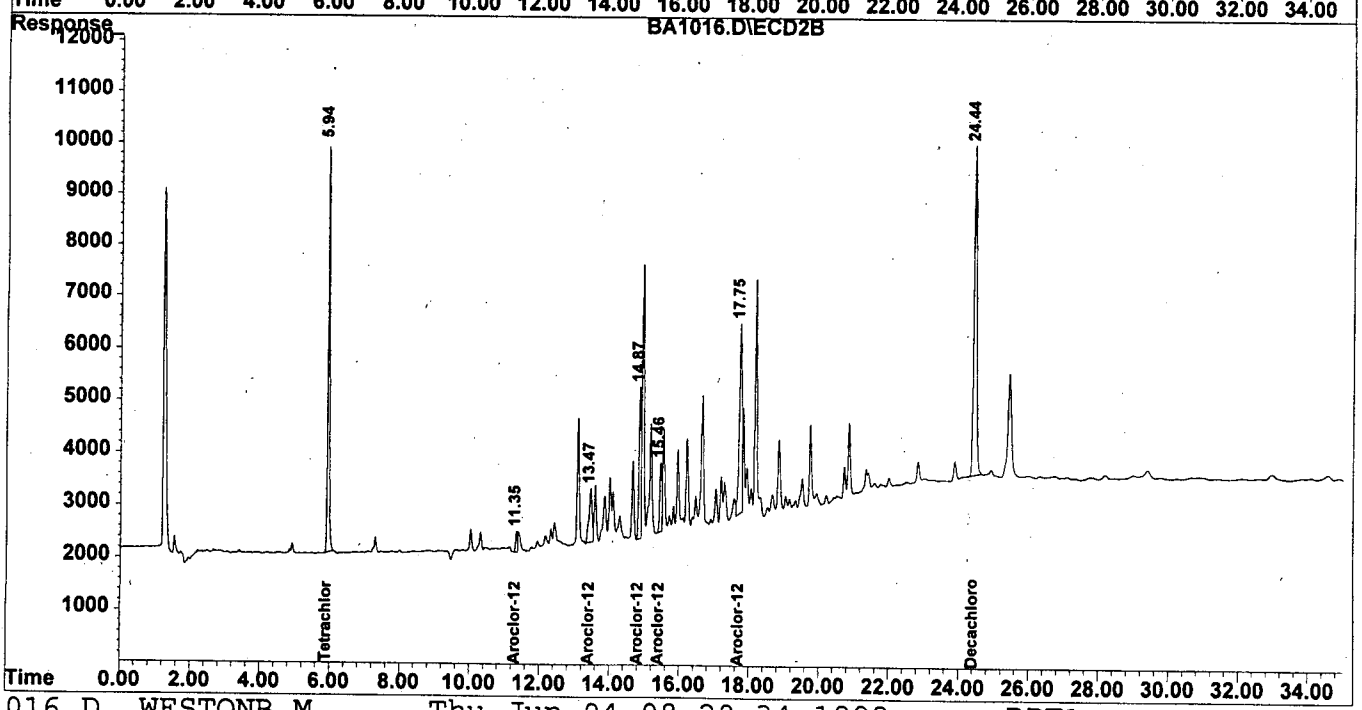
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1016.D\ECD1A.CH Vial: 21
Signal #2 : E:\WESTDA~1\BA1016.D\ECD2B.CH
Acq On : 18 Dec 97 00:57 Operator:
Sample : 278435 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:29 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278436
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTNS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	53%

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	71	35
Aroclor-1221	U	U	140	99
Aroclor-1232	U	U	71	57
Aroclor-1242	U	U	71	35
Aroclor-1248	U	U	71	42
Aroclor-1254	64 ~~60~~J	U	71	50
Aroclor-1260	U J	U	71	57

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.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1018.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_B\BA1018.D\ECD2B.CH
Acq On : 18 Dec 97 2:14 Operator:
Sample : 278436 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:23 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	7.16	5.94	416236	258644	45.947	39.933
Spiked Amount 40.000 Range 43 - 150 Recovery =					114.87%	99.83%
2) SA Decachlorobiphen	29.15	24.44	635099	397482	42.203	44.571
Spiked Amount 40.000 Range 24 - 154 Recovery =					105.51%	111.43%
Target Compounds						
6) L1 Aroclor-1016{4}	0.00	12.17	0	9323	N.D.	36.342 #
7) L1 Aroclor-1016{5}	13.22	14.02	12998	20681	39.806	140.229 #
Sum Aroclor-1016			12998	30004	39.806	176.571
Average Aroclor-1016					39.806	88.286
					NP	NP
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
13) L3 Aroclor-1232{3}	0.00	11.41	0	17673	N.D.	212.163 #
Sum Aroclor-1232			0	17673	N.D.	212.163
Average Aroclor-1232					0.000	212.163
18) L4 Aroclor-1242{4}	0.00	12.33	0	5739	N.D.	24.802 #
19) L4 Aroclor-1242{5}	0.00	14.30	0	14942	N.D.	167.187 #
Sum Aroclor-1242			0	20682	N.D.	191.989
Average Aroclor-1242					0.000	95.994
21) L5 Aroclor-1248{2}	0.00	12.33	0	5739	N.D.	16.936 #
23) L5 Aroclor-1248{4}	0.00	13.45	0	32798	N.D.	121.890 #
Sum Aroclor-1248			0	38537	N.D.	138.826
Average Aroclor-1248					0.000	69.413
						NP
25) L6 Aroclor-1254{1}	14.09	11.41	9214	17673	67.883m	80.163
26) L6 Aroclor-1254{2}	15.47	13.45	35031	32798	95.017	78.319
27) L6 Aroclor-1254{3}	15.80	14.87	25177	32276	54.631	215.911 #
28) L6 Aroclor-1254{4}	18.44	15.47	76914	51110	189.775	105.180 #
29) L6 Aroclor-1254{5}	19.76	17.76	64318	75137	74.528	165.340 #
Sum Aroclor-1254			210653	208994	481.833	644.913
Average Aroclor-1254					96.367	128.983

326

(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\BA1018.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_B\BA1018.D\ECD2B.CH
Acq On : 18 Dec 97 2:14 Operator:
Sample : 278436 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:23 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
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

327

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1018.D\ECD1A.CH Vial: 23
Signal #2 : E:\WESTDA~1\BA1018.D\ECD2B.CH
Acq On : 18 Dec 97 2:14 Operator:
Sample : 278436 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:30 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	7.16	5.94	407848	252801	43.842	41.835
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.61%	104.59%
2) SA Decachlorobiphen	29.15	24.44	635715	374404	42.095	45.068
Spiked Amount 40.000 Range 24 - 154 Recovery =					105.24%	112.67%
Target Compounds						
3) L6 Aroclor-1254{1}	14.09	11.37	11056	6042	81.481m	27.194m#
4) L6 Aroclor-1254{2}	15.47	13.45	31460	24139	82.017	57.595 #
5) L6 Aroclor-1254{3}	15.80	14.87	19581	32477	37.200	216.612 #
6) L6 Aroclor-1254{4}	18.44	15.47	62268	13619	145.220	27.383 #
7) L6 Aroclor-1254{5}	19.76	17.76	64496	60663	74.266	126.600 #
Sum Aroclor-1254			188860	136939	420.185	455.385
Average Aroclor-1254					84.037	91.077

7/23 6/4/98 327A

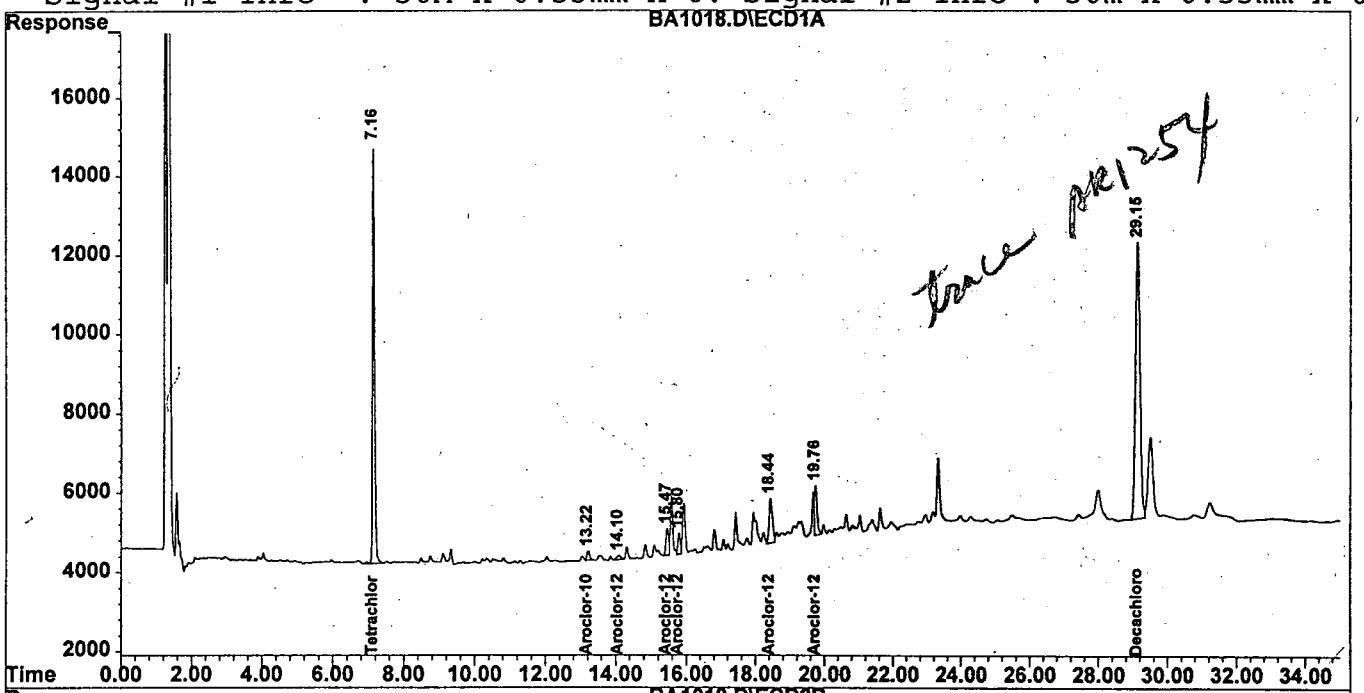
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

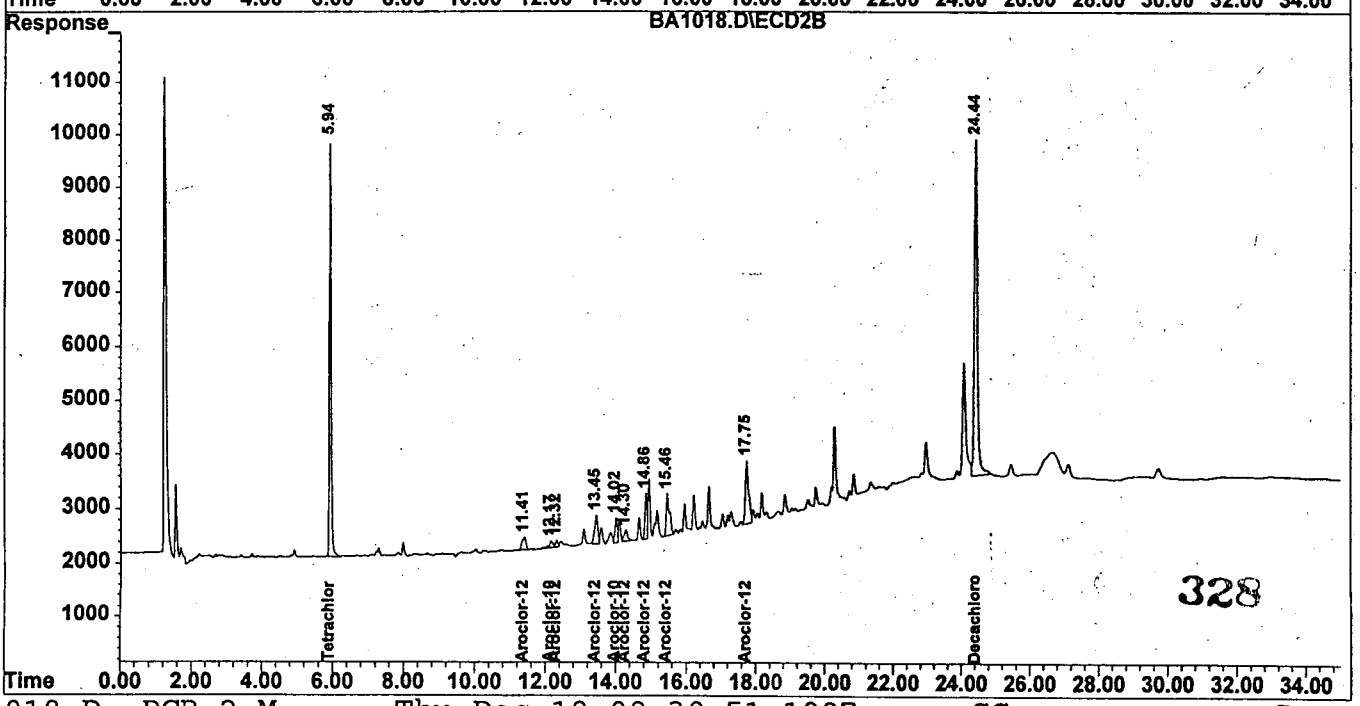
Signal #1 : C:\HPCHEM\1\DATA_B\BA1018.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_B\BA1018.D\ECD2B.CH
Acq On : 18 Dec 97 2:14 Operator:
Sample : 278436 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:23 1997 Quant Results 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



trace PR1254



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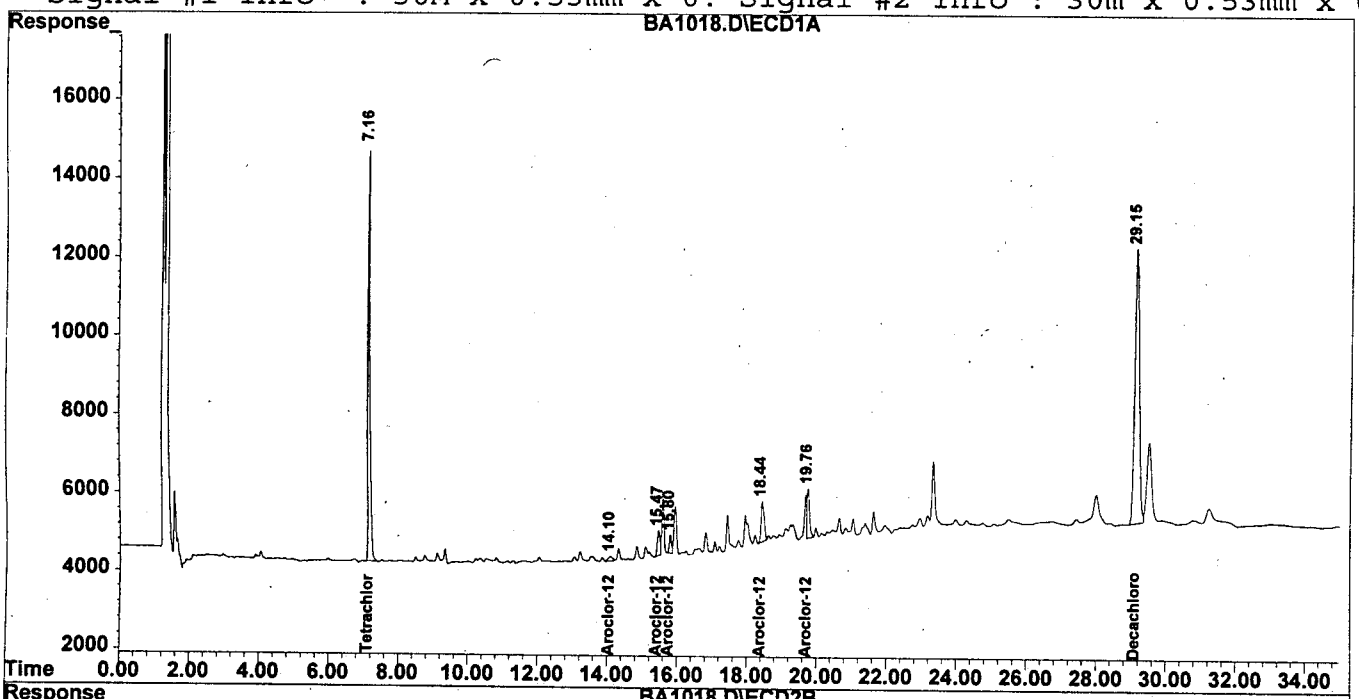
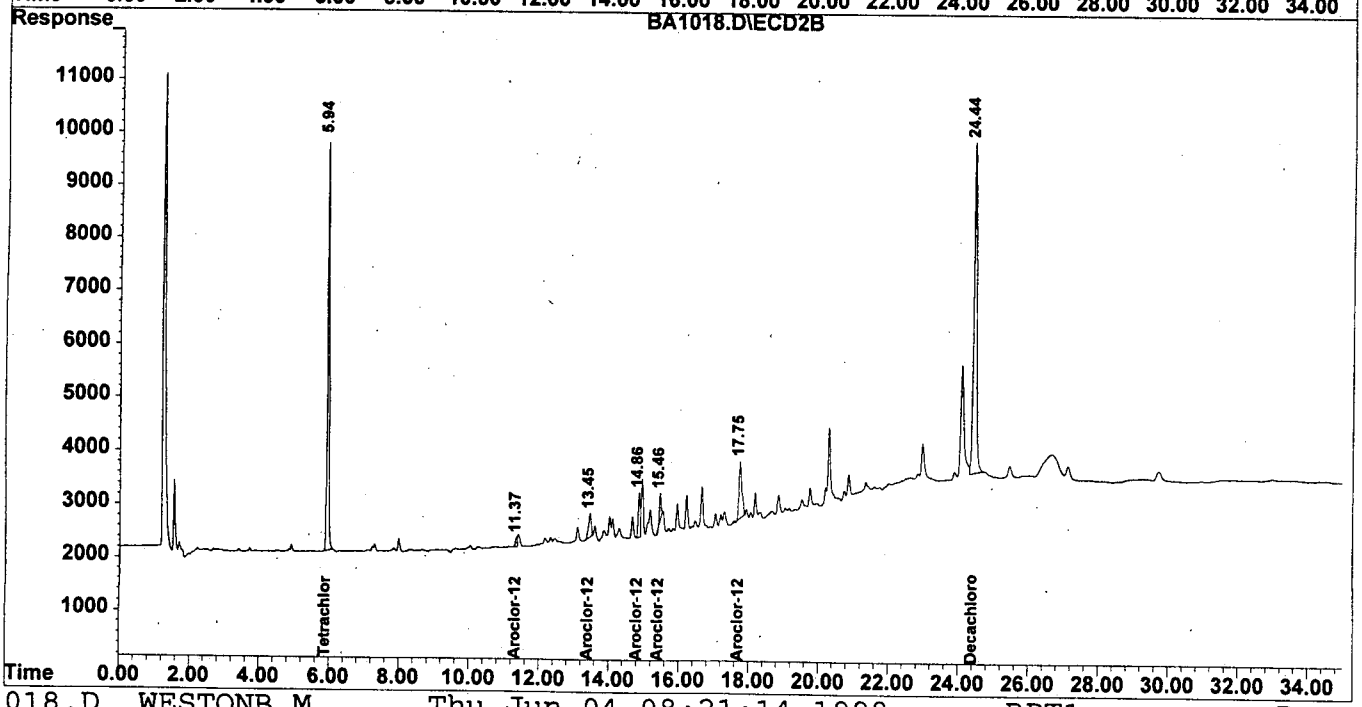
Quantitation Report AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1018.D\ECD1A.CH Vial: 23
Signal #2 : E:\WESTDA~1\BA1018.D\ECD2B.CH
Acq On : 18 Dec 97 2:14 Operator:
Sample : 278436 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:30 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 23, 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: 278437
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTND2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	13.2%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	UJ	U	38	19
Aroclor-1221	U	U	77	54
Aroclor-1232	U	U	38	31
Aroclor-1242	U	U	38	19
Aroclor-1248	U	U	38	23
Aroclor-1254	U	U	38	27
Aroclor-1260	UJ	U	38	31

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.

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Thomas Mancuso, Lab Mgr.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1019.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA1019.D\ECD2B.CH
Acq On : 18 Dec 97 2:52 Operator:
Sample : 278437 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:09 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	7.16	5.94	405944	259272	44.811	40.030
Spiked Amount 40.000 Range 43 - 150 Recovery =					112.03%	100.08%
2) SA Decachlorobiphen	29.16	24.45	655329	365975	43.547	41.038
Spiked Amount 40.000 Range 24 - 154 Recovery =					108.87%	102.60%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
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
27) L6 Aroclor-1254{3}	0.00	14.87	0	5040	N.D.	33.713 #
28) L6 Aroclor-1254{4}	18.48	0.00	15153	0	37.388	N.D. #
29) L6 Aroclor-1254{5}	0.00	17.76	0	10022	N.D.	22.054 #
Sum Aroclor-1254			15153	15062	37.388	55.767
Average Aroclor-1254					37.388	27.883
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

330

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1019.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\BA1019.D\ECD2B.CH
Acq On : 18 Dec 97 2:52 Operator:
Sample : 278437 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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	7.16	5.94	406075	255933	43.651	42.354
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.13%	105.89%
2) SA Decachlorobiphen	29.16	24.45	648508	363843	42.942	43.797
Spiked Amount 40.000 Range 24 - 154 Recovery =					107.36%	109.49%
Target Compounds						
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000

330A

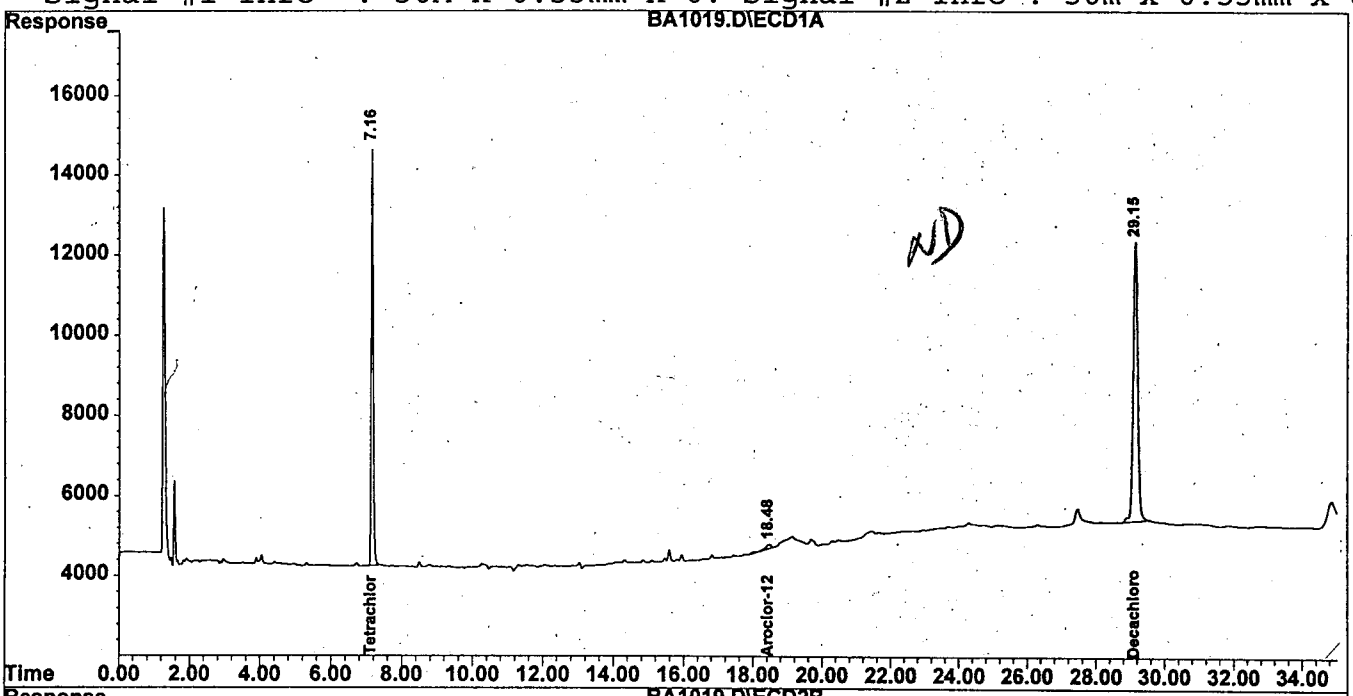
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

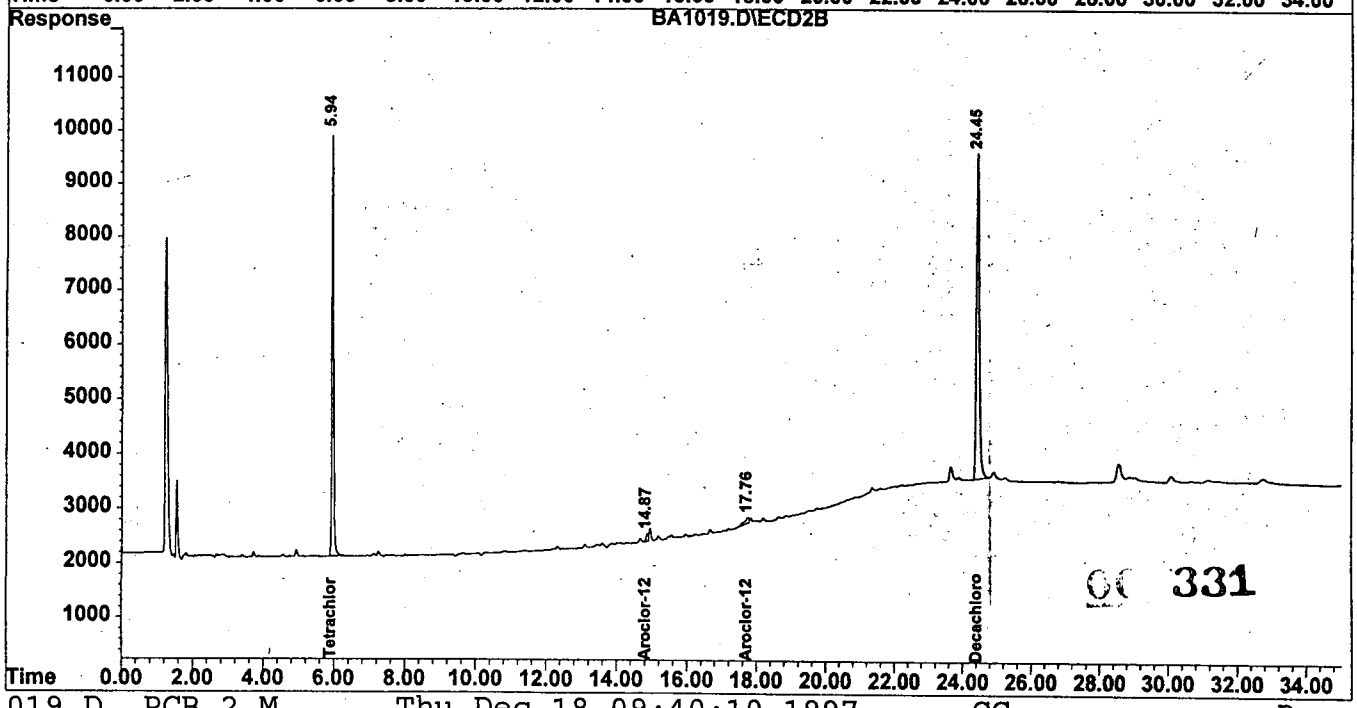
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1019.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA1019.D\ECD2B.CH
Acq On : 18 Dec 97 2:52 Operator:
Sample : 278437 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:09 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





GC 331

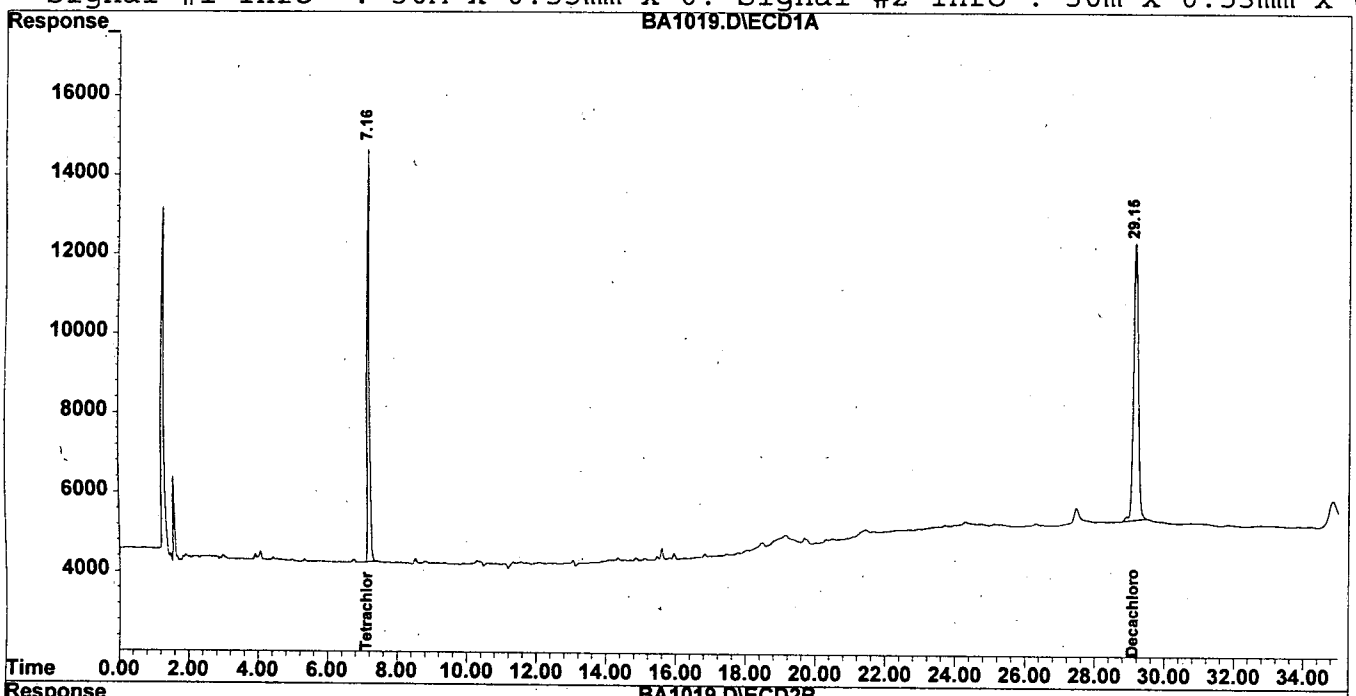
Quantitation Report

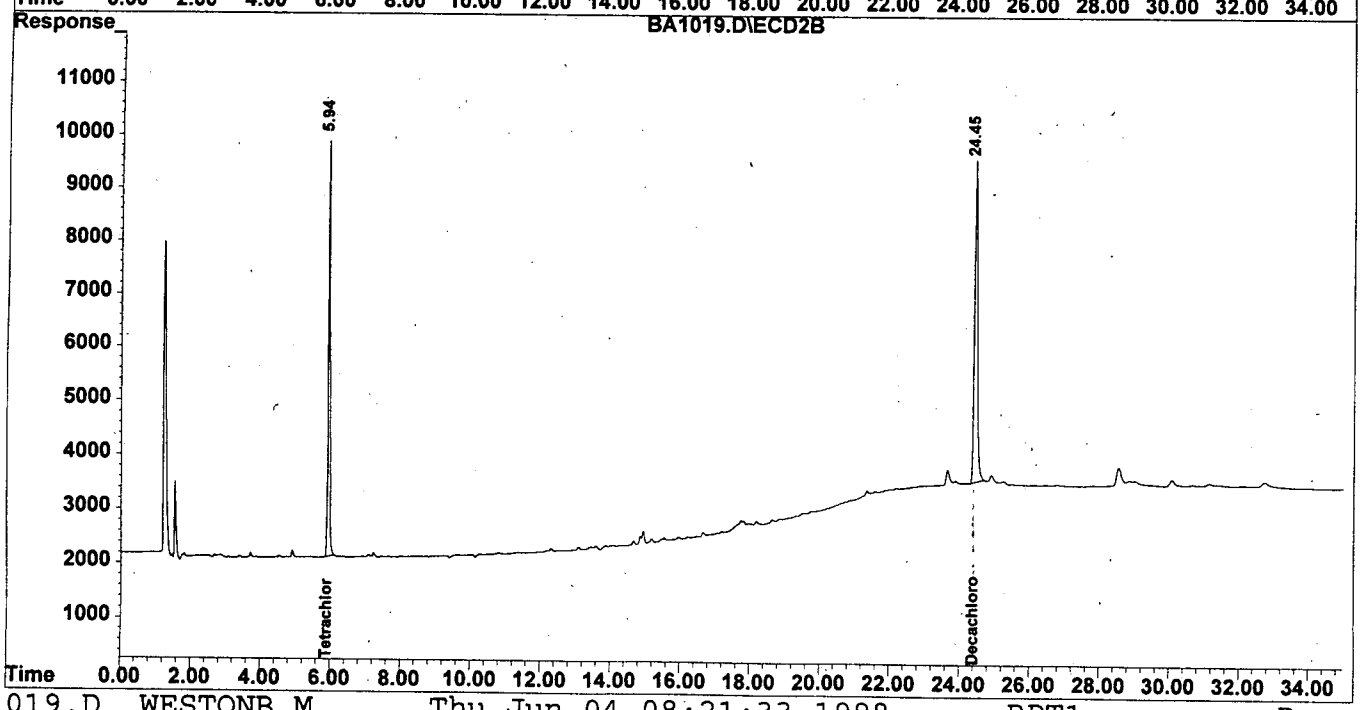
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1019.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\BA1019.D\ECD2B.CH
Acq On : 18 Dec 97 2:52 Operator:
Sample : 278437 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:23 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278438
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTSS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7404	Column used:	DB 1701/DB 608
Extraction date:	12/17/97	Analysis date:	12/22/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	32.05%

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	200
Aroclor-1242	U	U	240	120
Aroclor-1248	U	U	240	150
Aroclor-1254	2500	U	240	170
Aroclor-1260	U	U	240	200

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.

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ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1091.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_B\BA1091.D\ECD2B.CH
Acq On : 22 Dec 97 9:55 Operator:
Sample : 278438 1:5 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 23 0:04 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	7.27	5.94	73939	49826	8.162m	7.693	
Spiked Amount 40.000 Range 43 - 150 Recovery =					20.41%#	19.23%#	
2) SA Decachlorobiphen	29.16f	24.43f	183771	116769	12.212m	13.094m	
Spiked Amount 40.000 Range 24 - 154 Recovery =					30.53%	32.74%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.21	8.84	87295	5884	410.101	20.278	#
4) L1 Aroclor-1016{2}	10.71	10.24	11298	20255	23.964	35.781	#
5) L1 Aroclor-1016{3}	12.01	10.74	18284	7655	22.229	28.568	#
6) L1 Aroclor-1016{4}	0.00	12.16	0	45690	N.D.	178.103	#
7) L1 Aroclor-1016{5}	13.28	14.01	67830	164773	207.730	1117.257	#
Sum Aroclor-1016			184707	244257	664.024	1379.927	
Average Aroclor-1016					166.006	275.985	
10) L2 Aroclor-1221{3}	9.21	0.00	87295	0	288.384	N.D.	#
Sum Aroclor-1221			87295	0	288.384	N.D.	
Average Aroclor-1221					288.384	0.000	
12) L3 Aroclor-1232{2}	9.21	10.03	87295	26904	427.154	644.010	#
13) L3 Aroclor-1232{3}	10.71	11.39	11298	48877	52.056	586.750	#
14) L3 Aroclor-1232{4}	12.01	0.00	18284	0	52.086	N.D.	#
Sum Aroclor-1232			116877	75781	531.295	1230.760	
Average Aroclor-1232					177.098	615.380	
15) L4 Aroclor-1242{1}	9.21	0.00	87295	0	476.201	N.D.	#
16) L4 Aroclor-1242{2}	10.71	10.03	11298	26904	30.813	350.525	#
17) L4 Aroclor-1242{3}	0.00	11.14	0	14728	N.D.	91.307	#
18) L4 Aroclor-1242{4}	0.00	12.32	0	21105	N.D.	91.203	#
19) L4 Aroclor-1242{5}	14.16	14.28	42841	94153	117.892	1053.463	#
Sum Aroclor-1242			141434	156891	624.906	1586.498	
Average Aroclor-1242					208.302	396.624	
20) L5 Aroclor-1248{1}	10.71	10.24	11298	20255	58.241	48.631	
21) L5 Aroclor-1248{2}	12.01	12.16	18284	45690	32.680	134.827	#
22) L5 Aroclor-1248{3}	13.28	12.58	67830	55359	164.111	174.888	

(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\BA1091.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_B\BA1091.D\ECD2B.CH
Acq On : 22 Dec 97 9:55 Operator:
Sample : 278438 1:5 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 23 0:04 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}	14.16	13.44	42841	238404	86.314	885.999	#
Sum	Aroclor-1248			140253	359708	341.347	1244.346	
Average	Aroclor-1248					85.337	311.086	
						no	no	
25) L6	Aroclor-1254{1}	14.16	11.34	42841	34954	315.625	158.546	#
2[illegible]) L6	Aroclor-1254{2}	15.52	13.44	732260	238404	1986.166	569.289	#
2[illegible]) L6	Aroclor-1254{3}	15.85	14.86	242762	387056	526.777	2589.193	#
28) L6	Aroclor-1254{4}	18.48	15.45	582856	552077	1438.113	1136.125	
29) L6	Aroclor-1254{5}	19.79	17.74	905216	673672	1048.912	1482.429	#
Sum	Aroclor-1254			2505936	1886163	5315.593	5935.584	
Average	Aroclor-1254					1063.119	1187.117	
3[illegible]) L7	Aroclor-1260{1}	18.07	15.95	367090	272222	705.343	798.711	
3[illegible]) L7	Aroclor-1260{2}	18.48	16.65	582856	302449	946.891	743.949	
32) L7	Aroclor-1260{3}	20.01	17.74	110529	673672	242.236	1306.221	#
3[illegible]) L7	Aroclor-1260{4}	21.08	19.75	263292	170258	565.074	271.913	#
3[illegible]) L7	Aroclor-1260{5}	21.66	20.86	305974	139844	237.350	296.064	
Sum	Aroclor-1260			1629741	1558445	2696.894	3416.858	
Average	Aroclor-1260					539.379	683.372	
						no	no	

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WEST\BA1091.D\ECD1A.CH Vial: 23
Signal #2 : E:\WEST\BA1091.D\ECD2B.CH
Acq On : 22 Dec 97 9:55 Operator:
Sample : 278438 1:5 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 11:57 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	7.27	5.94	69282	49311	7.448	8.160
Spiked Amount 40.000 Range 43 - 150 Recovery =					18.62%#	20.40%#
2) SA Decachlorobiphen	29.16f	24.43f	175727	116665	11.636m	14.043m
Spiked Amount 40.000 Range 24 - 154 Recovery =					29.09%	35.11%
Target Compounds						
3) L6 Aroclor-1254{1}	~~14.16~~	~~11.39~~	34882	82443	~~257.075~~	~~371.056~~ #
4) L6 Aroclor-1254{2}	~~15.52~~	13.44	730768	238404	~~1905.117~~	568.837 #
5) L6 Aroclor-1254{3}	15.85	~~14.86~~	242012	386941	459.781	~~2580.796~~ #
6) L6 Aroclor-1254{4}	18.48	15.45	582694	550244	1358.957	1106.374
7) L6 Aroclor-1254{5}	19.79	17.74	905214	670328	1042.352	1398.937 #
Sum Aroclor-1254			2495570	1928359	5023.283	6026.000
Average Aroclor-1254					~~1004.657~~	~~1205.200~~
					953.70	1024.716

TB 6/4/98

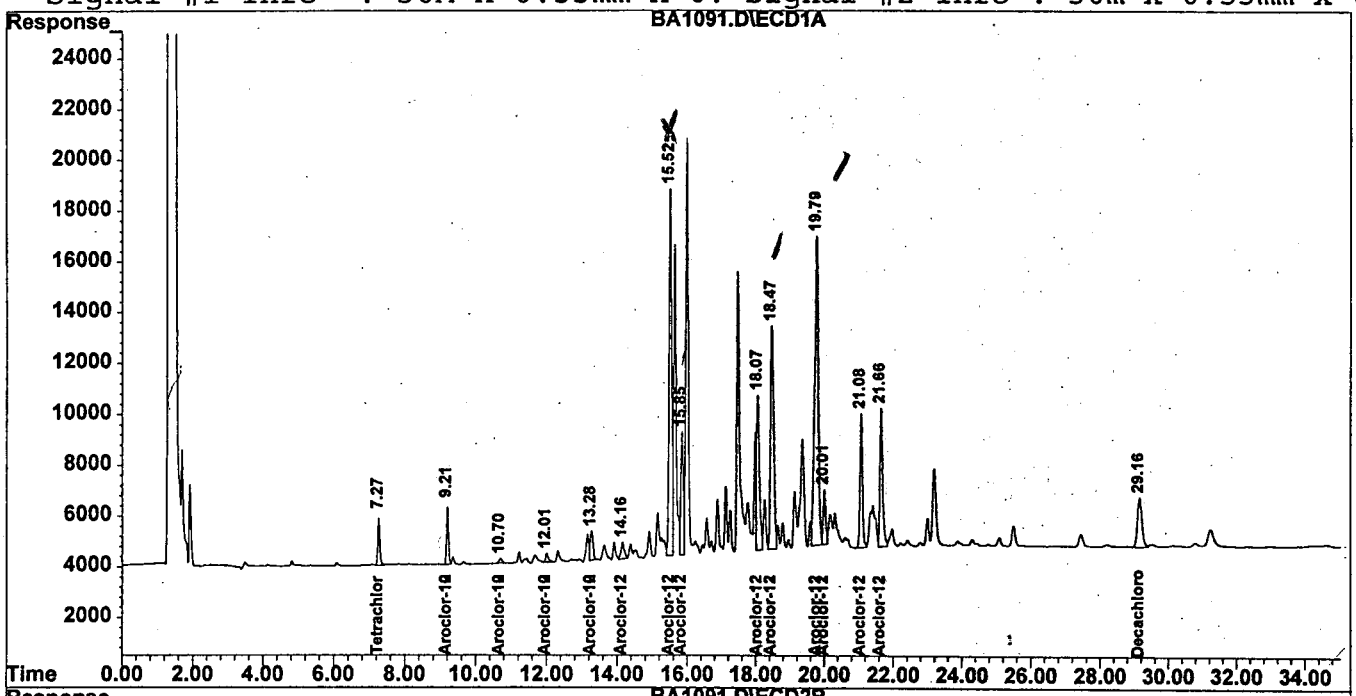
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

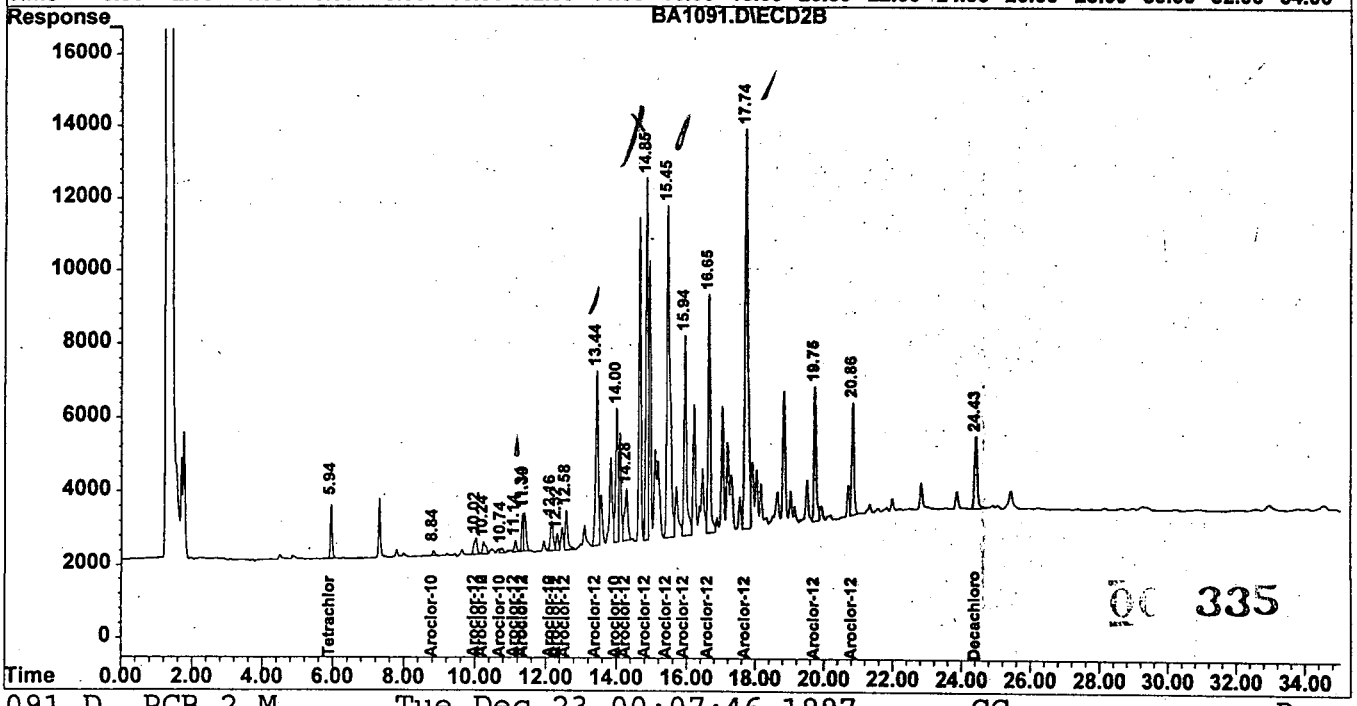
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1091.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_B\BA1091.D\ECD2B.CH
Acq On : 22 Dec 97 9:55 Operator:
Sample : 278438 1:5 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 23 0:04 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





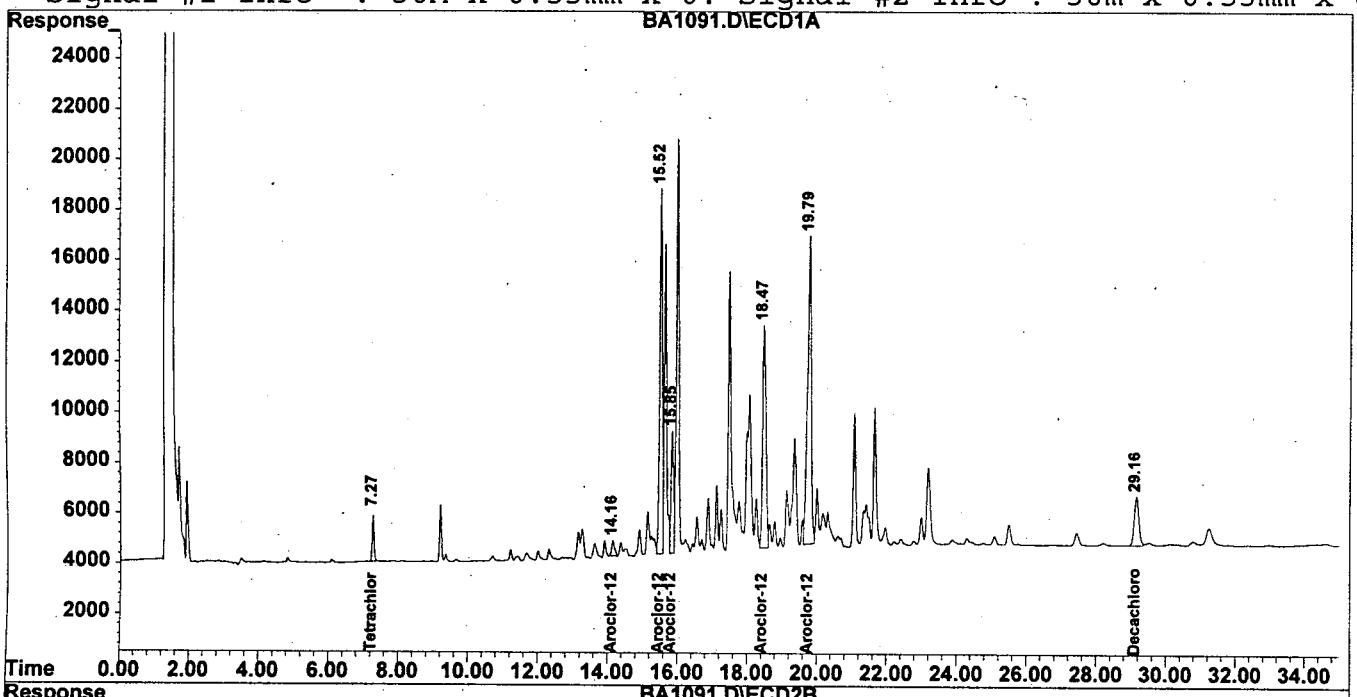
QC 335

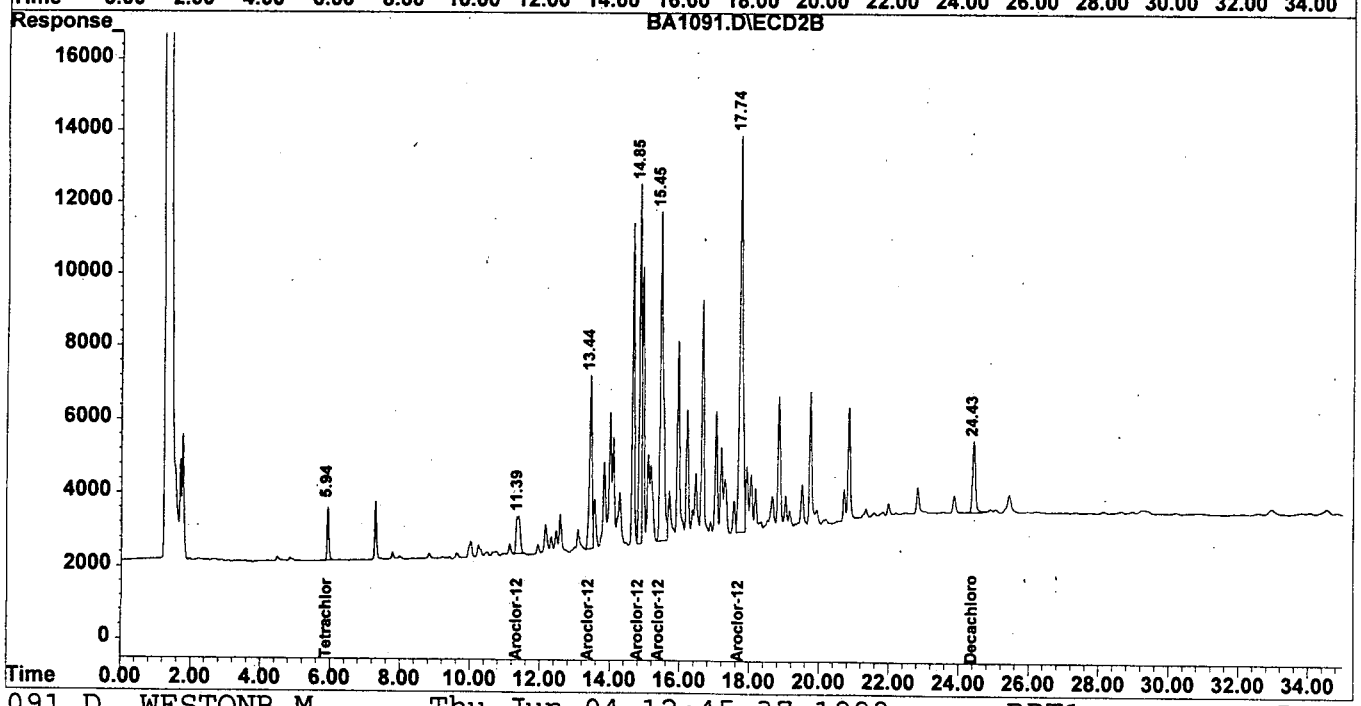
Quantitation Report AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WEST\BA1091.D\ECD1A.CH Vial: 23
Signal #2 : E:\WEST\BA1091.D\ECD2B.CH
Acq On : 22 Dec 97 9:55 Operator:
Sample : 278438 1:5 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 11:57 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278439
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTSD1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	49.51%

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	66	33
Aroclor-1221	U	U	130	92
Aroclor-1232	U	U	66	53
Aroclor-1242	U	U	66	33
Aroclor-1248	U	U	66	40
Aroclor-1254	~~2100~~ 2300	U	66	46
Aroclor-1260	U J	U	66	53

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.
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ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1021.D\ECD1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA_B\BA1021.D\ECD2B.CH
Acq On : 18 Dec 97 4:10 Operator:
Sample : 278439 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:25 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	7.16	5.94	385442	246743	42.548	38.095	
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.37%	95.24%	
2) SA Decachlorobiphen	29.15	24.44	778177	417691	51.710m	46.837m	
Spiked Amount 40.000 Range 24 - 154 Recovery =					129.28%	117.09%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.11	8.84	52179	18296	245.129	62.870	#
4) L1 Aroclor-1016{2}	0.00	10.25	0	57905	N.D.	102.291	#
5) L1 Aroclor-1016{3}	11.93	10.66	77627	52395	94.375	195.546	#
6) L1 Aroclor-1016{4}	0.00	12.17	0	321019	N.D.	1251.342	#
7) L1 Aroclor-1016{5}	13.22	14.01	476965	835849	1460.709	5667.542	#
Sum Aroclor-1016			606771	1285464	1800.214	7279.591	
Average Aroclor-1016					600.071	1455.918	
9) L2 Aroclor-1221{2}	0.00	7.47	0	5183	N.D.	73.497	#
10) L2 Aroclor-1221{3}	9.26	0.00	58513	0	193.300	N.D.	#
Sum Aroclor-1221			58513	5183	193.300	73.497	
Average Aroclor-1221					193.300	73.497	
12) L3 Aroclor-1232{2}	9.26	10.04	58513	96935	286.315	2320.370	#
14) L3 Aroclor-1232{4}	11.93	13.20	77627	48510	221.139	857.455	#
Sum Aroclor-1232			136140	145445	507.454	3177.825	
Average Aroclor-1232					253.727	1588.912	
15) L4 Aroclor-1242{1}	9.26	0.00	58513	0	319.191	N.D.	#
16) L4 Aroclor-1242{2}	0.00	10.04	0	96935	N.D.	1262.942	#
17) L4 Aroclor-1242{3}	11.37	11.08	44668	16972	402.901	105.219	#
19) L4 Aroclor-1242{5}	0.00	14.29	0	440760	N.D.	4931.567	#
Sum Aroclor-1242			103180	554667	722.092	6299.728	
Average Aroclor-1242					361.046	2099.909	
22) L5 Aroclor-1248{3}	0.00	12.58	0	91027	N.D.	287.569	#
23) L5 Aroclor-1248{4}	0.00	13.45	0	912053	N.D.	3389.536	#
24) L5 Aroclor-1248{5}	16.18	15.62	129525	51115	343.555	405.831	
Sum Aroclor-1248			129525	1054195	343.555	4082.935	
Average Aroclor-1248					343.555	1360.978	

337

(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\BA1021.D\ECD1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA_B\BA1021.D\ECD2B.CH
Acq On : 18 Dec 97 4:10 Operator:
Sample : 278439 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:25 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}	14.10	11.34	416499	685666	3068.498	3110.056	
26) L6	Aroclor-1254{2}	15.48	13.45	1346897	912053	3653.294	2177.910	#
2[illegible]) L6	Aroclor-1254{3}	15.80	14.86	1343867	666967	2916.097	4461.646	#
2[illegible]) L6	Aroclor-1254{4}	18.44	15.46	1615406	1775679	3985.780	3654.190	
29) L6	Aroclor-1254{5}	19.76	17.75	3220698	2188532	3731.959	4815.910	#
Sum	Aroclor-1254			7943367	6228897	17355.628	18219.711	
Average	Aroclor-1254					3471.126	3643.942	
31) L7	Aroclor-1260{2}	18.61	0.00	183016	0	297.323	N.D.	#
3[illegible]) L7	Aroclor-1260{3}	20.16	0.00	423266	0	927.632	N.D.	#
Sum	Aroclor-1260			606282	0	1224.955	N.D.	
Average	Aroclor-1260					612.477	0.000	

NP

QC 338

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 05 1998

Signal #1 : E:\WEST\BA1021.D\ECD1A.CH Vial: 26
Signal #2 : E:\WEST\BA1021.D\ECD2B.CH
Acq On : 18 Dec 97 4:10 Operator:
Sample : 278439 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 11:51 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	7.16	5.94	385505	242380	41.440	40.111
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.60%	100.28%
2) SA Decachlorobiphen	29.15f	24.44f	834003	429979	55.224m	51.758m
Spiked Amount 40.000 Range 24 - 154 Recovery =					138.06%	129.40%
Target Compounds						
3) L6 Aroclor-1254{1}	14.10	11.34	386384	671854	2847.584m	3023.868
4) L6 Aroclor-1254{2}	15.48	13.45	1312448	900625	3421.559	2148.908 #
5) L6 Aroclor-1254{3}	15.80	14.86	1316578	655401	2501.272	4371.361 #
6) L6 Aroclor-1254{4}	18.44	15.46	1592233	1759536	3713.404	3537.894
7) L6 Aroclor-1254{5}	19.76	17.75	3199726	2170305	3684.479	4529.306
Sum Aroclor-1254			7807370	6157721	~~16168.297~~	~~17611.336~~
Average Aroclor-1254					3233.659	3522.267

%D = 8.5

338A

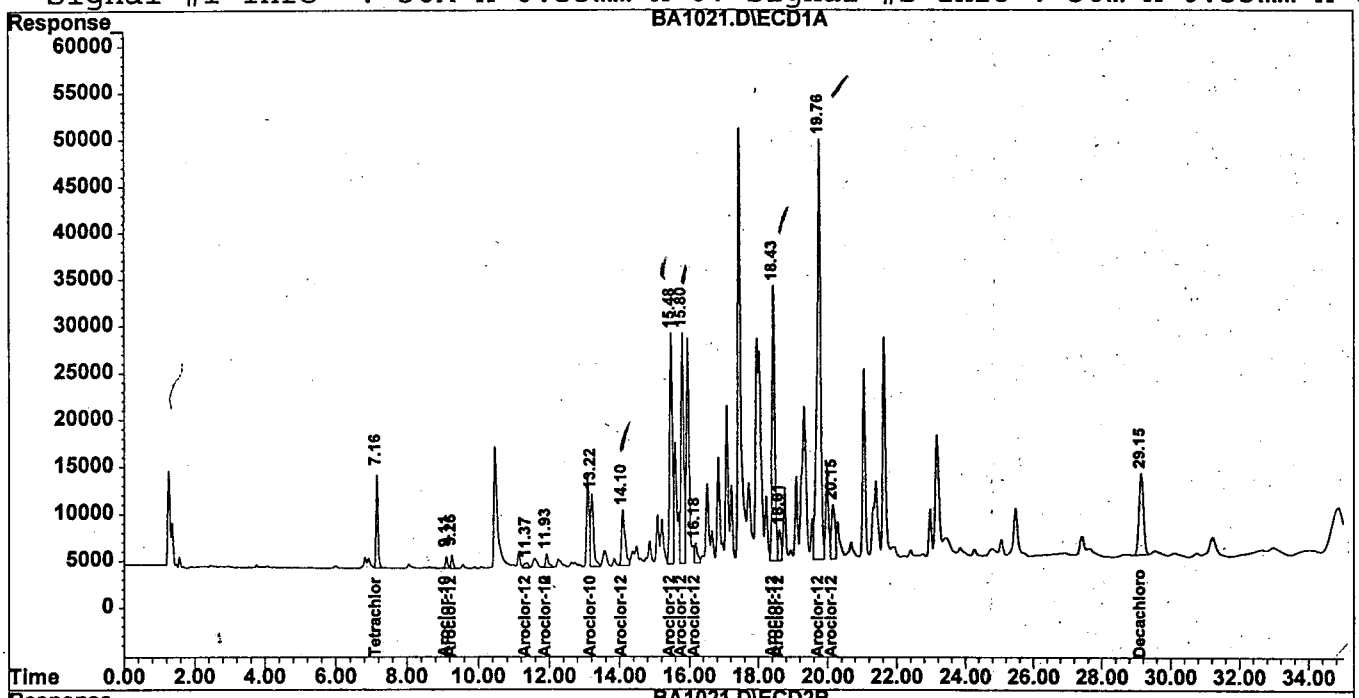
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

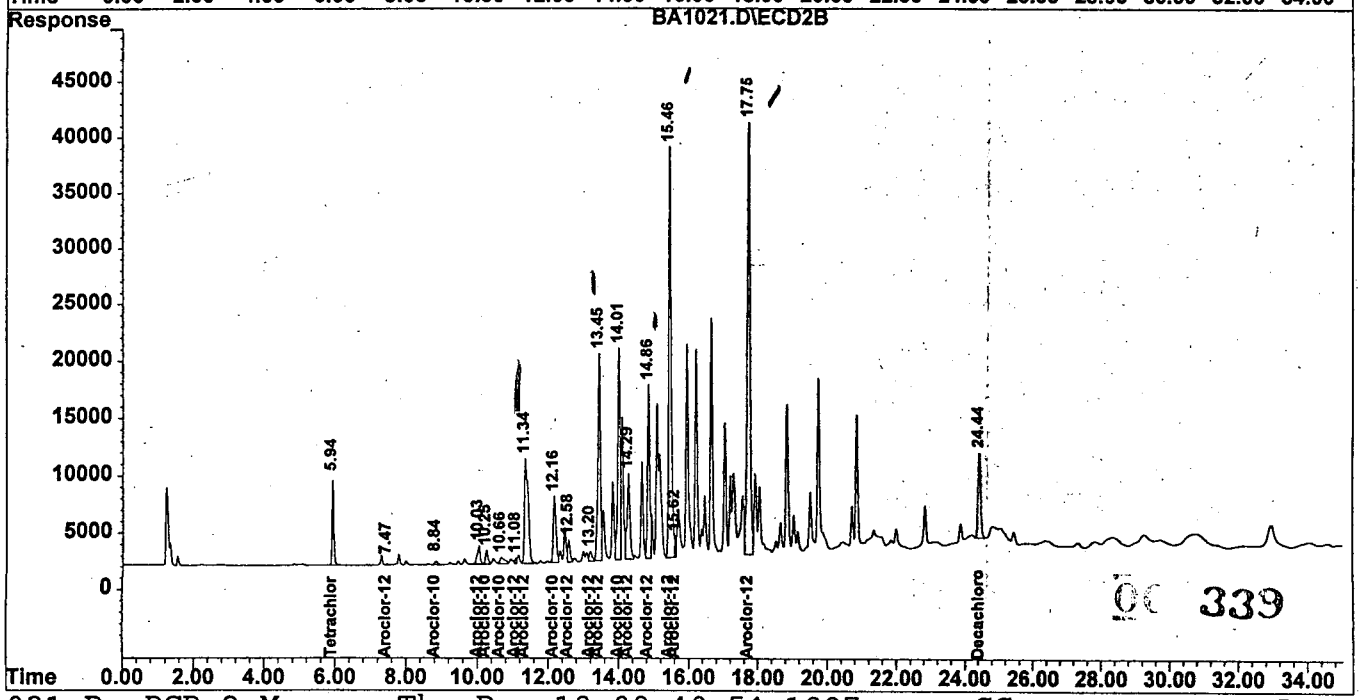
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1021.D\ECD1A.CH Vial: 26
Signal #2 : C:\HPCHEM\1\DATA_B\BA1021.D\ECD2B.CH
Acq On : 18 Dec 97 4:10 Operator:
Sample : 278439 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 18 9:25 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





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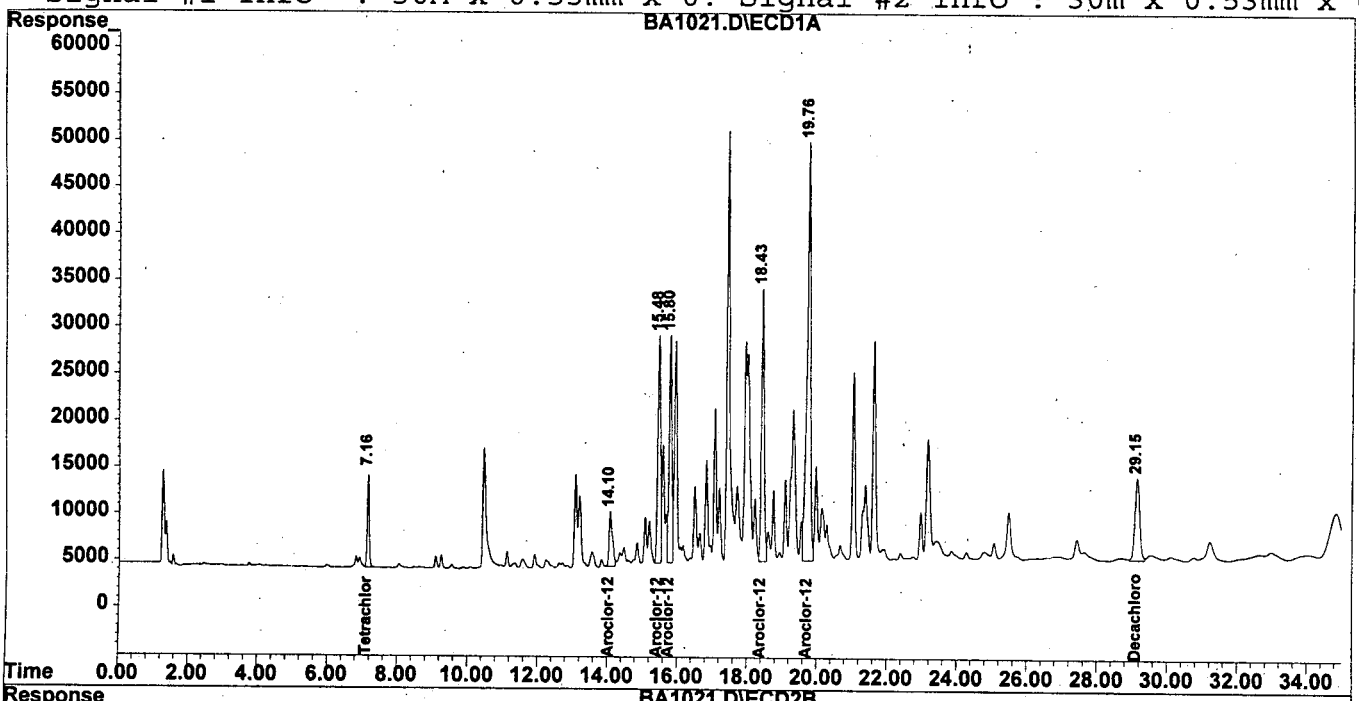
Quantitation Report

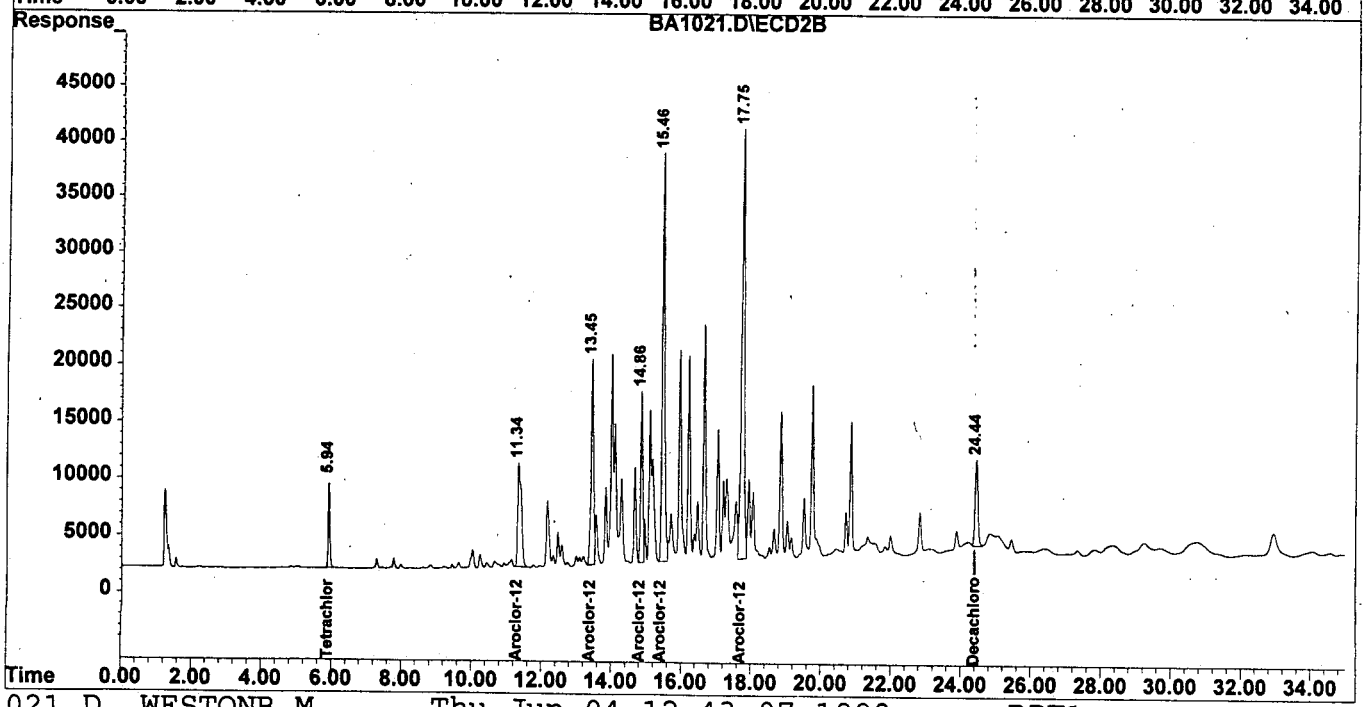
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WEST\BA1021.D\ECD1A.CH Vial: 26
Signal #2 : E:\WEST\BA1021.D\ECD2B.CH
Acq On : 18 Dec 97 4:10 Operator:
Sample : 278439 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 11:51 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





339A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 19, 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: 278440
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTSS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	31.33%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	48	24
Aroclor-1221	U	U	97	68
Aroclor-1232	U	U	48	39
Aroclor-1242	U	U	48	24
Aroclor-1248	U	U	48	29
Aroclor-1254	U	U	48	34
Aroclor-1260	1400	U	48	39

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.
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NEE

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1035.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA_B\BA1035.D\ECD2B.CH
Acq On : 18 Dec 97 21:21 Operator:
Sample : 278440 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:22 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	7.21	5.95	369785	252677	40.819	39.011
Spiked Amount 40.000 Range 43 - 150 Recovery =					102.05%	97.53%
2) SA Decachlorobiphen	29.18	24.46	1887708	1170402	125.439	131.242
Spiked Amount 40.000 Range 24 - 154 Recovery =					313.60%#	328.11%#
Target Compounds						
3) L1 Aroclor-1016{1}	9.15	8.83	42877	11744	201.429	40.354 #
4) L1 Aroclor-1016{2}	0.00	10.32	0	57298	N.D.	101.218 #
5) L1 Aroclor-1016{3}	11.97	10.66	13226	11355	16.079	42.380 #
6) L1 Aroclor-1016{4}	0.00	12.17	0	119102	N.D.	464.265 #
7) L1 Aroclor-1016{5}	13.23	14.02	202454	353632	620.016	2397.834 #
Sum Aroclor-1016			258556	553132	837.524	3046.051
Average Aroclor-1016					279.175	609.210
9) L2 Aroclor-1221{2}	0.00	7.48	0	5350	N.D.	75.861 #
10) L2 Aroclor-1221{3}	9.15	0.00	42877	0	141.646	N.D. #
Sum Aroclor-1221			42877	5350	141.646	75.861
Average Aroclor-1221					141.646	75.861
12) L3 Aroclor-1232{2}	9.15	10.05	42877	144365	209.805	3455.736 #
13) L3 Aroclor-1232{3}	0.00	11.40	0	132392	N.D.	1589.320 #
14) L3 Aroclor-1232{4}	11.97	0.00	13226	0	37.676	N.D. #
Sum Aroclor-1232			56102	276757	247.481	5045.055
Average Aroclor-1232					123.741	2522.528
15) L4 Aroclor-1242{1}	9.15	0.00	42877	0	233.896	N.D. #
16) L4 Aroclor-1242{2}	0.00	10.05	0	144365	N.D.	1880.904 #
17) L4 Aroclor-1242{3}	11.40	11.15	86910	45251	783.920	280.531 #
19) L4 Aroclor-1242{5}	14.13	14.24	80493	284379	221.507	3181.856 #
Sum Aroclor-1242			210280	473995	1239.322	5343.291
Average Aroclor-1242					413.107	1781.097
21) L5 Aroclor-1248{2}	11.97	12.17	13226	119102	23.639	351.458 #
22) L5 Aroclor-1248{3}	13.23	12.48	202454	113781	489.825	359.452 #
23) L5 Aroclor-1248{4}	14.13	13.46	80493	475389	162.175	1766.726 #

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(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\BA1035.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA_B\BA1035.D\ECD2B.CH
Acq On : 18 Dec 97 21:21 Operator:
Sample : 278440 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:22 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	15.47	0	757334	N.D.	6012.867 #
Sum	Aroclor-1248			296173	1465606	675.640	8490.502
Average	Aroclor-1248					225.213	2122.626
						no	no
25) L6	Aroclor-1254{1}	14.13	11.36	80493	76981	593.025	349.174 #
26) L6	Aroclor-1254{2}	15.49	13.46	3296108	475389	8940.291	1135.190 #
27) L6	Aroclor-1254{3}	15.83	14.87	526292	2272813	1142.017	15203.891 #
28) L6	Aroclor-1254{4}	18.46	15.47	2311873	757334	5704.210	1558.525 #
29) L6	Aroclor-1254{5}	19.78	17.76	2167188	2249649	2511.212	4950.400 #
Sum	Aroclor-1254			8381954	5832166	18890.755	23197.180
Average	Aroclor-1254					3778.151	4639.436
						no	no
30) L7	Aroclor-1260{1}	18.05	15.96	1594504	821167	3063.750	2409.343
31) L7	Aroclor-1260{2}	18.46	16.66	2311873	1051104	3755.800	2585.452 #
32) L7	Aroclor-1260{3}	20.00	17.76	1227564	2249649	2690.334	4361.970 #
33) L7	Aroclor-1260{4}	21.07	19.77	1366633	1703714	2933.052	2720.937
34) L7	Aroclor-1260{5}	21.66	20.88	2920924	1365419	2265.822	2890.742 #
Sum	Aroclor-1260			9421498	7191053	14708.758	14968.444
Average	Aroclor-1260					2941.752	2993.689

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TPZ 12/17/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1035.D\ECD1A.CH Vial: 8
Signal #2 : E:\WESTDA~1\BA1035.D\ECD2B.CH
Acq On : 18 Dec 97 21:21 Operator:
Sample : 278440 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:24 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	7.21	5.95	363577	248073	39.083	41.053
Spiked Amount 40.000 Range 43 - 150 Recovery =					97.71%	102.63%
2) SA Decachlorobiphen	29.18	24.46	1887708	1155597	124.997	139.102
Spiked Amount 40.000 Range 24 - 154 Recovery =					312.49%#	347.76%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.13	11.40	45858	204443	337.968	920.155 #
4) L6 Aroclor-1254{2}	15.49	13.46	3290307	468141	8577.849	1116.994 #
5) L6 Aroclor-1254{3}	15.83	14.87	522474	2263451	992.610	15096.642 #
6) L6 Aroclor-1254{4}	18.46	15.47	2307165	747447	5380.766	1502.890 #
7) L6 Aroclor-1254{5}	19.78	17.76	2164831	2219155	2492.799	4631.253 #
Sum Aroclor-1254			8330635	5902639	17781.993	23267.935
Average Aroclor-1254					3556.399	4653.587

342A

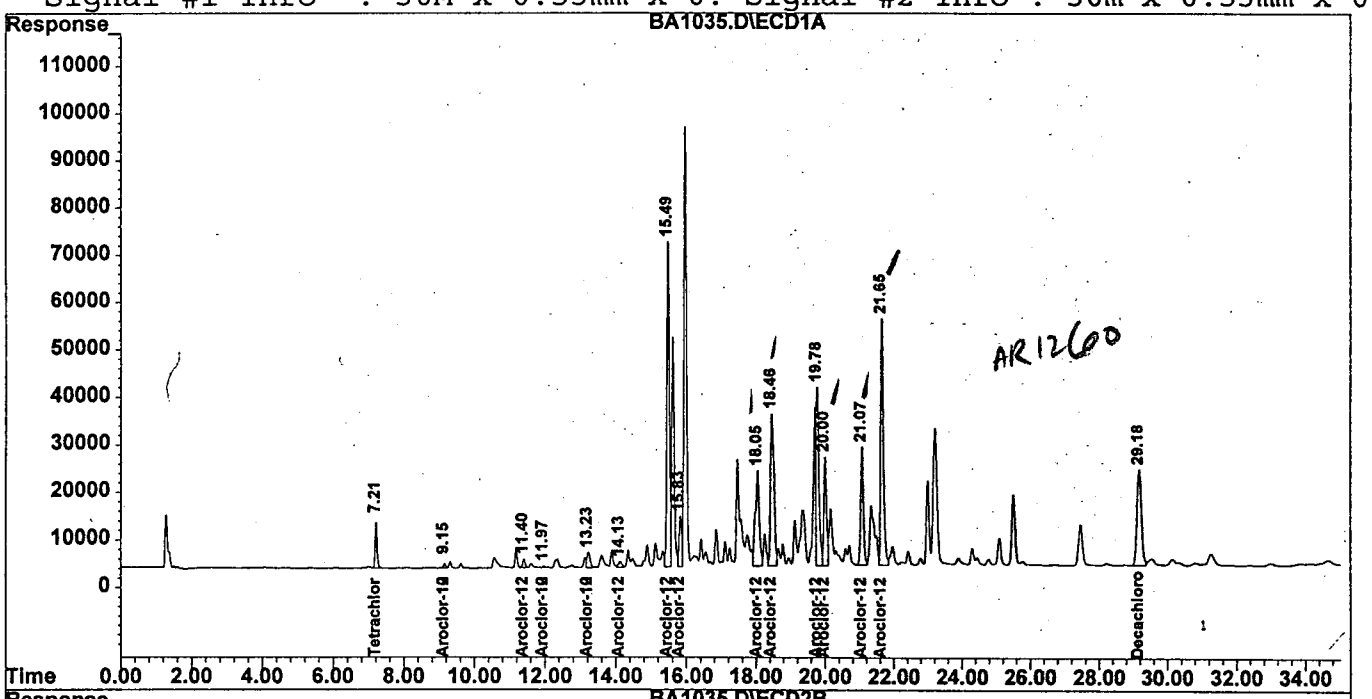
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

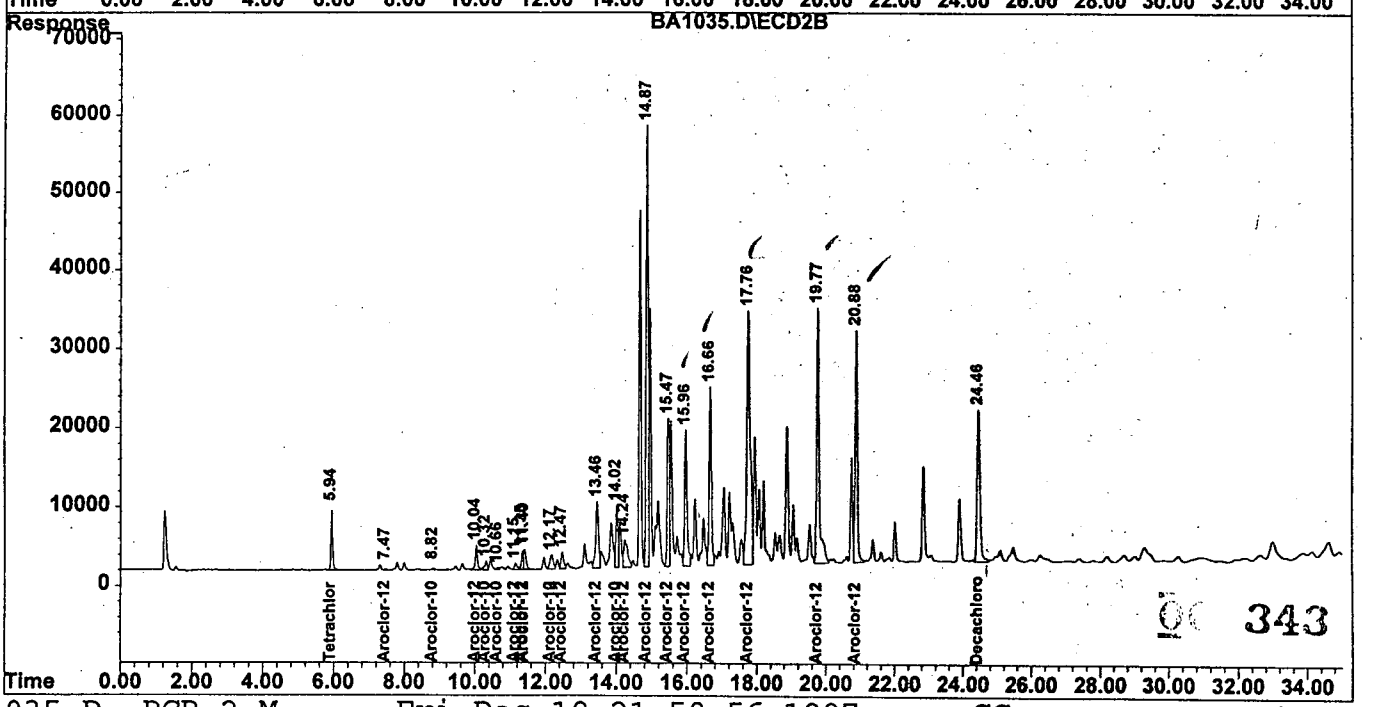
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1035.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA_B\BA1035.D\ECD2B.CH
Acq On : 18 Dec 97 21:21 Operator:
Sample : 278440 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:22 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





DC 343

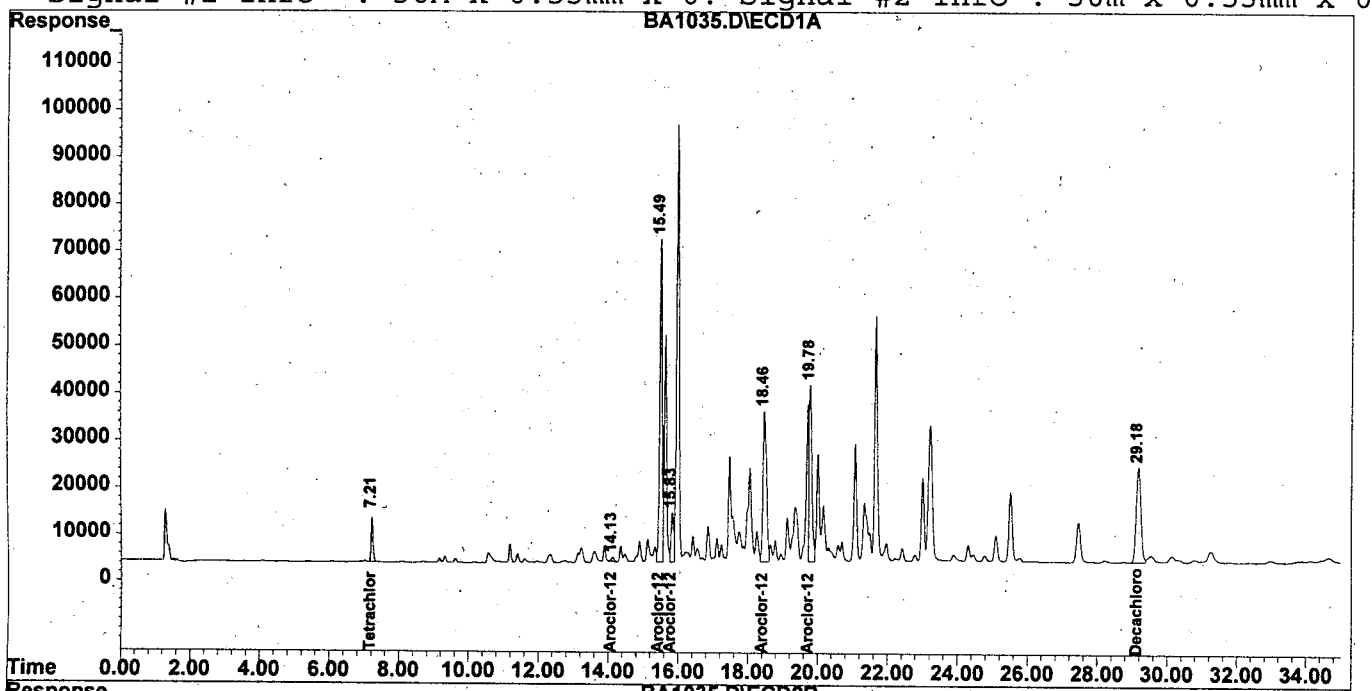
Quantitation Report

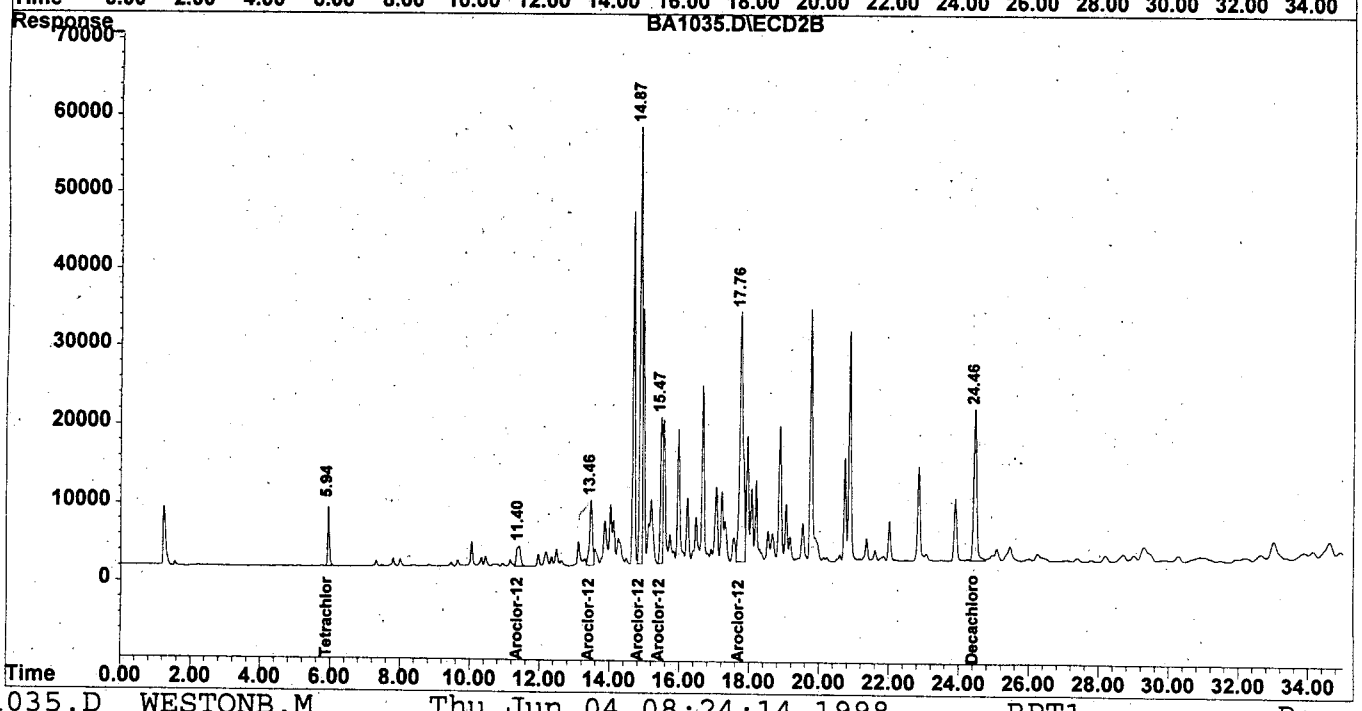
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1035.D\ECD1A.CH Vial: 8
Signal #2 : E:\WESTDA~1\BA1035.D\ECD2B.CH
Acq On : 18 Dec 97 21:21 Operator:
Sample : 278440 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 14:24 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 19, 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: 278441
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTSD2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	28.67%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	47	23
Aroclor-1221	U	U	93	65
Aroclor-1232	U	U	47	37
Aroclor-1242	U	U	47	23
Aroclor-1248	U	U	47	28
Aroclor-1254	U	U	47	33
Aroclor-1260	1200	U	47	37

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.
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NEE

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1036.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA_B\BA1036.D\ECD2B.CH
Acq On : 18 Dec 97 22:00 Operator:
Sample : 278441 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:41 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	7.21	5.95	391188	266326	43.182	41.119
Spiked Amount 40.000 Range 43 - 150 Recovery =					107.96%	102.80%
2) SA Decachlorobiphen	29.18	24.46	1504732	824482	99.990m	92.453m
Spiked Amount 40.000 Range 24 - 154 Recovery =					249.98%#	231.13%#
Target Compounds						
3) L1 Aroclor-1016{1}	9.16	8.81	36620	5560	172.035	19.107 #
6) L1 Aroclor-1016{4}	12.48	12.18	10795	92649	38.557	361.151 #
7) L1 Aroclor-1016{5}	13.22	14.02	79740	188236	244.204	1276.347 #
Sum Aroclor-1016			127154	286445	454.795	1656.604
Average Aroclor-1016					151.598	552.201
					NP	NP
9) L2 Aroclor-1221{2}	0.00	7.48	0	6018	N.D.	85.347 #
10) L2 Aroclor-1221{3}	9.16	7.72	36620	7363	120.976	30.189 #
Sum Aroclor-1221			36620	13382	120.976	115.536
Average Aroclor-1221					120.976	57.768
					NP	NP
12) L3 Aroclor-1232{2}	9.16	10.05	36620	89123	179.188	2133.374 #
13) L3 Aroclor-1232{3}	0.00	11.41	0	106889	N.D.	1283.169 #
14) L3 Aroclor-1232{4}	0.00	13.12	0	89039	N.D.	1573.820 #
Sum Aroclor-1232			36620	285051	179.188	4990.363
Average Aroclor-1232					179.188	1663.454
					NP	NP
15) L4 Aroclor-1242{1}	9.16	0.00	36620	0	199.764	N.D. #
16) L4 Aroclor-1242{2}	0.00	10.05	0	89123	N.D.	1161.163 #
17) L4 Aroclor-1242{3}	11.40	11.15	70727	50024	637.953	310.122 #
19) L4 Aroclor-1242{5}	0.00	14.24	0	320772	N.D.	3589.046 #
Sum Aroclor-1242			107347	459919	837.717	5060.332
Average Aroclor-1242					418.858	1686.777
					NP	NP
21) L5 Aroclor-1248{2}	0.00	12.18	0	92649	N.D	273.398 #
22) L5 Aroclor-1248{3}	13.22	12.48	79740	117687	192.926	371.792 #
23) L5 Aroclor-1248{4}	14.09	13.46	30303	306153	61.053	1137.780 #
24) L5 Aroclor-1248{5}	0.00	15.54	0	1249488	N.D.	9920.334 #
Sum Aroclor-1248			110043	1765977	253.979	11703.304
Average Aroclor-1248					126.989	2925.826
					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\BA1036.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA_B\BA1036.D\ECD2B.CH
Acq On : 18 Dec 97 22:00 Operator:
Sample : 278441 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:41 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
25) L6	Aroclor-1254{1}	14.09	11.41	30303	106889	223.251	484.830 #
26) L6	Aroclor-1254{2}	15.49	13.46	2729193	306153	7402.603	731.068 #
27) L6	Aroclor-1254{3}	15.86	14.87	368225	1767203	799.022	11821.637 #
28) L6	Aroclor-1254{4}	18.46	15.54	1737725	1249488	4287.583	2571.335 #
29) L6	Aroclor-1254{5}	19.78	17.74	2378037	2288204	2755.532	5035.240 #
Sum	Aroclor-1254			7243482	5717937	15467.991	20644.110
Average	Aroclor-1254					3093.598	4128.822
						NP	NP
30) L7	Aroclor-1260{1}	18.05	15.96	1142843	688419	2195.909	2019.854
31) L7	Aroclor-1260{2}	18.46	16.66	1737725	832089	2823.056	2046.729 #
32) L7	Aroclor-1260{3}	20.00	17.74	1299262	2288204	2847.468	4436.727 #
33) L7	Aroclor-1260{4}	21.07	19.77	1250644	2227174	2684.119	3556.935 #
34) L7	Aroclor-1260{5}	21.66	20.88	3043781	1368058	2361.124	2896.327
Sum	Aroclor-1260			8474255	7403943	12911.677	14956.573
Average	Aroclor-1260					2582.335	2991.315

346

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1036.D\ECD1A.CH Vial: 9
Signal #2 : E:\WESTDA~1\BA1036.D\ECD2B.CH
Acq On : 18 Dec 97 22:00 Operator:
Sample : 278441 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 15:39 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	7.21	5.95	388771	261902	41.791	43.342
Spiked Amount 40.000 Range 43 - 150 Recovery =					104.48%	108.36%
2) SA Decachlorobiphen	29.18	24.46	1651739	876272	109.372	105.479m
Spiked Amount 40.000 Range 24 - 154 Recovery =					273.43%#	263.70%#
Target Compounds						
3) L6 Aroclor-1254{1}	14.09	11.41	28978	97143	213.563m	437.220 #
4) L6 Aroclor-1254{2}	15.49	13.46	2709791	263408	7064.440	628.495 #
5) L6 Aroclor-1254{3}	15.86	14.87	356245	1744263	676.805	11633.792 #
6) L6 Aroclor-1254{4}	18.46	15.54	1723029	1195032	4018.446	2402.848 #
7) L6 Aroclor-1254{5}	19.78	17.74	2362904	2231540	2720.879	4657.099 #
Sum Aroclor-1254			7180947	5531386	14694.132	19759.454
Average Aroclor-1254					2938.826	3951.891

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

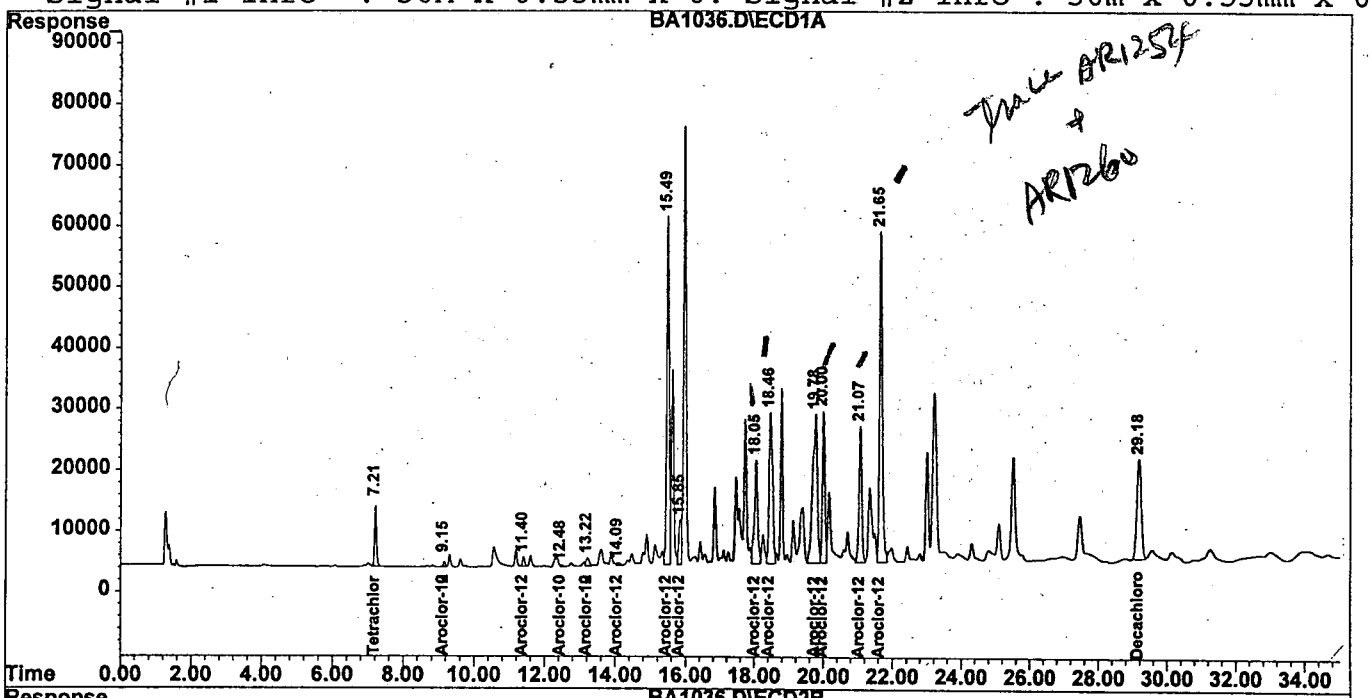
346A

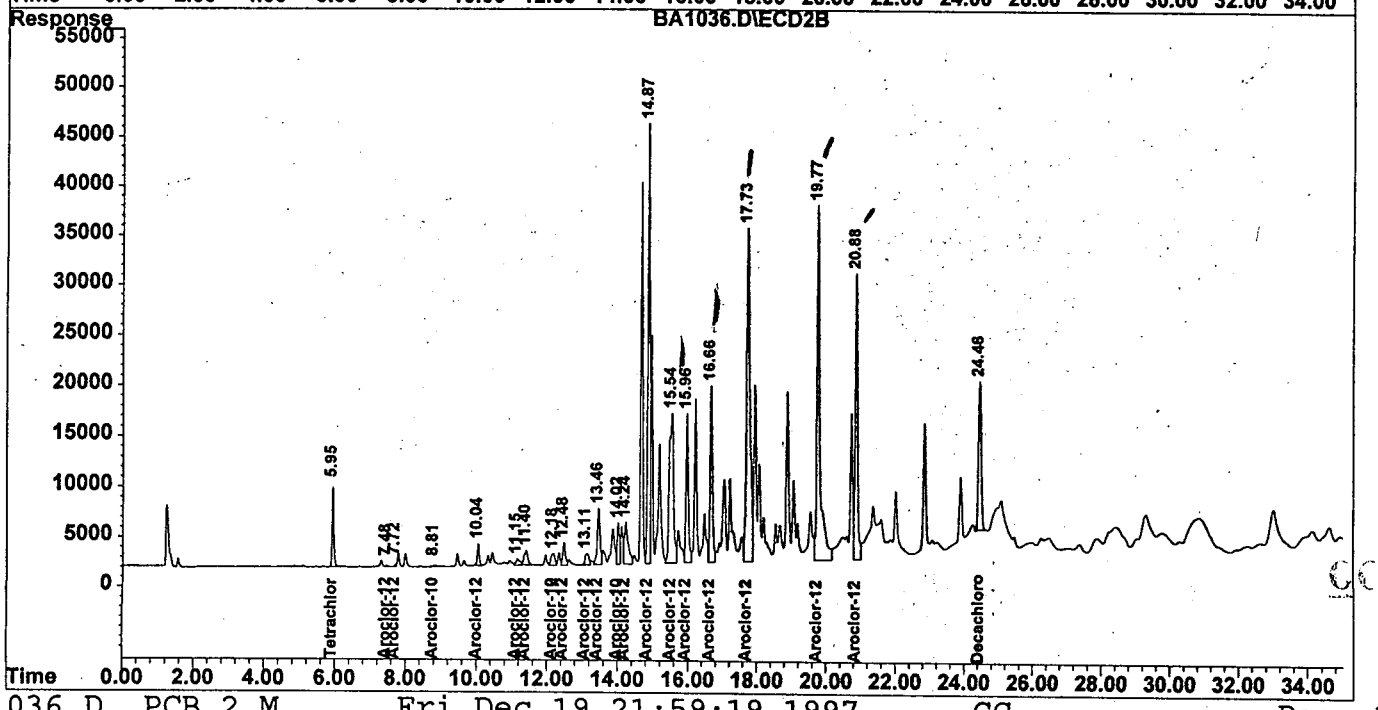
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1036.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA_B\BA1036.D\ECD2B.CH
Acq On : 18 Dec 97 22:00 Operator:
Sample : 278441 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:41 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





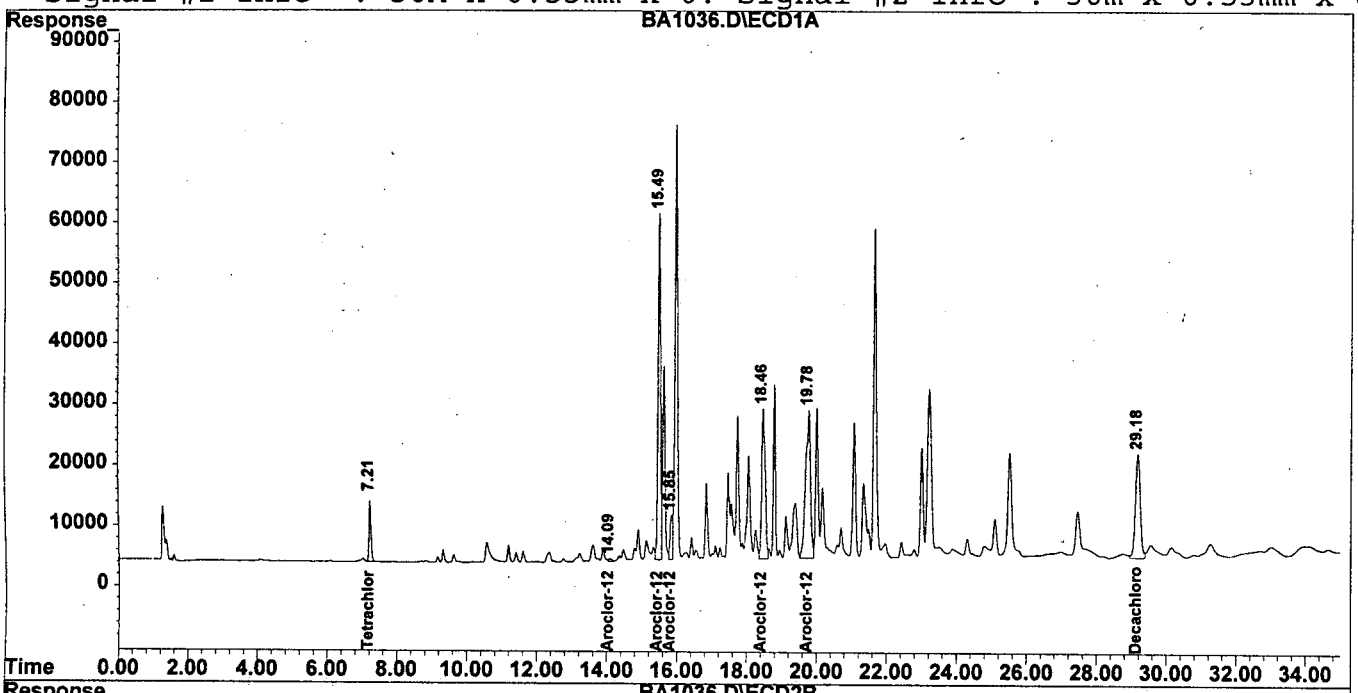
Quantitation Report

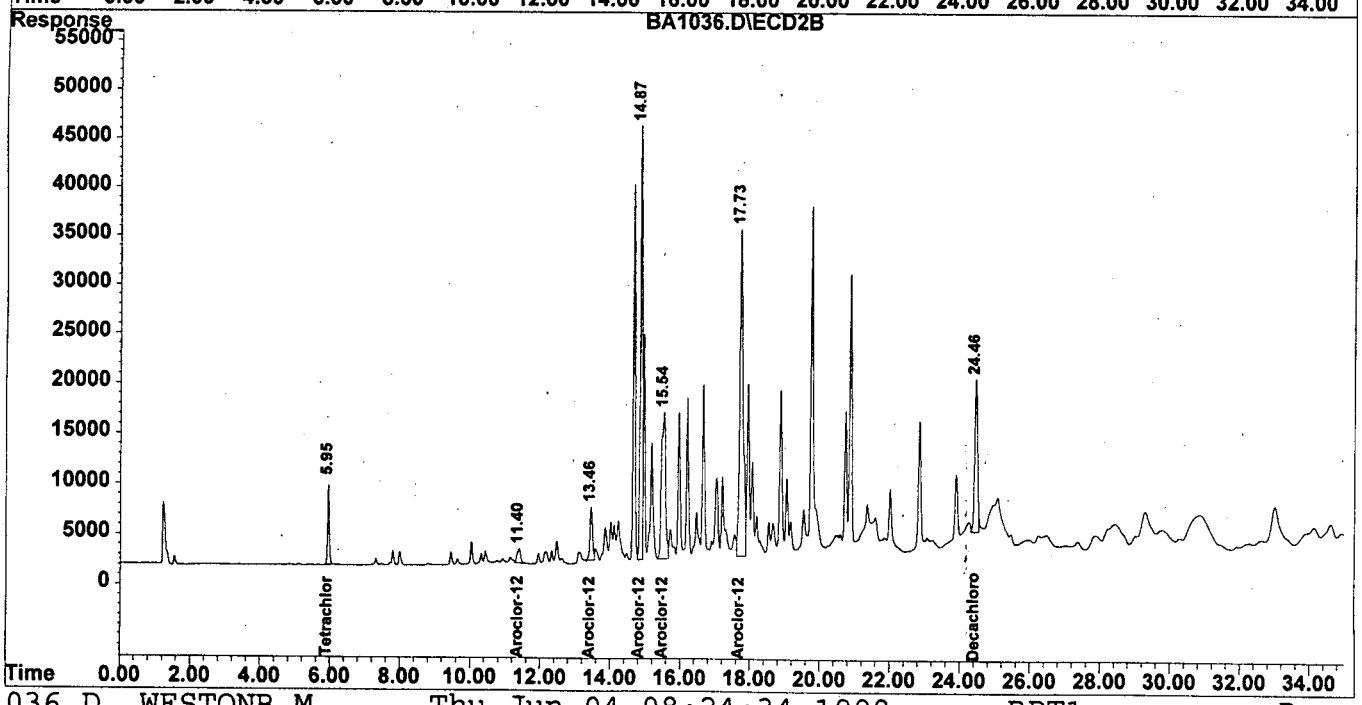
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1036.D\ECD1A.CH Vial: 9
Signal #2 : E:\WESTDA~1\BA1036.D\ECD2B.CH
Acq On : 18 Dec 97 22:00 Operator:
Sample : 278441 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 15:39 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278442
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: TTTTNS3
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7407	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/22/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	55.47%

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	75	37
Aroclor-1221	U	U	150	100
Aroclor-1232	U	U	75	60
Aroclor-1242	U	U	75	37
Aroclor-1248	U	U	75	45
Aroclor-1254	800 ~~720~~	U	75	52
Aroclor-1260	U	U	75	60

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.
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ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1092.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA1092.D\ECD2B.CH
Acq On : 22 Dec 97 15:10 Operator:
Sample : 278442 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 23 18:30 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	7.28f	5.94	308929	208835	34.102m	32.242	
Spiked Amount 40.000 Range 43 - 150 Recovery =					85.26%	80.60%	
2) SA Decachlorobiphen	29.17f	24.43f	469840	343152	31.221m	38.479m	
Spiked Amount 40.000 Range 24 - 154 Recovery =					78.05%	96.20%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.22	8.84	15980	8085	75.072	27.781	#
4) L1 Aroclor-1016{2}	10.71	10.24	33019	30254	70.033	53.444	
5) L1 Aroclor-1016{3}	12.02	10.65	19136	43396	23.264	161.962	#
6) L1 Aroclor-1016{4}	0.00	12.16	0	112207	N.D.	437.388	#
7) L1 Aroclor-1016{5}	13.29	14.01	214938	232822	658.250	1578.670	#
Sum Aroclor-1016			283073	426764	826.619	2259.245	
verage Aroclor-1016					206.655	451.849	
.0) L2 Aroclor-1221{3}	9.22	0.00	15980	0	52.791	N.D.	#
Sum Aroclor-1221			15980	0	52.791	N.D.	
verage Aroclor-1221					52.791	0.000	
.2) L3 Aroclor-1232{2}	9.22	10.02	15980	53050	78.194	1269.881	#
.3) L3 Aroclor-1232{3}	10.71	11.40	33019	185698	152.129	2229.244	#
.4) L3 Aroclor-1232{4}	12.02	0.00	19136	0	54.513	N.D.	#
Sum Aroclor-1232			68135	238748	284.835	3499.124	
verage Aroclor-1232					94.945	1749.562	
5) L4 Aroclor-1242{1}	9.22	0.00	15980	0	87.173	N.D.	#
6) L4 Aroclor-1242{2}	10.71	10.02	33019	53050	90.048	691.177	#
7) L4 Aroclor-1242{3}	0.00	11.14	0	20270	N.D.	125.659	#
8) L4 Aroclor-1242{4}	0.00	12.32	0	31560	N.D.	136.381	#
9) L4 Aroclor-1242{5}	14.17	14.28	115058	144971	316.625	1622.050	#
Sum Aroclor-1242			164057	249851	493.845	2575.267	
verage Aroclor-1242					164.615	643.817	
0) L5 Aroclor-1248{1}	10.71	10.24	33019	30254	170.205	72.637	#
1) L5 Aroclor-1248{2}	12.02	12.16	19136	112207	34.203	331.111	#
2) L5 Aroclor-1248{3}	13.29	12.57	214938	187492	520.031	592.316	

(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\BA1092.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA1092.D\ECD2B.CH
Acq On : 22 Dec 97 15:10 Operator:
Sample : 278442 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 23 18:30 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}	14.17	13.44	115058	328242	231.815	1219.874	#
	Sum Aroclor-1248			382151	658195	956.254	2215.938	
Average	Aroclor-1248					239.063	553.985	
25)	L6 Aroclor-1254{1}	14.17	11.34	115058	100801	847.676	457.216	#
26)	L6 Aroclor-1254{2}	15.54	13.44	415088	328242	1125.876	783.817	#
27)	L6 Aroclor-1254{3}	15.86	14.85	334670	258859	726.210	1731.625	#
28)	L6 Aroclor-1254{4}	18.48	15.45	544474	555721	1343.411	1143.624	
29)	L6 Aroclor-1254{5}	19.79	17.74	921685	662374	1067.995	1457.567	#
	Sum Aroclor-1254			2330975	1905996	5111.168	5573.848	
Average	Aroclor-1254					1022.234	1114.770	
31)	L7 Aroclor-1260{1}	18.00	15.95	768611	298624	1476.842	876.176	#
32)	L7 Aroclor-1260{2}	18.48	16.65	544474	306076	884.537	752.870	
32)	L7 Aroclor-1260{3}	20.02	17.74	91465	662374	200.456	1284.313	#
33)	L7 Aroclor-1260{4}	21.08	19.75	221827	137019	476.083	218.827	#
34)	L7 Aroclor-1260{5}	21.66	20.86	223601	134249	173.452	284.220	#
	Sum Aroclor-1260			1849979	1538341	3211.370	3416.407	
Average	Aroclor-1260					642.274	683.281	

GC 350

12/22/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WEST\BA1092.D\ECD1A.CH Vial: 24
Signal #2 : E:\WEST\BA1092.D\ECD2B.CH
Acq On : 22 Dec 97 15:10 Operator:
Sample : 278442 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 11:58 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	7.28	5.94	304684	204783	32.752	33.889
Spiked Amount 40.000 Range 43 - 150 Recovery =					81.88%	84.72%
2) SA Decachlorobiphen	29.17f	24.43f	468684	325160	31.034m	39.140m#
Spiked Amount 40.000 Range 24 - 154 Recovery =					77.58%	97.85%
Target Compounds						
3) L6 Aroclor-1254{1}	14.17	11.34	106492	93502	784.824	420.831 #
4) L6 Aroclor-1254{2}	15.54	13.44	409257	323236	1066.934	771.248 #
5) L6 Aroclor-1254{3}	15.86	14.85	330728	254398	628.326	1696.768 #
6) L6 Aroclor-1254{4}	18.48	15.45	543014	551189	1266.416	1108.275
7) L6 Aroclor-1254{5}	19.79	17.74	920983	656664	1060.510	1370.422 #
Sum Aroclor-1254			2310473	1878990	4807.011	5367.544
Average Aroclor-1254					961.402	1073.509

350A

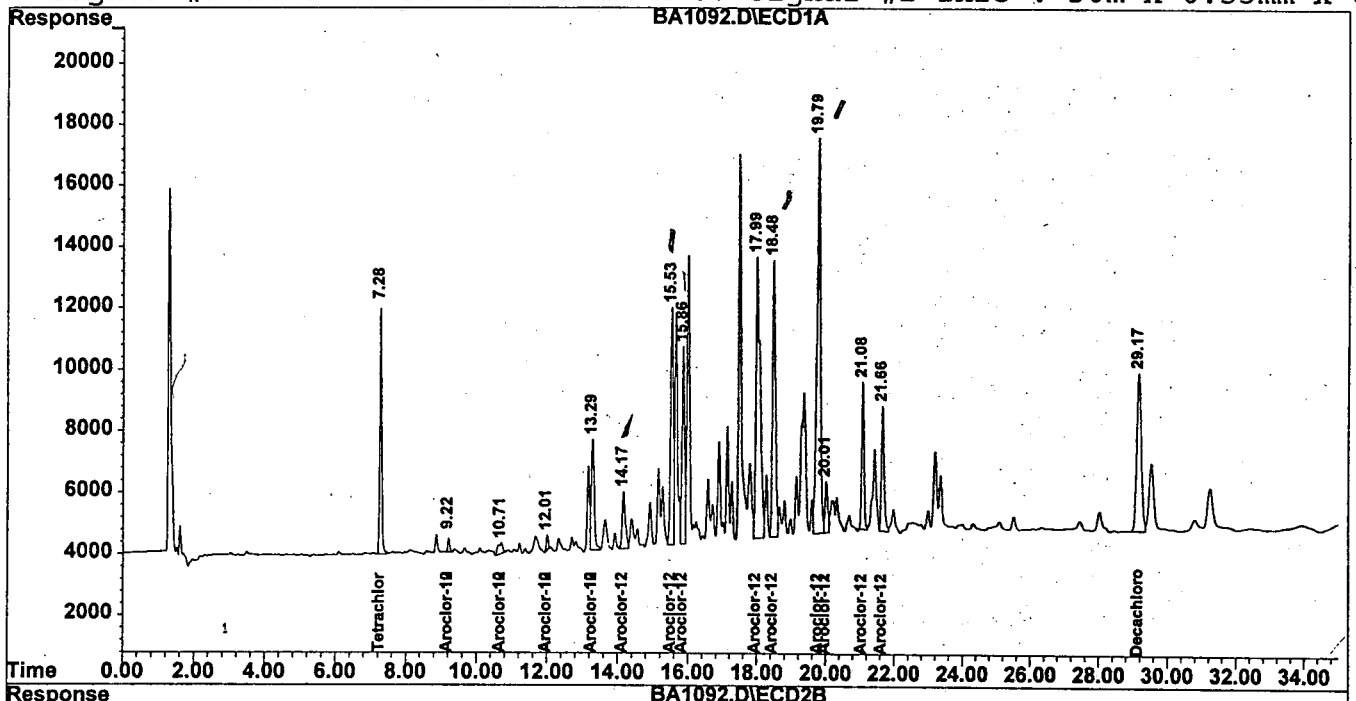
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

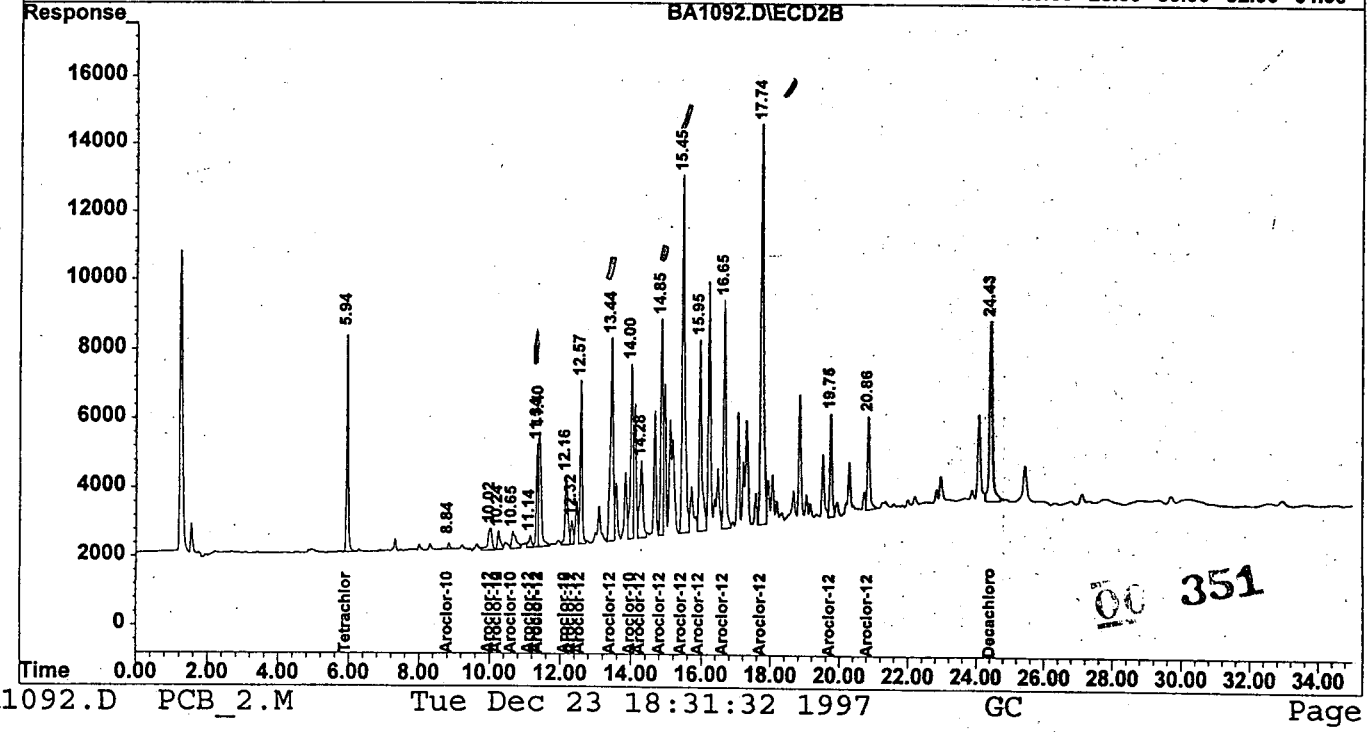
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1092.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_B\BA1092.D\ECD2B.CH
Acq On : 22 Dec 97 15:10 Operator:
Sample : 278442 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 23 18:30 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





00 351

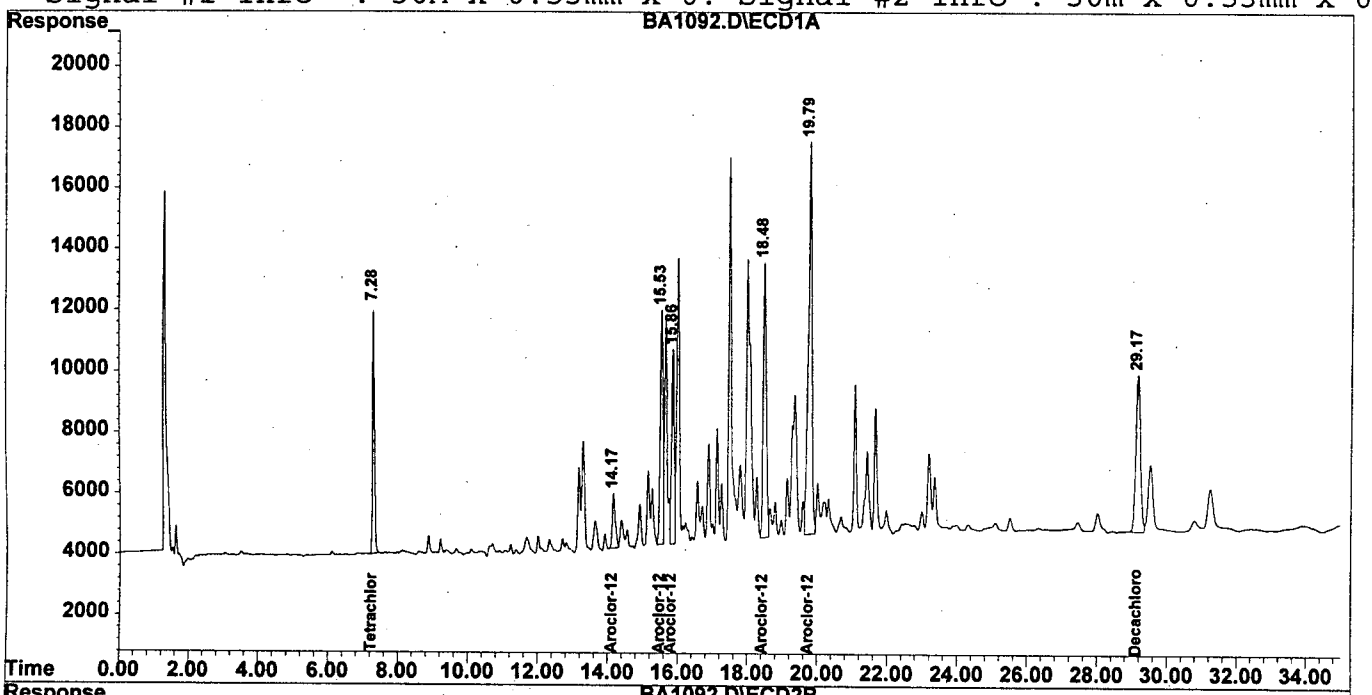
Quantitation Report

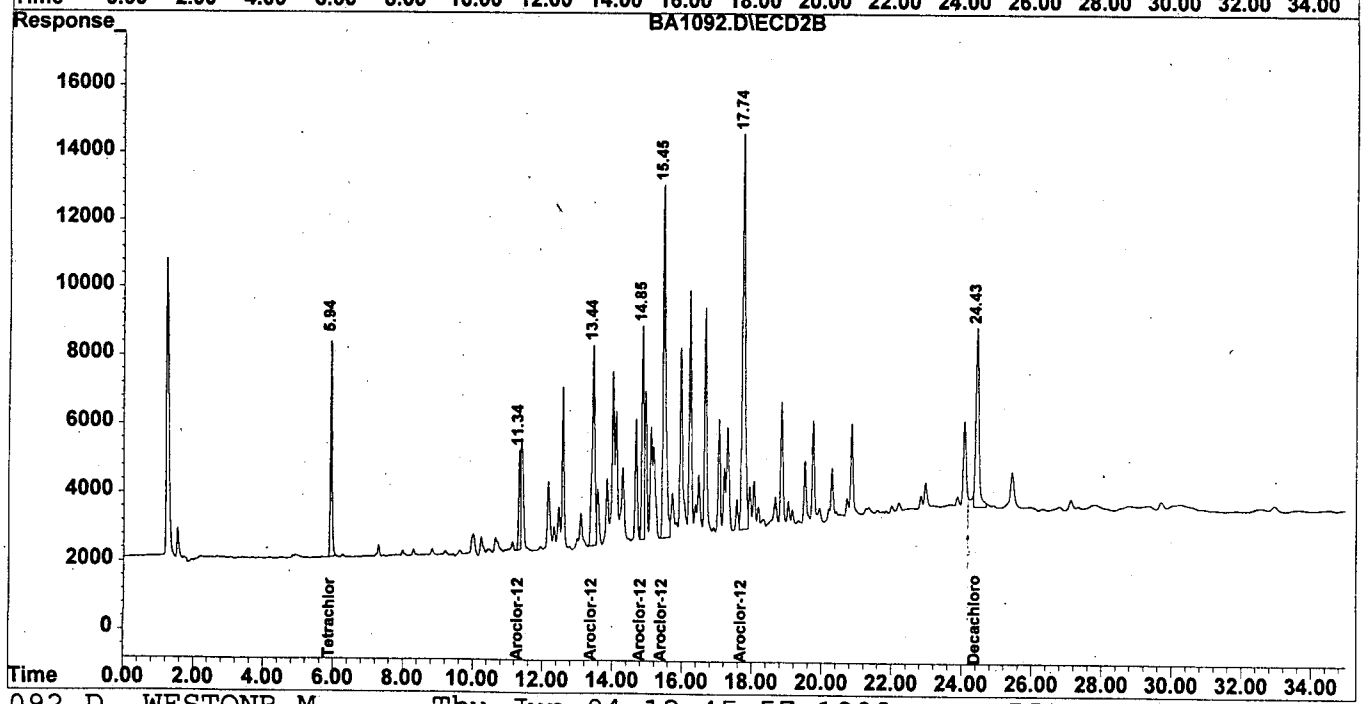
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WEST\BA1092.D\ECD1A.CH Vial: 24
Signal #2 : E:\WEST\BA1092.D\ECD2B.CH
Acq On : 22 Dec 97 15:10 Operator:
Sample : 278442 Inst : GC_5890_2
Misc : QPC7407 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 11:58 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





351A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 1998

AMENDED REPORT JUN 0 5 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: 278443
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7404	Column used:	DB 1701/DB 608
Extraction date:	12/17/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	25.65%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	45	22
Aroclor-1221	U	U	90	63
Aroclor-1232	U	U	45	36
Aroclor-1242	U	U	45	22
Aroclor-1248	U	U	45	27
Aroclor-1254	~~1300~~ 1000	U	45	31
Aroclor-1260	U	U	45	36

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.

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Thomas Mancuso, Lab Mgr.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_B\BA1043.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_B\BA1043.D\ECD2B.CH
Acq On : 19 Dec 97 2:31 Operator:
Sample : 278443 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:24 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	7.21	5.94	385790	264884	42.586	40.896
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.47%	102.24%
2) SA Decachlorobiphen	29.17	24.46	615172	380264	40.879	42.641
Spiked Amount 40.000 Range 24 - 154 Recovery =					102.20%	106.60%
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	8.81	0	412635	N.D.	1417.905 #
4) L1 Aroclor-1016{2}	10.66	10.25	122319	146369	259.435	258.563
5) L1 Aroclor-1016{3}	11.97	10.72	177687	69851	216.023	260.694
6) L1 Aroclor-1016{4}	0.00	12.17	0	601454	N.D.	2344.491 #
7) L1 Aroclor-1016{5}	13.24	14.02	1108406	442409	3394.499	2999.791
Sum Aroclor-1016			1408411	1672718	3869.957	7281.443
Average Aroclor-1016					1289.986	1456.289
9) L2 Aroclor-1221{2}	9.05	7.47	24328	13515	247.690	191.662
10) L2 Aroclor-1221{3}	0.00	7.72	0	25839	N.D.	105.934 #
Sum Aroclor-1221			24328	39354	247.690	297.596
Average Aroclor-1221					247.690	148.798
11) L3 Aroclor-1232{1}	9.05	0.00	24328	0	425.005	N.D. #
12) L3 Aroclor-1232{2}	0.00	10.02	0	620120	N.D.	14844.111 #
13) L3 Aroclor-1232{3}	10.66	11.40	122319	714156	563.560	8573.199 #
14) L3 Aroclor-1232{4}	11.97	13.19	177687	22464	506.182	397.067
Sum Aroclor-1232			324334	1356740	1494.747	23814.377
Average Aroclor-1232					498.249	7938.126
16) L4 Aroclor-1242{2}	10.66	10.02	122319	620120	333.583	8079.425 #
17) L4 Aroclor-1242{3}	11.35	11.15	110785	253176	999.276	1569.541 #
18) L4 Aroclor-1242{4}	0:00	12.33	0	161020	N.D.	695.820 #
19) L4 Aroclor-1242{5}	14.13	14.29	738493	315709	2032.232	3532.404 #
Sum Aroclor-1242			971597	1350025	3365.091	13877.190
Average Aroclor-1242					1121.697	3469.298
20) L5 Aroclor-1248{1}	10.66	10.25	122319	146369	630.523	351.418 #
21) L5 Aroclor-1248{2}	11.97	12.17	177687	601454	317.596	174.827 #

353

(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\BA1043.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_B\BA1043.D\ECD2B.CH
Acq On : 19 Dec 97 2:31 Operator:
Sample : 278443 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:24 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	
22)	L5 Aroclor-1248{3}	13.24	12.47	1108406	282331	2681.724	891.926	#
23)	L5 Aroclor-1248{4}	14.13	13.45	738493	798788	1487.888	2968.601	#
24)	L5 Aroclor-1248{5}	16.13	15.47	65855	1246004	174.575	9892.677	#
Sum	Aroclor-1248			2212758	3074946	5292.406	15879.449	
Average	Aroclor-1248					1058.481	3175.890	
25)	L6 Aroclor-1254{1}	14.13	11.35	738493	592065	5440.743	2685.499	#
26)	L6 Aroclor-1254{2}	15.49	13.45	2273203	798788	6165.786	1907.442	#
27)	L6 Aroclor-1254{3}	15.83	14.87	709527	995190	1539.624	6657.287	#
28)	L6 Aroclor-1254{4}	18.50	15.47	943533	1246004	2328.029	2564.166	
29)	L6 Aroclor-1254{5}	19.78	17.75	1178583	1131203	1365.675	2489.235	#
Sum	Aroclor-1254			5843339	4763251	16839.857	16303.629	
Average	Aroclor-1254					3367.971	3260.726	
30)	L7 Aroclor-1260{1}	0.00	15.96	0	468056	N.D.	1373.300	#
31)	L7 Aroclor-1260{2}	18.50	16.66	943533	341471	1532.835	839.932	#
32)	L7 Aroclor-1260{3}	20.00	17.75	100849	1131203	221.022	2193.352	#
33)	L7 Aroclor-1260{4}	21.07	19.77	293938	134135	630.847	214.222	#
34)	L7 Aroclor-1260{5}	21.65	20.87	243107	120504	188.583	255.121	#
Sum	Aroclor-1260			1581427	2195369	2573.287	4875.927	
Average	Aroclor-1260					643.322	975.185	

GC 354

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1857.D\ECD1A.CH Vial: 2
Signal #2 : E:\WESTDA~1\EA1857.D\ECD2B.CH
Acq On : 19 Dec 97 1:20 Operator:
Sample : 278443 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:26 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	588836	845708	41.400	39.059
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.50%	97.65%
2) SA Decachlorobiphen	25.85	21.42	863488	828631	36.713m	36.322
Spiked Amount 40.000 Range 24 - 154 Recovery =					91.78%	90.81%

Target Compounds

DO NOT USE

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1043.D\ECD1A.CH Vial: 16
Signal #2 : E:\WESTDA~1\BA1043.D\ECD2B.CH
Acq On : 19 Dec 97 2:31 Operator:
Sample : 278443 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 15:43 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	7.21	5.94	385335	259112	41.422	42.880	
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.56%	107.20%	
2) SA Decachlorobiphen	29.17	24.46	614810	379739	40.710	45.710	
Spiked Amount 40.000 Range 24 - 154 Recovery =					101.78%	114.28%	
Target Compounds							
3) L6 Aroclor-1254{1}	~~14.13~~	~~11.35~~	554927	590832	~~4089.718~~	~~2659.206~~	#
4) L6 Aroclor-1254{2}	~~15.49~~	13.45	2230135	797624	~~5813.974~~	1903.146	#
5) L6 Aroclor-1254{3}	15.83	~~14.87~~	682027	992896	1295.734	~~6622.363~~	#
6) L6 Aroclor-1254{4}	18.47	15.47	934650	1239286	2179.789	2491.829	
7) L6 Aroclor-1254{5}	19.78	17.75	1178392	1097468	1356.916	2290.354	#
Sum Aroclor-1254			5580131	4718106	14736.131	15966.899	
Average Aroclor-1254					~~2947.226~~	~~3193.380~~	

1610.815 2228.443

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

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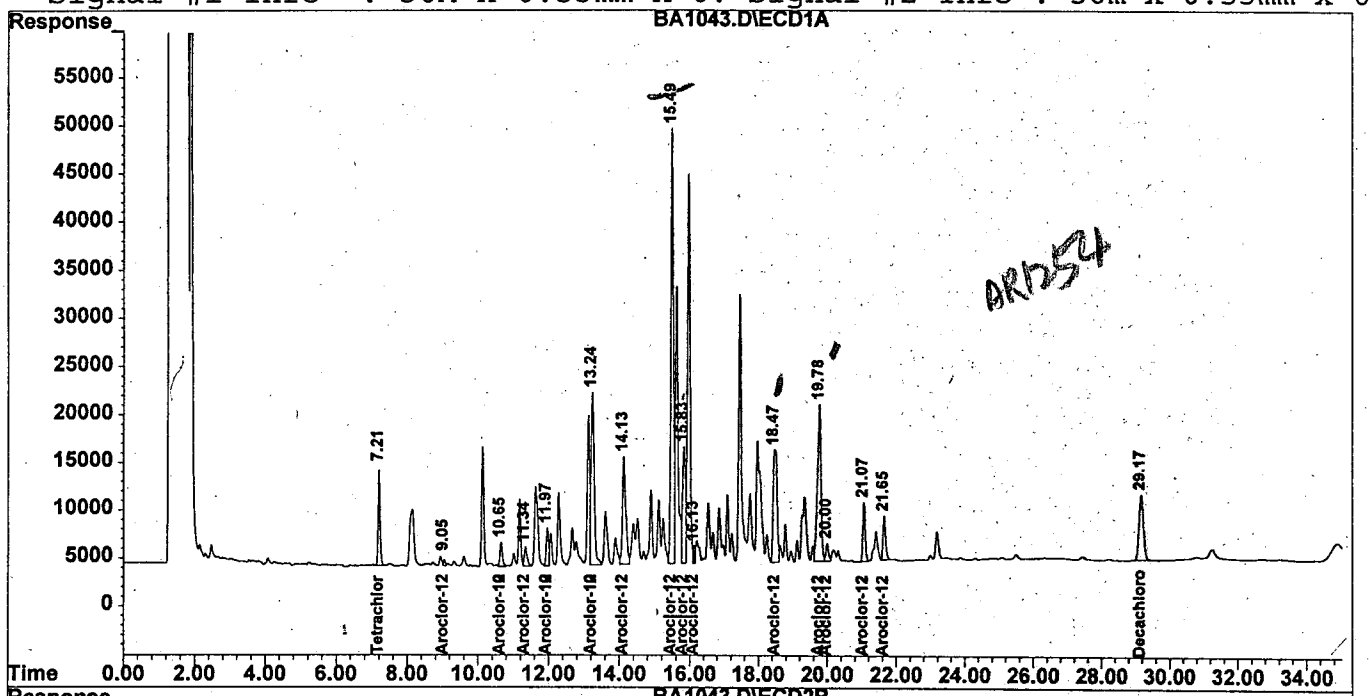
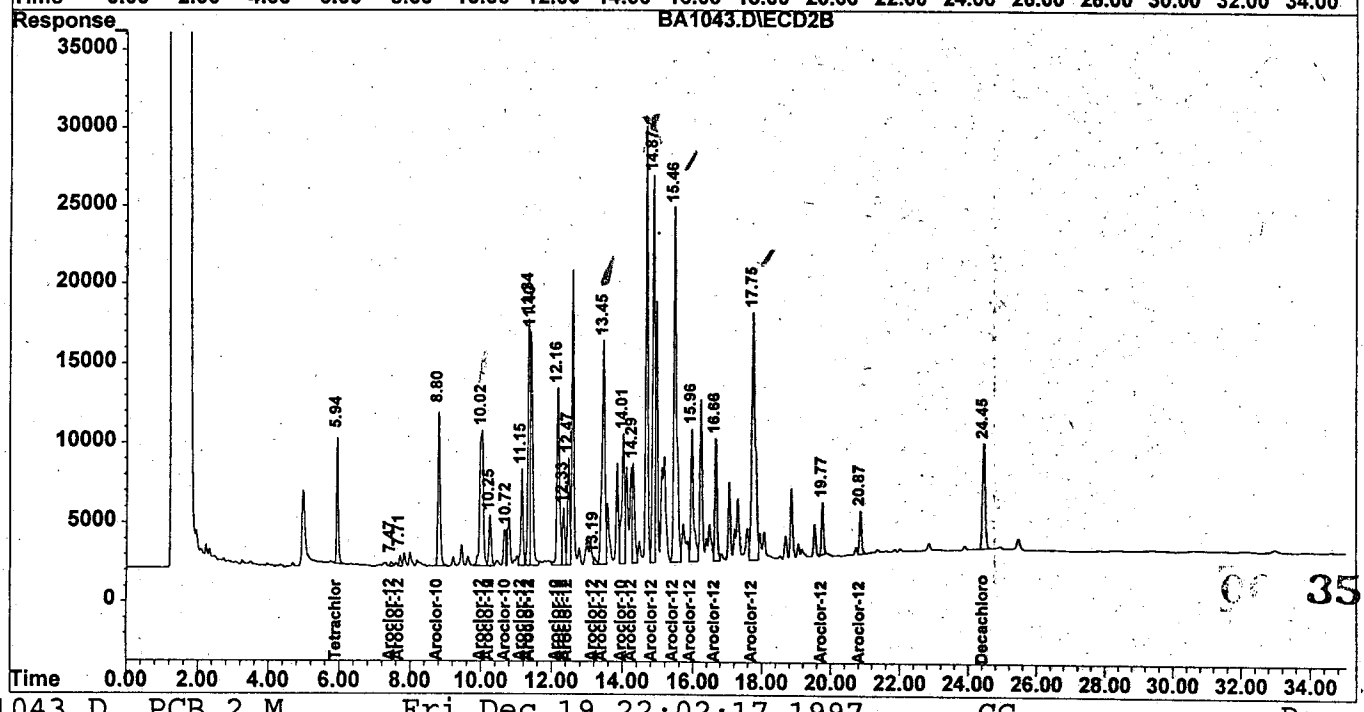
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1043.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA_B\BA1043.D\ECD2B.CH
Acq On : 19 Dec 97 2:31 Operator:
Sample : 278443 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:24 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





355

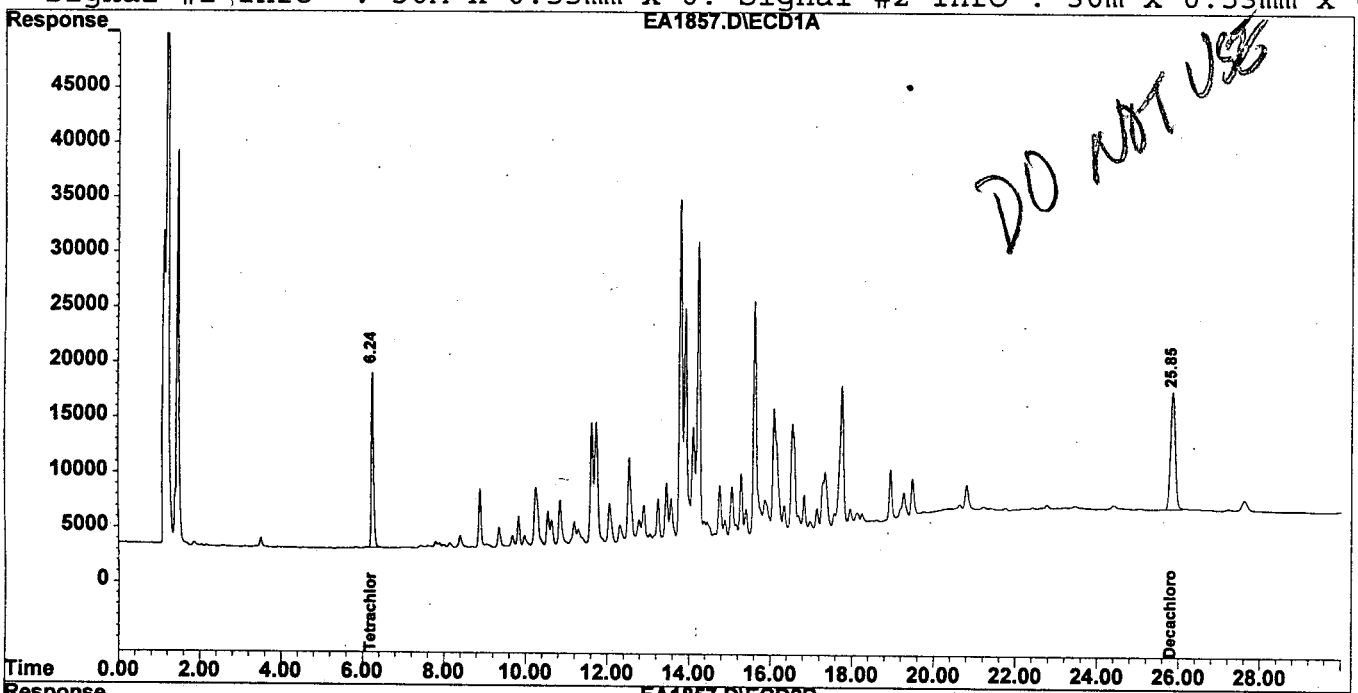
Quantitation Report

AMENDED REPORT JUN 0 6 1998

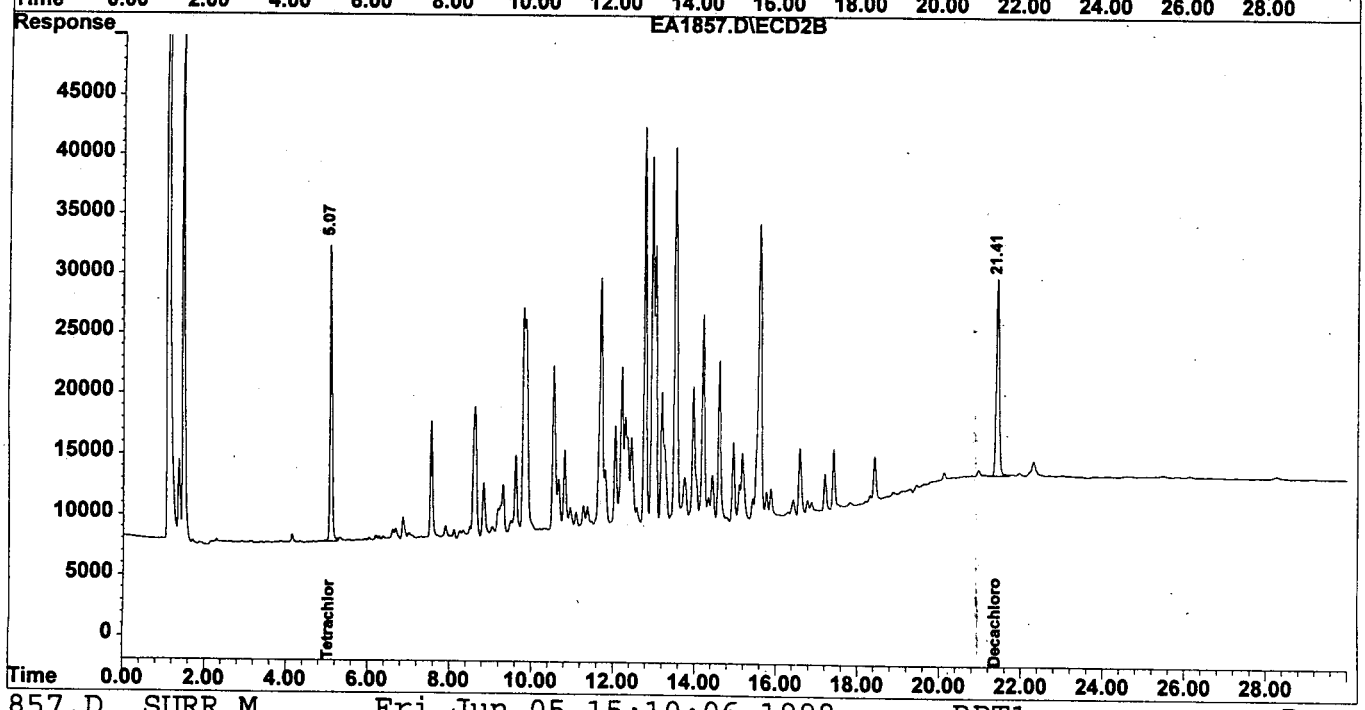
Signal #1 : E:\WESTDA~1\EA1857.D\ECD1A.CH Vial: 2
Signal #2 : E:\WESTDA~1\EA1857.D\ECD2B.CH
Acq On : 19 Dec 97 1:20 Operator:
Sample : 278443 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:26 1998 Quant Results File: SURR.RES

Quant Method : H:\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



DO NOT USE

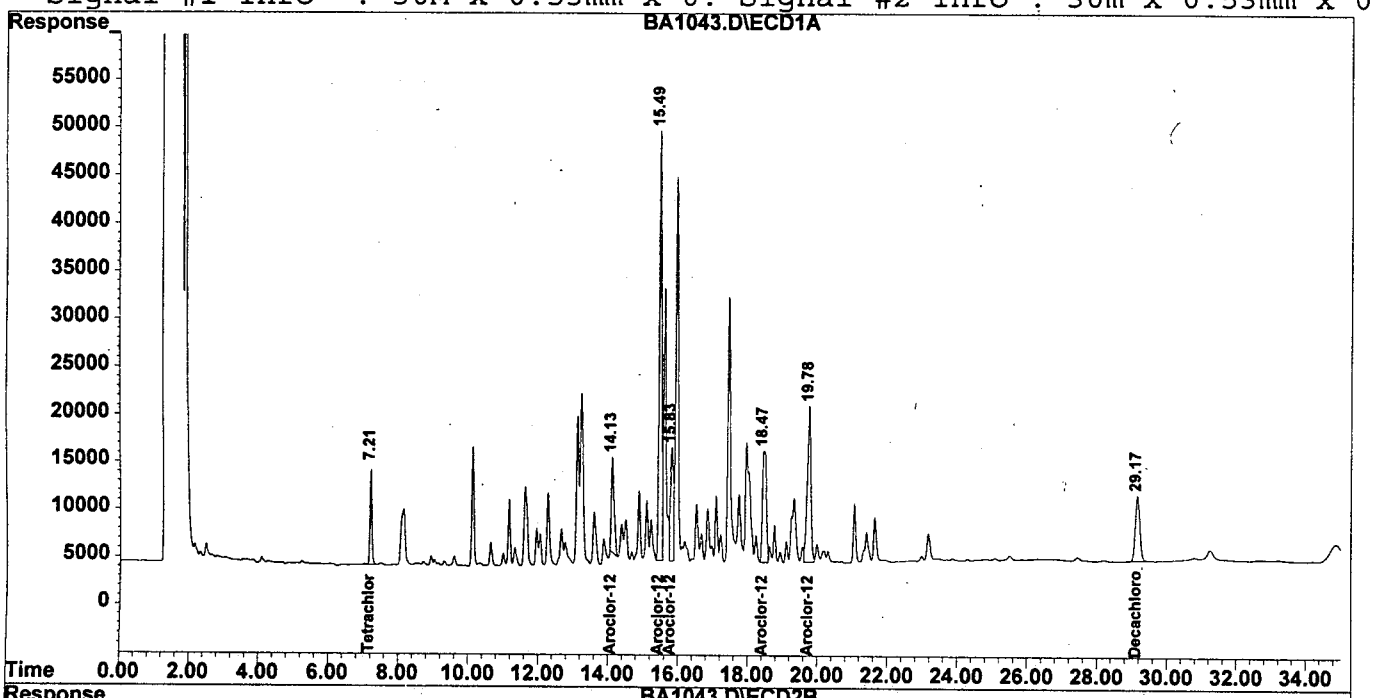


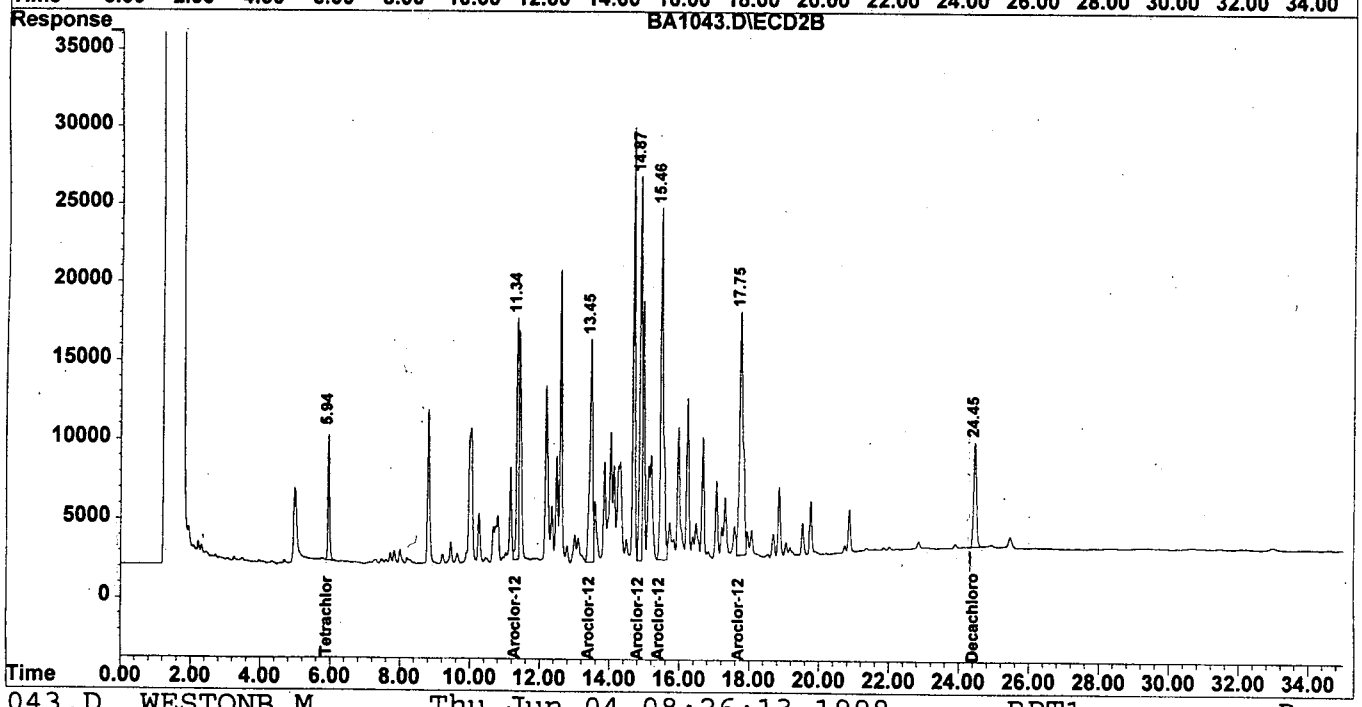
Quantitation Report AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1043.D\ECD1A.CH Vial: 16
Signal #2 : E:\WESTDA~1\BA1043.D\ECD2B.CH
Acq On : 19 Dec 97 2:31 Operator:
Sample : 278443 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 15:43 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





355 AB DLA 6/8/98

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278444
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	30.98%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	48	24
Aroclor-1221	U	U	96	68
Aroclor-1232	U	U	48	39
Aroclor-1242	U	U	48	24
Aroclor-1248	~~U~~ 110 J	U	48	29
Aroclor-1254	530 J	U	48	34
Aroclor-1260	U	U	48	39

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1858.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_E\EA1858.D\ECD2B.CH
Acq On : 19 Dec 97 1:54 Operator:
Sample : 278444 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	6.23	5.07	555064	772180	40.346	38.826
Spiked Amount 40.000 Range 43 - 150 Recovery =					100.87%	97.07%
2) SA Decachlorobiphen	25.83	21.40	833870	780664	35.839	35.926
Spiked Amount 40.000 Range 24 - 154 Recovery =					89.60%	89.82%
Target Compounds						
4) L1 Aroclor-1016{2}	9.33	7.55	80930	221921	119.370	254.827 #
5) L1 Aroclor-1016{3}	10.53	8.83	149693	202733	117.222	109.242
6) L1 Aroclor-1016{4}	0.00	9.24	0	65047	N.D.	77.122 #
7) L1 Aroclor-1016{5}	12.52	10.53	493591	698751	756.099	829.436
Sum Aroclor-1016			724215	1188453	992.690	1270.628
Average Aroclor-1016					330.897	317.657
					no	no
10) L2 Aroclor-1221{3}	7.88	0.00	17563	0	127.534	N.D. #
11) L2 Aroclor-1221{4}	0.00	8.83	0	202733	N.D.	1476.057 #
Sum Aroclor-1221			17563	202733	127.534	1476.057
Average Aroclor-1221					127.534	1476.057
					no	no
13) L3 Aroclor-1232{2}	9.33	7.55	80930	221921	260.602	604.583 #
14) L3 Aroclor-1232{3}	10.53	8.83	149693	202733	294.344	269.448
15) L3 Aroclor-1232{4}	12.52	9.24	493591	65047	1564.968	192.812 #
16) L3 Aroclor-1232{5}	13.44	10.53	283420	698751	1249.427	1832.971 #
Sum Aroclor-1232			1007635	1188453	3369.341	2899.814
Average Aroclor-1232					842.335	724.953
					no	no
17) L4 Aroclor-1242{1}	8.12	0.00	20644	0	79.213	N.D. #
18) L4 Aroclor-1242{2}	9.33	7.55	80930	221921	150.540	342.002 #
19) L4 Aroclor-1242{3}	10.62	8.83	39295	202733	40.426	145.351 #
20) L4 Aroclor-1242{4}	0.00	9.24	0	65047	N.D.	106.302 #
21) L4 Aroclor-1242{5}	12.52	10.53	493591	698751	885.732	1056.375
Sum Aroclor-1242			634461	1188453	1155.912	1650.030
Average Aroclor-1242					288.978	412.508
					no	no
22) L5 Aroclor-1248{1}	9.33	7.55	80930	221921	281.484	628.430 #
23) L5 Aroclor-1248{2}	10.53	8.83	149693	202733	178.449	167.200
					no	no

357

(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_E\EA1858.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_E\EA1858.D\ECD2B.CH
Acq On : 19 Dec 97 1:54 Operator:
Sample : 278444 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	
24) L5	Aroclor-1248{3}	~~12.52~~	10.53	493591	698751	~~649.002~~	743.657	
25) L5	Aroclor-1248{4}	~~13.44~~	~~10.80~~	283420	349146	~~399.022~~	~~402.538~~	
26) L5	Aroclor-1248{5}	~~15.60~~	~~13.51~~	1407012	1832010	~~4238.481~~	~~5176.292~~	
Sum	Aroclor-1248			2414647	3304561	5746.438	7113.117	
Average	Aroclor-1248					~~1149.288~~	~~1422.623~~	
						2300	NP	
27) L6	Aroclor-1254{1}	11.60	9.80	551933	689108	~~1475.265~~	~~1117.983~~	
28) L6	Aroclor-1254{2}	13.78	11.69	1063526	1332380	~~1792.235~~	~~1078.692~~	#
29) L6	Aroclor-1254{3}	15.60	12.20	1407012	798700	1082.870	808.218	#
30) L6	Aroclor-1254{4}	16.52	13.51	598235	1832010	957.881	1308.382	#
31) L6	Aroclor-1254{5}	17.74	15.59	1079595	1589925	890.101	1157.416	#
Sum	Aroclor-1254			4700301	6242122	6198.352	5470.691	
Average	Aroclor-1254					~~1239.670~~	~~1094.138~~	
						976.98	1091.35	
32) L7	Aroclor-1260{1}	0.00	13.96	0	796962	N.D.	726.410	#
33) L7	Aroclor-1260{2}	16.52	14.60	598235	723013	507.452	496.606	
34) L7	Aroclor-1260{3}	18.93	15.59	268635	1589925	323.797	837.763	#
35) L7	Aroclor-1260{4}	19.47	17.41	202692	230839	105.755	103.524	
36) L7	Aroclor-1260{5}	0.00	18.41	0	181792	N.D.	111.611	#
Sum	Aroclor-1260			1069561	3522531	937.005	2275.913	
Average	Aroclor-1260					312.335	455.183	
						NP	NP	

00 358

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1858.D\ECD1A.CH Vial: 3
Signal #2 : E:\WESTDA~1\EA1858.D\ECD2B.CH
Acq On : 19 Dec 97 1:54 Operator:
Sample : 278444 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:27 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	555064	786495	39.025	36.324
Spiked Amount 40.000 Range 43 - 150 Recovery =					97.56%	90.81%
2) SA Decachlorobiphen	25.83	21.40	824873	792040	35.071m	34.718
Spiked Amount 40.000 Range 24 - 154 Recovery =					87.68%	86.80%

Target Compounds

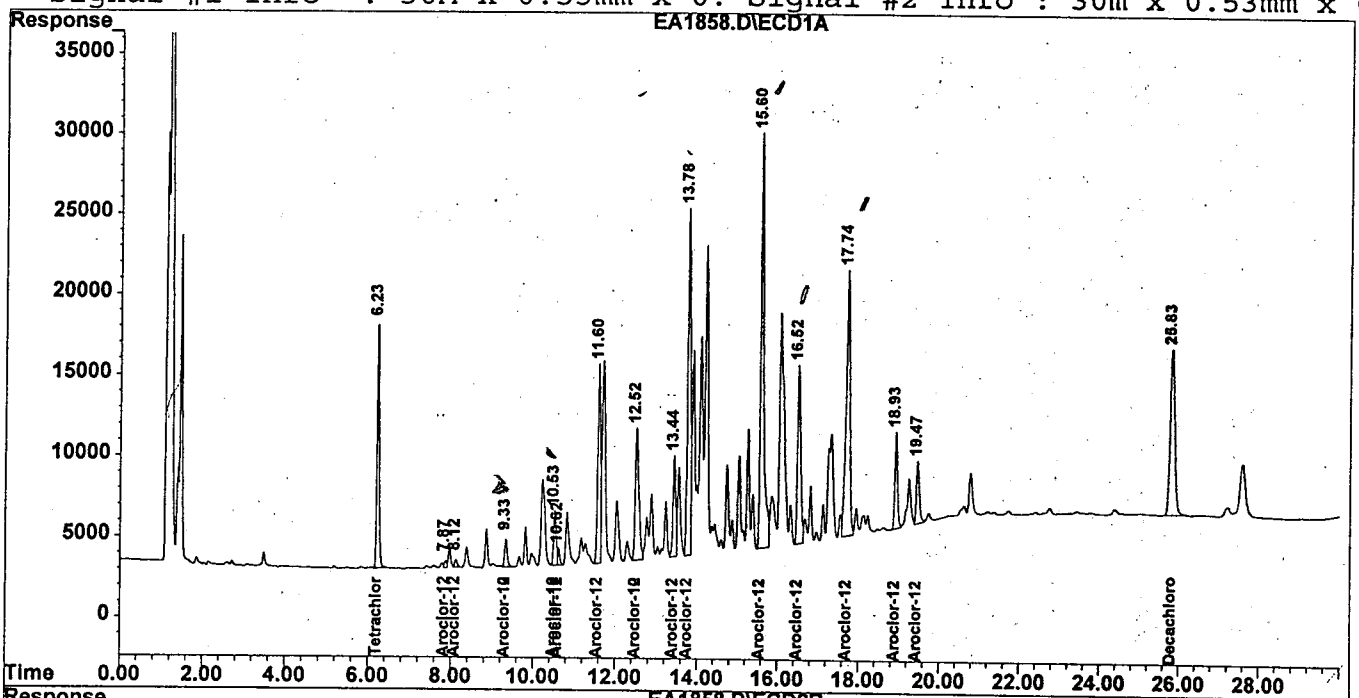
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

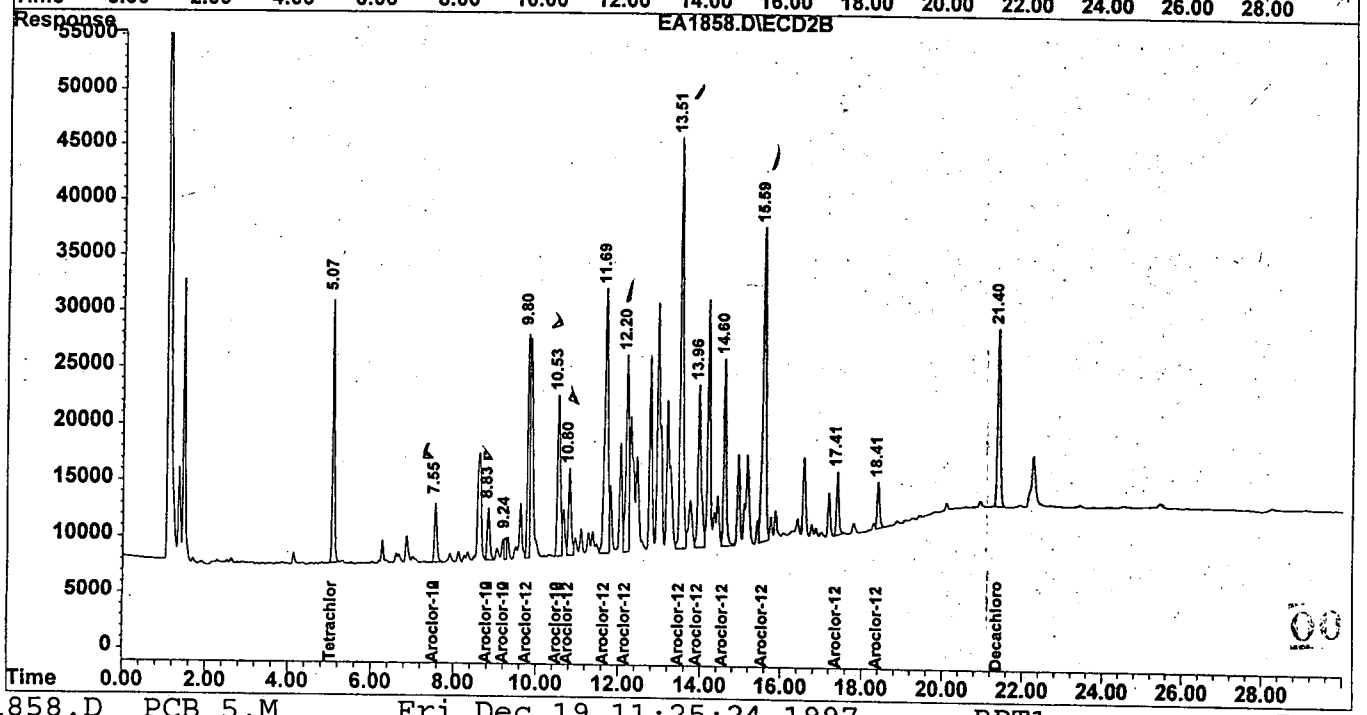
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1858.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA_E\EA1858.D\ECD2B.CH
Acq On : 19 Dec 97 1:54 Operator:
Sample : 278444 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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





00 359

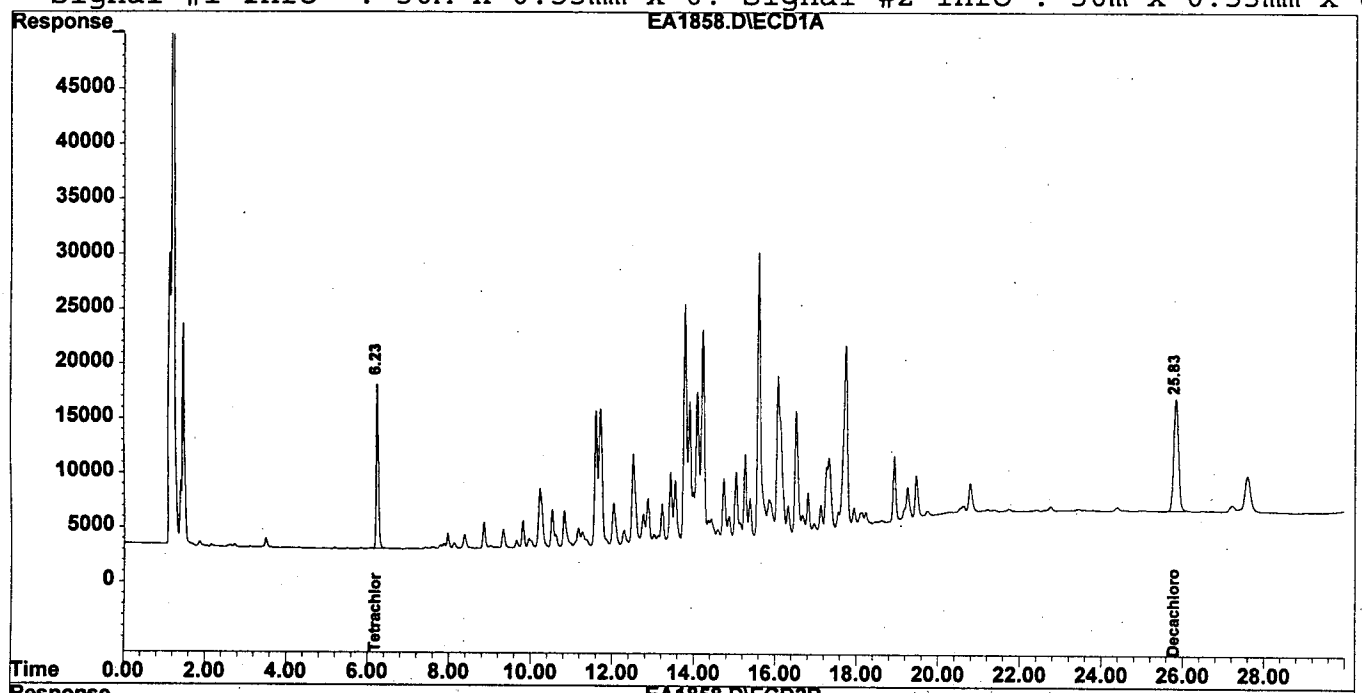
Quantitation Report

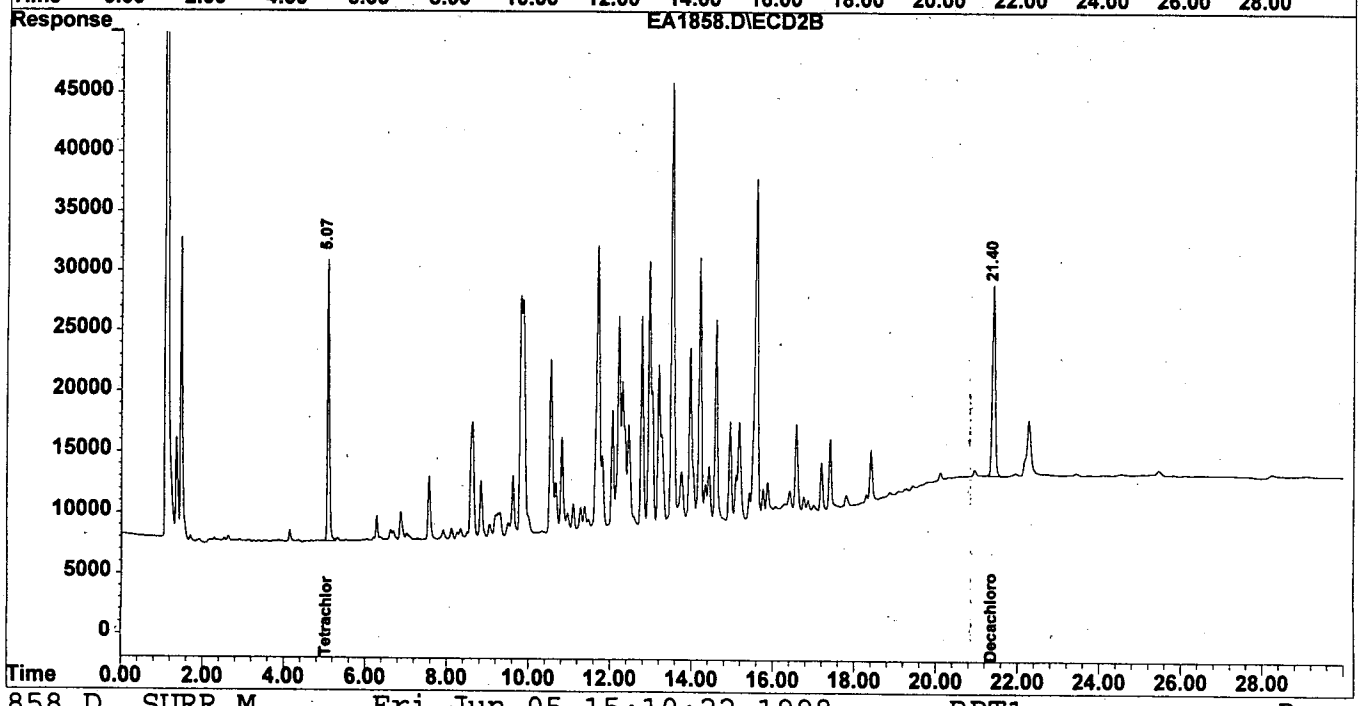
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1858.D\ECD1A.CH Vial: 3
Signal #2 : E:\WESTDA~1\EA1858.D\ECD2B.CH
Acq On : 19 Dec 97 1:54 Operator:
Sample : 278444 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:27 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278445
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUNS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	23.06%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	43	22
Aroclor-1221	U	U	87	61
Aroclor-1232	U	U	43	35
Aroclor-1242	U	U	43	22
Aroclor-1248	U	U	43	26
Aroclor-1254	~~300~~ 320	U	43	30
Aroclor-1260	U	U	43	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.

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Thomas Mancuso, Lab Mgr.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 9 1998

Signal #1 : C:\HPCHEM\1\DATA_E\EA1859.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_E\EA1859.D\ECD2B.CH
Acq On : 19 Dec 97 2:27 Operator:
Sample : 278445 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	6.24	5.07	626298	891952	45.523	44.848	
Spiked Amount 40.000 Range 43 - 150 Recovery =					113.81%	112.12%	
2) SA Decachlorobiphen	25.84	21.41	853479	814636	36.682	37.489	
Spiked Amount 40.000 Range 24 - 154 Recovery =					91.71%	93.72%	
Target Compounds							
4) L1 Aroclor-1016{2}	9.34	0.00	77395	0	114.156	N.D.	#
5) L1 Aroclor-1016{3}	10.54	8.84	38247	53183	29.950	28.657	
6) L1 Aroclor-1016{4}	0.00	9.24	0	89695	N.D.	106.345	#
7) L1 Aroclor-1016{5}	12.52	10.54	162629	275564	249.120	327.102	#
Sum Aroclor-1016			278271	418442	393.226	462.104	
Average Aroclor-1016					131.075	154.035	
11) L2 Aroclor-1221{4}	7.98	8.84	16723	53183	40.999	387.214	#
Sum Aroclor-1221			16723	53183	40.999	387.214	
Average Aroclor-1221					40.999	387.214	
13) L3 Aroclor-1232{2}	9.34	0.00	77395	0	249.219	N.D.	#
14) L3 Aroclor-1232{3}	10.54	8.84	38247	53183	75.206	70.684	
15) L3 Aroclor-1232{4}	12.52	9.24	162629	89695	515.626	265.872	#
16) L3 Aroclor-1232{5}	13.44	10.54	195942	275564	863.791	722.862	
Sum Aroclor-1232			474213	418442	1703.842	1059.418	
Average Aroclor-1232					425.961	353.139	
18) L4 Aroclor-1242{2}	9.34	0.00	77395	0	143.965	N.D.	#
19) L4 Aroclor-1242{3}	10.54	8.84	38247	53183	39.348	38.130	
20) L4 Aroclor-1242{4}	0.00	9.24	0	89695	N.D.	146.582	#
21) L4 Aroclor-1242{5}	12.52	10.54	162629	275564	291.831	416.599	#
Sum Aroclor-1242			278271	418442	475.144	601.311	
Average Aroclor-1242					158.381	200.437	
22) L5 Aroclor-1248{1}	9.34	0.00	77395	0	269.189	N.D.	#
23) L5 Aroclor-1248{2}	10.54	8.84	38247	53183	45.594	43.862	
24) L5 Aroclor-1248{3}	12.52	10.54	162629	275564	213.833	293.273	#
25) L5 Aroclor-1248{4}	13.44	10.81	195942	144198	275.864	166.249	#

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(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_E\EA1859.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_E\EA1859.D\ECD2B.CH
Acq On : 19 Dec 97 2:27 Operator:
Sample : 278445 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	
26) L5	Aroclor-1248{5}	15.60	13.51	799919	1074007	2409.674	3034.575	#
Sum	Aroclor-1248			1274132	1546951	3214.155	3537.959	
Average	Aroclor-1248					642.831	884.490	
						NO	NO	
27) L6	Aroclor-1254{1}	11.60	9.86	171150	614891	457.468	997.576	#
28) L6	Aroclor-1254{2}	13.79	11.69	473580	655003	798.069	530.289	#
29) L6	Aroclor-1254{3}	15.60	12.21	799919	499746	615.636	505.702	
30) L6	Aroclor-1254{4}	16.52	13.51	507921	1074007	813.273	767.033	
31) L6	Aroclor-1254{5}	17.74	15.59	924305	1222309	762.068	889.803	
Sum	Aroclor-1254			2876875	4065955	3446.515	3690.402	
Average	Aroclor-1254					689.303	738.080	
32) L7	Aroclor-1260{1}	0.00	13.96	0	587818	N.D.	535.780	#
33) L7	Aroclor-1260{2}	16.52	14.60	507921	642108	430.844	441.035	
34) L7	Aroclor-1260{3}	18.93	15.59	228077	1222309	274.911	644.059	#
35) L7	Aroclor-1260{4}	19.47	17.41	233124	224844	121.633	100.835	
36) L7	Aroclor-1260{5}	0.00	18.41	0	202929	N.D.	124.588	#
Sum	Aroclor-1260			969122	2880007	827.388	1846.297	
Average	Aroclor-1260					275.796	369.259	
						NO	NO	

12/12/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1859.D\ECD1A.CH Vial: 4
Signal #2 : E:\WESTDA~1\EA1859.D\ECD2B.CH
Acq On : 19 Dec 97 2:27 Operator:
Sample : 278445 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:27 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	626298	910054	44.034	42.030
Spiked Amount 40.000 Range 43 - 150 Recovery =					110.09%	105.08%
2) SA Decachlorobiphen	25.84	21.41	874728	836686	37.191m	36.675
Spiked Amount 40.000 Range 24 - 154 Recovery =					92.98%	91.69%

Target Compounds

362A

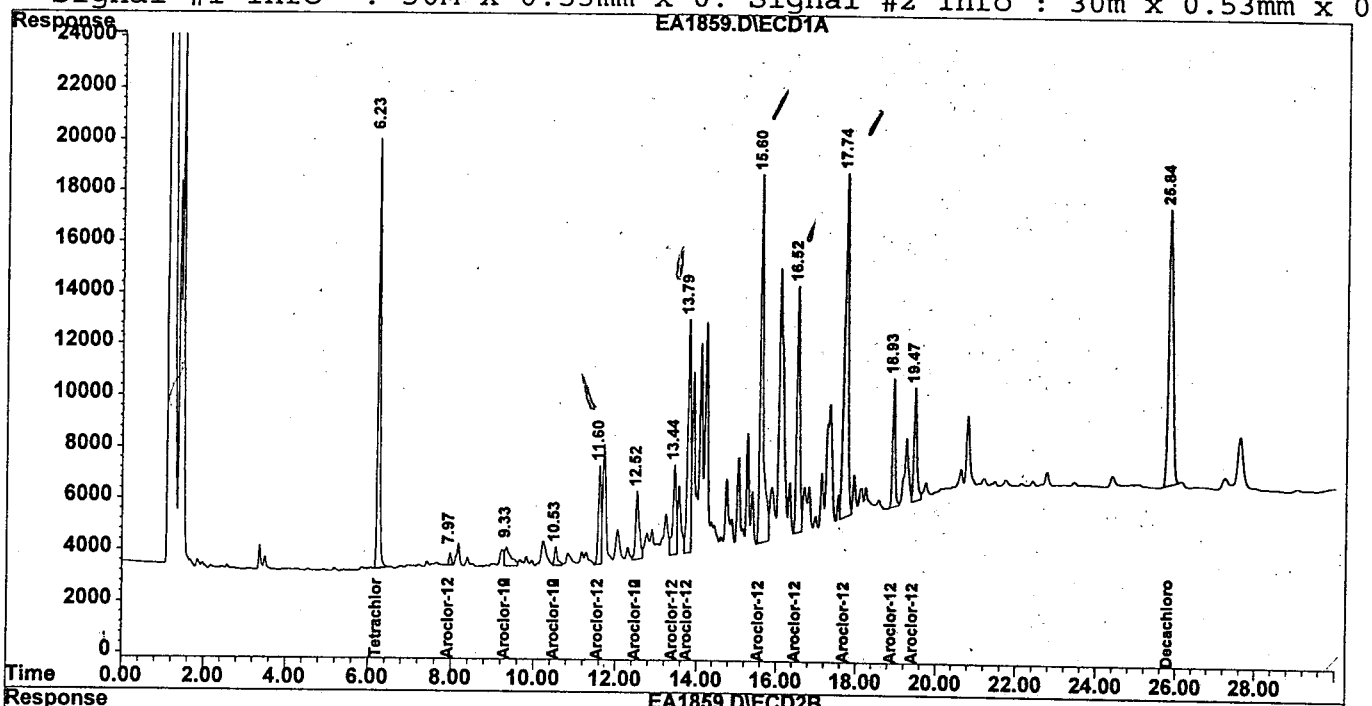
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

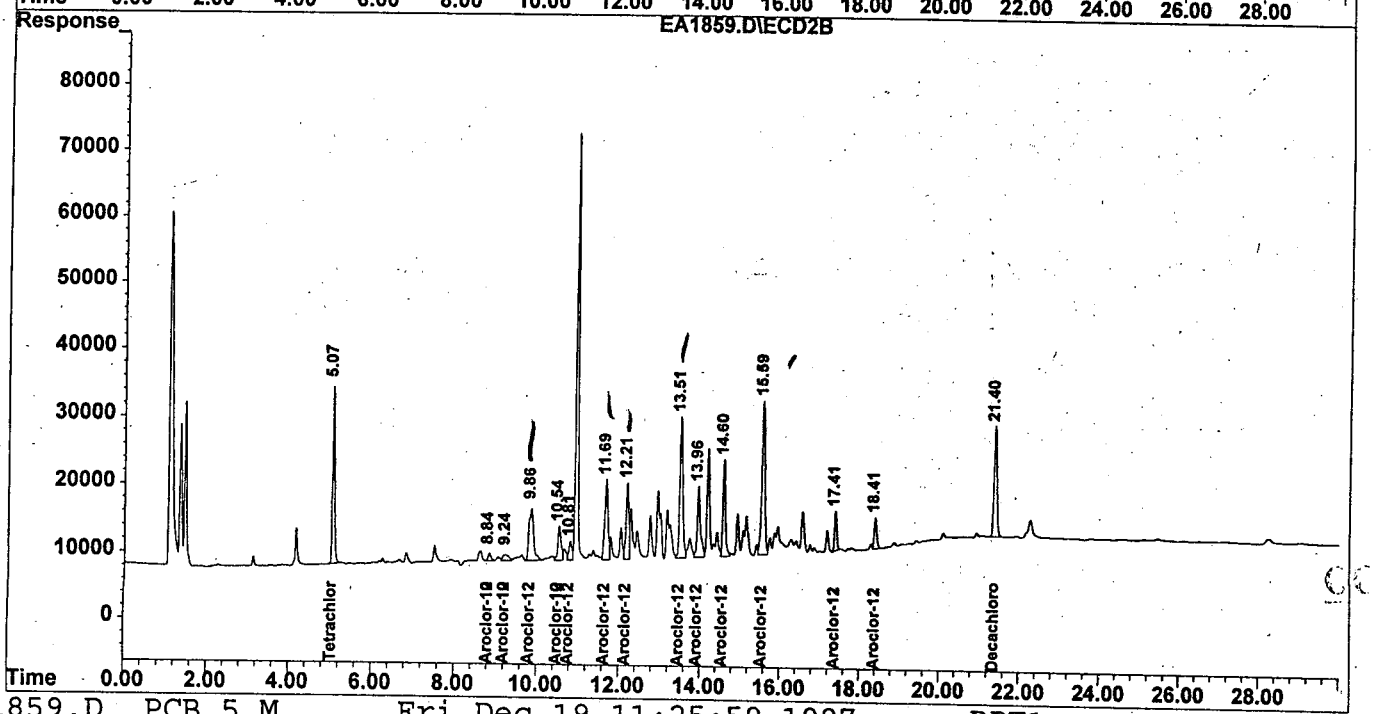
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1859.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA_E\EA1859.D\ECD2B.CH
Acq On : 19 Dec 97 2:27 Operator:
Sample : 278445 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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





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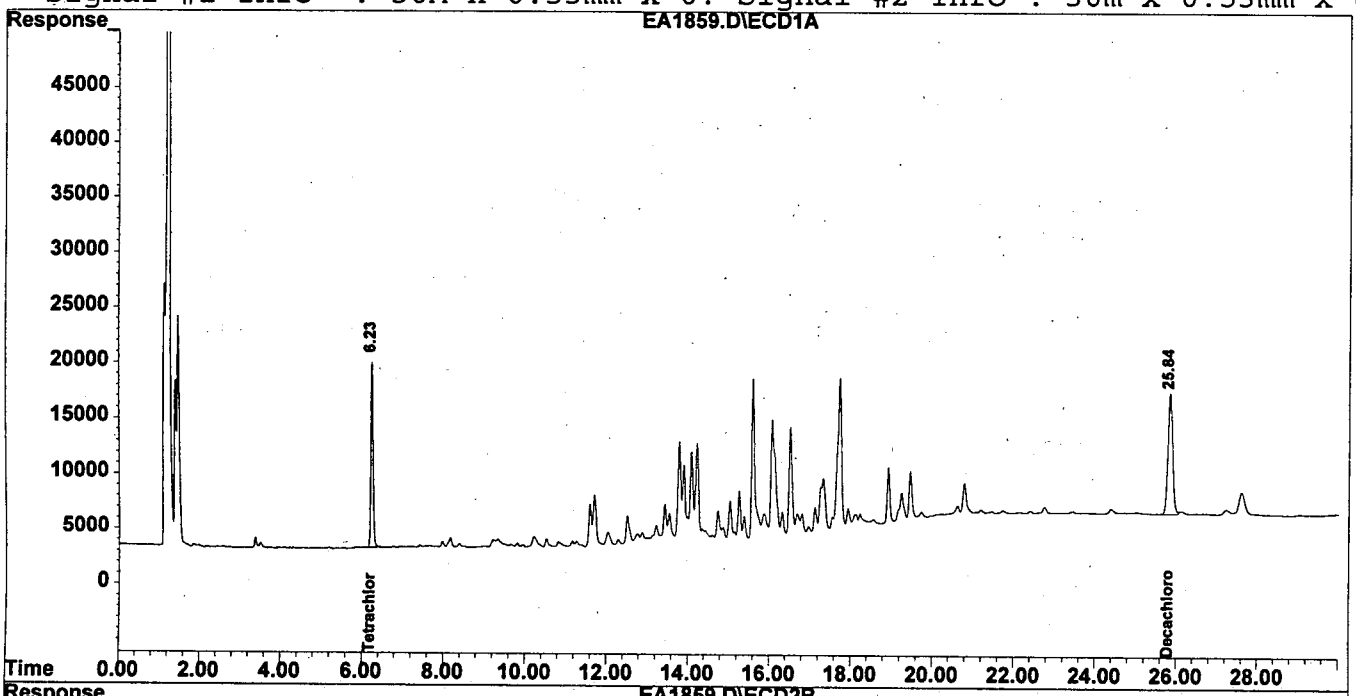
Quantitation Report

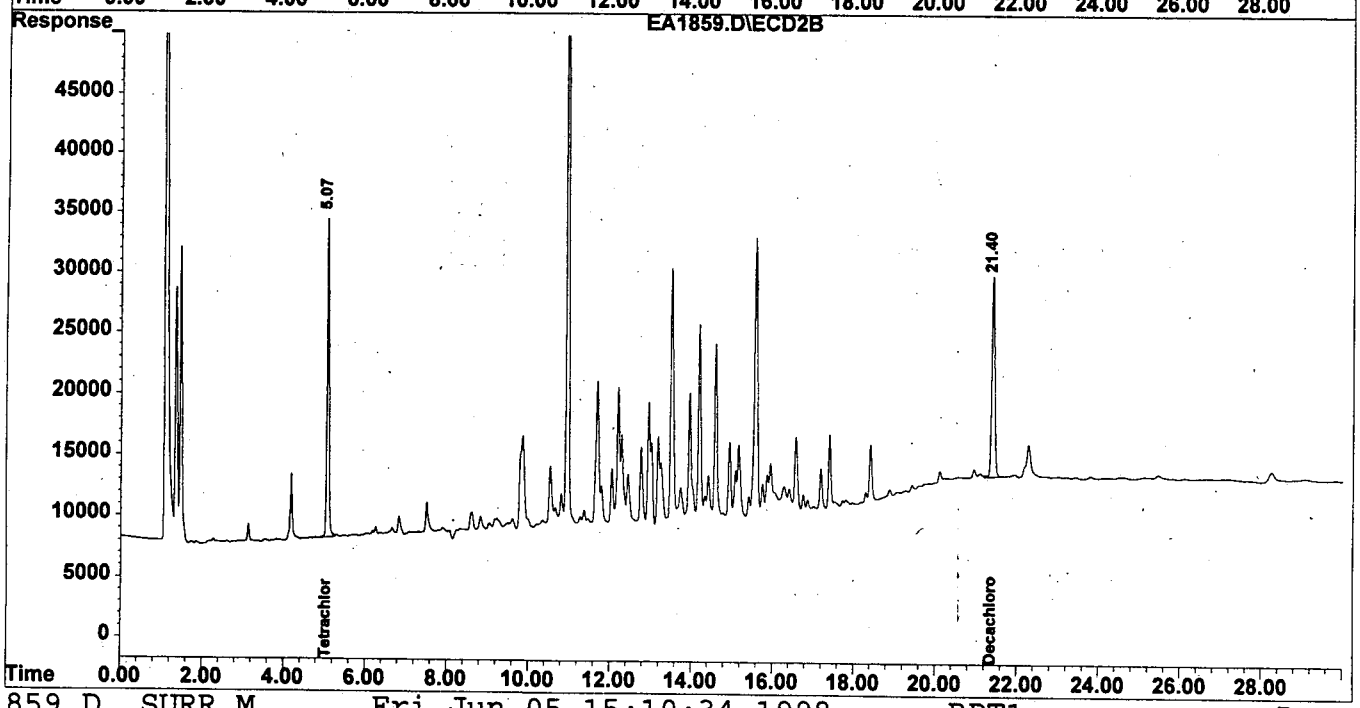
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1859.D\ECD1A.CH Vial: 4
Signal #2 : E:\WESTDA~1\EA1859.D\ECD2B.CH
Acq On : 19 Dec 97 2:27 Operator:
Sample : 278445 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:27 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278446
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUND1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	13.99%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	39	19
Aroclor-1221	U	U	78	54
Aroclor-1232	U	U	39	31
Aroclor-1242	U	U	39	19
Aroclor-1248	U	U	39	23
Aroclor-1254	U	U	39	27
Aroclor-1260	U	U	39	31

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1860.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_E\EA1860.D\ECD2B.CH
Acq On : 19 Dec 97 3:01 Operator:
Sample : 278446 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	6.23	5.07	618913	883115	44.987	44.404	
Spiked Amount 40.000 Range 43 - 150 Recovery =					112.47%	111.01%	
2) SA Decachlorobiphen	25.85	21.41	856559	787734	36.814	36.251	
Spiked Amount 40.000 Range 24 - 154 Recovery =					92.04%	90.63%	
Target Compounds							
Sum Aroclor-1016			0	0	N.D.	N.D.	
Average Aroclor-1016					0.000	0.000	
9) L2 Aroclor-1221{2}	7.42	0.00	6151	0	64.820	N.D.	#
Sum Aroclor-1221			6151	0	64.820	N.D.	
Average Aroclor-1221					64.820	0.000	
16) L3 Aroclor-1232{5}	13.44	0.00	459908	0	2027.455	N.D.	#
Sum Aroclor-1232			459908	0	2027.455	N.D.	
Average Aroclor-1232					2027.455	0.000	
Sum Aroclor-1242			0	0	N.D.	N.D.	
Average Aroclor-1242					0.000	0.000	
25) L5 Aroclor-1248{4}	13.44	0.00	459908	0	647.496	N.D.	#
26) L5 Aroclor-1248{5}	15.61	13.52	24248	42801	73.045	120.933	#
Sum Aroclor-1248			484156	42801	720.541	120.933	
Average Aroclor-1248					360.270	120.933	
28) L6 Aroclor-1254{2}	13.80	11.70	57894	16517	97.562	13.372	#
29) L6 Aroclor-1254{3}	15.61	12.21	24248	32458	18.662	32.845	#
30) L6 Aroclor-1254{4}	16.53	13.52	27972	42801	44.788	30.568	#
31) L6 Aroclor-1254{5}	17.74	15.60	32849	68112	27.084	49.583	#
Sum Aroclor-1254			142963	159888	188.095	126.368	
Average Aroclor-1254					47.024	31.592	
32) L7 Aroclor-1260{1}	16.15	13.97	27770	24451	28.584	22.286	
33) L7 Aroclor-1260{2}	16.53	14.61	27972	38762	23.727	26.624	
34) L7 Aroclor-1260{3}	0.00	15.60	0	68112	N.D.	35.889	#

(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_E\EA1860.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_E\EA1860.D\ECD2B.CH
Acq On : 19 Dec 97 3:01 Operator:
Sample : 278446 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	
35) L7	Aroclor-1260{4}	19.48	0.00	45912	0	23.955	N.D.	#
36) L7	Aroclor-1260{5}	20.81	0.00	10787	0	6.903	N.D.	#
Sum	Aroclor-1260			112440	131324	83.168	84.799	
Average	Aroclor-1260					20.792	28.266	

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TPS 12/19/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1860.D\ECD1A.CH Vial: 5
Signal #2 : E:\WESTDA~1\EA1860.D\ECD2B.CH
Acq On : 19 Dec 97 3:01 Operator:
Sample : 278446 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:27 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	618913	884802	43.514	40.864
Spiked Amount 40.000 Range 43 - 150 Recovery =					108.79%	102.16%
2) SA Decachlorobiphen	25.85	21.41	857589	800245	36.462m	35.077m
Spiked Amount 40.000 Range 24 - 154 Recovery =					91.16%	87.69%
Target Compounds						

- 366A 6/5/98

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

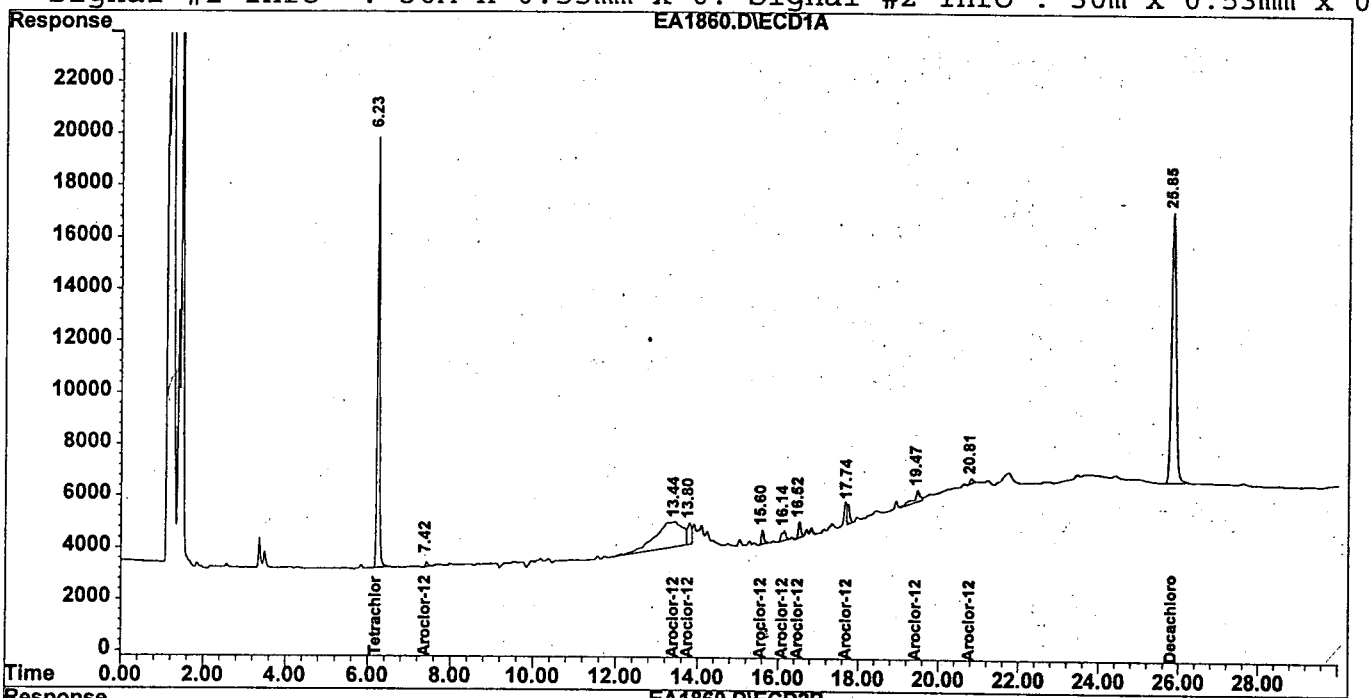
Quantitation Report

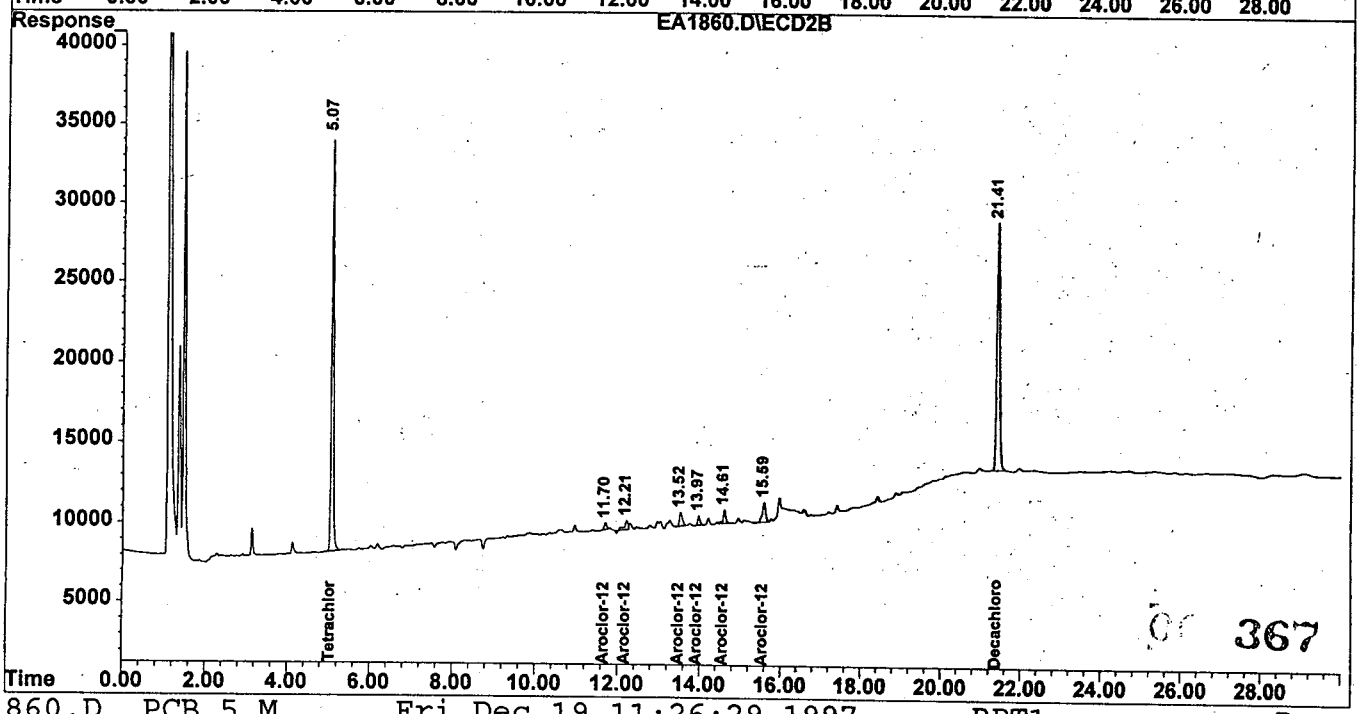
Signal #1 : C:\HPCHEM\1\DATA_E\EA1860.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA_E\EA1860.D\ECD2B.CH
Acq On : 19 Dec 97 3:01 Operator:
Sample : 278446 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 1997 Quant Results 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

ND

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





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Quantitation Report

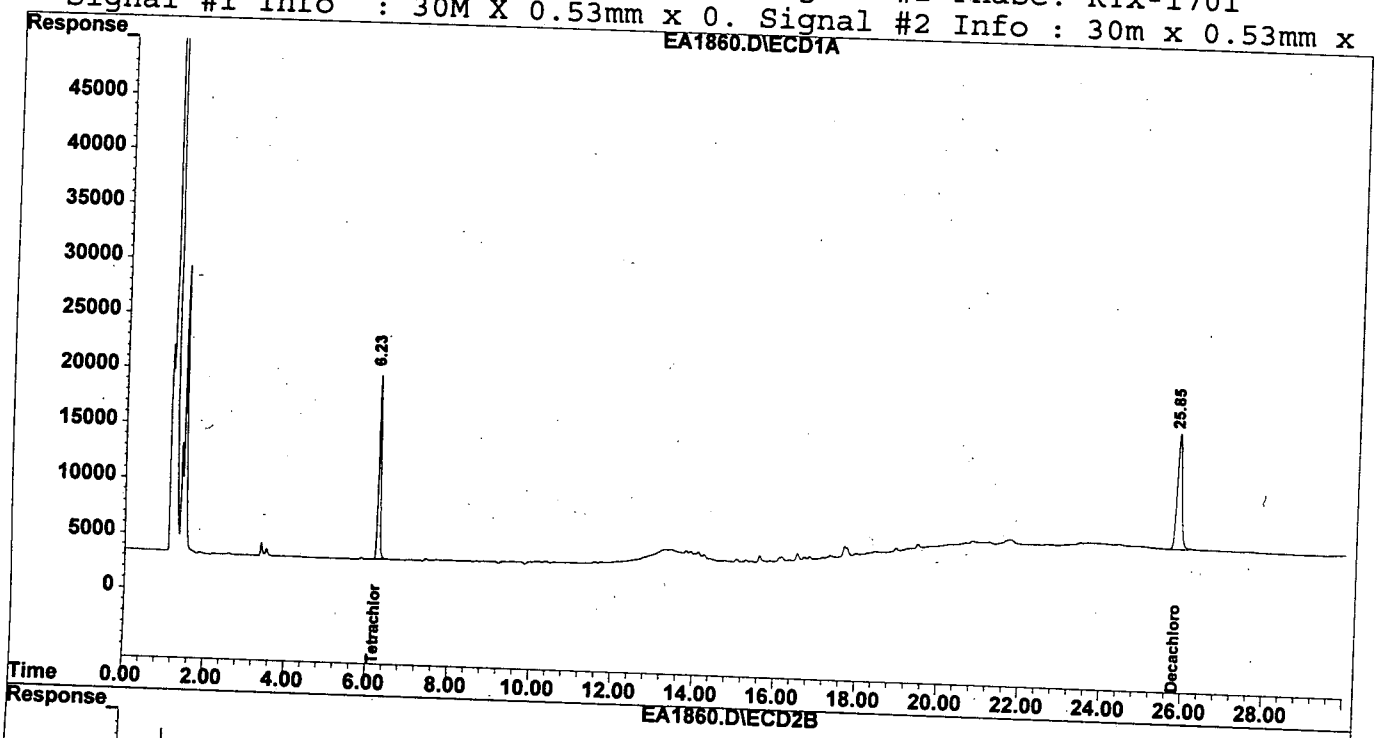
AMENDED REPORT JUN 0 8 1998

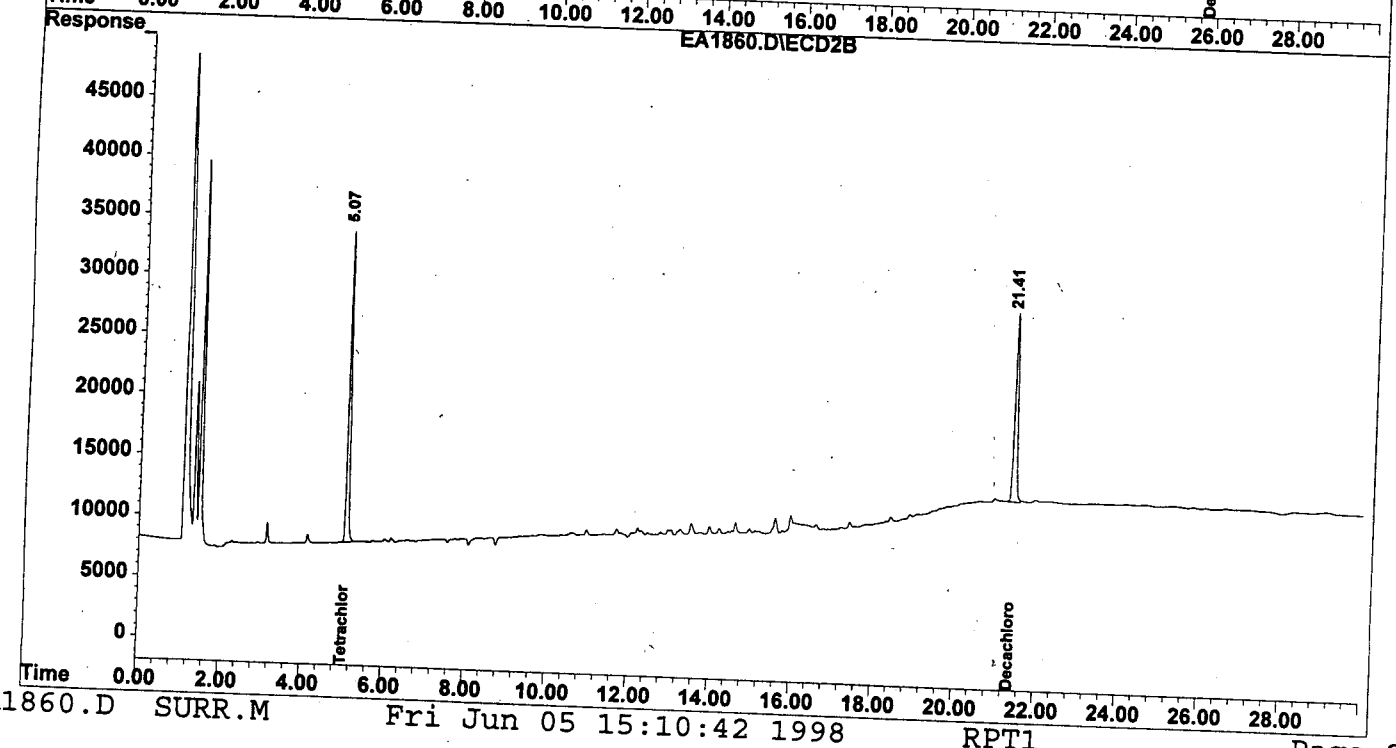
Signal #1 : E:\WESTDA~1\EA1860.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\EA1860.D\ECD2B.CH
Acq On : 19 Dec 97 3:01
Sample : 278446
Misc : QPC7408
IntFile Signal #1: EVENTS.E
Quant Time: Jun 5 14:27 1998

Vial: 5
Operator:
Inst : GC_5890_5
Multiplr: 1.00
IntFile Signal #2: EVENTS2.E
Quant Results File: SURR.RES

Quant Method : H:\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 #1 Info : 30M X 0.53mm x 0.
Signal #2 Phase: RTx-1701
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
DECEMBER 22, 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: 278447
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUNS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	8.43%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	36	18
Aroclor-1221	U	U	73	51
Aroclor-1232	U	U	36	29
Aroclor-1242	U	U	36	18
Aroclor-1248	U	U	36	22
Aroclor-1254	U	U	36	25
Aroclor-1260	U	U	36	29

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.

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Thomas Mancuso, Lab Mgr.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1861.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_E\EA1861.D\ECD2B.CH
Acq On : 19 Dec 97 3:34 Operator:
Sample : 278447 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	6.23	5.07	627716	892649	45.626	44.883	
Spiked Amount 40.000 Range 43 - 150 Recovery =					114.07%	112.21%	
2) SA Decachlorobiphen	25.85	21.41	876093	797213	37.654	36.688	
Spiked Amount 40.000 Range 24 - 154 Recovery =					94.14%	91.72%	
Target Compounds							
4) L1 Aroclor-1016{2}	9.36	0.00	180877	0	266.788	N.D.	#
Sum Aroclor-1016			180877	0	266.788	N.D.	
Average Aroclor-1016					266.788	0.000	
9) L2 Aroclor-1221{2}	7.42	0.00	5264	0	55.470	N.D.	#
Sum Aroclor-1221			5264	0	55.470	N.D.	
Average Aroclor-1221					55.470	0.000	
13) L3 Aroclor-1232{2}	9.36	0.00	180877	0	582.440	N.D.	#
16) L3 Aroclor-1232{5}	13.43	0.00	18206	0	80.260	N.D.	#
Sum Aroclor-1232			199083	0	662.700	N.D.	
Average Aroclor-1232					331.350	0.000	
18) L4 Aroclor-1242{2}	9.36	0.00	180877	0	336.454	N.D.	#
Sum Aroclor-1242			180877	0	336.454	N.D.	
Average Aroclor-1242					336.454	0.000	
22) L5 Aroclor-1248{1}	9.36	0.00	180877	0	629.111	N.D.	#
25) L5 Aroclor-1248{4}	13.43	0.00	18206	0	25.632	N.D.	#
26) L5 Aroclor-1248{5}	15.60	13.52	19443	41627	58.569	117.615	#
Sum Aroclor-1248			218525	41627	713.312	117.615	
Average Aroclor-1248					237.771	117.615	
27) L6 Aroclor-1254{1}	11.55	0.00	10140	0	27.103	N.D.	#
28) L6 Aroclor-1254{2}	13.79	0.00	11126	0	18.749	N.D.	#
29) L6 Aroclor-1254{3}	15.60	12.21	19443	10766	14.963	10.894	#
30) L6 Aroclor-1254{4}	16.52	13.52	33641	41627	53.866	29.729	#
31) L6 Aroclor-1254{5}	17.74	15.59	72992	82327	60.181	59.931	
Sum Aroclor-1254			147342	134719	174.862	100.554	
Average Aroclor-1254					34.972	33.518	

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(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_E\EA1861.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_E\EA1861.D\ECD2B.CH
Acq On : 19 Dec 97 3:34 Operator:
Sample : 278447 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	
32) L7	Aroclor-1260{1}	16.14	13.96	29767	24281	30.640	22.131	#
33) L7	Aroclor-1260{2}	16.52	14.60	33641	33442	28.536	22.970	
34) L7	Aroclor-1260{3}	18.94	15.59	16652	82327	20.072	43.379	#
35) L7	Aroclor-1260{4}	19.47	0.00	64884	0	33.853	N.D.	#
36) L7	Aroclor-1260{5}	20.81	0.00	18583	0	11.892	N.D.	#
Sum	Aroclor-1260			163527	140049	124.993	88.480	
Average	Aroclor-1260					24.999	29.493	

NO NO

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12/12/98

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1861.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\EA1861.D\ECD2B.CH
Acq On : 19 Dec 97 3:34 Operator:
Sample : 278447 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:28 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	627716	896735	44.133	41.415
Spiked Amount 40.000 Range 43 - 150 Recovery =					110.33%	103.54%
2) SA Decachlorobiphen	25.85	21.41	877042	797338	37.289m	34.950m
Spiked Amount 40.000 Range 24 - 154 Recovery =					93.22%	87.38%

Target Compounds

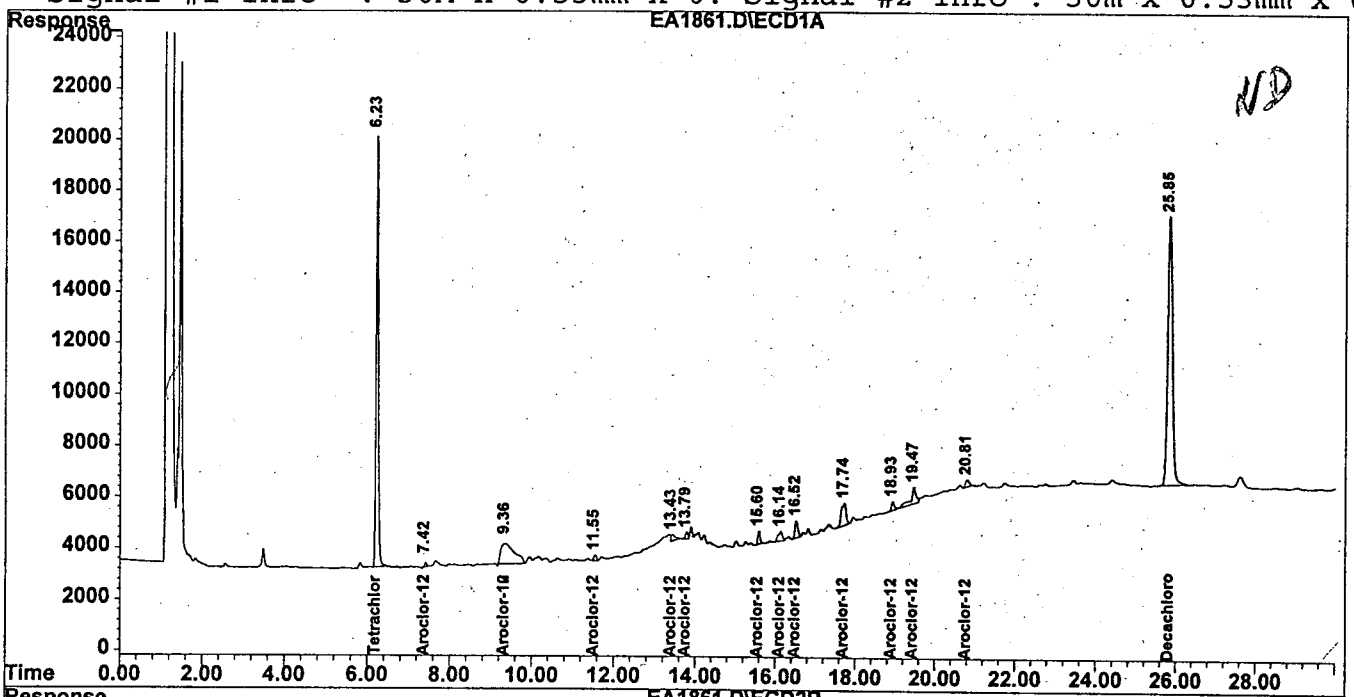
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

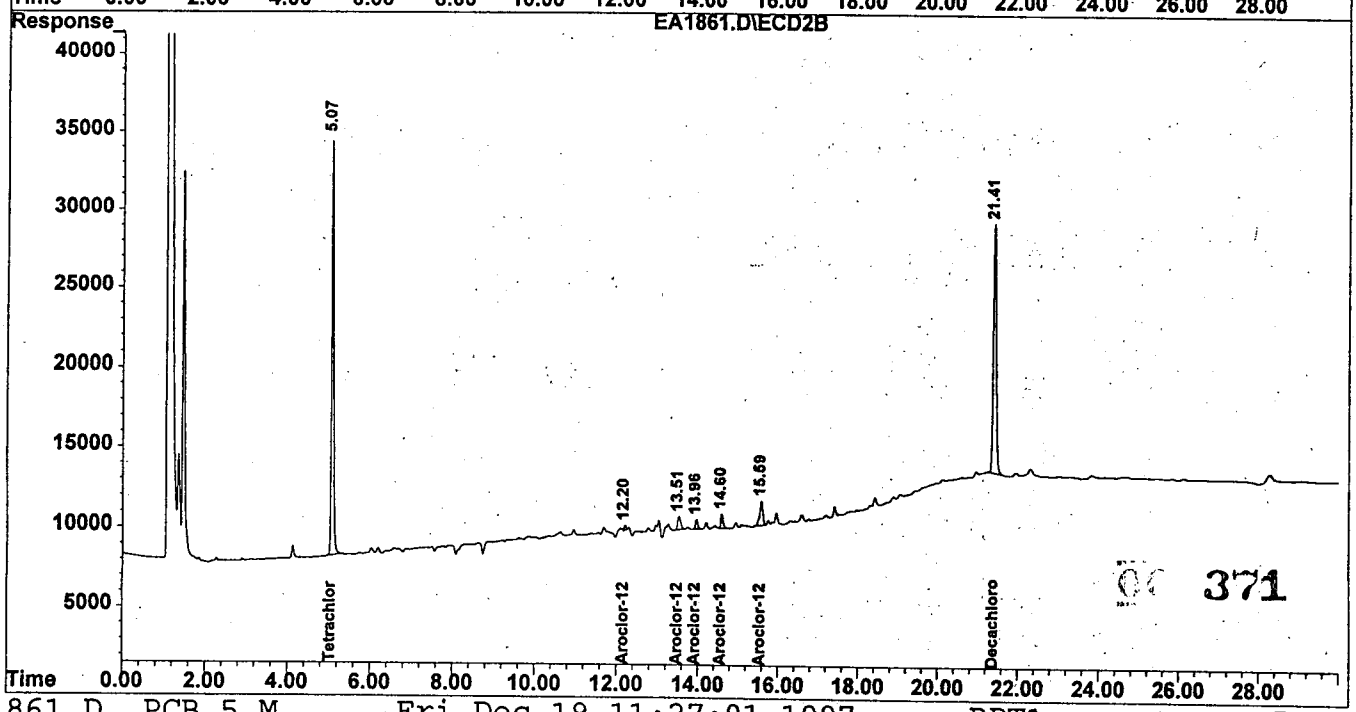
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1861.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA_E\EA1861.D\ECD2B.CH
Acq On : 19 Dec 97 3:34 Operator:
Sample : 278447 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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





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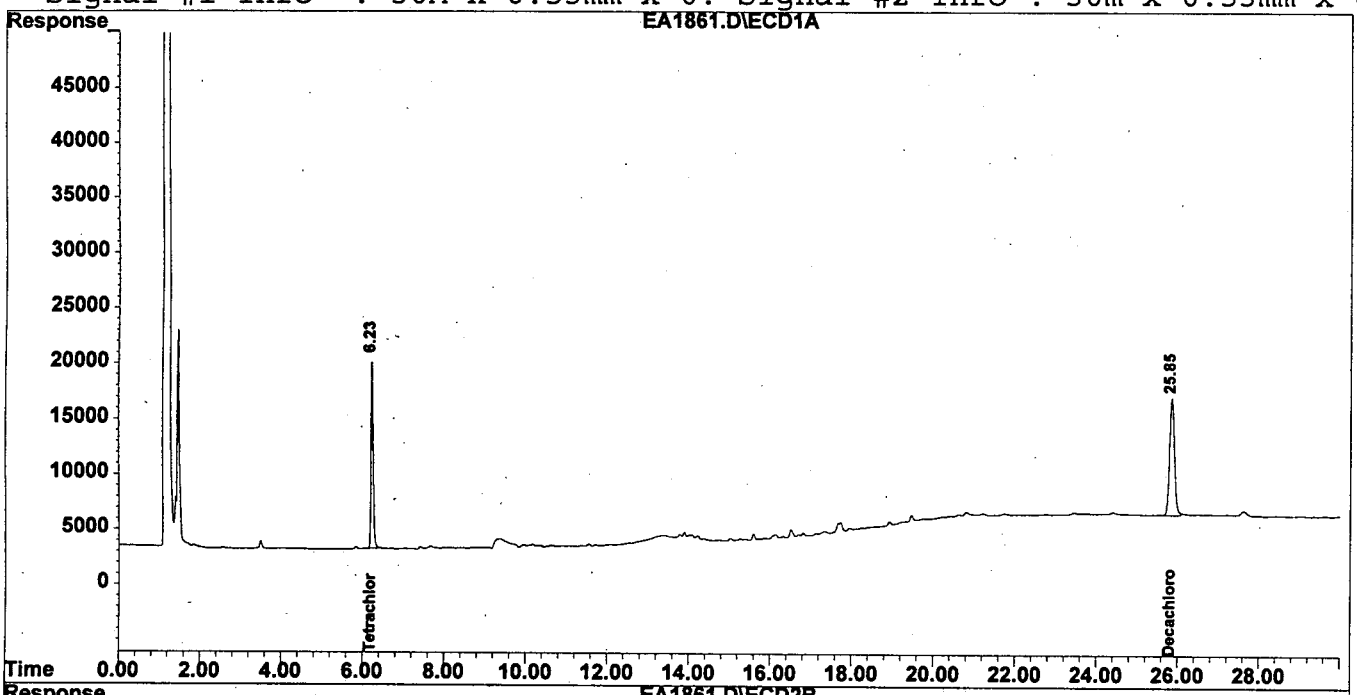
Quantitation Report

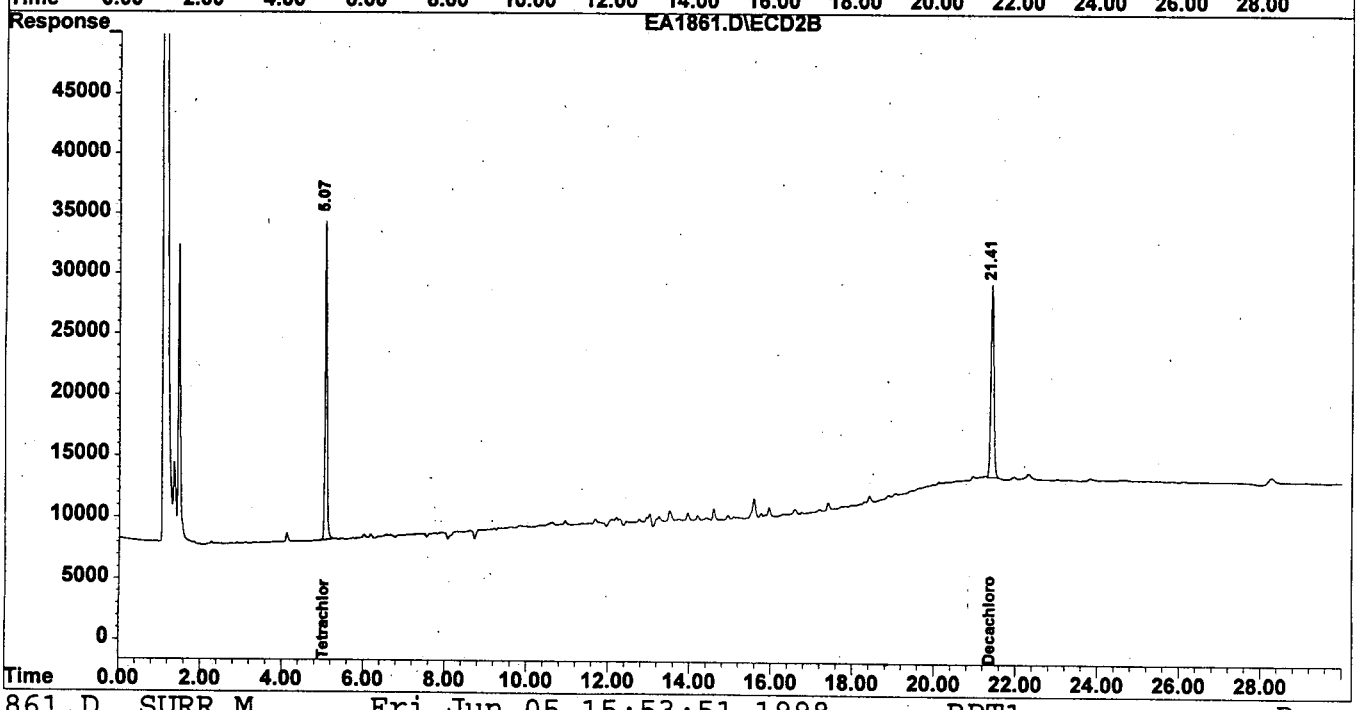
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1861.D\ECD1A.CH Vial: 6
Signal #2 : E:\WESTDA~1\EA1861.D\ECD2B.CH
Acq On : 19 Dec 97 3:34 Operator:
Sample : 278447 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:28 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278448
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUND2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	6.88%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	36	18
Aroclor-1221	U	U	72	50
Aroclor-1232	U	U	36	29
Aroclor-1242	U	U	36	18
Aroclor-1248	U	U	36	21
Aroclor-1254	U	U	36	25
Aroclor-1260	U	U	36	29

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.

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Thomas Mancuso, Lab Mgr.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1862.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_E\EA1862.D\ECD2B.CH
Acq On : 19 Dec 97 4:08 Operator:
Sample : 278448 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	6.24	5.07	643007	911470	46.738	45.829
Spiked Amount 40.000 Range 43 - 150 Recovery =					116.85%	114.57%
2) SA Decachlorobiphen	25.84	21.41	876390	823842	37.667	37.913
Spiked Amount 40.000 Range 24 - 154 Recovery =					94.17%	94.78%
Target Compounds						
6) L1 Aroclor-1016{4}	0.00	9.23	0	32574	N.D.	38.621 #
7) L1 Aroclor-1016{5}	0.00	10.63	0	21274	N.D.	25.253 #
Sum Aroclor-1016			0	53849	N.D.	63.875
Average Aroclor-1016					0.000	31.937
9) L2 Aroclor-1221{2}	7.43	0.00	7841	0	82.637	N.D. #
Sum Aroclor-1221			7841	0	82.637	N.D.
Average Aroclor-1221					82.637	0.000
15) L3 Aroclor-1232{4}	0.00	9.23	0	32574	N.D.	96.557 #
16) L3 Aroclor-1232{5}	0.00	10.63	0	21274	N.D.	55.807 #
Sum Aroclor-1232			0	53849	N.D.	152.364
Average Aroclor-1232					0.000	76.182
20) L4 Aroclor-1242{4}	0.00	9.23	0	32574	N.D.	53.234 #
21) L4 Aroclor-1242{5}	0.00	10.63	0	21274	N.D.	32.163 #
Sum Aroclor-1242			0	53849	N.D.	85.397
Average Aroclor-1242					0.000	42.699
24) L5 Aroclor-1248{3}	0.00	10.63	0	21274	N.D.	22.642 #
Sum Aroclor-1248			0	21274	N.D.	22.642
Average Aroclor-1248					0.000	22.642
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

373

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1862.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\EA1862.D\ECD2B.CH
Acq On : 19 Dec 97 4:08 Operator:
Sample : 278448 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:28 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	643007	912188	45.208	42.129
Spiked Amount 40.000 Range 43 - 150 Recovery =					113.02%	105.32%
2) SA Decachlorobiphen	25.84	21.41	900418	826111	38.283m	36.211m
Spiked Amount 40.000 Range 24 - 154 Recovery =					95.71%	90.53%
Target Compounds						

6/5/98

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

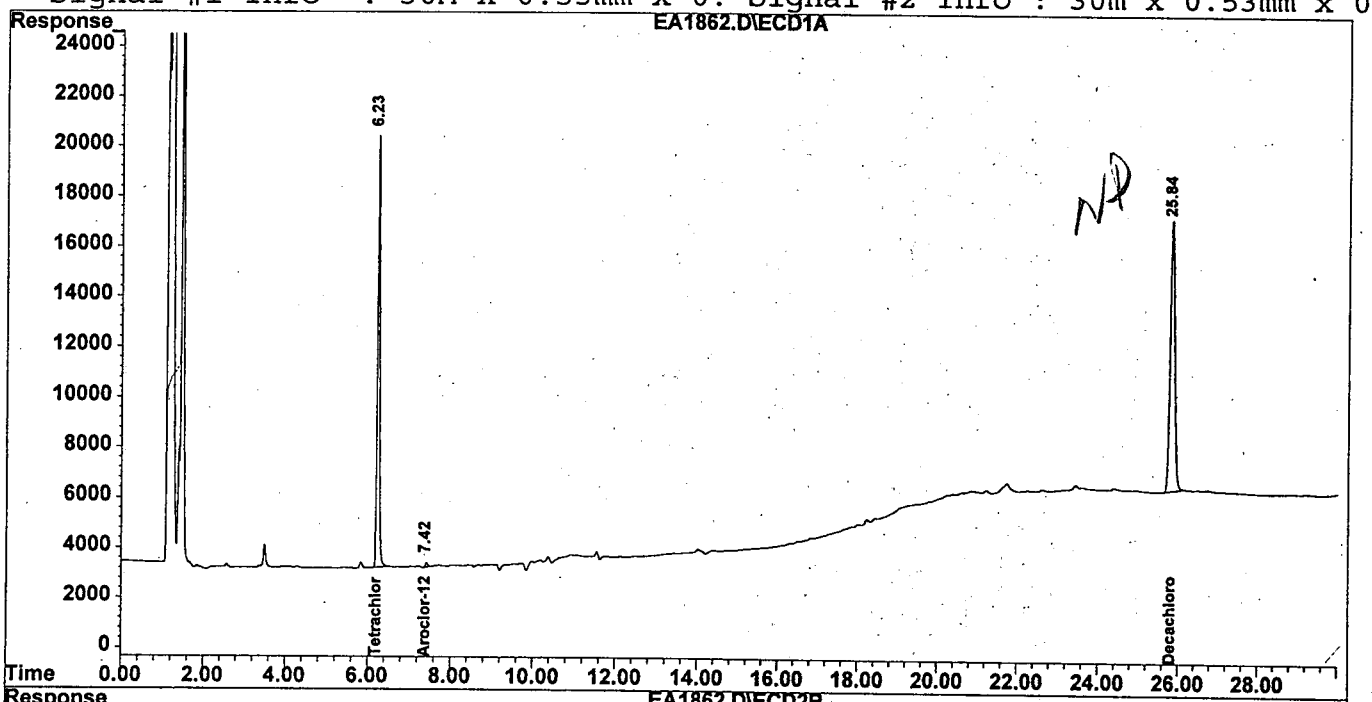
373A

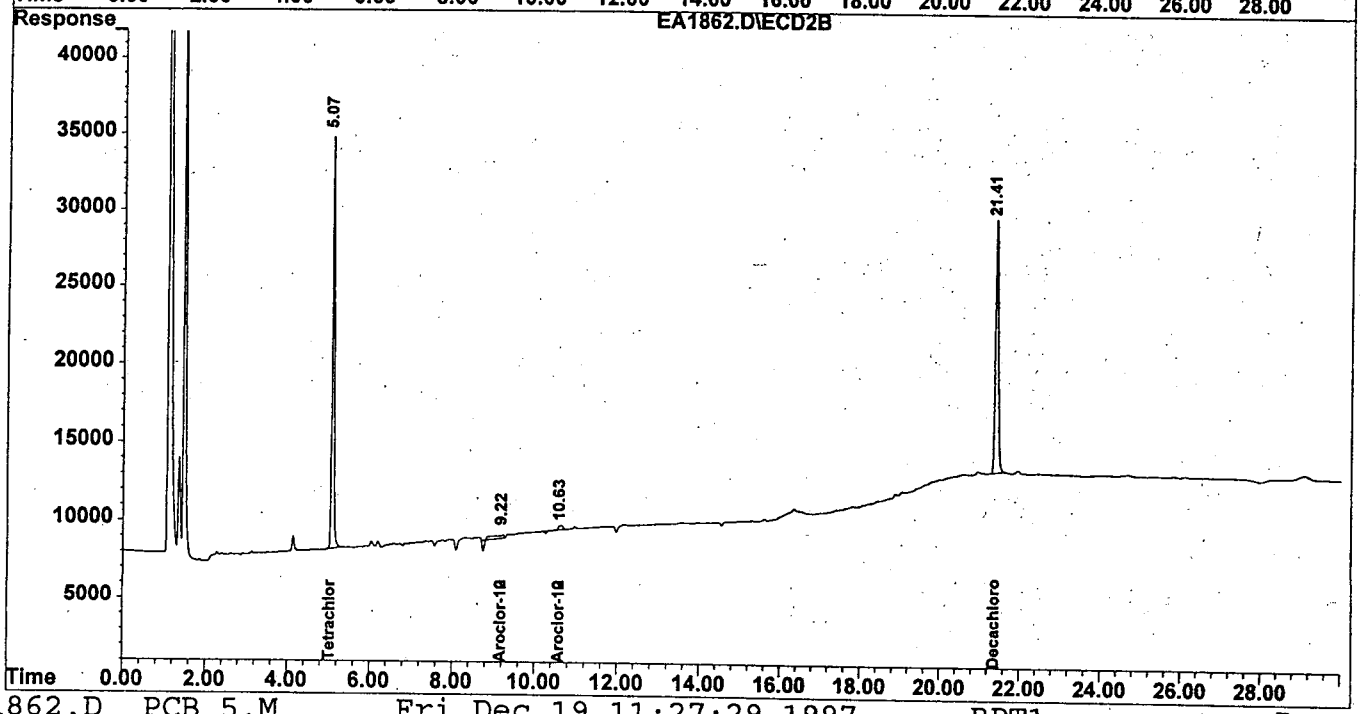
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1862.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_E\EA1862.D\ECD2B.CH
Acq On : 19 Dec 97 4:08 Operator:
Sample : 278448 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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





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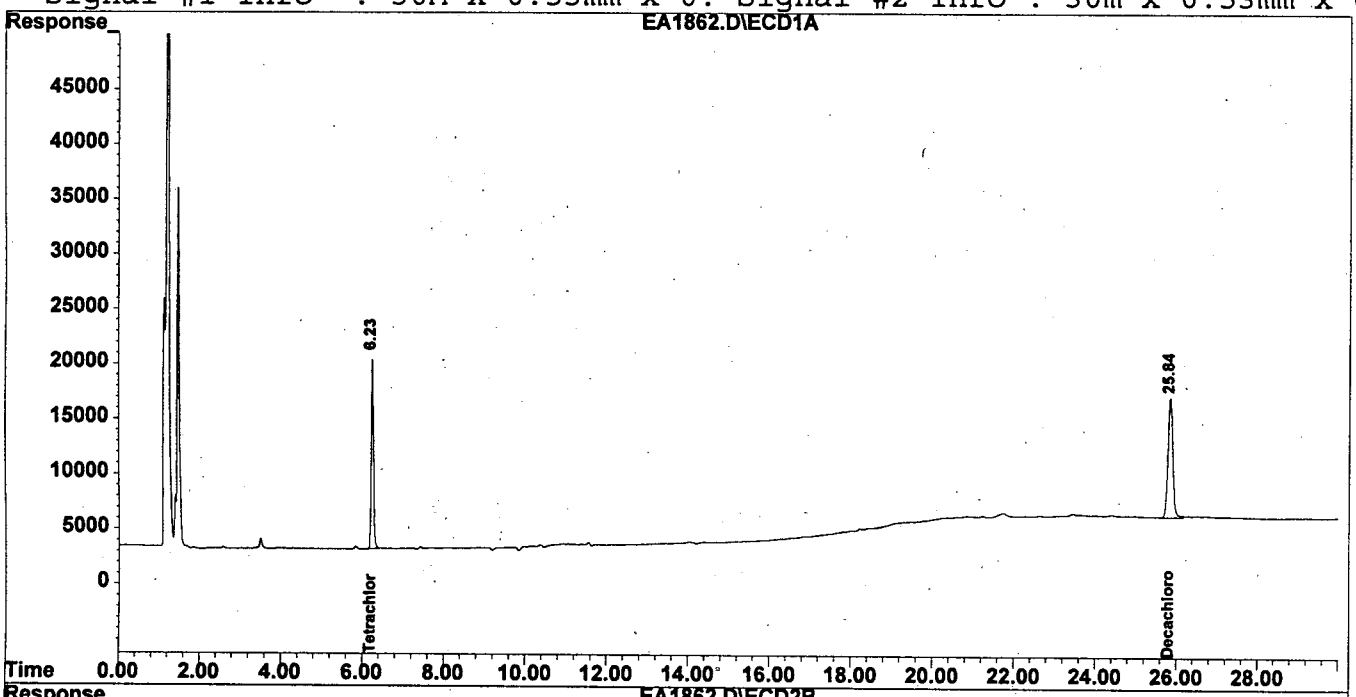
Quantitation Report

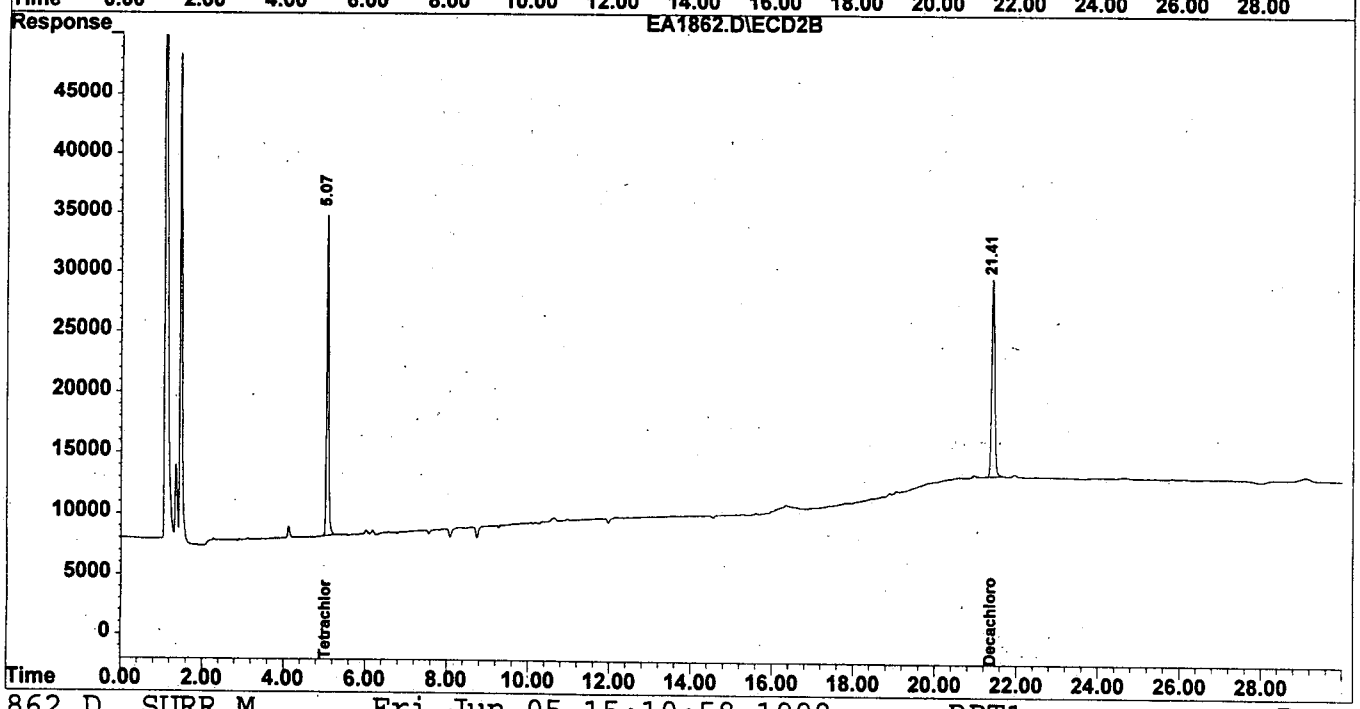
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1862.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\EA1862.D\ECD2B.CH
Acq On : 19 Dec 97 4:08 Operator:
Sample : 278448 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:28 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278449
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUSS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	49.91%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	66	33
Aroclor-1221	U	U	130	93
Aroclor-1232	U	U	66	53
Aroclor-1242	U	U	66	33
Aroclor-1248	U	U	66	40
Aroclor-1254	1900	U	66	46
Aroclor-1260	U	U	66	53

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1863.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA_E\EA1863.D\ECD2B.CH
Acq On : 19 Dec 97 4:41 Operator:
Sample : 278449 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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	6.23	5.07	553686	764053	40.245	38.417
Spiked Amount 40.000 Range 43 - 150 Recovery =					100.61%	96.04%
2) SA Decachlorobiphen	25.85	21.41	1511086	1331447	64.945	61.273
Spiked Amount 40.000 Range 24 - 154 Recovery =					162.36%#	153.18%
Target Compounds						
3) L1 Aroclor-1016{1}	0.00	6.49	0	64200	N.D.	139.917 #
4) L1 Aroclor-1016{2}	9.34	7.57	166510	223968	245.598	257.177
5) L1 Aroclor-1016{3}	10.53	8.83	274079	361775	214.625	194.941
6) L1 Aroclor-1016{4}	0.00	9.24	0	297984	N.D.	353.299 #
7) L1 Aroclor-1016{5}	12.52	10.54	1041186	1551436	1594.921	1841.598
Sum Aroclor-1016			1481775	2499362	2055.144	2786.931
Average Aroclor-1016					685.048	557.386
					NP	NP
10) L2 Aroclor-1221{3}	7.83	6.49	54613	64200	396.563	100.238 #
11) L2 Aroclor-1221{4}	0.00	8.83	0	361775	N.D.	2634.005 #
Sum Aroclor-1221			54613	425975	396.563	2734.243
Average Aroclor-1221					396.563	1367.122
					NP	NP
12) L3 Aroclor-1232{1}	0.00	6.49	0	64200	N.D.	155.340 #
13) L3 Aroclor-1232{2}	9.34	7.57	166510	223968	536.179	610.157
14) L3 Aroclor-1232{3}	10.53	8.83	274079	361775	538.924	480.827
15) L3 Aroclor-1232{4}	12.52	9.24	1041186	297984	3301.156	883.278 #
16) L3 Aroclor-1232{5}	13.44	10.54	873069	1551436	3848.828	4069.745
Sum Aroclor-1232			2354843	2499362	8225.087	6199.346
Average Aroclor-1232					2056.272	1239.869
					NP	NP
17) L4 Aroclor-1242{1}	0.00	6.49	0	64200	N.D.	176.041 #
18) L4 Aroclor-1242{2}	9.34	7.57	166510	223968	309.731	345.155
19) L4 Aroclor-1242{3}	10.53	8.83	274079	361775	281.967	259.377
20) L4 Aroclor-1242{4}	0.00	9.24	0	297984	N.D.	486.975 #
21) L4 Aroclor-1242{5}	12.52	10.54	1041186	1551436	1868.371	2345.470 #
Sum Aroclor-1242			1481775	2499362	2460.069	3613.018
Average Aroclor-1242					820.023	722.604
					NP	NP

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TPO 12/12/02

(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_E\EA1863.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA_E\EA1863.D\ECD2B.CH
Acq On : 19 Dec 97 4:41 Operator:
Sample : 278449 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 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}	9.34	7.57	166510	223968	579.143	629.178	
23) L5	Aroclor-1248{2}	10.53	8.83	274079	361775	326.728	298.366	
24) L5	Aroclor-1248{3}	12.52	10.54	1041186	1551436	1369.009	1651.141	
25) L5	Aroclor-1248{4}	13.44	10.81	873069	962748	1229.178	1109.973	
26) L5	Aroclor-1248{5}	15.60	13.51	4234555	4988515	12756.167	14094.907	
Sum	Aroclor-1248			6589398	8088442	16260.225	17783.566	
Average	Aroclor-1248					3252.045	3556.713	
						NP	NP	
27) L6	Aroclor-1254{1}	11.60	9.81	1120904	1324290	2996.068	2148.479	#
28) L6	Aroclor-1254{2}	13.79	11.69	2593385	3441302	4370.328	2786.070	#
29) L6	Aroclor-1254{3}	15.60	12.21	4234555	2339203	3259.013	2367.081	#
30) L6	Aroclor-1254{4}	16.52	13.51	2134060	4988515	3417.012	3562.691	
31) L6	Aroclor-1254{5}	17.74	15.59	3894606	5066587	3211.014	3688.320	
Sum	Aroclor-1254			13977509	17159897	17253.436	~~14552.641~~	
Average	Aroclor-1254					3450.687	2910.528	
32) L7	Aroclor-1260{1}	0.00	13.96	0	2495585	N.D.	2274.660	#
33) L7	Aroclor-1260{2}	16.52	14.60	2134060	2536443	1810.215	1742.169	
34) L7	Aroclor-1260{3}	18.94	15.59	1002546	5066587	1208.411	2669.685	#
35) L7	Aroclor-1260{4}	19.48	17.42	968834	1009996	505.493	452.951	
36) L7	Aroclor-1260{5}	20.80	18.42	682743	763375	436.918	468.671	
Sum	Aroclor-1260			4788182	11871986	3961.037	7608.136	
Average	Aroclor-1260					990.259	1521.627	
						NP	NP	

CC 377

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 6 1998

Signal #1 : E:\WESTDA~1\EA1863.D\ECD1A.CH Vial: 8
Signal #2 : E:\WESTDA~1\EA1863.D\ECD2B.CH
Acq On : 19 Dec 97 4:41 Operator:
Sample : 278449 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:28 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	553686	753688	38.928	34.809m
Spiked Amount 40.000 Range 43 - 150 Recovery =					97.32%	87.02%
2) SA Decachlorobiphen	25.85	21.41	1478014	1387839	62.841m	60.833m
Spiked Amount 40.000 Range 24 - 154 Recovery =					157.10%#	152.08%

Target Compounds

3 7 7A DR 5/5/98

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

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1863.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA_E\EA1863.D\ECD2B.CH
Acq On : 19 Dec 97 4:41 Operator:
Sample : 278449 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:01 1997 Quant Results File: PCB_5.RES

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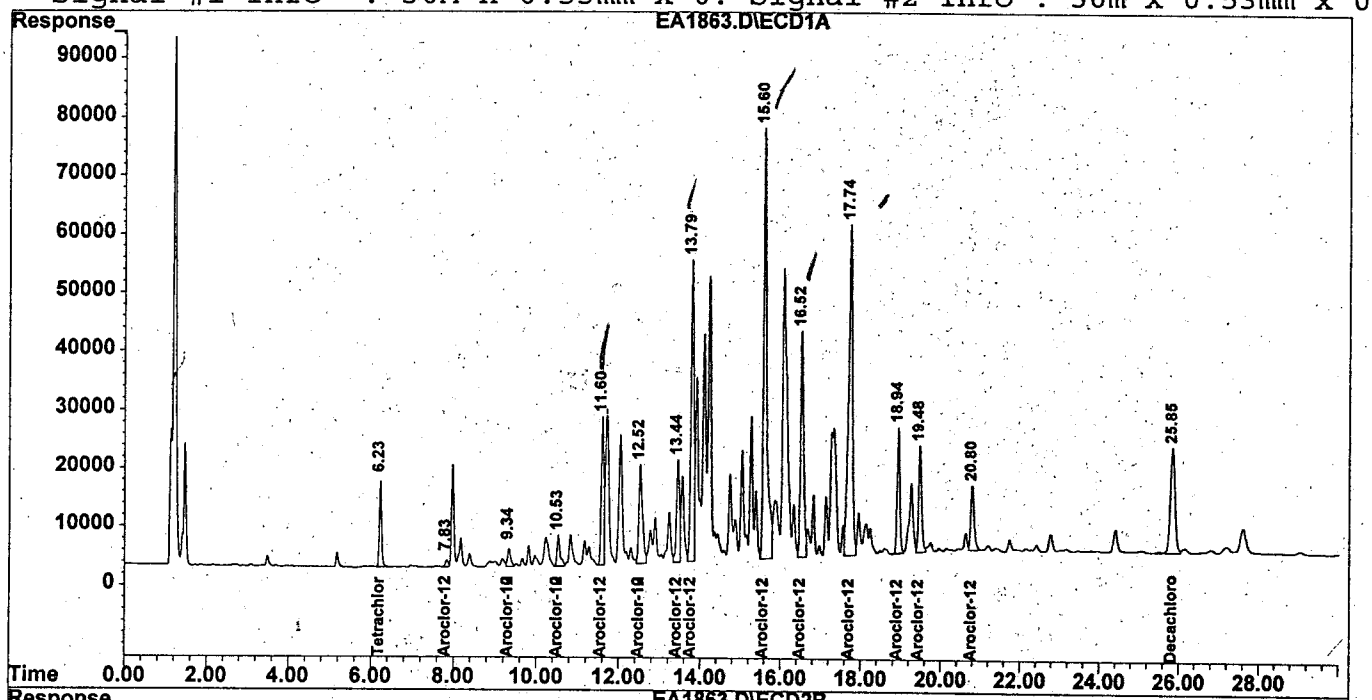
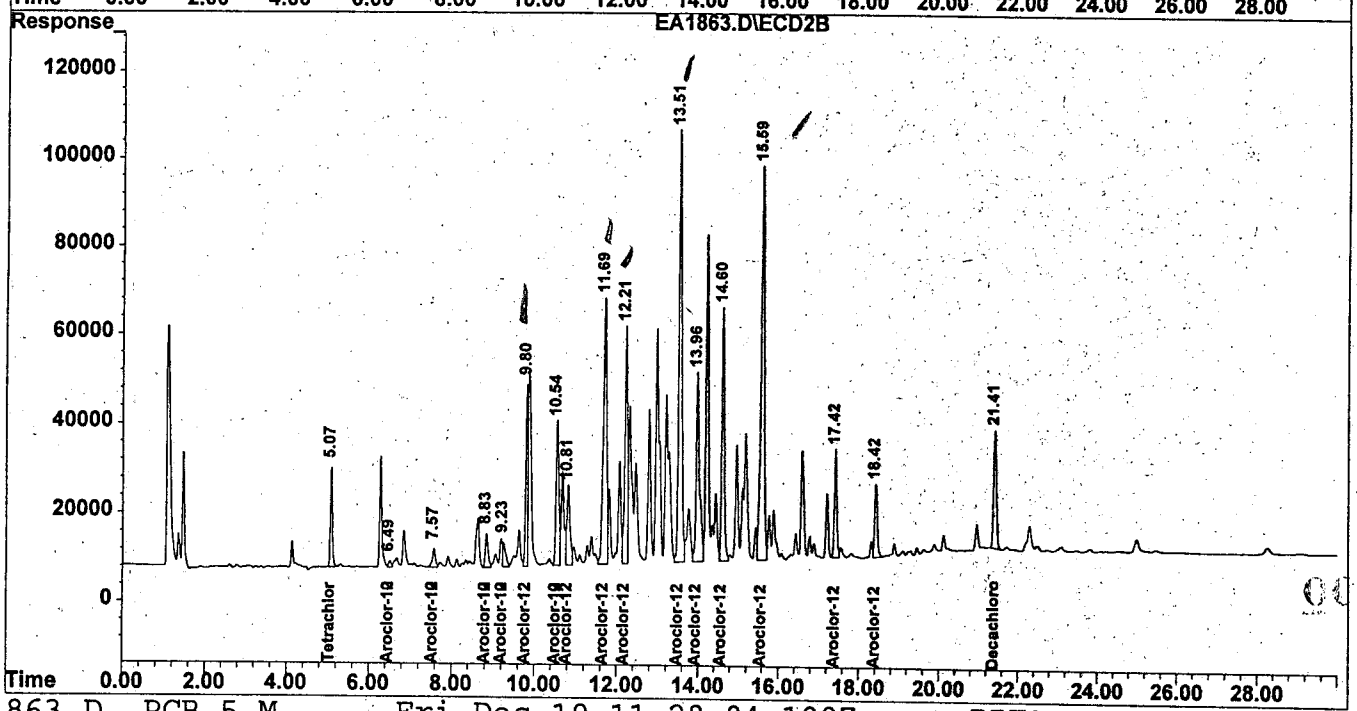
Title : Polychlorinated Biphenyls Method by 8080 and 608.
Last Update : Tue Dec 09 16:11:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : PCB_5.M

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





00 378

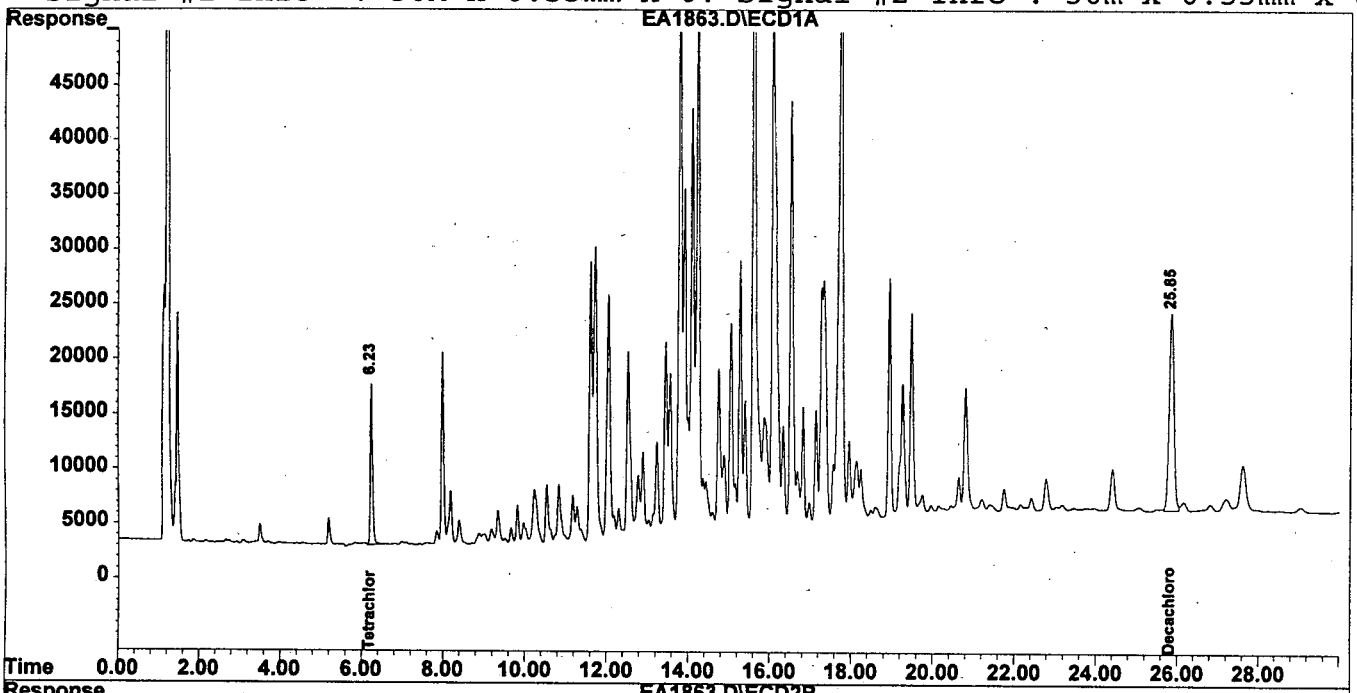
Quantitation Report

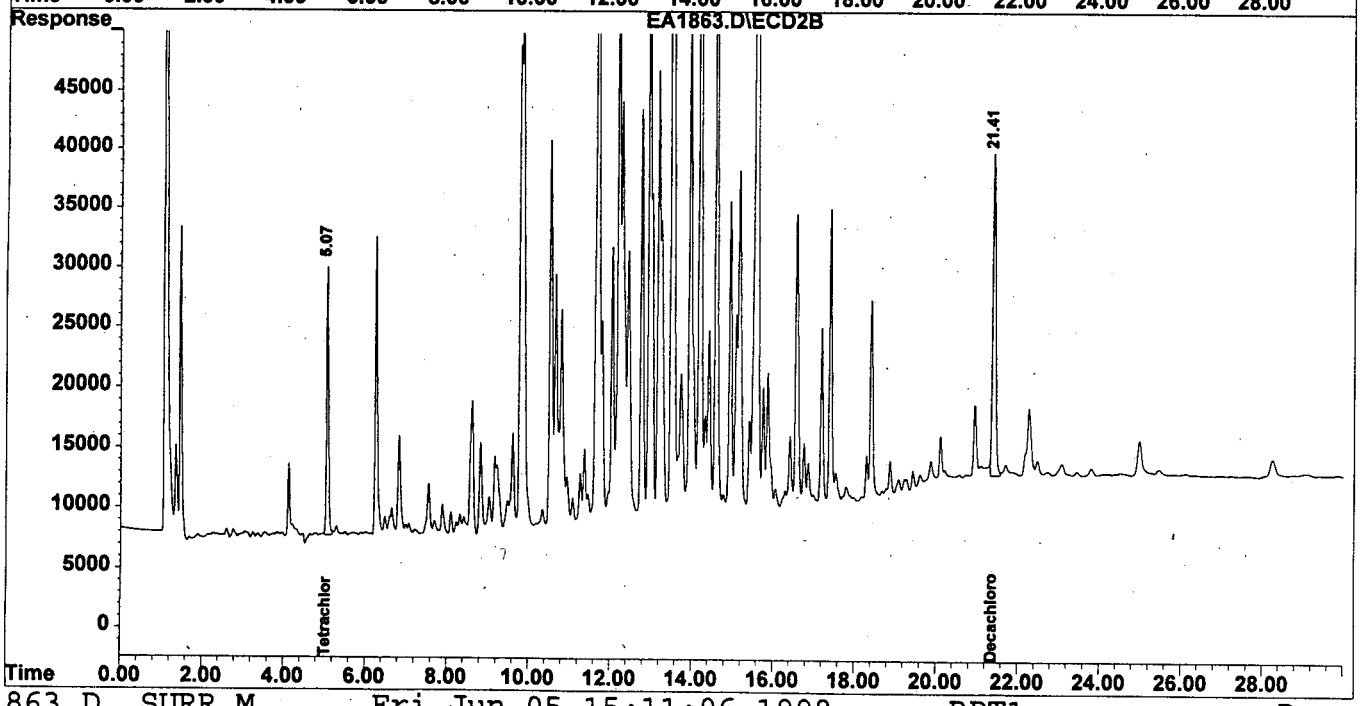
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1863.D\ECD1A.CH Vial: 8
Signal #2 : E:\WESTDA~1\EA1863.D\ECD2B.CH
Acq On : 19 Dec 97 4:41 Operator:
Sample : 278449 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:28 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278450
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUSD1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	37.15%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	260	130
Aroclor-1221	U	U	530	370
Aroclor-1232	U	U	260	210
Aroclor-1242	U	U	260	130
Aroclor-1248	U	U	260	160
Aroclor-1254	5200	U	260	180
Aroclor-1260	U	U	260	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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_E\EA1881.D\ECD1A.CH Vial: 26
Signal #2 : F:\1\DATA_E\EA1881.D\ECD2B.CH
Acq On : 19 Dec 97 15:05 Operator:
Sample : 278450 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:38 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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	6.23	5.06	115953	159112	8.428	8.000
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.07%#	20.00%#
2) SA Decachlorobiphen	25.82	21.39	236926	196021	10.183	9.021
Spiked Amount 40.000 Range 24 - 154 Recovery =					25.46%	22.55%#
Target Compounds						
4) L1 Aroclor-1016{2}	9.33	7.55	69360	134484	102.305	154.425 #
5) L1 Aroclor-1016{3}	10.52	8.82	176410	238963	138.142	128.764
6) L1 Aroclor-1016{4}	0.00	9.22	0	164004	N.D.	194.448 #
7) L1 Aroclor-1016{5}	12.51	10.52	1089650	1506351	1669.160	1788.080
Sum Aroclor-1016			1335420	2043803	1909.607	2265.718
Average Aroclor-1016					636.536	566.430
					NP	NP
11) L2 Aroclor-1221{4}	0.00	8.82	0	238963	N.D.	1739.841 #
Sum Aroclor-1221			0	238963	N.D.	1739.841
Average Aroclor-1221					0.000	1739.841
12) L3 Aroclor-1232{1}	8.12	0.00	28871	0	99.627	N.D. #
13) L3 Aroclor-1232{2}	9.33	7.55	69360	134484	223.347	366.377 #
14) L3 Aroclor-1232{3}	10.52	8.82	176410	238963	346.876	317.601
15) L3 Aroclor-1232{4}	12.51	9.22	1089650	164004	3454.816	486.137 #
16) L3 Aroclor-1232{5}	13.43	10.52	590762	1506351	2604.311	3951.477 #
Sum Aroclor-1232			1955053	2043803	6728.976	5121.592
Average Aroclor-1232					1345.795	1280.398
					NP	NP
17) L4 Aroclor-1242{1}	8.12	0.00	28871	0	110.779	N.D. #
18) L4 Aroclor-1242{2}	9.33	7.55	69360	134484	129.019	207.253 #
19) L4 Aroclor-1242{3}	10.52	8.82	176410	238963	181.487	171.326
20) L4 Aroclor-1242{4}	0.00	9.22	0	164004	N.D.	268.020 #
21) L4 Aroclor-1242{5}	12.51	10.52	1089650	1506351	1955.338	2277.310
Sum Aroclor-1242			1364291	2043803	2376.623	2923.909
Average Aroclor-1242					594.156	730.977
					NP	NP
22) L5 Aroclor-1248{1}	9.33	7.55	69360	134484	241.244	377.799 #
23) L5 Aroclor-1248{2}	10.52	8.82	176410	238963	210.297	197.080
					NP	NP

380

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_E\EA1881.D\ECD1A.CH Vial: 26
Signal #2 : F:\1\DATA_E\EA1881.D\ECD2B.CH
Acq On : 19 Dec 97 15:05 Operator:
Sample : 278450 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:38 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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
24) L5	Aroclor-1248{3}	12.51	10.52	1089650	1506351	1432.733	1603.159
25) L5	Aroclor-1248{4}	13.54	10.79	525679	677565	740.094	781.179
26) L5	Aroclor-1248{5}	15.59	0.00	2825327	0	8511.011	N.D. #
Sum	Aroclor-1248			4686425	2557364	11135.378	2969.217
Average	Aroclor-1248					2227.076	739.804
						NP	NP
27) L6	Aroclor-1254{1}	11.59	9.79	1050865	1257824	2808.860	2040.647 #
28) L6	Aroclor-1254{2}	13.79	11.68	1222938	2485363	2060.875	2012.144
29) L6	Aroclor-1254{3}	15.59	12.19	2825327	1441243	2174.438	1458.419 #
30) L6	Aroclor-1254{4}	16.51	13.49	1031121	3271564	1651.010	2336.481 #
31) L6	Aroclor-1254{5}	17.73	15.57	2127001	2707626	1753.664	1971.068
Sum	Aroclor-1254			8257252	11163619	10448.847	~~9818.759~~
Average	Aroclor-1254					2089.769	1963.752
33) L7	Aroclor-1260{2}	16.51	14.58	1031121	1429203	874.648	981.655
34) L7	Aroclor-1260{3}	18.92	15.57	592742	2707626	714.457	1426.701 #
35) L7	Aroclor-1260{4}	19.46	17.40	354402	413390	184.911	185.392
Sum	Aroclor-1260			1978265	4550218	1774.015	2593.749
Average	Aroclor-1260					591.338	864.583
						NP	NP

TM 11/22/12

381

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 6 1998

Signal #1 : E:\WESTDA~1\EA1881.D\ECD1A.CH Vial: 26
Signal #2 : E:\WESTDA~1\EA1881.D\ECD2B.CH
Acq On : 19 Dec 97 15:05 Operator:
Sample : 278450 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:33 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.06	115953	167238	8.152	7.724
Spiked Amount 40.000 Range 43 - 150 Recovery =					20.38%#	19.31%#
2) SA Decachlorobiphen	25.82f	21.39	239491	205779	10.183m	9.020m
Spiked Amount 40.000 Range 24 - 154 Recovery =					25.46%	22.55%#

Target Compounds

3 8 1A

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

Quantitation Report

Signal #1 : F:\1\DATA_E\EA1881.D\ECD1A.CH Vial: 26
Signal #2 : F:\1\DATA_E\EA1881.D\ECD2B.CH
Acq On : 19 Dec 97 15:05 Operator:
Sample : 278450 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
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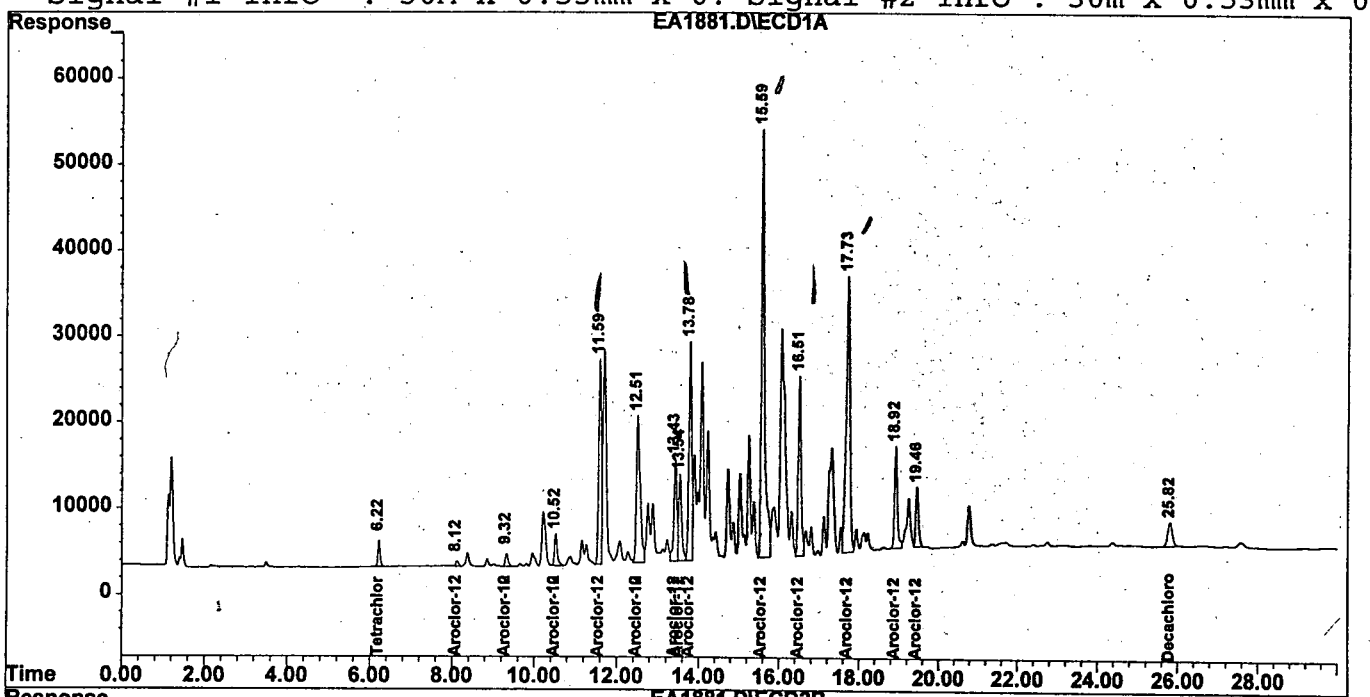
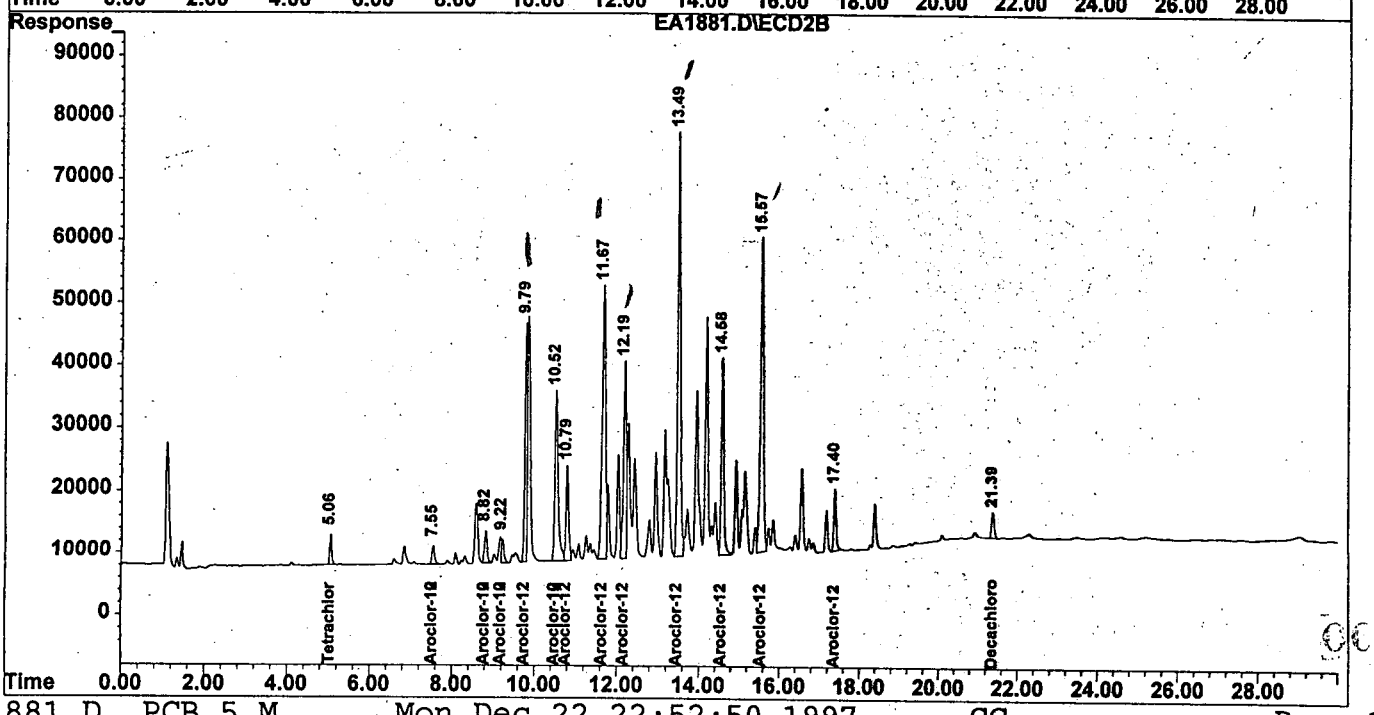
Quant Time: Dec 22 22:38 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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





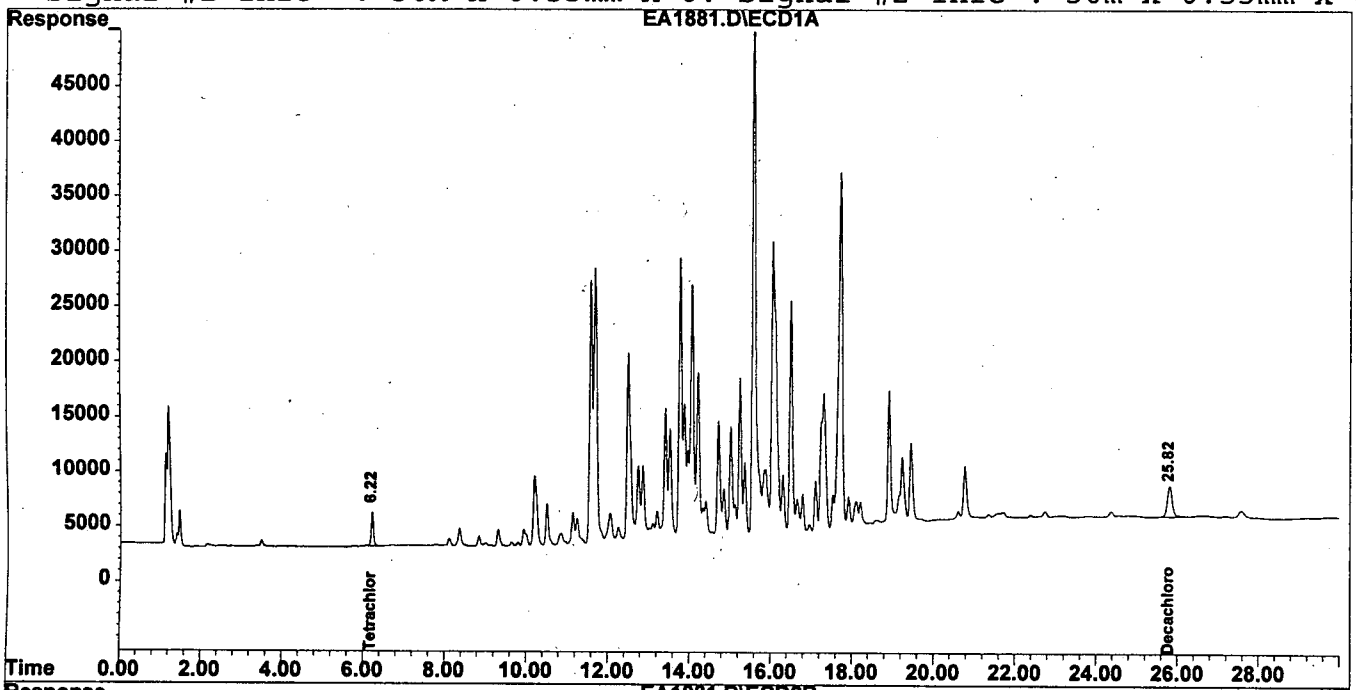
Quantitation Report

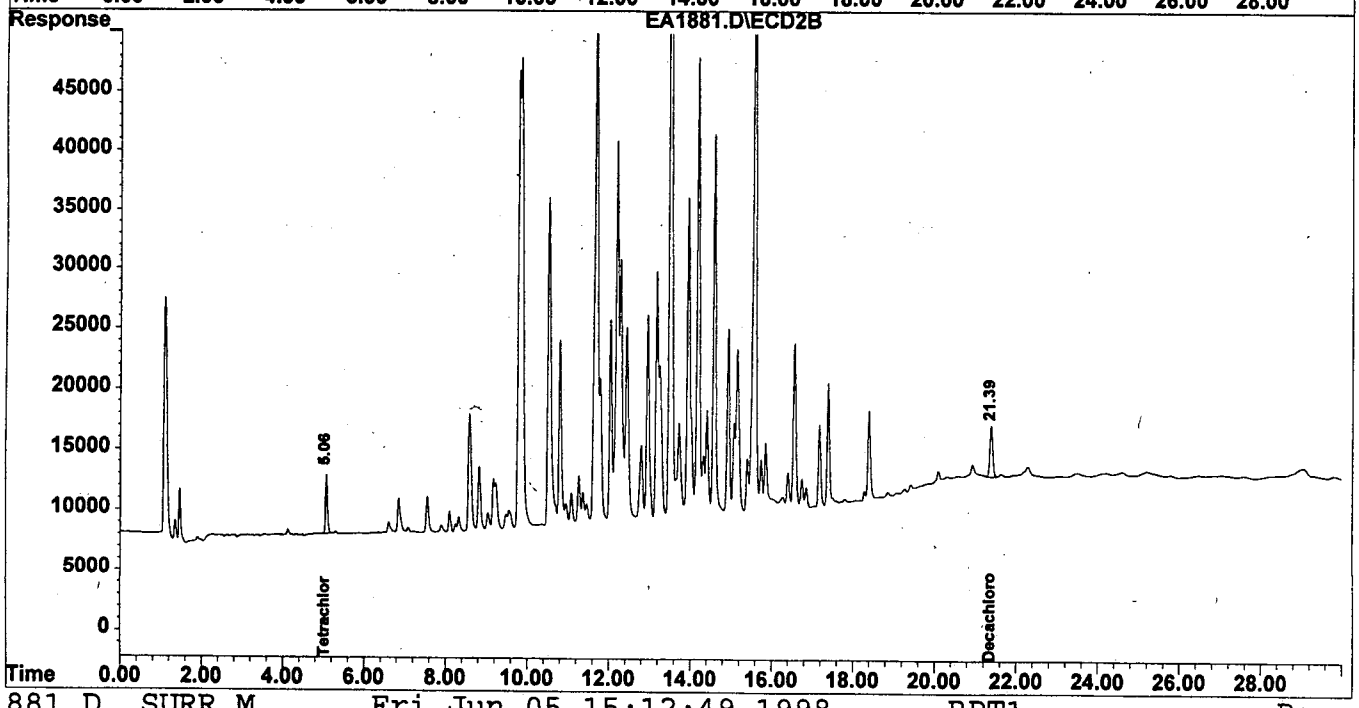
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1881.D\ECD1A.CH Vial: 26
Signal #2 : E:\WESTDA~1\EA1881.D\ECD2B.CH
Acq On : 19 Dec 97 15:05 Operator:
Sample : 278450 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:33 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278451
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUSS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	41.39%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	57	28
Aroclor-1221	U	U	110	80
Aroclor-1232	U	U	57	45
Aroclor-1242	U	U	57	28
Aroclor-1248	U	U	57	34
Aroclor-1254	1900	U	57	40
Aroclor-1260	U	U	57	45

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1865.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA_E\EA1865.D\ECD2B.CH
Acq On : 19 Dec 97 5:49 Operator:
Sample : 278451 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:02 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	6.24	5.07	571958	810255	41.573	40.740
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.93%	101.85%
2) SA Decachlorobiphen	25.86	21.42	2201877	1972544	94.635	90.776
Spiked Amount 40.000 Range 24 - 154 Recovery =					236.59%#	226.94%#
Target Compounds						
3) L1 Aroclor-1016{1}	7.98	0.00	153016	0	459.784	N.D. #
4) L1 Aroclor-1016{2}	9.34	7.57	253449	237241	373.830	272.418 #
5) L1 Aroclor-1016{3}	10.54	8.83	309073	355960	242.028	191.807
6) L1 Aroclor-1016{4}	0.00	9.24	0	304450	N.D.	360.966 #
7) L1 Aroclor-1016{5}	12.53	10.54	1326224	1649868	2031.552	1958.439
Sum Aroclor-1016			2041762	2547519	3107.195	2783.631
Average Aroclor-1016					776.799	695.908
					ND	ND
10) L2 Aroclor-1221{3}	7.88	0.00	20635	0	149.839	N.D. #
11) L2 Aroclor-1221{4}	7.98	8.83	153016	355960	375.140	2591.666 #
Sum Aroclor-1221			173651	355960	524.979	2591.666
Average Aroclor-1221					262.490	2591.666
					ND	ND
13) L3 Aroclor-1232{2}	9.34	7.57	253449	237241	816.129	646.317
14) L3 Aroclor-1232{3}	10.54	8.83	309073	355960	607.734	473.098
15) L3 Aroclor-1232{4}	12.53	9.24	1326224	304450	4204.893	902.446 #
16) L3 Aroclor-1232{5}	13.45	10.54	964623	1649868	4252.434	4327.953
Sum Aroclor-1232			2853369	2547519	9881.190	6349.815
Average Aroclor-1232					2470.298	1587.454
					ND	ND
18) L4 Aroclor-1242{2}	9.34	7.57	253449	237241	471.448	365.611
19) L4 Aroclor-1242{3}	10.54	8.83	309073	355960	317.968	255.208
20) L4 Aroclor-1242{4}	0.00	9.24	0	304450	N.D.	497.543 #
21) L4 Aroclor-1242{5}	12.53	10.54	1326224	1649868	2379.863	2494.280
Sum Aroclor-1242			1888746	2547519	3169.280	3612.641
Average Aroclor-1242					1056.427	903.160
					ND	ND
22) L5 Aroclor-1248{1}	9.34	7.57	253449	237241	881.626	666.466
23) L5 Aroclor-1248{2}	10.54	8.83	309073	355960	368.444	293.570

384

(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_E\EA1865.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA_E\EA1865.D\ECD2B.CH
Acq On : 19 Dec 97 5:49 Operator:
Sample : 278451 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:02 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	
24) L5	Aroclor-1248{3}	12.53	10.54	1326224	1649868	1743.795	1755.899	
25) L5	Aroclor-1248{4}	13.45	10.81	964623	916924	1358.075	1057.141	
26) L5	Aroclor-1248{5}	15.61	13.51	5026203	5847105	15140.928	16520.830	
Sum	Aroclor-1248			7879572	9007098	19492.768	20293.907	
Average	Aroclor-1248					3898.554	4058.781	
						no	no	
27) L6	Aroclor-1254{1}	11.61	9.81	1285359	1510813	3435.640	2451.087	#
28) L6	Aroclor-1254{2}	13.80	11.69	2894696	3912314	4878.093	3167.401	#
29) L6	Aroclor-1254{3}	15.61	12.21	5026203	2629383	3868.285	2660.720	#
30) L6	Aroclor-1254{4}	16.53	13.51	2693360	5847105	4312.552	4175.877	
31) L6	Aroclor-1254{5}	17.75	15.59	4968806	6347336	4096.668	4620.666	
Sum	Aroclor-1254			16868424	20246952	20591.237	17075.750	
Average	Aroclor-1254					4118.247	3415.150	
32) L7	Aroclor-1260{1}	0.00	13.96	0	2877025	N.D.	2622.332	#
33) L7	Aroclor-1260{2}	16.53	14.60	2693360	3110179	2284.641	2136.243	
34) L7	Aroclor-1260{3}	18.94	15.59	1322688	6347336	1594.292	3344.537	#
35) L7	Aroclor-1260{4}	19.48	17.42	1338974	1385669	698.615	621.429	
36) L7	Aroclor-1260{5}	20.81	18.42	936779	1078829	599.487	662.343	
Sum	Aroclor-1260			6291801	14799039	5177.035	9386.883	
Average	Aroclor-1260					1294.259	1877.377	
						no	no	

00 385

TB 12/17/97

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

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1865.D\ECD1A.CH Vial: 10
Signal #2 : E:\WESTDA~1\EA1865.D\ECD2B.CH
Acq On : 19 Dec 97 5:49 Operator:
Sample : 278451 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:29 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	571958	797064	40.213	36.812
Spiked Amount 40.000 Range 43 - 150 Recovery =					100.53%	92.03%
2) SA Decachlorobiphen	25.86	21.42	2216696	2068493	94.248	90.669m
Spiked Amount 40.000 Range 24 - 154 Recovery =					235.62%#	226.67%#
Target Compounds						

385A

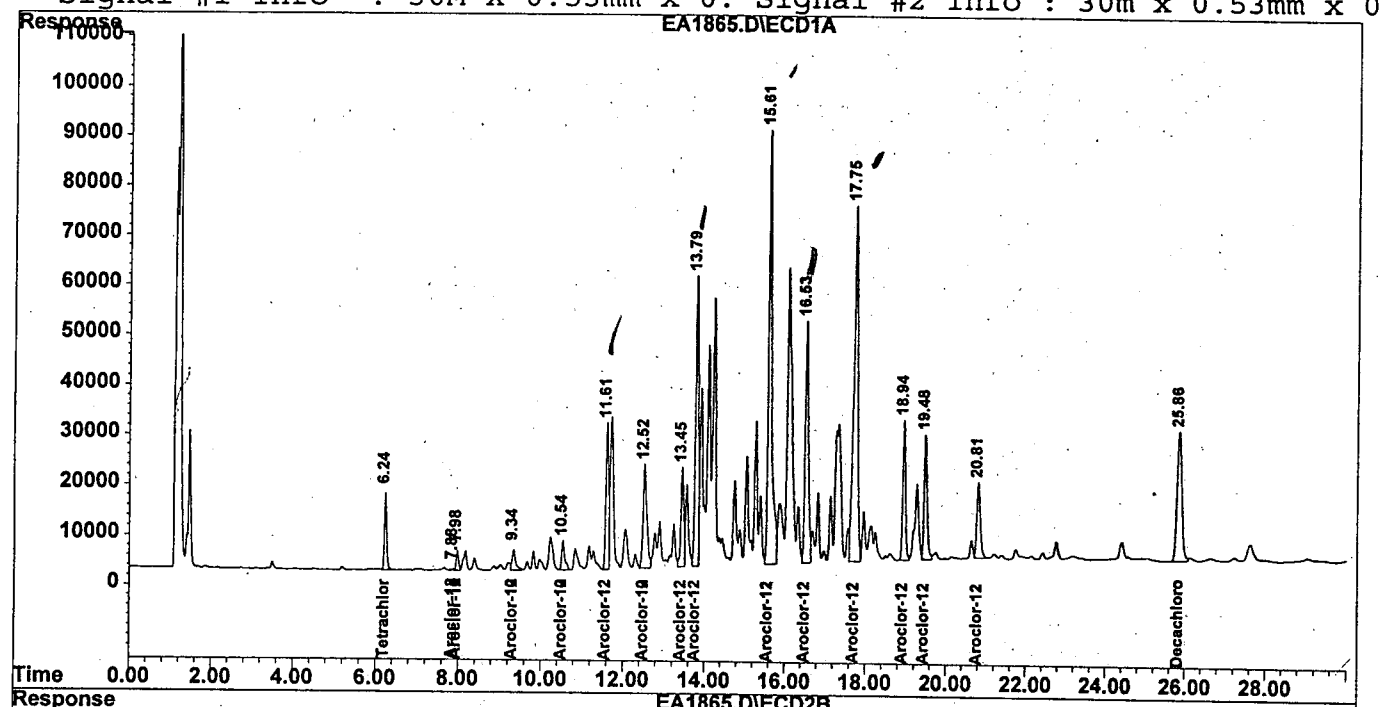
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

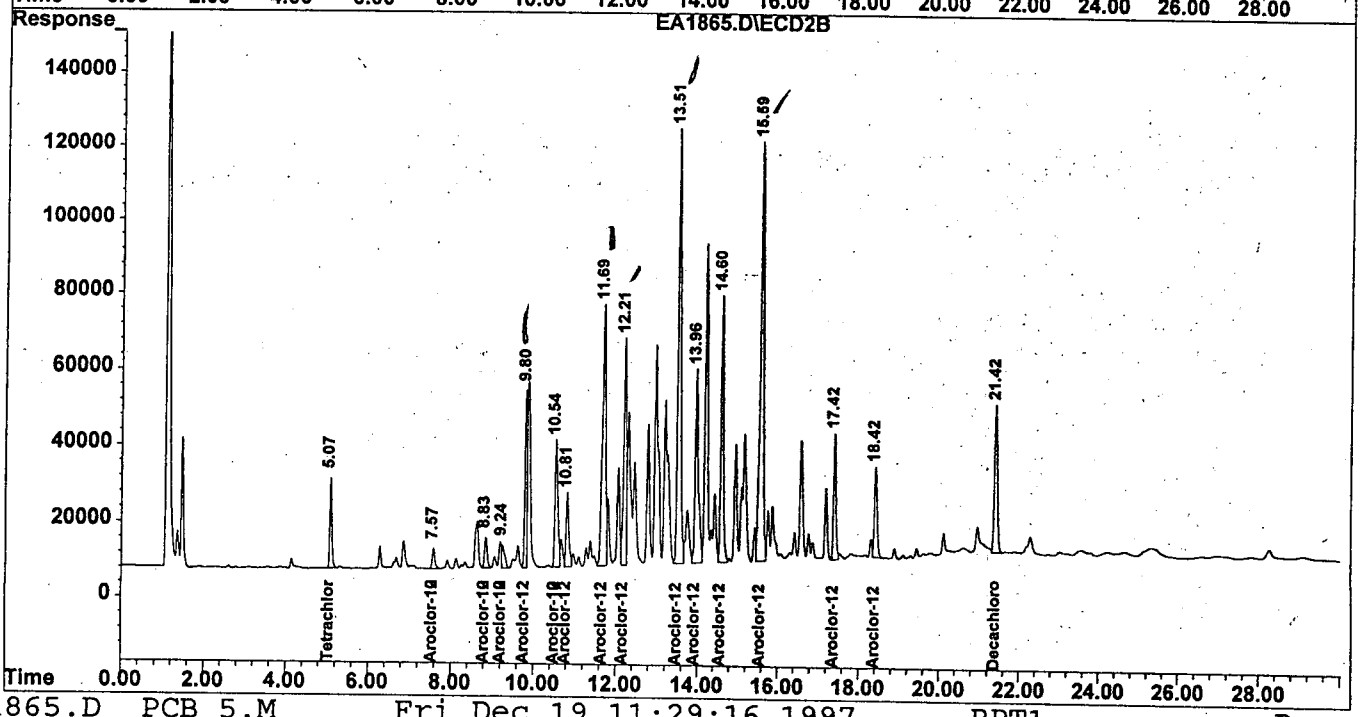
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1865.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA_E\EA1865.D\ECD2B.CH
Acq On : 19 Dec 97 5:49 Operator:
Sample : 278451 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:02 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





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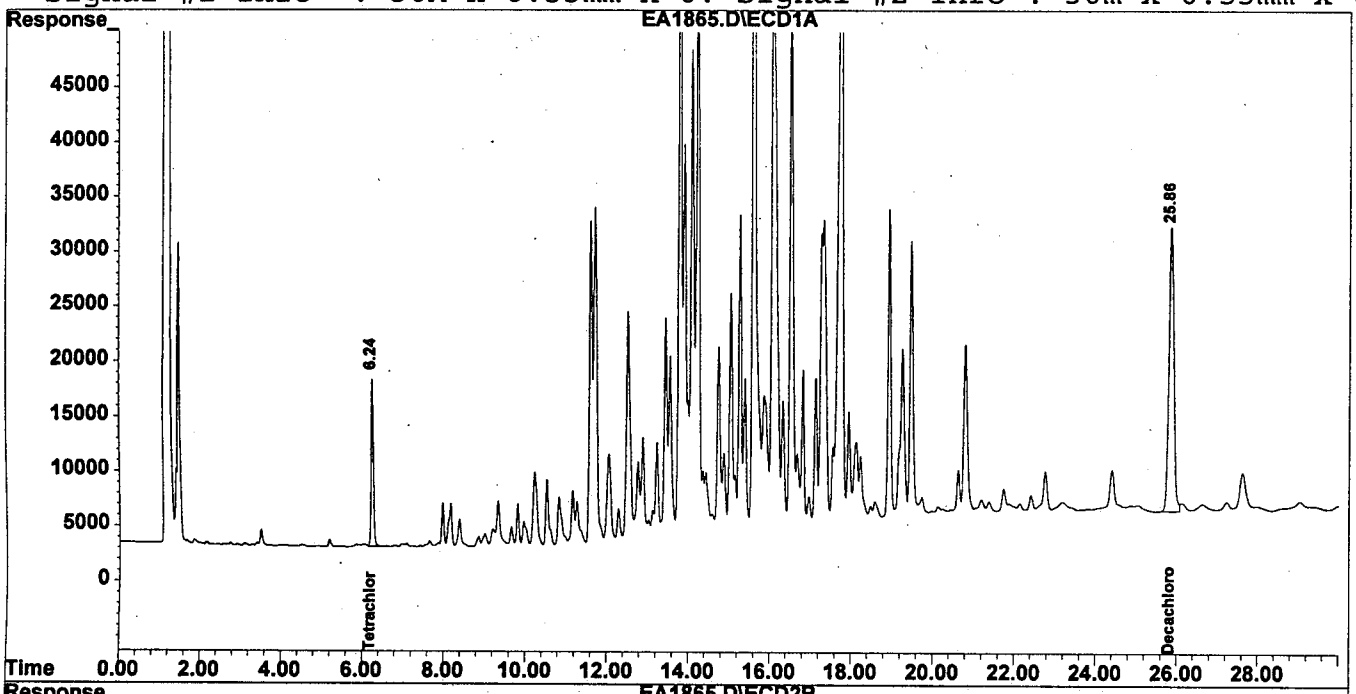
Quantitation Report

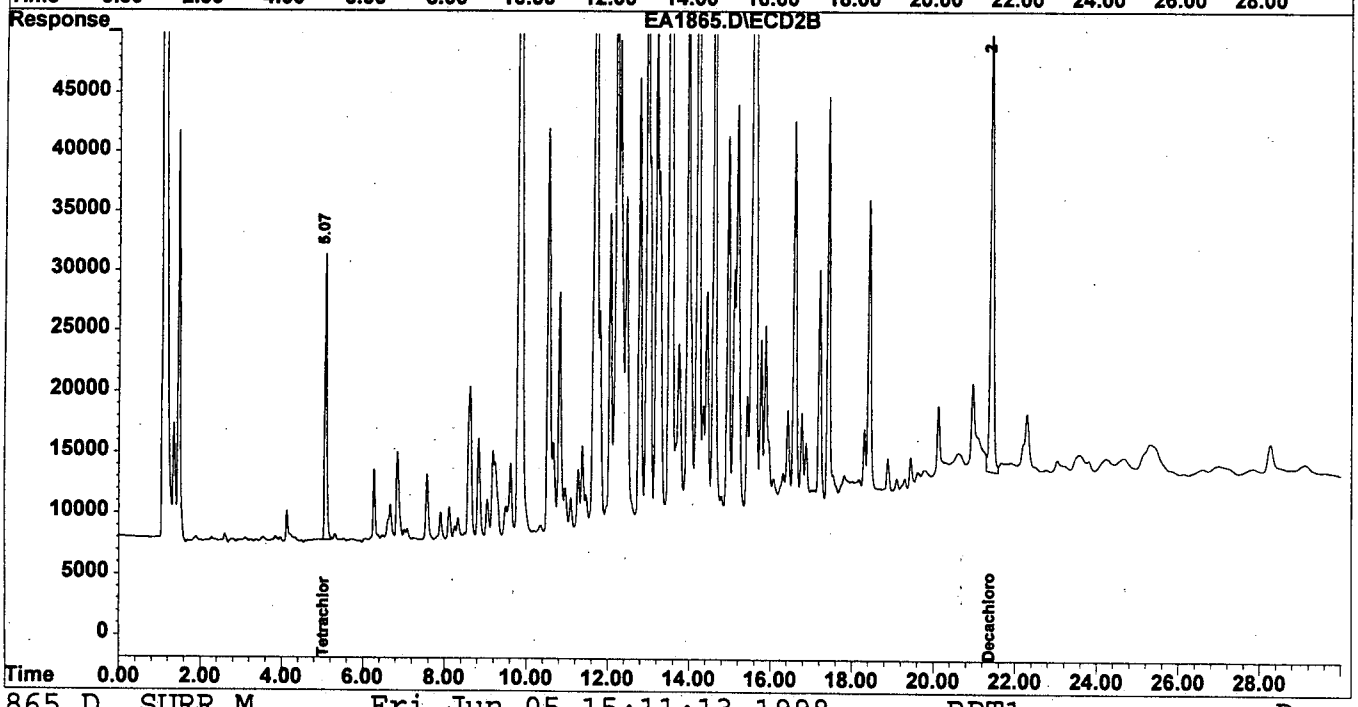
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1865.D\ECD1A.CH Vial: 10
Signal #2 : E:\WESTDA~1\EA1865.D\ECD2B.CH
Acq On : 19 Dec 97 5:49 Operator:
Sample : 278451 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:29 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278452
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: UUUUSD2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	58.51%

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	400	200
Aroclor-1221	U	U	800	560
Aroclor-1232	U	U	400	320
Aroclor-1242	U	U	400	200
Aroclor-1248	U	U	400	240
Aroclor-1254	7000	U	400	280
Aroclor-1260	U	U	400	320

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_E\EA1882.D\ECD1A.CH Vial: 27
Signal #2 : F:\1\DATA_E\EA1882.D\ECD2B.CH
Acq On : 19 Dec 97 15:39 Operator:
Sample : 278452 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:38 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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	6.23	5.07	116582	165873	8.474	8.340	
Spiked Amount 40.000 Range 43 - 150 Recovery =					21.19%#	20.85%#	
2) SA Decachlorobiphen	25.84	21.40	255331	191869	10.974	8.830	
Spiked Amount 40.000 Range 24 - 154 Recovery =					27.44%	22.08%#	
Target Compounds							
4) L1 Aroclor-1016{2}	9.34	7.56	35556	66264	52.444	76.090	#
5) L1 Aroclor-1016{3}	10.53	8.83	87431	125314	68.465	67.525	
6) L1 Aroclor-1016{4}	0.00	9.23	0	82186	N.D.	97.442	#
7) L1 Aroclor-1016{5}	12.52	10.53	820605	1123814	1257.029	1333.998	
Sum Aroclor-1016			943592	1397578	1377.938	1575.055	
Average Aroclor-1016					459.313	393.764	
11) L2 Aroclor-1221{4}	0.00	8.83	0	125314	N.D.	912.384	#
Sum Aroclor-1221			0	125314	N.D.	912.384	
Average Aroclor-1221					0.000	912.384	
13) L3 Aroclor-1232{2}	9.34	7.56	35556	66264	114.493	180.525	#
14) L3 Aroclor-1232{3}	10.53	8.83	87431	125314	171.917	166.552	
15) L3 Aroclor-1232{4}	12.52	9.23	820605	82186	2601.789	243.614	#
16) L3 Aroclor-1232{5}	13.44	10.53	316635	1123814	1395.850	2948.001	#
Sum Aroclor-1232			1260227	1397578	4284.050	3538.691	
Average Aroclor-1232					1071.012	884.673	
18) L4 Aroclor-1242{2}	9.34	7.56	35556	66264	66.139	102.120	#
19) L4 Aroclor-1242{3}	10.53	8.83	87431	125314	89.947	89.845	
20) L4 Aroclor-1242{4}	0.00	9.23	0	82186	N.D.	134.311	#
21) L4 Aroclor-1242{5}	12.52	10.53	820605	1123814	1472.547	1698.987	
Sum Aroclor-1242			943592	1397578	1628.633	2025.263	
Average Aroclor-1242					542.878	506.316	
22) L5 Aroclor-1248{1}	9.34	7.56	35556	66264	123.668	186.153	#
23) L5 Aroclor-1248{2}	10.53	8.83	87431	125314	104.226	103.350	
24) L5 Aroclor-1248{3}	12.52	10.53	820605	1123814	1078.978	1196.037	
25) L5 Aroclor-1248{4}	13.44	10.80	316635	332624	445.784	383.489	

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

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ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_E\EA1882.D\ECD1A.CH Vial: 27
Signal #2 : F:\1\DATA_E\EA1882.D\ECD2B.CH
Acq On : 19 Dec 97 15:39 Operator:
Sample : 278452 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:38 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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
26)	L5 Aroclor-1248{5}	15.60	13.51	2497337	3010943	7522.973	8507.334
Sum	Aroclor-1248			3757564	4658959	9275.630	10376.363
Average	Aroclor-1248					1855.126	2075.273
2[illegible])	L6 Aroclor-1254{1}	11.60	9.80	706343	883001	1887.988	1432.547
2[illegible])	L6 Aroclor-1254{2}	13.80	11.69	1028244	1876215	1732.779	1518.980
29)	L6 Aroclor-1254{3}	15.60	12.20	2497337	1452504	1922.009	1469.814
30)	L6 Aroclor-1254{4}	16.52	13.51	1121947	3010943	1796.439	2150.351
3[illegible])	L6 Aroclor-1254{5}	17.74	15.58	2177724	2955941	1795.484	2151.834
Sum	Aroclor-1254			7531595	10178603	9134.699	8723.526
Average	Aroclor-1254					1826.940	1744.705
3[illegible])	L7 Aroclor-1260{1}	0.00	13.95	0	1477165	N.D.	1346.397 #
33)	L7 Aroclor-1260{2}	16.52	14.59	1121947	1604537	951.691	1102.085
3[illegible])	L7 Aroclor-1260{3}	18.93	15.58	549430	2955941	662.251	1557.544 #
3[illegible])	L7 Aroclor-1260{4}	19.47	17.41	424462	479502	221.464	215.042
36)	L7 Aroclor-1260{5}	0.00	18.41	0	371338	N.D.	227.982 #
Sum	Aroclor-1260			2095839	6888484	1835.407	4449.048
Average	Aroclor-1260					611.802	889.810

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1882.D\ECD1A.CH Vial: 27
Signal #2 : E:\WESTDA~1\EA1882.D\ECD2B.CH
Acq On : 19 Dec 97 15:39 Operator:
Sample : 278452 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:33 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	116582	171883	8.197	7.938
Spiked Amount 40.000 Range 43 - 150 Recovery =					20.49%#	19.85%#
2) SA Decachlorobiphen	25.84	21.40	219212	195708	9.320m	8.578m
Spiked Amount 40.000 Range 24 - 154 Recovery =					23.30%#	21.45%#

Target Compounds

389A 6/8/98

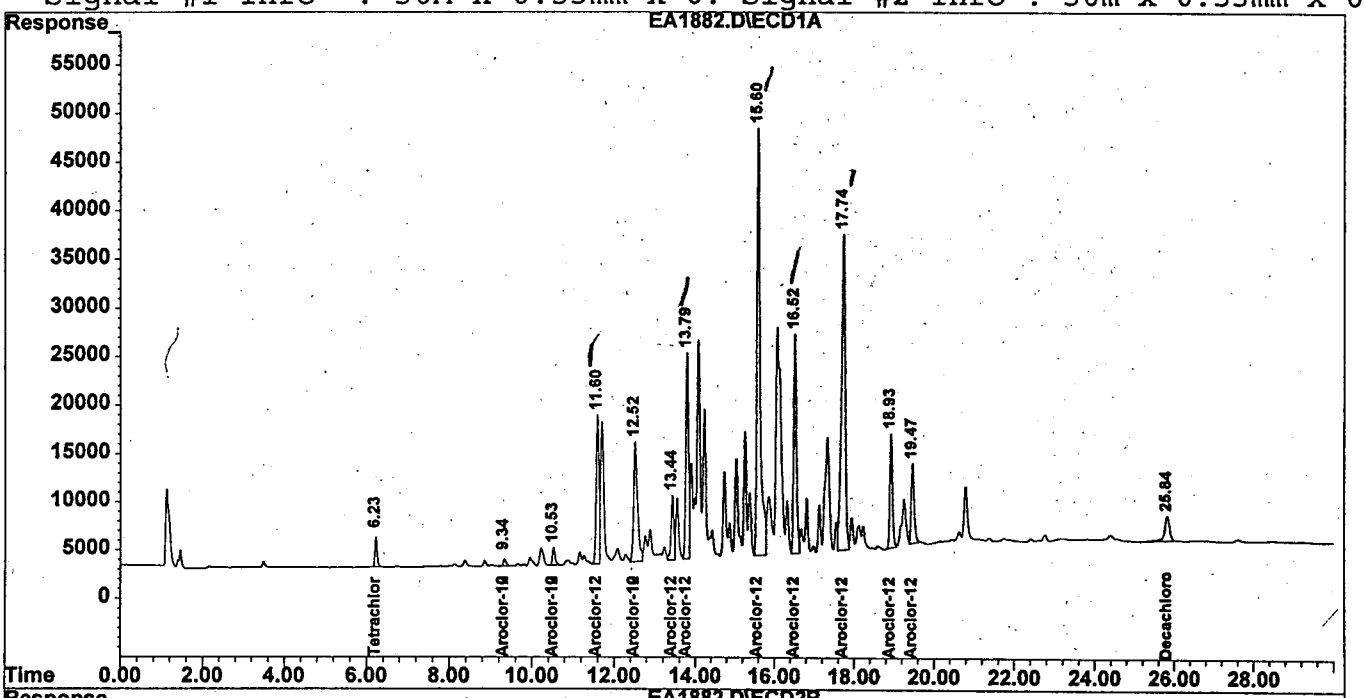
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

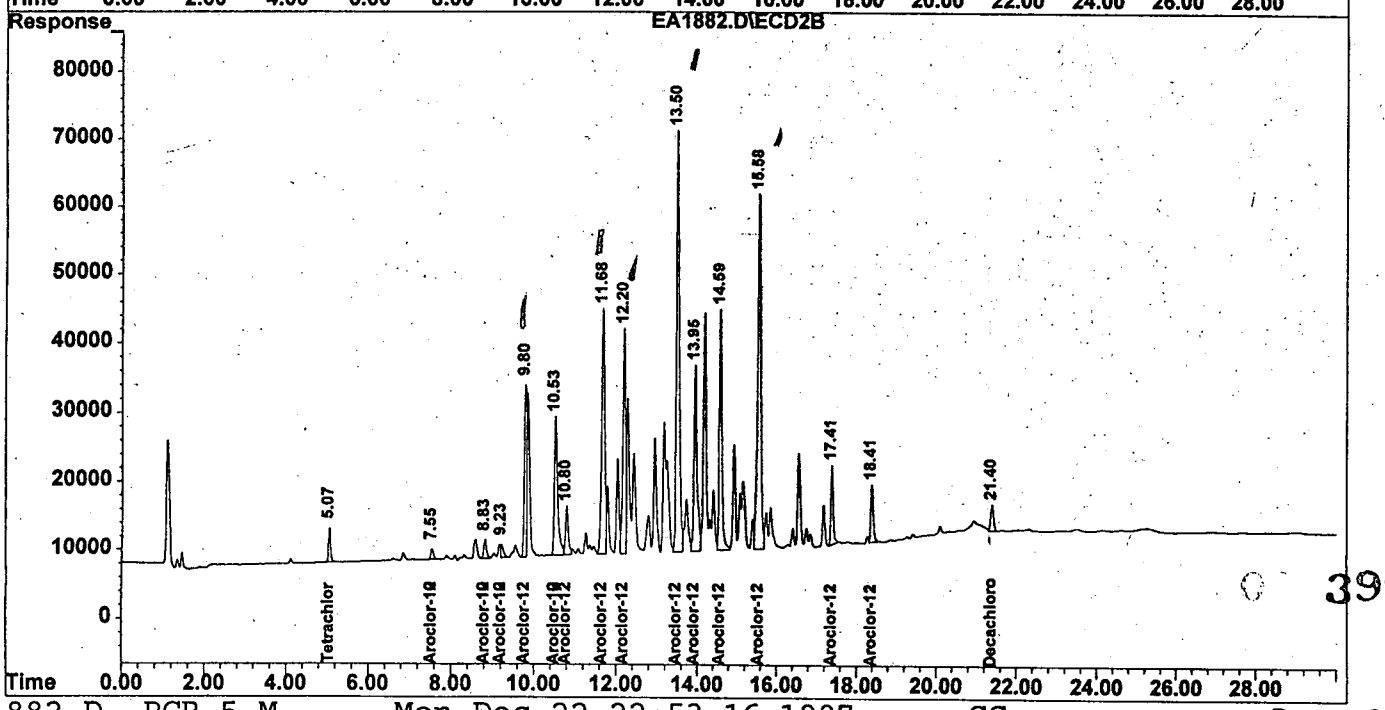
Quantitation Report

Signal #1 : F:\1\DATA_E\EA1882.D\ECD1A.CH Vial: 27
Signal #2 : F:\1\DATA_E\EA1882.D\ECD2B.CH
Acq On : 19 Dec 97 15:39 Operator:
Sample : 278452 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:38 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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





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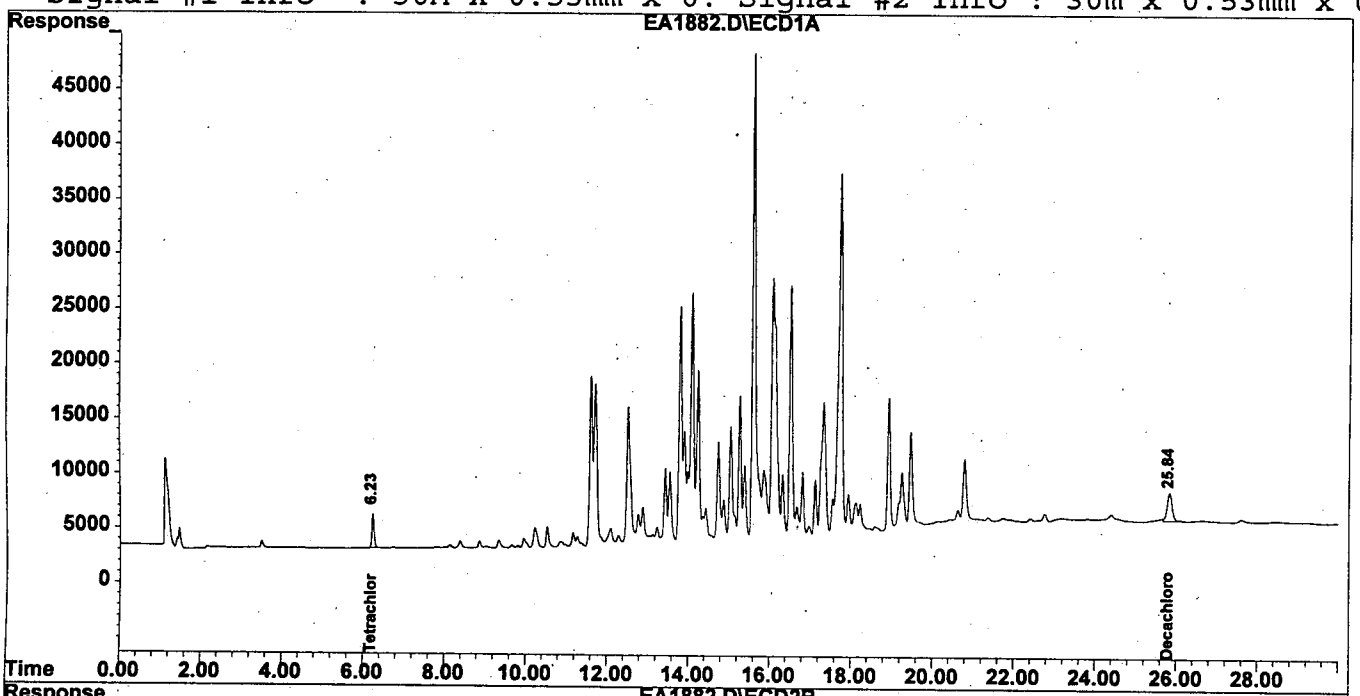
Quantitation Report

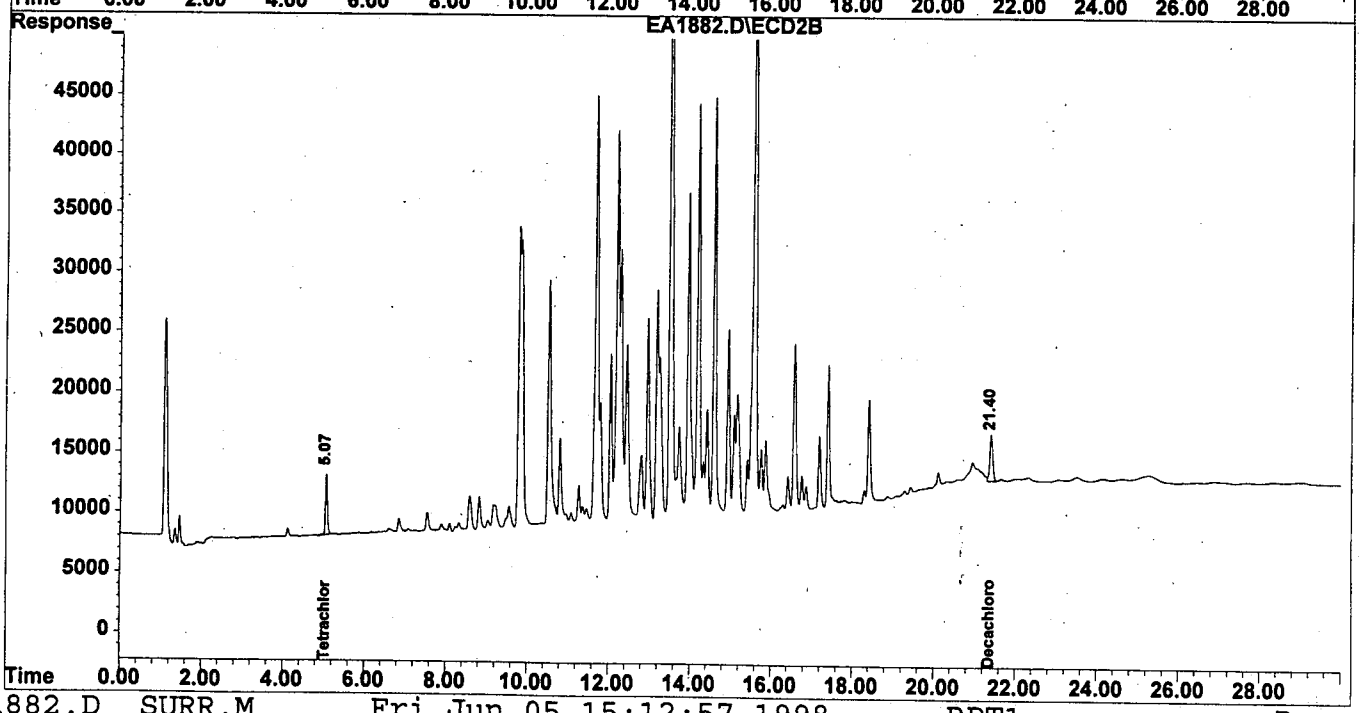
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1882.D\ECD1A.CH Vial: 27
Signal #2 : E:\WESTDA~1\EA1882.D\ECD2B.CH
Acq On : 19 Dec 97 15:39 Operator:
Sample : 278452 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:33 1998 Quant Results File: SURR.RES

Quant Method : H:\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





390A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278453
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	21.35%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	42	21
Aroclor-1221	U	U	85	59
Aroclor-1232	U	U	42	34
Aroclor-1242	U	U	42	21
Aroclor-1248	U	U	42	25
Aroclor-1254	U	U	42	30
Aroclor-1260	U	U	42	34

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1868.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_E\EA1868.D\ECD2B.CH
Acq On : 19 Dec 97 7:30 Operator:
Sample : 278453 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:02 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	6.23	5.07	604145	876362	43.913	44.064
Spiked Amount 40.000 Range 43 - 150 Recovery =					109.78%	110.16%
2) SA Decachlorobiphen	25.85	21.41	849348	756263	36.504	34.803
Spiked Amount 40.000 Range 24 - 154 Recovery =					91.26%	87.01%
Target Compounds						
5) L1 Aroclor-1016{3}	0.00	8.84	0	33794	N.D.	18.210 #
7) L1 Aroclor-1016{5}	12.53	10.54	14545	32336	22.281	38.384 #
Sum Aroclor-1016			14545	66130	22.281	56.594
Average Aroclor-1016					22.281	28.297
9) L2 Aroclor-1221{2}	7.42	0.00	5640	0	59.439	N.D. #
11) L2 Aroclor-1221{4}	0.00	8.84	0	33794	N.D.	246.047 #
Sum Aroclor-1221			5640	33794	59.439	246.047
Average Aroclor-1221					59.439	246.047
14) L3 Aroclor-1232{3}	0.00	8.84	0	33794	N.D.	44.915 #
15) L3 Aroclor-1232{4}	12.53	0.00	14545	0	46.117	N.D. #
16) L3 Aroclor-1232{5}	13.44	10.54	7387	32336	32.566	84.824 #
Sum Aroclor-1232			21932	66130	78.683	129.739
Average Aroclor-1232					39.341	64.870
19) L4 Aroclor-1242{3}	0.00	8.84	0	33794	N.D.	24.229 #
21) L4 Aroclor-1242{5}	12.53	10.54	14545	32336	26.101	48.886 #
Sum Aroclor-1242			14545	66130	26.101	73.115
Average Aroclor-1242					26.101	36.557
23) L5 Aroclor-1248{2}	0.00	8.84	0	33794	N.D.	27.871 #
24) L5 Aroclor-1248{3}	12.53	10.54	14545	32336	19.125	34.414 #
25) L5 Aroclor-1248{4}	13.44	0.00	7387	0	10.400	N.D. #
26) L5 Aroclor-1248{5}	15.60	13.52	50804	68068	153.043	192.323 #
Sum Aroclor-1248			72737	134198	182.568	254.608
Average Aroclor-1248					60.856	84.869
27) L6 Aroclor-1254{1}	11.60	9.81	18952	51031	50.657	82.791 #

TPB 14/19/12

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(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_E\EA1868.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_E\EA1868.D\ECD2B.CH
Acq On : 19 Dec 97 7:30 Operator:
Sample : 278453 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:02 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	
28)	L6 Aroclor-1254{2}	13.80	11.70	30448	81826	51.311	66.246	#
29)	L6 Aroclor-1254{3}	15.60	12.21	50804	49309	39.100	49.897	#
30)	L6 Aroclor-1254{4}	16.52	13.52	22710	68068	36.363	48.612	#
31)	L6 Aroclor-1254{5}	17.74	15.59	39799	51559	32.814	37.534	
	Sum Aroclor-1254			162714	301793	210.245	285.080	
	Average Aroclor-1254					42.049	57.016	
						ND	ND	
32)	L7 Aroclor-1260{1}	0.00	13.97	0	30103	N.D.	27.438	#
33)	L7 Aroclor-1260{2}	16.52	14.60	22710	26340	19.264	18.092	
34)	L7 Aroclor-1260{3}	0.00	15.59	0	51559	N.D.	27.168	#
36)	L7 Aroclor-1260{5}	20.82	0.00	21611	0	13.830	N.D.	#
	Sum Aroclor-1260			44321	108003	33.093	72.698	
	Average Aroclor-1260					16.547	24.233	
						ND	ND	

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12/12/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1868.D\ECD1A.CH Vial: 13
Signal #2 : E:\WESTDA~1\EA1868.D\ECD2B.CH
Acq On : 19 Dec 97 7:30 Operator:
Sample : 278453 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:29 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	604145	883653	42.476	40.811
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.19%	102.03%
2) SA Decachlorobiphen	25.85	21.41	891077	775296	37.886m	33.984m
Spiked Amount 40.000 Range 24 - 154 Recovery =					94.72%	84.96%
Target Compounds						

- 393A

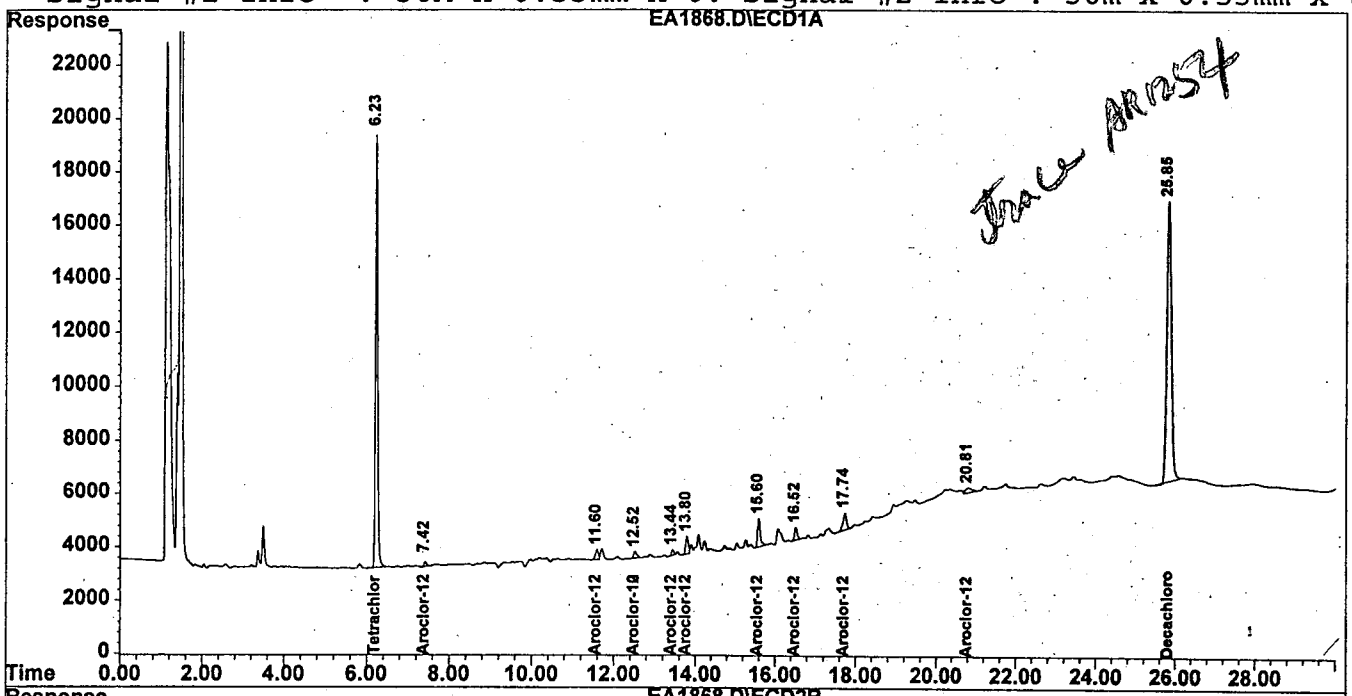
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

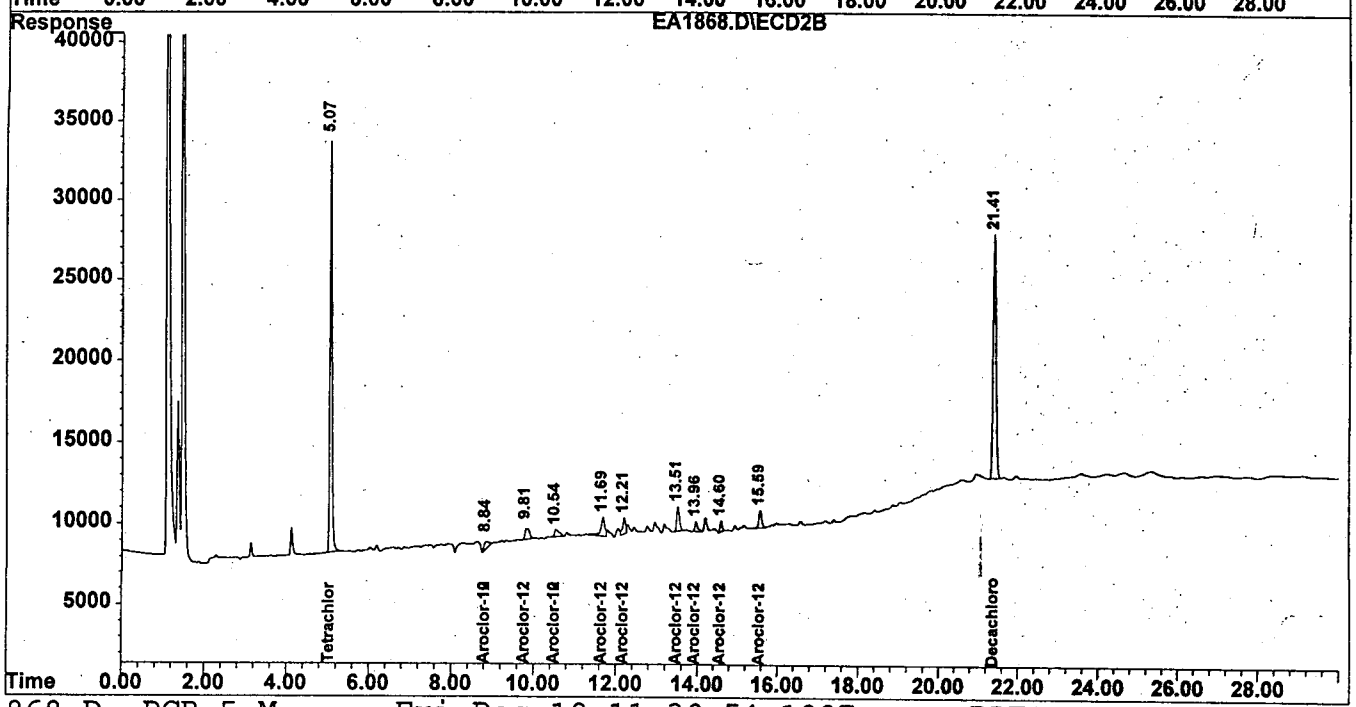
Signal #1 : C:\HPCHEM\1\DATA_E\EA1868.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_E\EA1868.D\ECD2B.CH
Acq On : 19 Dec 97 7:30 Operator:
Sample : 278453 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:02 1997 Quant Results 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



Trace AR1254



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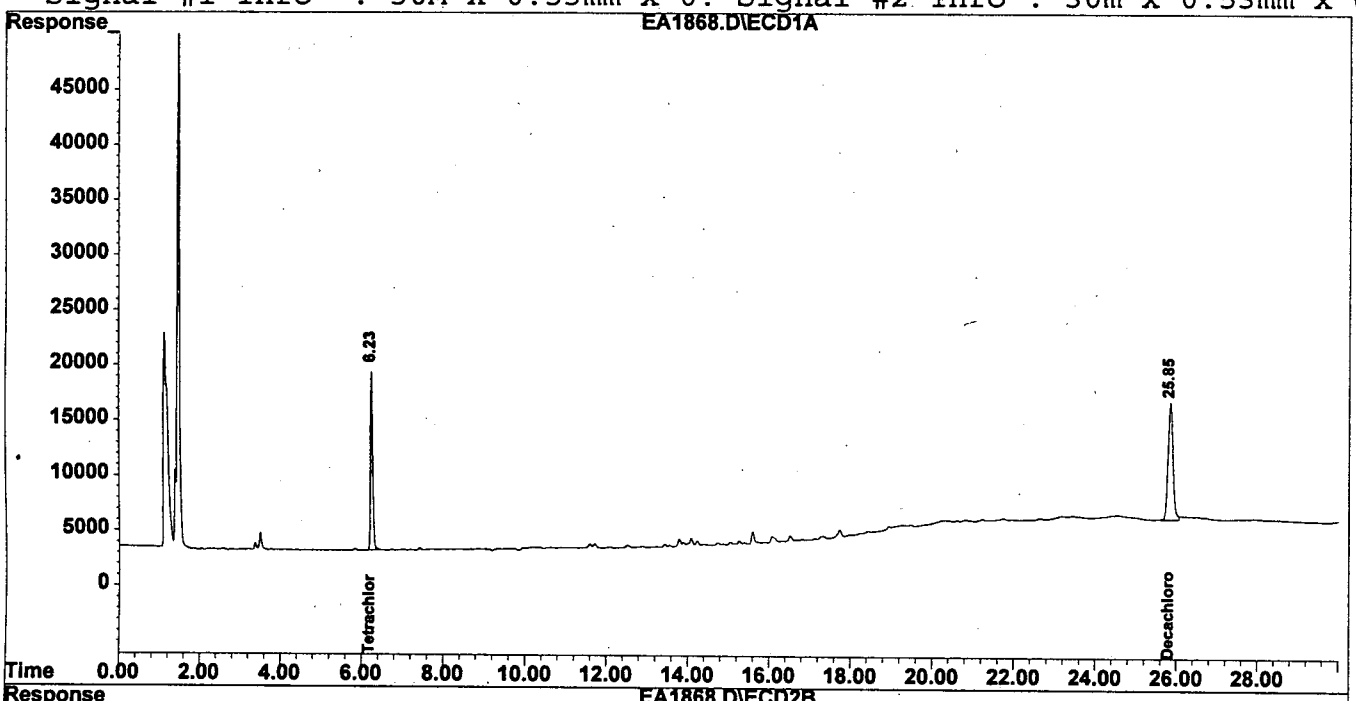
Quantitation Report

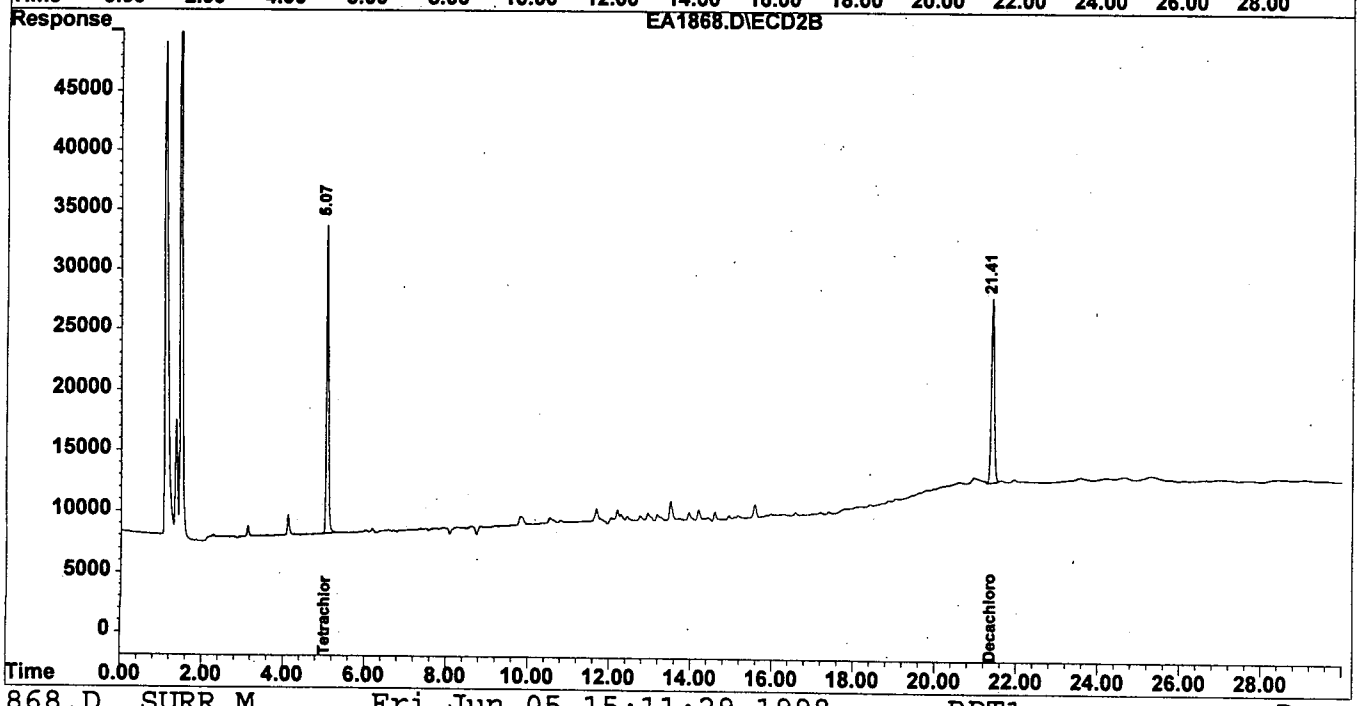
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1868.D\ECD1A.CH Vial: 13
Signal #2 : E:\WESTDA~1\EA1868.D\ECD2B.CH
Acq On : 19 Dec 97 7:30 Operator:
Sample : 278453 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:29 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278454
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	18.99%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	41	20
Aroclor-1221	U	U	82	58
Aroclor-1232	U	U	41	33
Aroclor-1242	U	U	41	20
Aroclor-1248	U	U	41	25
Aroclor-1254	U	U	41	29
Aroclor-1260	U	U	41	33

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1869.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_E\EA1869.D\ECD2B.CH
Acq On : 19 Dec 97 8:04 Operator:
Sample : 278454 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:03 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	6.24	5.07	649009	930027	47.174	46.763
Spiked Amount 40.000 Range 43 - 150 Recovery =					117.94%	116.91%
2) SA Decachlorobiphen	25.86	21.42	895609	816342	38.493	37.568
Spiked Amount 40.000 Range 24 - 154 Recovery =					96.23%	93.92%
Target Compounds						
6) L1 Aroclor-1016{4}	0.00	9.32	0	5205	N.D.	6.171 #
Sum Aroclor-1016			0	5205	N.D.	6.171
Average Aroclor-1016					0.000	6.171
9) L2 Aroclor-1221{2}	7.43	0.00	6224	0	65.592	N.D. #
Sum Aroclor-1221			6224	0	65.592	N.D.
Average Aroclor-1221					65.592	0.000
15) L3 Aroclor-1232{4}	0.00	9.32	0	5205	N.D.	15.428 #
Sum Aroclor-1232			0	5205	N.D.	15.428
Average Aroclor-1232					0.000	15.428
20) L4 Aroclor-1242{4}	0.00	9.32	0	5205	N.D.	8.506 #
Sum Aroclor-1242			0	5205	N.D.	8.506
Average Aroclor-1242					0.000	8.506
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

00 396

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1869.D\ECD1A.CH Vial: 14
Signal #2 : E:\WESTDA~1\EA1869.D\ECD2B.CH
Acq On : 19 Dec 97 8:04 Operator:
Sample : 278454 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:54 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	649009	935943	45.630	43.226
Spiked Amount 40.000 Range 43 - 150 Recovery =					114.08%	108.07%
2) SA Decachlorobiphen	25.86	21.42	895609	922219	38.079	40.424
Spiked Amount 40.000 Range 24 - 154 Recovery =					95.20%	101.06%
Target Compounds						

396A

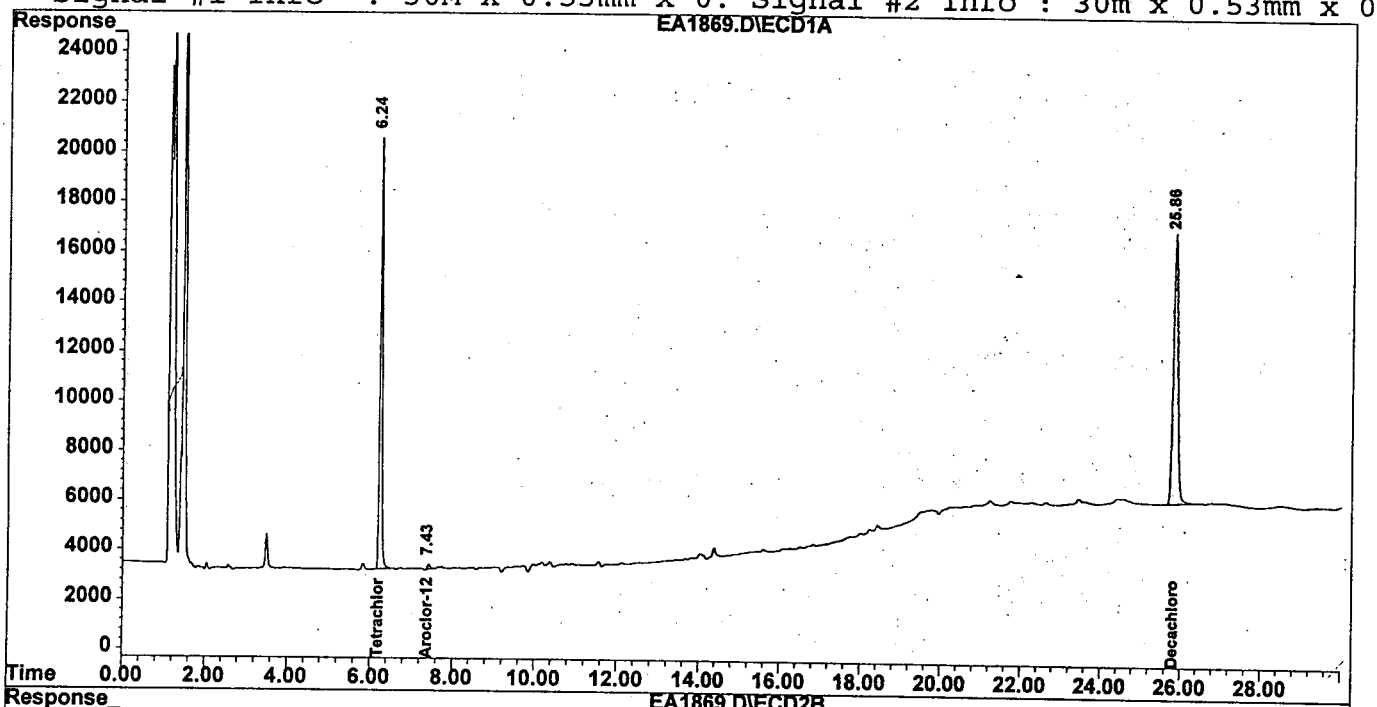
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

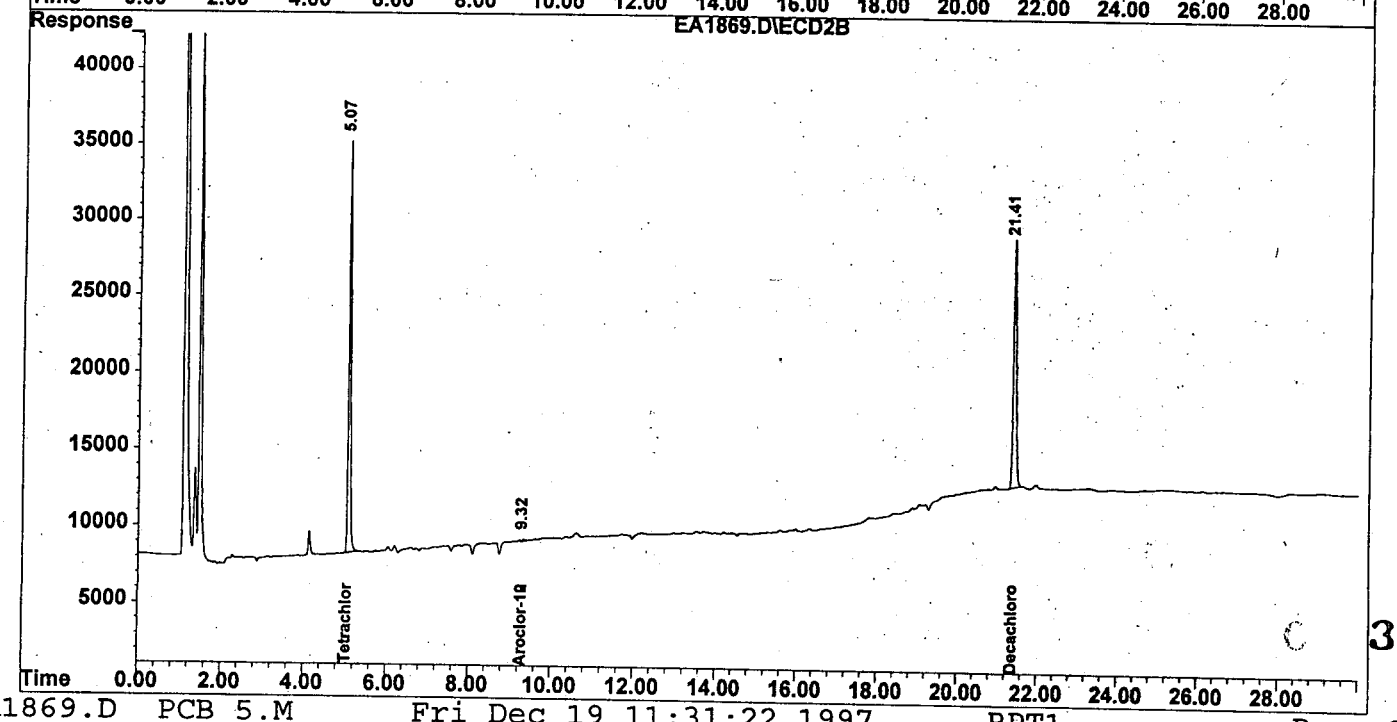
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1869.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA_E\EA1869.D\ECD2B.CH
Acq On : 19 Dec 97 8:04 Operator:
Sample : 278454 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:03 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





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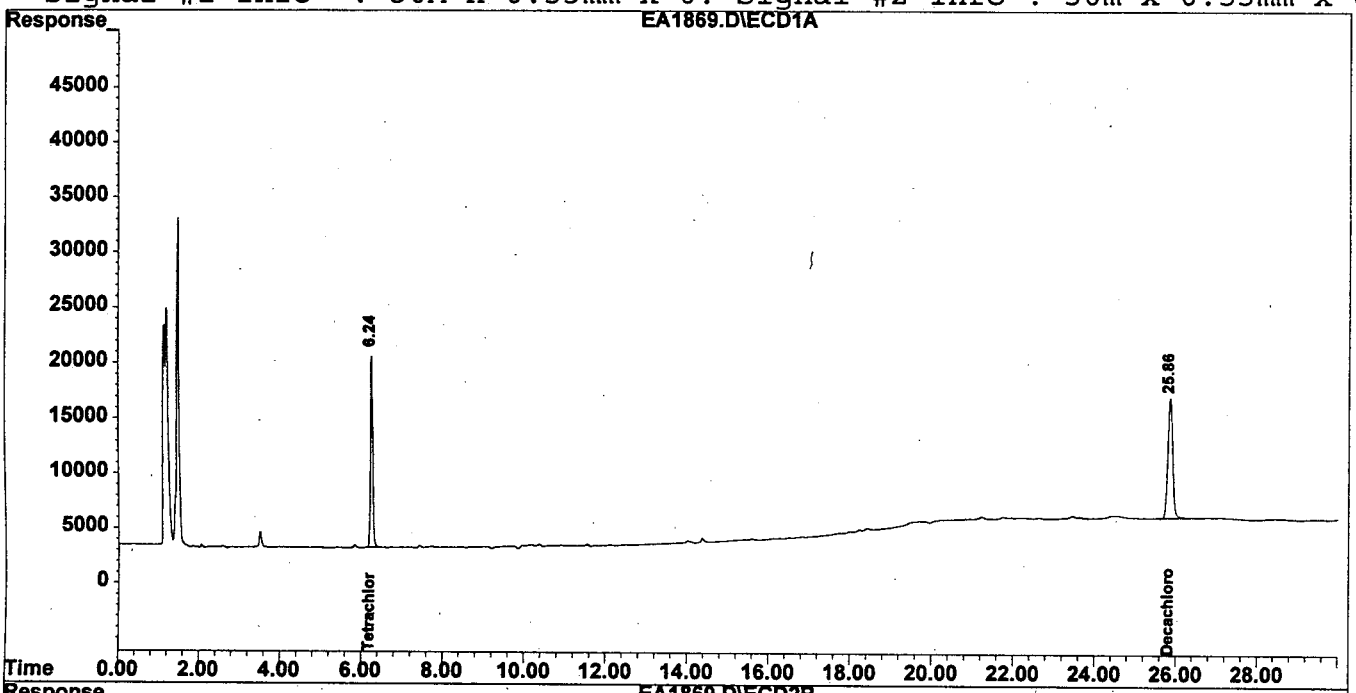
Quantitation Report

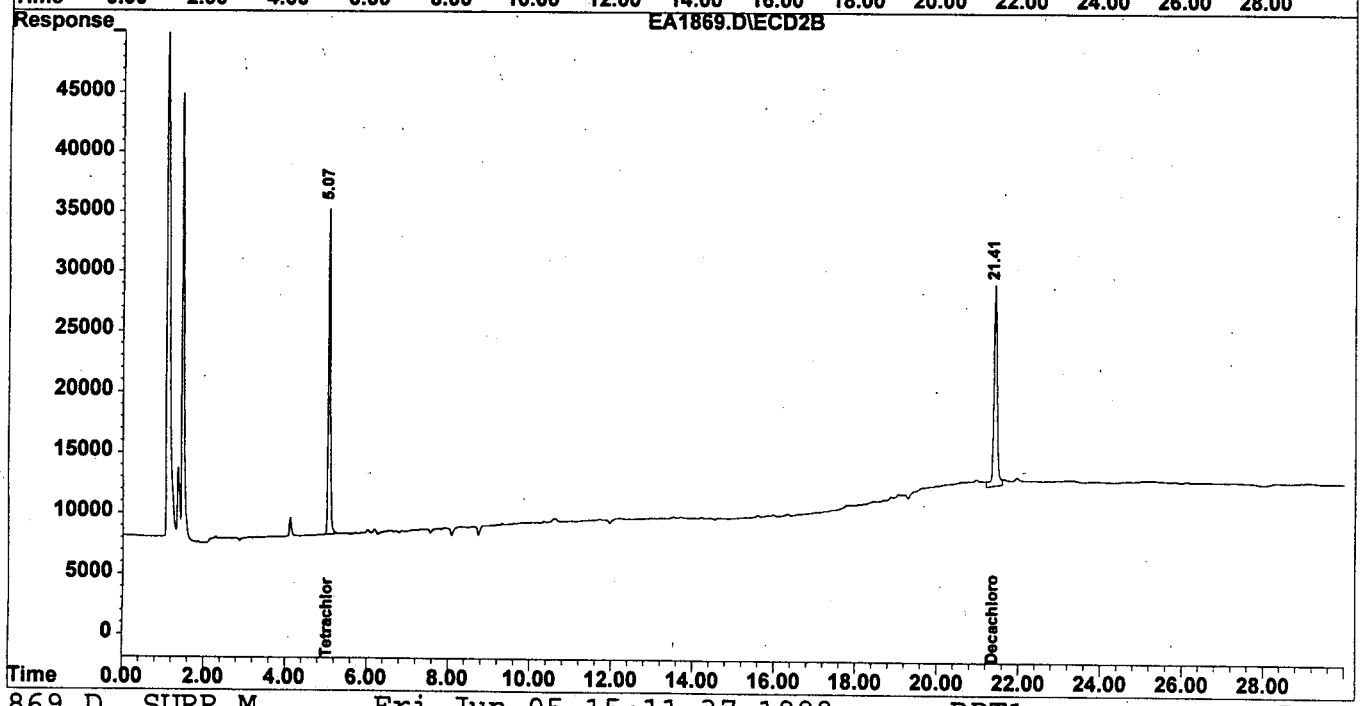
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1869.D\ECD1A.CH Vial: 14
Signal #2 : E:\WESTDA~1\EA1869.D\ECD2B.CH
Acq On : 19 Dec 97 8:04 Operator:
Sample : 278454 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:54 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278455
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVNS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	47.57%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	64	32
Aroclor-1221	U	U	130	89
Aroclor-1232	U	U	64	51
Aroclor-1242	U	U	64	32
Aroclor-1248	U	U	64	38
Aroclor-1254	~~1500~~ 1700	U	64	44
Aroclor-1260	U	U	64	51

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1870.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_E\EA1870.D\ECD2B.CH
Acq On : 19 Dec 97 8:53 Operator:
Sample : 278455 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:03 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	562521	828362	40.888	41.651	
Spiked Amount 40.000 Range 43 - 150 Recovery =					102.22%	104.13%	
2) SA Decachlorobiphen	25.89	21.42	808200	761047	34.736	35.023	
Spiked Amount 40.000 Range 24 - 154 Recovery =					86.84%	87.56%	
Target Compounds							
3) L1 Aroclor-1016{1}	8.00	0.00	370079	0	1112.017	N.D.	#
4) L1 Aroclor-1016{2}	9.36	0.00	106591	0	157.219	N.D.	#
5) L1 Aroclor-1016{3}	10.56	8.84	113996	221801	89.268	119.516	#
6) L1 Aroclor-1016{4}	0.00	9.19	0	256207	N.D.	303.768	#
7) L1 Aroclor-1016{5}	12.55	10.54	316216	598023	484.389	709.870	#
Sum Aroclor-1016			906882	1076031	1842.893	1133.153	
Average Aroclor-1016					460.723	377.718	
8) L2 Aroclor-1221{1}	5.20	0.00	51458	0	396.859	N.D.	#
11) L2 Aroclor-1221{4}	8.00	8.84	370079	221801	907.300	1614.886	#
Sum Aroclor-1221			421537	221801	1304.159	1614.886	
Average Aroclor-1221					652.080	1614.886	
12) L3 Aroclor-1232{1}	8.00	0.00	370079	0	1277.044	N.D.	#
13) L3 Aroclor-1232{2}	9.36	0.00	106591	0	343.233	N.D.	#
14) L3 Aroclor-1232{3}	10.56	8.84	113996	221801	224.151	294.791	#
15) L3 Aroclor-1232{4}	12.55	9.19	316216	256207	1002.586	759.445	
16) L3 Aroclor-1232{5}	13.47	10.54	397116	598023	1750.641	1568.740	
Sum Aroclor-1232			1303997	1076031	4597.655	2622.976	
Average Aroclor-1232					919.531	874.325	
17) L4 Aroclor-1242{1}	8.00	0.00	370079	0	1419.998	N.D.	#
18) L4 Aroclor-1242{2}	9.36	0.00	106591	0	198.274	N.D.	#
19) L4 Aroclor-1242{3}	10.56	8.84	113996	221801	117.277	159.022	#
21) L4 Aroclor-1242{5}	12.55	10.54	316216	598023	567.438	904.094	#
Sum Aroclor-1242			906882	819824	2302.986	1063.116	
Average Aroclor-1242					575.747	531.558	
22) L5 Aroclor-1248{1}	9.36	0.00	106591	0	370.737	N.D.	#

399

(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_E\EA1870.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_E\EA1870.D\ECD2B.CH
Acq On : 19 Dec 97 8:53 Operator:
Sample : 278455 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:03 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
23) L5	Aroclor-1248{2}	10.56	8.84	113996	221801	135.894	182.926 #
24) L5	Aroclor-1248{3}	12.55	10.54	316216	598023	415.778	636.455 #
25) L5	Aroclor-1248{4}	13.47	10.81	397116	337350	559.092	388.938 #
26) L5	Aroclor-1248{5}	15.63	13.52	3707460	4519940	11168.347	12770.962
Sum	Aroclor-1248			4641378	5677113	12649.848	13979.281
Average	Aroclor-1248					2529.970	3494.820
						no	no
27) L6	Aroclor-1254{1}	~~11.63~~	~~9.81~~	417130	514410	~~1114.947~~	~~834.559~~ #
28) L6	Aroclor-1254{2}	13.81	11.70	2466571	2211060	4156.624	1790.069 #
29) L6	Aroclor-1254{3}	15.63	12.21	3707460	1833270	2853.349	1855.118 #
30) L6	Aroclor-1254{4}	16.55	13.52	2816677	4519940	4510.004	3228.044 #
31) L6	Aroclor-1254{5}	17.77	15.59	4583642	5378064	3779.109	3915.065
Sum	Aroclor-1254			13991479	14456743	16414.033	11622.856
Average	Aroclor-1254					~~3282.807~~	~~2324.571~~
						3824.86	2697.08
32) L7	Aroclor-1260{1}	16.16	13.97	1588910	2297659	1635.494	2094.255 #
33) L7	Aroclor-1260{2}	16.55	14.60	2816677	2735771	2389.245	1879.078
34) L7	Aroclor-1260{3}	18.96	15.59	1133991	5378064	1366.847	2833.808 #
35) L7	Aroclor-1260{4}	19.50	17.42	1050272	1036724	547.983	464.938
36) L7	Aroclor-1260{5}	20.83	18.42	722512	815442	462.368	500.637
Sum	Aroclor-1260			7312361	12263660	6401.937	7772.717
Average	Aroclor-1260					1280.387	1554.543
						no	no

400

JCF 12/18/22

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1870.D\ECD1A.CH Vial: 15
Signal #2 : E:\WESTDA~1\EA1870.D\ECD2B.CH
Acq On : 19 Dec 97 8:53 Operator:
Sample : 278455 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:30 1998 Quant Results File: SURR.RES

Quant Method : H:\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	5.07	562521	796288	39.550	36.776m
Spiked Amount 40.000 Range 43 - 150 Recovery =					98.87%	91.94%
2) SA Decachlorobiphen	25.89	21.42	834323	784205	35.473	34.374
Spiked Amount 40.000 Range 24 - 154 Recovery =					88.68%	85.94%

Target Compounds

400A

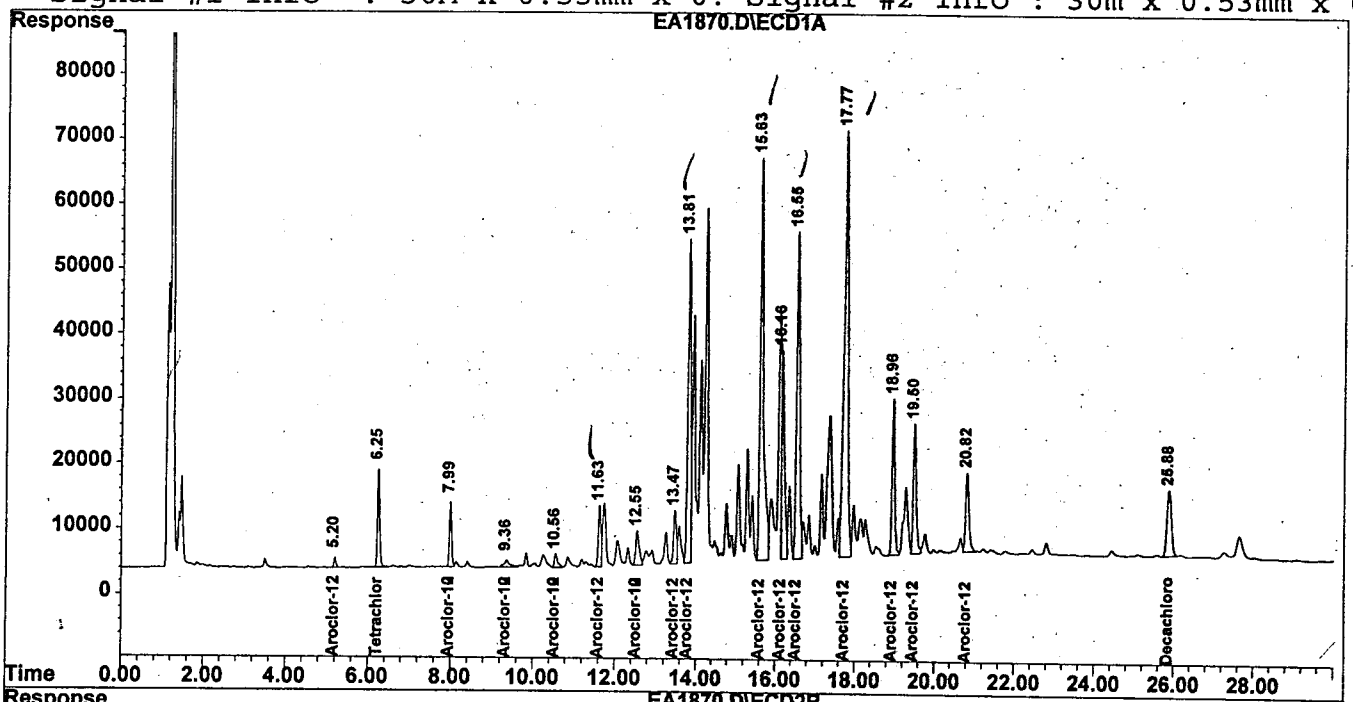
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

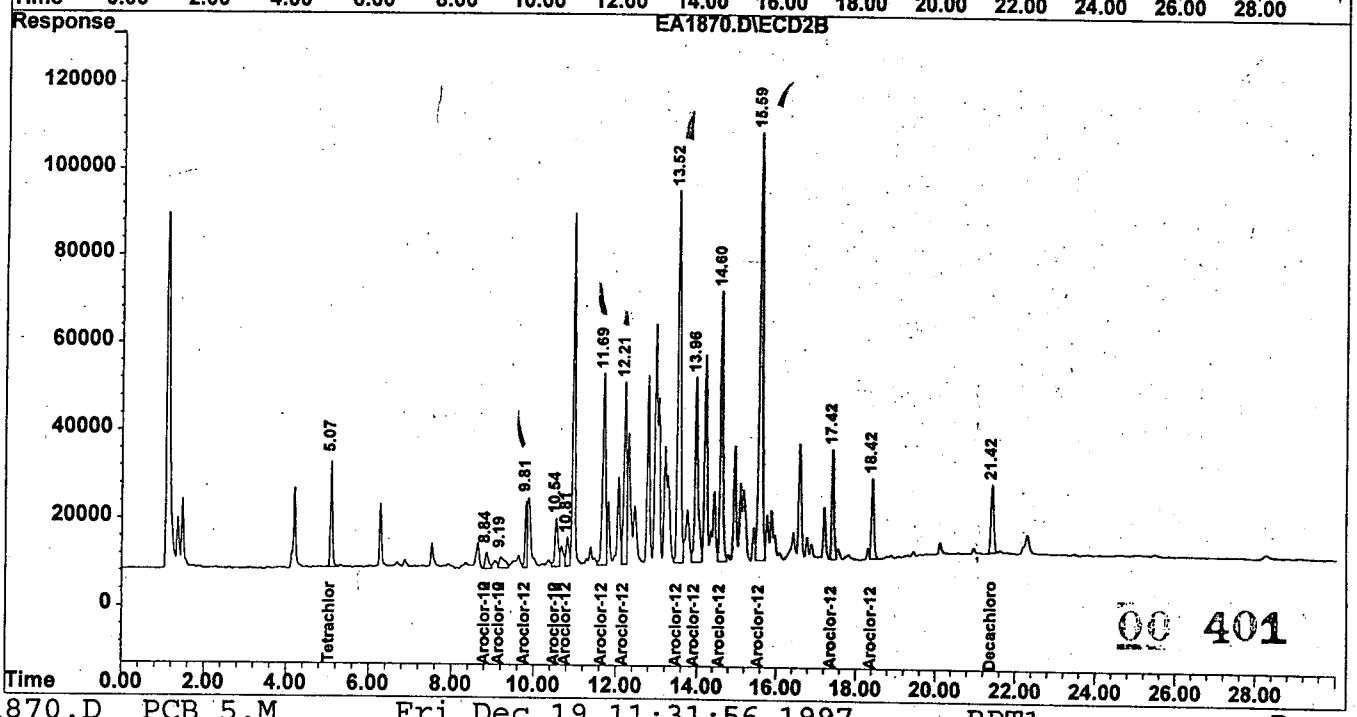
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1870.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_E\EA1870.D\ECD2B.CH
Acq On : 19 Dec 97 8:53 Operator:
Sample : 278455 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 10:03 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





00 401

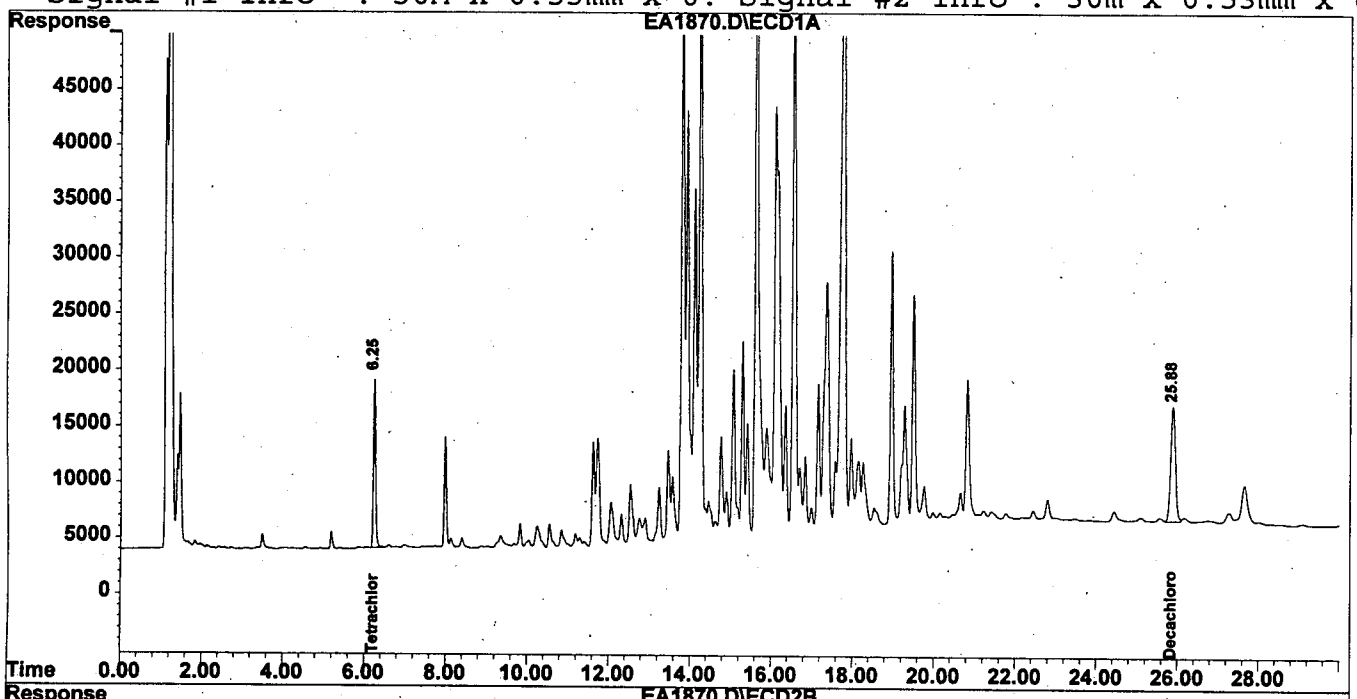
Quantitation Report

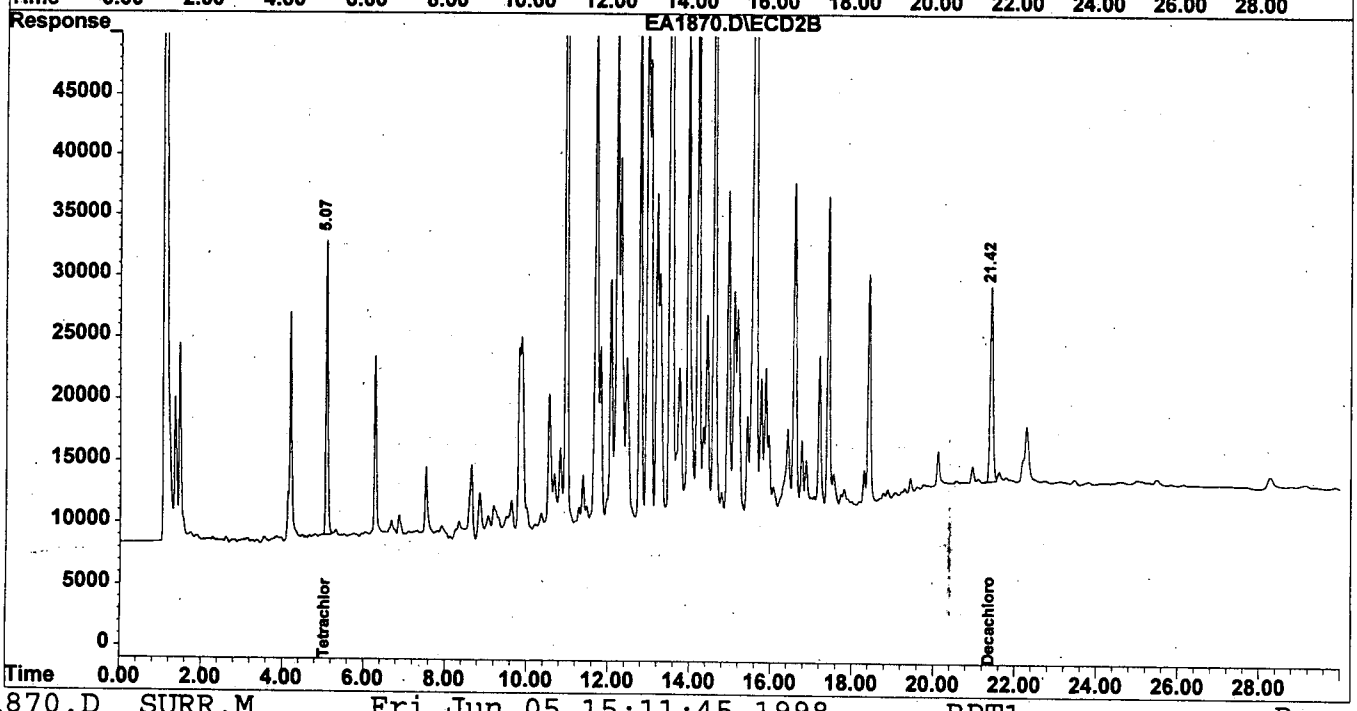
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1870.D\ECD1A.CH Vial: 15
Signal #2 : E:\WESTDA~1\EA1870.D\ECD2B.CH
Acq On : 19 Dec 97 8:53 Operator:
Sample : 278455 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:30 1998 Quant Results File: SURR.RES

Quant Method : H:\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





401A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278456
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVND1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	27.52%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	46	23
Aroclor-1221	U	U	92	64
Aroclor-1232	U	U	46	37
Aroclor-1242	U	U	46	23
Aroclor-1248	U	U	46	28
Aroclor-1254	~~820~~ 950	U	46	32
Aroclor-1260	U	U	46	37

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1873.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA_E\EA1873.D\ECD2B.CH
Acq On : 19 Dec 97 10:35 Operator:
Sample : 278456 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 11:22 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	6.24	5.07	612632	879865	44.530	44.240	
Spiked Amount 40.000 Range 43 - 150 Recovery =					111.33%	110.60%	
2) SA Decachlorobiphen	25.84	21.41	927381	808525	39.858	37.208	
Spiked Amount 40.000 Range 24 - 154 Recovery =					99.65%	93.02%	
Target Compounds							
3) L1 Aroclor-1016{1}	7.98	0.00	205309	0	616.914	N.D.	#
4) L1 Aroclor-1016{2}	9.34	0.00	41342	0	60.979	N.D.	#
5) L1 Aroclor-1016{3}	10.54	8.84	83732	134423	65.569	72.433	
6) L1 Aroclor-1016{4}	10.99	9.31	10562	73178	23.885	86.762	#
7) L1 Aroclor-1016{5}	12.53	10.54	277681	478624	425.860	568.140	#
Sum Aroclor-1016			618626	686225	1192.707	727.336	
Average Aroclor-1016					238.541	242.445	
					NP	NP	
11) L2 Aroclor-1221{4}	7.98	8.84	205309	134423	503.343	978.704	#
Sum Aroclor-1221			205309	134423	503.343	978.704	
Average Aroclor-1221					503.343	978.704	
					NP	NP	
12) L3 Aroclor-1232{1}	8.12	0.00	43752	0	150.978	N.D.	#
13) L3 Aroclor-1232{2}	9.34	0.00	41342	0	133.126	N.D.	#
14) L3 Aroclor-1232{3}	10.54	8.84	83732	134423	164.644	178.659	
15) L3 Aroclor-1232{4}	12.53	9.31	277681	73178	880.407	216.912	#
16) L3 Aroclor-1232{5}	13.45	10.54	366934	478624	1617.588	1255.533	
Sum Aroclor-1232			813441	686225	2946.742	1651.104	
Average Aroclor-1232					589.348	550.368	
					NP	NP	
17) L4 Aroclor-1242{1}	8.12	0.00	43752	0	167.879	N.D.	#
18) L4 Aroclor-1242{2}	9.34	0.00	41342	0	76.902	N.D.	#
19) L4 Aroclor-1242{3}	10.54	8.84	83732	134423	86.142	96.375	
20) L4 Aroclor-1242{4}	10.99	9.31	10562	73178	31.838	119.590	#
21) L4 Aroclor-1242{5}	12.53	10.54	277681	478624	498.288	723.587	#
Sum Aroclor-1242			457070	686225	861.049	939.552	
Average Aroclor-1242					172.210	313.184	
					NP	NP	
22) L5 Aroclor-1248{1}	9.34	0.00	41342	0	143.793	N.D.	#

JRS 12/16/97 NP

403

(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_E\EA1873.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA_E\EA1873.D\ECD2B.CH
Acq On : 19 Dec 97 10:35 Operator:
Sample : 278456 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 11:22 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
23) L5	Aroclor-1248{2}	10.54	8.84	83732	134423	99.817	110.862
24) L5	Aroclor-1248{3}	12.53	10.54	277681	478624	365.110	509.384 #
25) L5	Aroclor-1248{4}	13.45	10.81	366934	268340	516.600	309.375 #
26) L5	Aroclor-1248{5}	15.60	13.52	2489538	3652604	7499.480	10320.328 #
Sum	Aroclor-1248			3259227	4533991	8624.800	11249.949
Average	Aroclor-1248					1724.960	2812.487
						ND	ND
27) L6	Aroclor-1254{1}	11.61	9.81	312412	366113	~~835.047~~	~~593.968~~ #
28) L6	Aroclor-1254{2}	13.78	11.69	3026481	1809787	~~5100.173~~	1465.199 #
29) L6	Aroclor-1254{3}	15.60	12.21	2489538	1298621	1916.007	1314.098 #
30) L6	Aroclor-1254{4}	16.53	13.52	1896277	3652604	3036.279	2608.611
31) L6	Aroclor-1254{5}	17.74	15.59	2740261	3984002	2259.283	2900.231 #
Sum	Aroclor-1254			10464968	11111126	13146.789	~~8882.107~~
Average	Aroclor-1254					~~2629.358~~ 2404	~~1776.421~~ 2092
32) L7	Aroclor-1260{1}	16.14	13.96	1143486	1669773	1177.012	1521.954 #
33) L7	Aroclor-1260{2}	16.53	14.60	1896277	1895736	1608.516	1302.096
34) L7	Aroclor-1260{3}	18.94	15.59	787056	3984002	948.672	2099.249 #
35) L7	Aroclor-1260{4}	19.47	17.41	705208	702000	367.945	314.825
36) L7	Aroclor-1260{5}	0.00	18.41	0	554299	N.D.	340.310 #
Sum	Aroclor-1260			4532027	8805811	4102.144	5578.435
Average	Aroclor-1260					1025.536	1115.687
						ND	ND

QC 404

TPE 12/15/02

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1873.D\ECD1A.CH Vial: 18
Signal #2 : E:\WESTDA~1\EA1873.D\ECD2B.CH
Acq On : 19 Dec 97 10:35 Operator:
Sample : 278456 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:31 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	612632	898013	43.073	41.474
Spiked Amount 40.000 Range 43 - 150 Recovery =					107.68%	103.69%
2) SA Decachlorobiphen	25.84	21.41	913173	861812	38.826m	37.776
Spiked Amount 40.000 Range 24 - 154 Recovery =					97.07%	94.44%

Target Compounds

404A

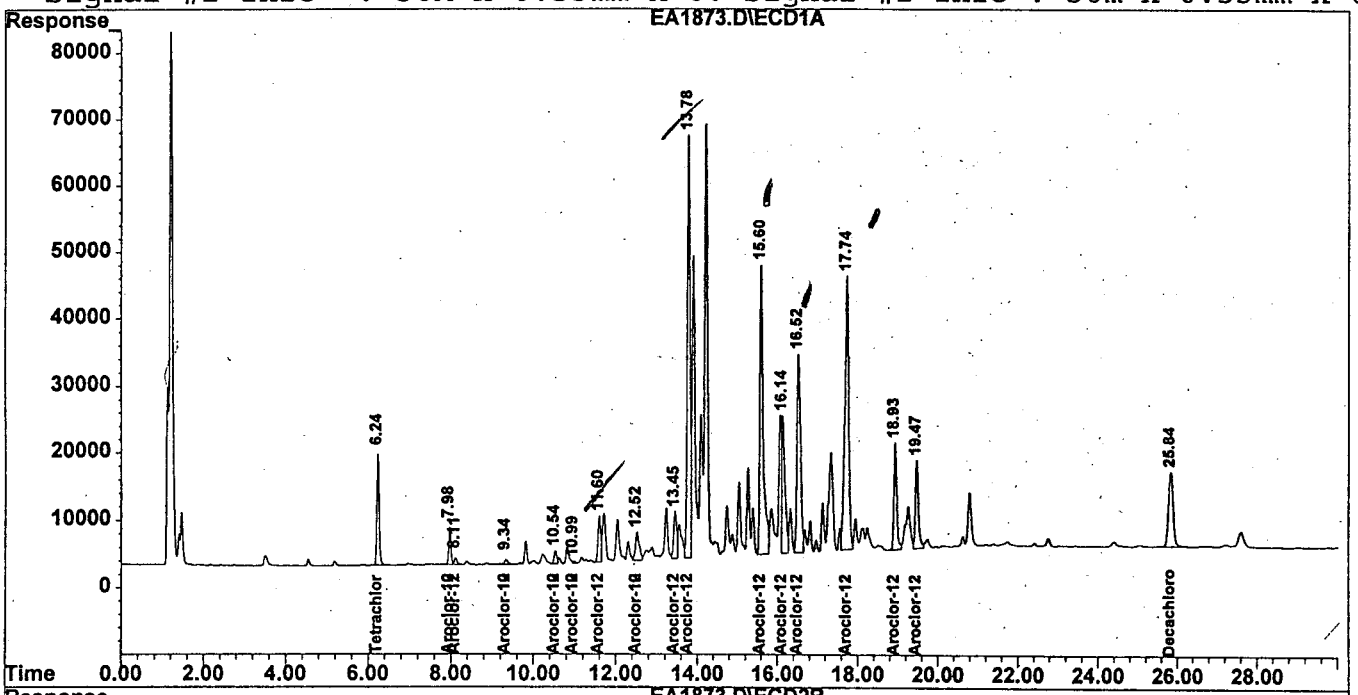
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

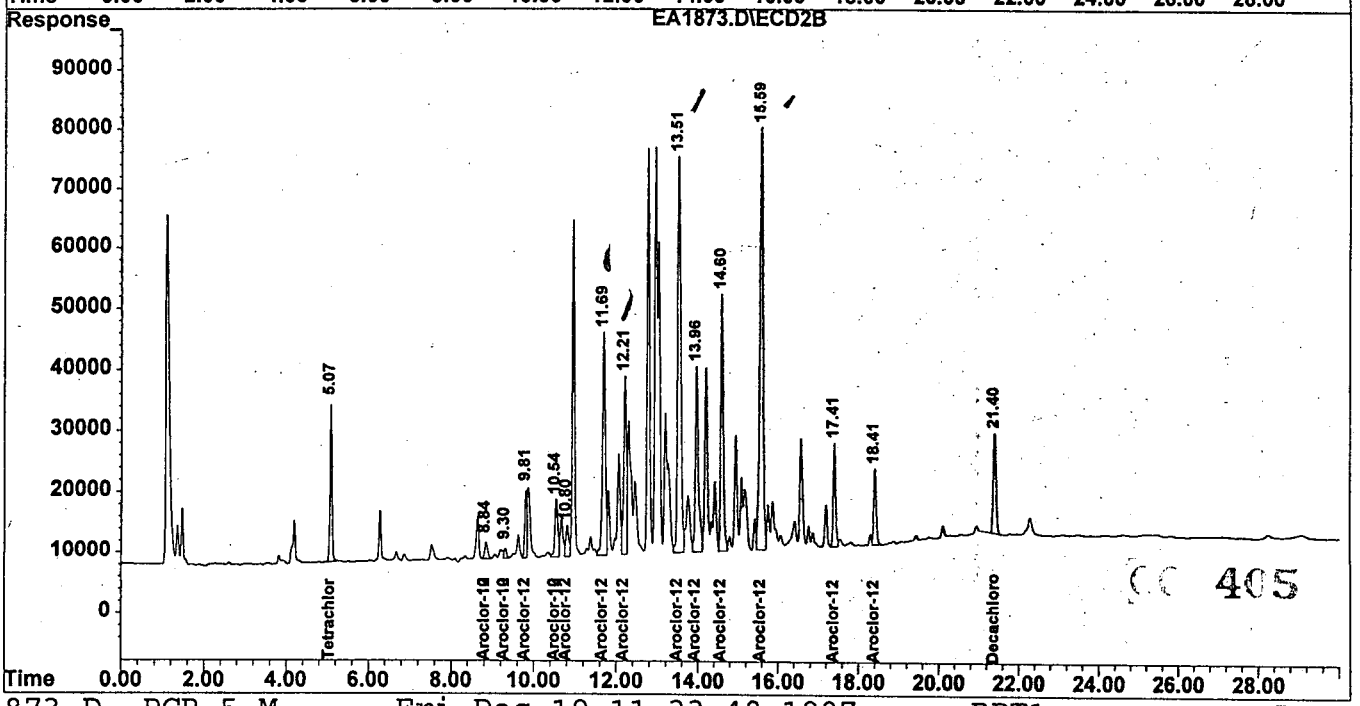
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1873.D\ECD1A.CH Vial: 18
Signal #2 : C:\HPCHEM\1\DATA_E\EA1873.D\ECD2B.CH
Acq On : 19 Dec 97 10:35 Operator:
Sample : 278456 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 11:22 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 405

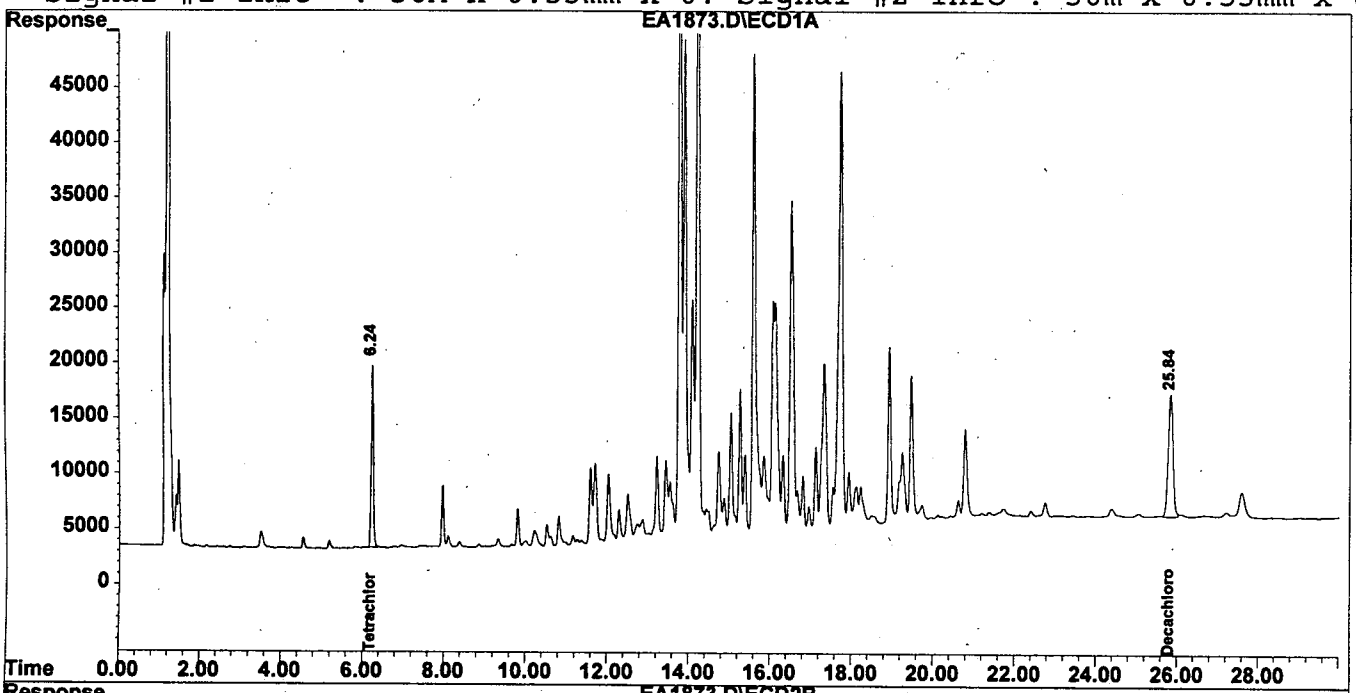
Quantitation Report

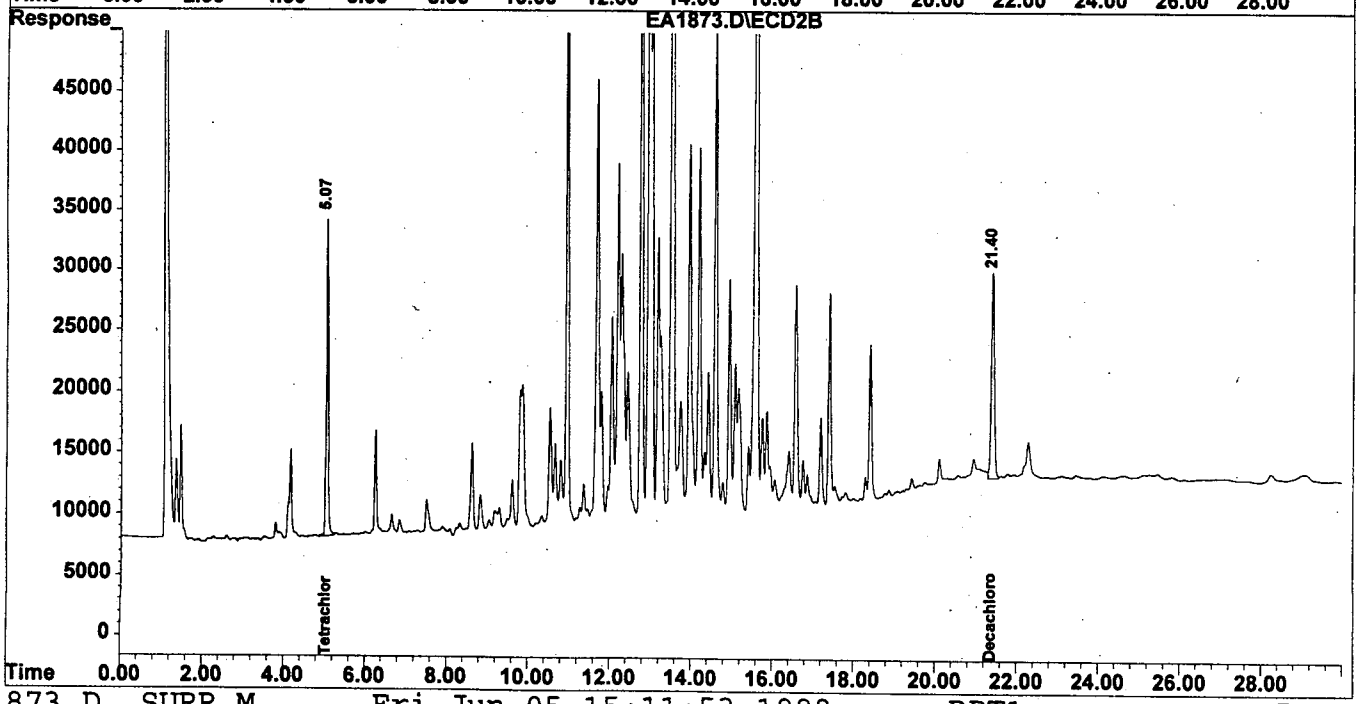
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1873.D\ECD1A.CH Vial: 18
Signal #2 : E:\WESTDA~1\EA1873.D\ECD2B.CH
Acq On : 19 Dec 97 10:35 Operator:
Sample : 278456 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:31 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278457
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVNS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	46.89%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	63	31
Aroclor-1221	U	U	120	88
Aroclor-1232	U	U	63	50
Aroclor-1242	U	U	63	31
Aroclor-1248	U	U	63	38
Aroclor-1254	2000	U	63	44
Aroclor-1260	U	U	63	50

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.
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All rights reserved.
DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1874.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA_E\EA1874.D\ECD2B.CH
Acq On : 19 Dec 97 11:09 Operator:
Sample : 278457 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 13:20 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	6.23	5.07	567468	795267	41.247	39.987	
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.12%	99.97%	
2) SA Decachlorobiphen	25.85	21.41	867789	757008	37.297	34.837	
Spiked Amount 40.000 Range 24 - 154 Recovery =					93.24%	87.09%	
Target Compounds							
4) L1 Aroclor-1016{2}	9.34	0.00	103851	0	153.178	N.D.	#
5) L1 Aroclor-1016{3}	10.54	8.83	121658	163302	95.268	87.994	
6) L1 Aroclor-1016{4}	0.00	9.23	0	226804	N.D.	268.907	#
7) L1 Aroclor-1016{5}	12.52	10.53	853039	1224755	1306.712	1453.818	
Sum Aroclor-1016			1078548	1614861	1555.157	1810.719	
Average Aroclor-1016					518.386	603.573	
10) L2 Aroclor-1221{3}	7.87	0.00	11274	0	81.864	N.D.	#
11) L2 Aroclor-1221{4}	7.97	8.83	101785	163302	249.539	1188.965	#
Sum Aroclor-1221			113059	163302	331.403	1188.965	
Average Aroclor-1221					165.702	1188.965	
13) L3 Aroclor-1232{2}	9.34	0.00	103851	0	334.411	N.D.	#
14) L3 Aroclor-1232{3}	10.54	8.83	121658	163302	239.218	217.041	
15) L3 Aroclor-1232{4}	12.52	9.23	853039	226804	2704.622	672.290	#
16) L3 Aroclor-1232{5}	13.44	10.53	672785	1224755	2965.901	3212.792	
Sum Aroclor-1232			1751333	1614861	6244.152	4102.122	
Average Aroclor-1232					1561.038	1367.374	
17) L4 Aroclor-1242{1}	8.12	0.00	33084	0	126.942	N.D.	#
18) L4 Aroclor-1242{2}	9.34	0.00	103851	0	193.177	N.D.	#
19) L4 Aroclor-1242{3}	10.54	8.83	121658	163302	125.159	117.080	
20) L4 Aroclor-1242{4}	0.00	9.23	0	226804	N.D.	370.651	#
21) L4 Aroclor-1242{5}	12.52	10.53	853039	1224755	1530.748	1851.592	
Sum Aroclor-1242			1111632	1614861	1976.026	2339.323	
Average Aroclor-1242					494.007	779.774	
22) L5 Aroclor-1248{1}	9.34	0.00	103851	0	361.207	N.D.	#
23) L5 Aroclor-1248{2}	10.54	8.83	121658	163302	145.028	134.680	

406

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1874.D\ECD1A.CH Vial: 19
Signal #2 : E:\WESTDA~1\EA1874.D\ECD2B.CH
Acq On : 19 Dec 97 11:09 Operator:
Sample : 278457 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:31 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	567468	859542	39.897	39.698
Spiked Amount 40.000 Range 43 - 150 Recovery =					99.74%	99.25%
2) SA Decachlorobiphen	25.84	21.41	837866	822456	35.624m	36.051
Spiked Amount 40.000 Range 24 - 154 Recovery =					89.06%	90.13%

Target Compounds

- 4 0 7A 6/8/98

(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_E\EA1874.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA_E\EA1874.D\ECD2B.CH
Acq On : 19 Dec 97 11:09 Operator:
Sample : 278457 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 13:20 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	
24)	L5 Aroclor-1248{3}	12.52	10.53	853039	1224755	1121.623	1303.466	
25)	L5 Aroclor-1248{4}	13.44	10.81	672785	557612	947.202	642.883	#
26)	L5 Aroclor-1248{5}	15.60	13.51	4013109	4775696	12089.084	13493.595	
	Sum Aroclor-1248			5764442	6721365	14664.145	15574.623	
	Average Aroclor-1248					2932.829	3893.656	
27)	L6 Aroclor-1254{1}	11.60	9.86	764711	2876957	2043.998	4667.469	#
28)	L6 Aroclor-1254{2}	13.79	11.69	2392048	2929356	4031.038	2371.600	#
29)	L6 Aroclor-1254{3}	15.60	12.20	4013109	2232170	3088.583	2258.772	#
30)	L6 Aroclor-1254{4}	16.52	13.51	2309214	4775696	3697.466	3410.700	
31)	L6 Aroclor-1254{5}	17.74	15.59	4099157	5250344	3379.662	3822.089	
	Sum Aroclor-1254			13578238	18064524	16240.747	16530.630	
	Average Aroclor-1254					3248.149	3306.126	
32)	L7 Aroclor-1260{1}	16.12	13.96	1286770	2400456	1324.496m	2187.952	#
33)	L7 Aroclor-1260{2}	16.52	14.60	2309214	2612380	1958.790	1794.327	
34)	L7 Aroclor-1260{3}	18.94	15.59	1104553	5250344	1331.365	2766.510	#
35)	L7 Aroclor-1260{4}	19.47	17.41	940423	968833	490.669	434.491	
36)	L7 Aroclor-1260{5}	20.80	18.41	682136	763456	436.530m	468.721	
	Sum Aroclor-1260			6323096	11995468	5541.849	7652.000	
	Average Aroclor-1260					1108.370	1530.400	

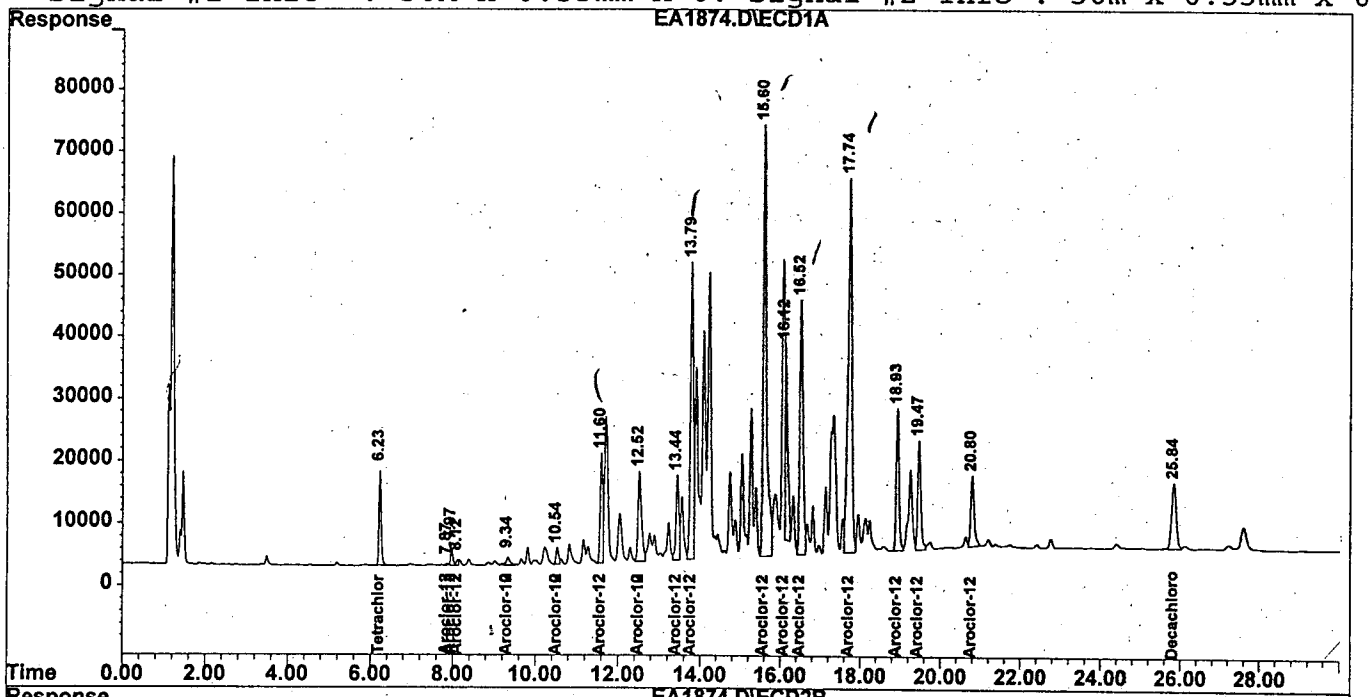
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

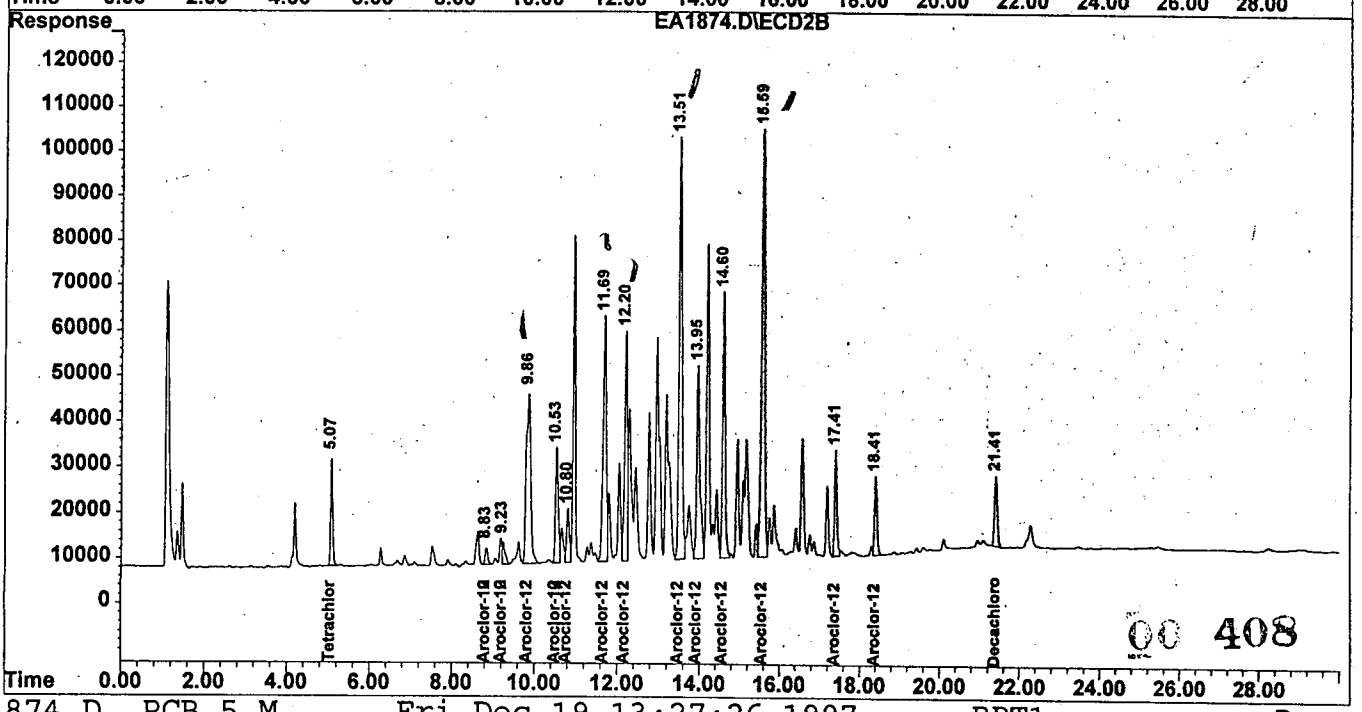
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1874.D\ECD1A.CH Vial: 19
Signal #2 : C:\HPCHEM\1\DATA_E\EA1874.D\ECD2B.CH
Acq On : 19 Dec 97 11:09 Operator:
Sample : 278457 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 13:20 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





00 408

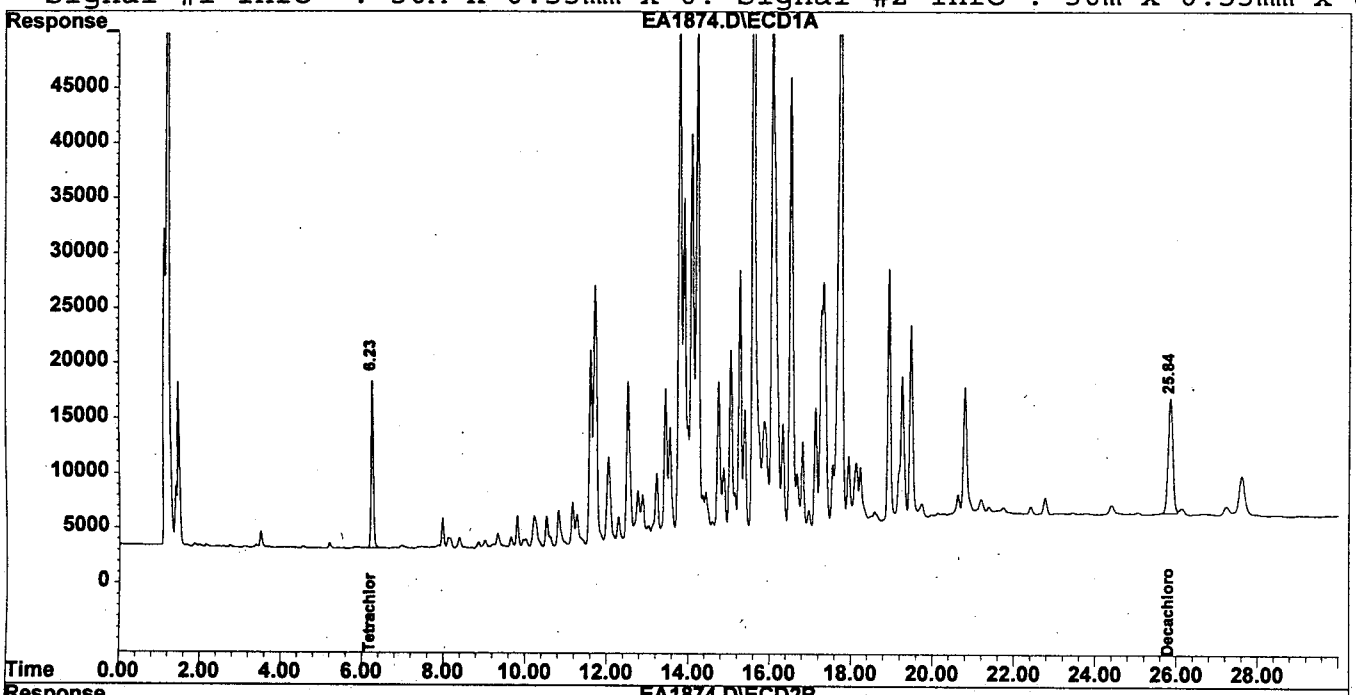
Quantitation Report

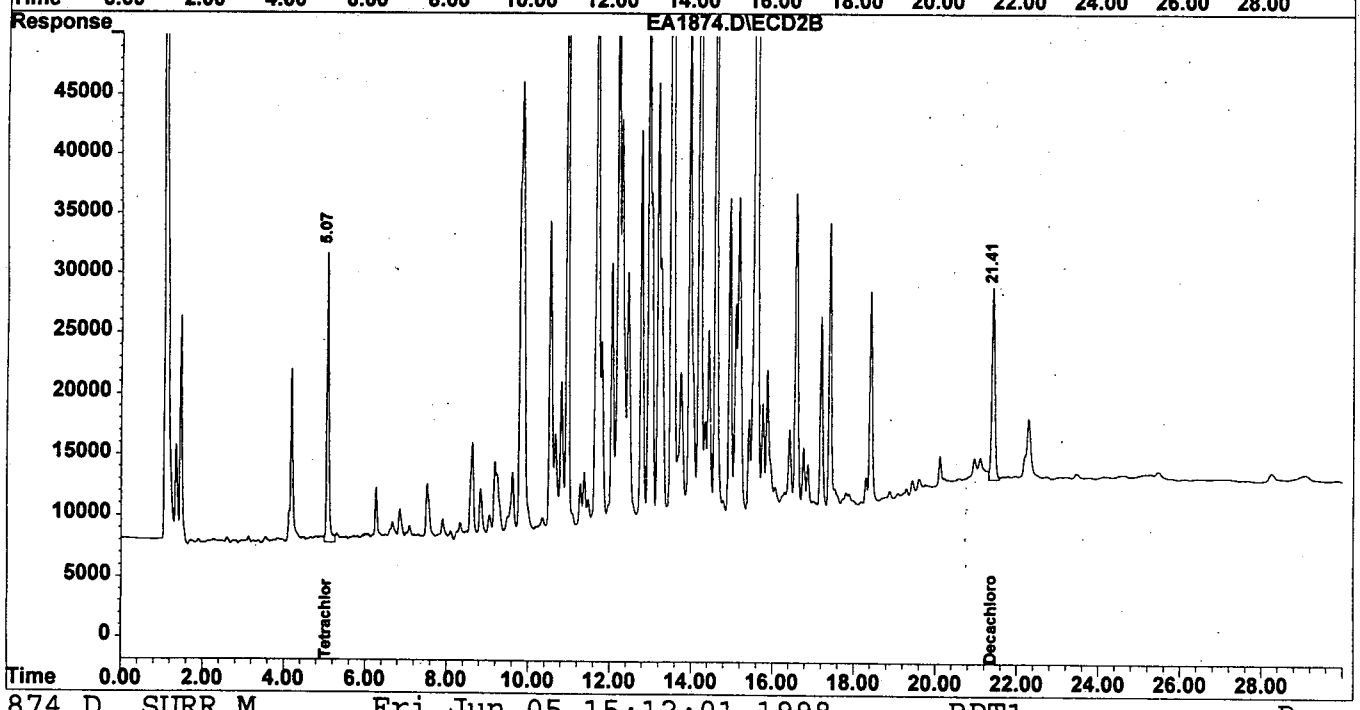
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1874.D\ECD1A.CH Vial: 19
Signal #2 : E:\WESTDA~1\EA1874.D\ECD2B.CH
Acq On : 19 Dec 97 11:09 Operator:
Sample : 278457 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:31 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278458
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVND2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	50ml
Dilution Factor:	5	Sample Moisture:	42.99%

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	4600	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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_E\EA1883.D\ECD1A.CH Vial: 28
Signal #2 : F:\1\DATA_E\EA1883.D\ECD2B.CH
Acq On : 19 Dec 97 16:12 Operator:
Sample : 278458 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:49 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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	6.23	5.07	127389	187083	9.259	9.407
Spiked Amount 40.000 Range 43 - 150 Recovery =					23.15%#	23.52%#
2) SA Decachlorobiphen	25.85	21.41	206548	184764	8.877	8.503
Spiked Amount 40.000 Range 24 - 154 Recovery =					22.19%#	21.26%#
Target Compounds						
4) L1 Aroclor-1016{2}	9.34	7.55	29281	160666	43.189	184.489 #
5) L1 Aroclor-1016{3}	10.53	8.83	70345	98101	55.086	52.861
6) L1 Aroclor-1016{4}	0.00	9.23	0	76599	N.D.	90.818 #
7) L1 Aroclor-1016{5}	12.52	10.53	460952	642199	706.100	762.308
Sum Aroclor-1016			560578	977564	804.374	1090.475
Average Aroclor-1016					268.125	272.619
					NP	NP
11) L2 Aroclor-1221{4}	0.00	8.83	0	98101	N.D.	714.249 #
Sum Aroclor-1221			0	98101	N.D.	714.249
Average Aroclor-1221					0.000	714.249
						NP
13) L3 Aroclor-1232{2}	9.34	7.55	29281	160666	94.288	437.703 #
14) L3 Aroclor-1232{3}	10.53	8.83	70345	98101	138.320	130.383
15) L3 Aroclor-1232{4}	12.52	9.23	460952	76599	1461.481	227.052 #
16) L3 Aroclor-1232{5}	13.44	10.53	323721	642199	1427.089	1684.623
Sum Aroclor-1232			884299	977564	3121.178	2479.762
Average Aroclor-1232					780.295	619.940
					NP	NP
18) L4 Aroclor-1242{2}	9.34	7.55	29281	160666	54.467	247.601 #
19) L4 Aroclor-1242{3}	10.53	8.83	70345	98101	72.370	70.334
20) L4 Aroclor-1242{4}	0.00	9.23	0	76599	N.D.	125.180 #
21) L4 Aroclor-1242{5}	12.52	10.53	460952	642199	827.161	970.880
Sum Aroclor-1242			560578	977564	953.997	1413.995
Average Aroclor-1242					317.999	353.499
					NP	NP
22) L5 Aroclor-1248{1}	9.34	7.55	29281	160666	101.343	451.348 #
23) L5 Aroclor-1248{2}	10.53	8.83	70345	98101	83.858	80.906
24) L5 Aroclor-1248{3}	12.52	10.53	460952	642199	606.085	683.471
25) L5 Aroclor-1248{4}	13.44	10.80	323721	265599	455.761	306.215 #
					NP	NP

410

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_E\EA1883.D\ECD1A.CH Vial: 28
Signal #2 : F:\1\DATA_E\EA1883.D\ECD2B.CH
Acq On : 19 Dec 97 16:12 Operator:
Sample : 278458 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:49 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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	
26)	L5 Aroclor-1248{5}	15.60	13.51	2157263	2695959	6498.535	7617.356	
	Sum Aroclor-1248			3041561	3862523	7746.082	9139.296	
	Average Aroclor-1248					1549.216	1827.859	
27)	L6 Aroclor-1254{1}	11.60	9.80	484524	612882	1295.085	994.317m	
28)	L6 Aroclor-1254{2}	13.79	11.69	1223011	1670340	2060.997	1352.304	#
29)	L6 Aroclor-1254{3}	15.60	12.20	2157263	1341094	1660.280	1357.076	
30)	L6 Aroclor-1254{4}	16.52	13.51	1185267	2695959	1897.825	1925.396	
31)	L6 Aroclor-1254{5}	17.74	15.59	2135101	3104782	1760.343	2260.186	#
	Sum Aroclor-1254			7185165	9425057	8674.530	7889.279	
	Average Aroclor-1254					1734.906	1577.856	
32)	L7 Aroclor-1260{1}	0.00	13.96	0	1397422	N.D.	1273.713	#
33)	L7 Aroclor-1260{2}	16.52	14.60	1185267	1559318	1005.402	1071.025	
34)	L7 Aroclor-1260{3}	18.93	15.59	585409	3104782	705.619	1635.971	#
35)	L7 Aroclor-1260{4}	19.47	17.41	488391	500417	254.820	224.421	
36)	L7 Aroclor-1260{5}	0.00	18.41	0	361852	N.D.	222.157	#
	Sum Aroclor-1260			2259067	6923789	1965.841	4427.288	
	Average Aroclor-1260					655.280	885.458	

411

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1883.D\ECD1A.CH Vial: 28
Signal #2 : E:\WESTDA~1\EA1883.D\ECD2B.CH
Acq On : 19 Dec 97 16:12 Operator:
Sample : 278458 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:33 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	127389	188925	8.956	8.725
Spiked Amount 40.000 Range 43 - 150 Recovery =					22.39%#	21.81%#
2) SA Decachlorobiphen	25.84	21.41	210106	185359	8.933m	8.125
Spiked Amount 40.000 Range 24 - 154 Recovery =					22.33%#	20.31%#

Target Compounds

4 1 1A 7086/8/8

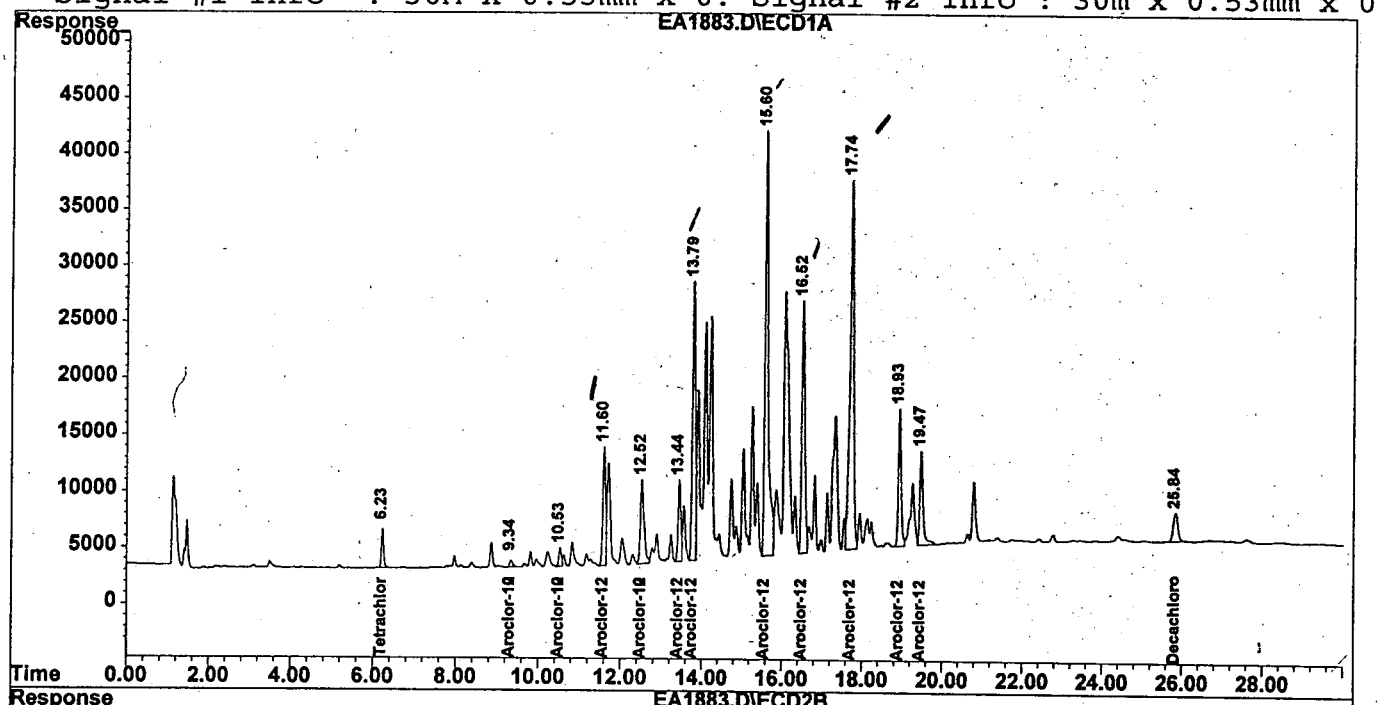
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

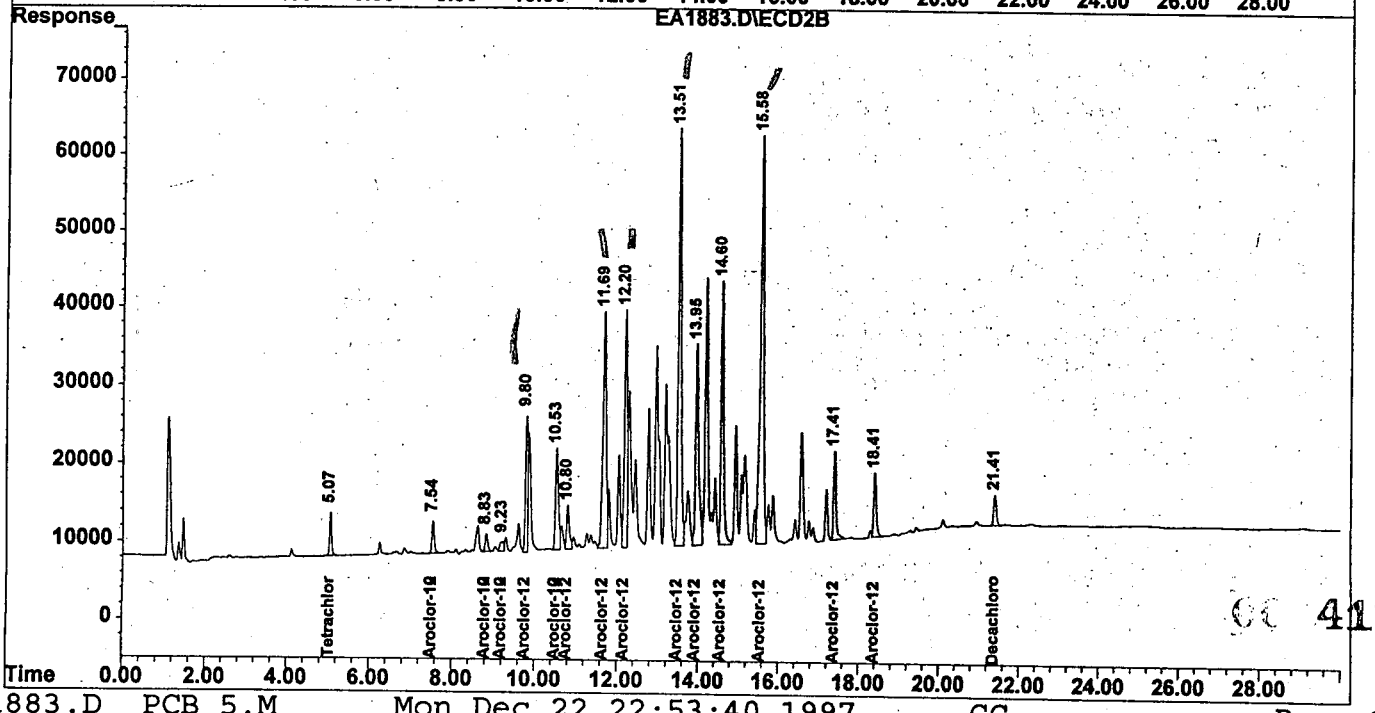
Quantitation Report

Signal #1 : F:\1\DATA_E\EA1883.D\ECD1A.CH Vial: 28
Signal #2 : F:\1\DATA_E\EA1883.D\ECD2B.CH
Acq On : 19 Dec 97 16:12 Operator:
Sample : 278458 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:49 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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 412

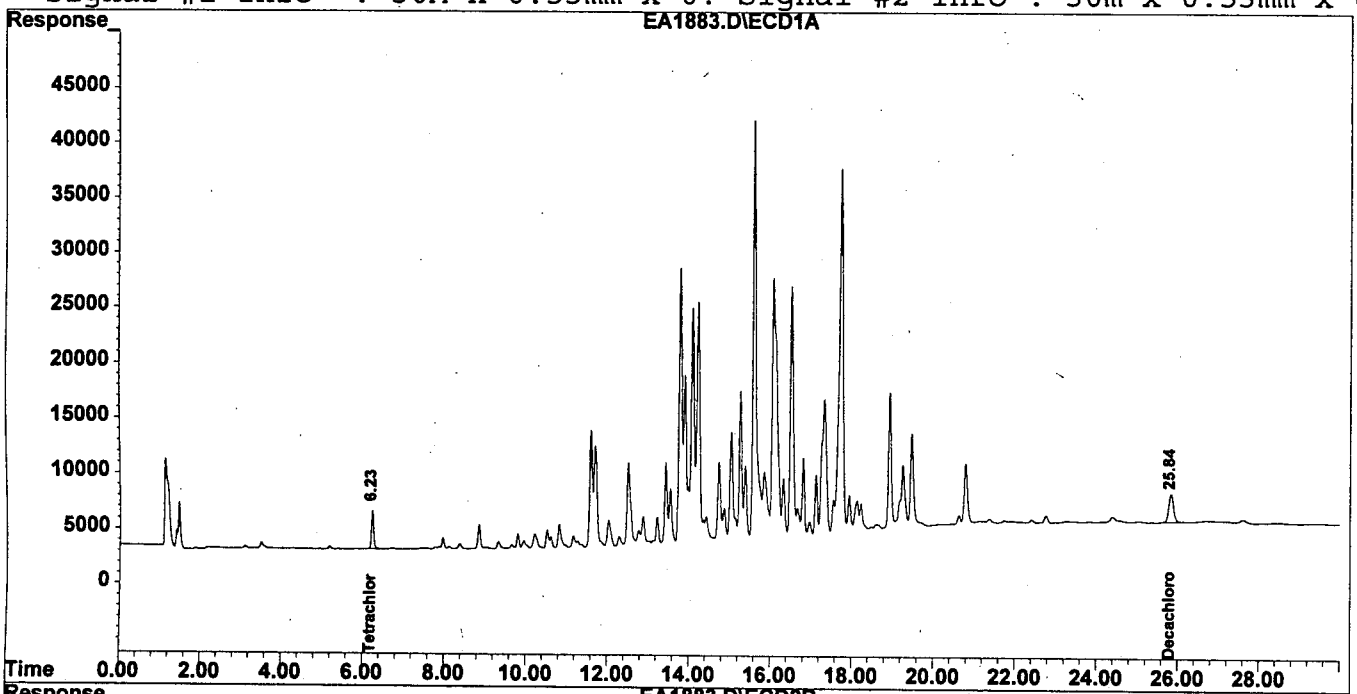
Quantitation Report

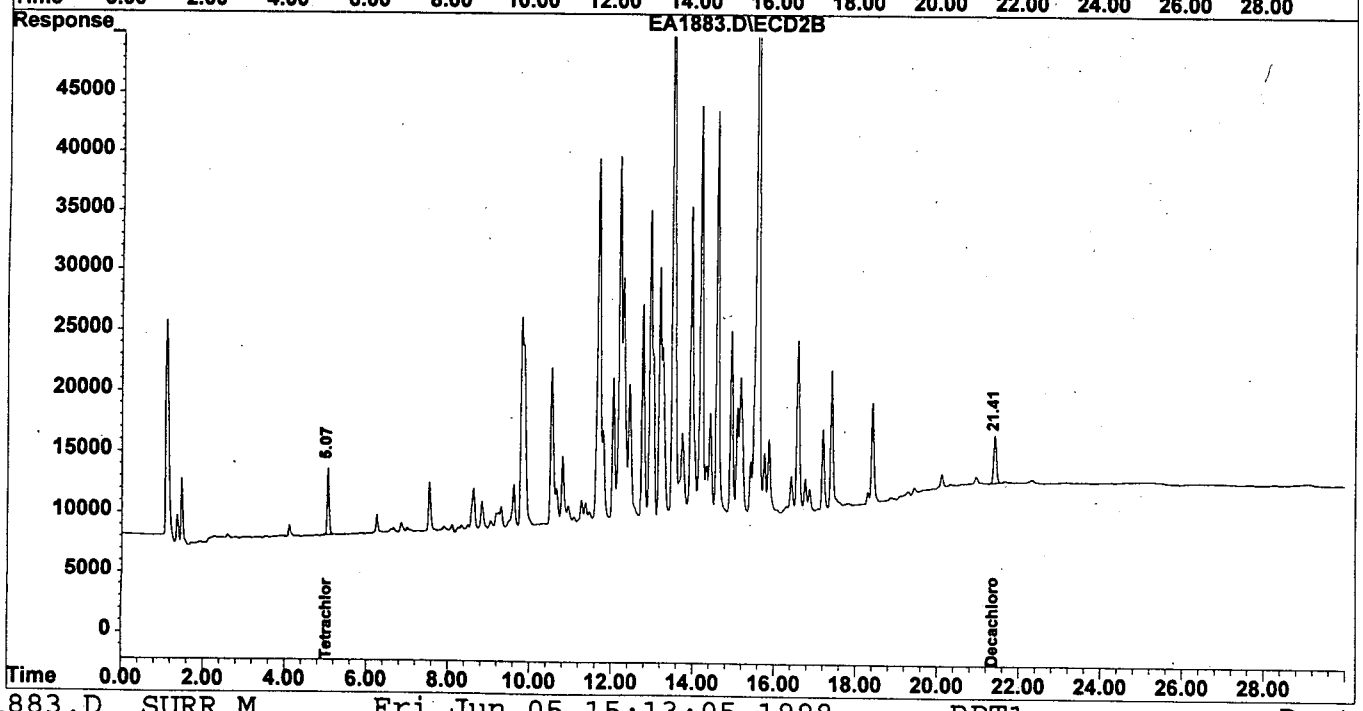
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1883.D\ECD1A.CH Vial: 28
Signal #2 : E:\WESTDA~1\EA1883.D\ECD2B.CH
Acq On : 19 Dec 97 16:12 Operator:
Sample : 278458 1:5 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:33 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278459
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVSS1
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	54.8%

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	74	37
Aroclor-1221	U	U	150	100
Aroclor-1232	U	U	74	59
Aroclor-1242	U	U	74	37
Aroclor-1248	U	U	74	44
Aroclor-1254	1600	U	74	52
Aroclor-1260	U	U	74	59

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1876.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_E\EA1876.D\ECD2B.CH
Acq On : 19 Dec 97 12:17 Operator:
Sample : 278459 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 13:19 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	6.24	5.07	597015	845771	43.395	42.526	
Spiked Amount 40.000 Range 43 - 150 Recovery =					108.49%	106.32%	
2) SA Decachlorobiphen	25.84	21.40	926680	831905	39.828	38.284	
Spiked Amount 40.000 Range 24 - 154 Recovery =					99.57%	95.71%	
Target Compounds							
3) L1 Aroclor-1016{1}	7.98	0.00	159314	0	478.707	N.D.	#
4) L1 Aroclor-1016{2}	9.34	0.00	47455	0	69.995	N.D.	#
5) L1 Aroclor-1016{3}	10.54	8.84	99565	169272	77.967	91.211	
6) L1 Aroclor-1016{4}	0.00	9.18	0	242122	N.D.	287.068	#
7) L1 Aroclor-1016{5}	12.53	10.54	394861	657722	604.860	780.734	#
Sum Aroclor-1016			701195	1069116	1231.529	1159.013	
Average Aroclor-1016					307.882	386.338	
					NP	NP	
11) L2 Aroclor-1221{4}	7.98	8.84	159314	169272	390.580	1232.434	#
Sum Aroclor-1221			159314	169272	390.580	1232.434	
Average Aroclor-1221					390.580	1232.434	
					NP	NP	
12) L3 Aroclor-1232{1}	8.12	0.00	49510	0	170.844	N.D.	#
13) L3 Aroclor-1232{2}	9.34	0.00	47455	0	152.810	N.D.	#
14) L3 Aroclor-1232{3}	10.54	8.84	99565	169272	195.776	224.976	
15) L3 Aroclor-1232{4}	12.53	0.00	394861	0	1251.935	N.D.	#
16) L3 Aroclor-1232{5}	13.45	10.54	383360	657722	1690.002	1725.343	
Sum Aroclor-1232			974751	826994	3461.367	1950.319	
Average Aroclor-1232					692.273	975.159	
					NP	NP	
17) L4 Aroclor-1242{1}	8.12	0.00	49510	0	189.969	N.D.	#
18) L4 Aroclor-1242{2}	9.34	0.00	47455	0	88.273	N.D.	#
19) L4 Aroclor-1242{3}	10.54	8.84	99565	169272	102.431	121.361	
21) L4 Aroclor-1242{5}	12.53	10.54	394861	657722	708.563	994.347	#
Sum Aroclor-1242			591390	826994	1089.236	1115.708	
Average Aroclor-1242					272.309	557.854	
					NP	NP	
22) L5 Aroclor-1248{1}	9.34	0.00	47455	0	165.055	N.D.	#
23) L5 Aroclor-1248{2}	10.54	8.84	99565	169272	118.691	139.604	
					NP	NP	

414

(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_E\EA1876.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_E\EA1876.D\ECD2B.CH
Acq On : 19 Dec 97 12:17 Operator:
Sample : 278459 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 13:19 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	
24)	L5 Aroclor-1248{3}	12.53	10.54	394861	657722	519.185	699.991	#
25)	L5 Aroclor-1248{4}	13.45	10.81	383360	332835	539.726	383.733	#
26)	L5 Aroclor-1248{5}	15.60	13.51	3257071	3981691	9811.598	11250.154	
	Sum Aroclor-1248			4182312	5141520	11154.254	12473.481	
	Average Aroclor-1248					2230.851	3118.370	
						np	np	
27)	L6 Aroclor-1254{1}	11.61	9.81	464161	565815	1240.657	917.957	#
28)	L6 Aroclor-1254{2}	13.79	11.69	1608893	1924542	2711.279	1558.105	#
29)	L6 Aroclor-1254{3}	15.60	12.21	3257071	1650607	2506.719	1670.278	#
30)	L6 Aroclor-1254{4}	16.52	13.51	2149009	3981691	3440.949	2843.638	
31)	L6 Aroclor-1254{5}	17.74	15.59	3874979	4897905	3194.832	3565.524	
	Sum Aroclor-1254			11354113	13020560	13094.436	10555.503	
	Average Aroclor-1254					2618.887	2111.101	
32)	L7 Aroclor-1260{1}	0.00	13.96	0	2097789	N.D.	1912.079	#
33)	L7 Aroclor-1260{2}	16.52	14.60	2149009	2490792	1822.896	1710.813	
34)	L7 Aroclor-1260{3}	18.93	15.59	1065411	4897905	1284.185	2580.803	#
35)	L7 Aroclor-1260{4}	19.47	17.41	935736	926994	488.224	415.727	
36)	L7 Aroclor-1260{5}	0.00	18.41	0	743806	N.D.	456.657	#
	Sum Aroclor-1260			4150156	11157286	3595.304	7076.080	
	Average Aroclor-1260					1198.435	1415.216	
						np	np	

415

TPB 12/18/12

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

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 6 1998

Signal #1 : E:\WESTDA~1\EA1876.D\ECD1A.CH Vial: 21
Signal #2 : E:\WESTDA~1\EA1876.D\ECD2B.CH
Acq On : 19 Dec 97 12:17 Operator:
Sample : 278459 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:31 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	597015	843131	41.975	38.940m
Spiked Amount 40.000 Range 43 - 150 Recovery =					104.94%	97.35%
2) SA Decachlorobiphen	25.83	21.40	906840	862880	38.556m	37.823m
Spiked Amount 40.000 Range 24 - 154 Recovery =					96.39%	94.56%
Target Compounds						

415A

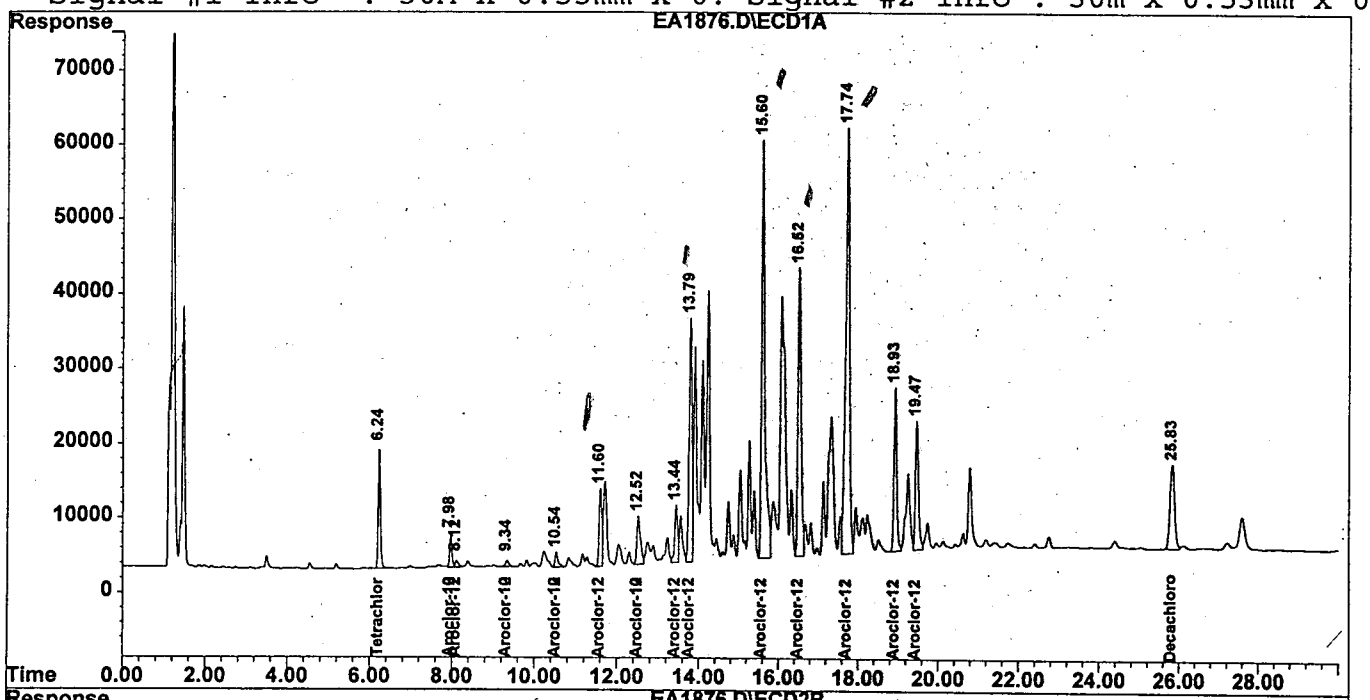
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

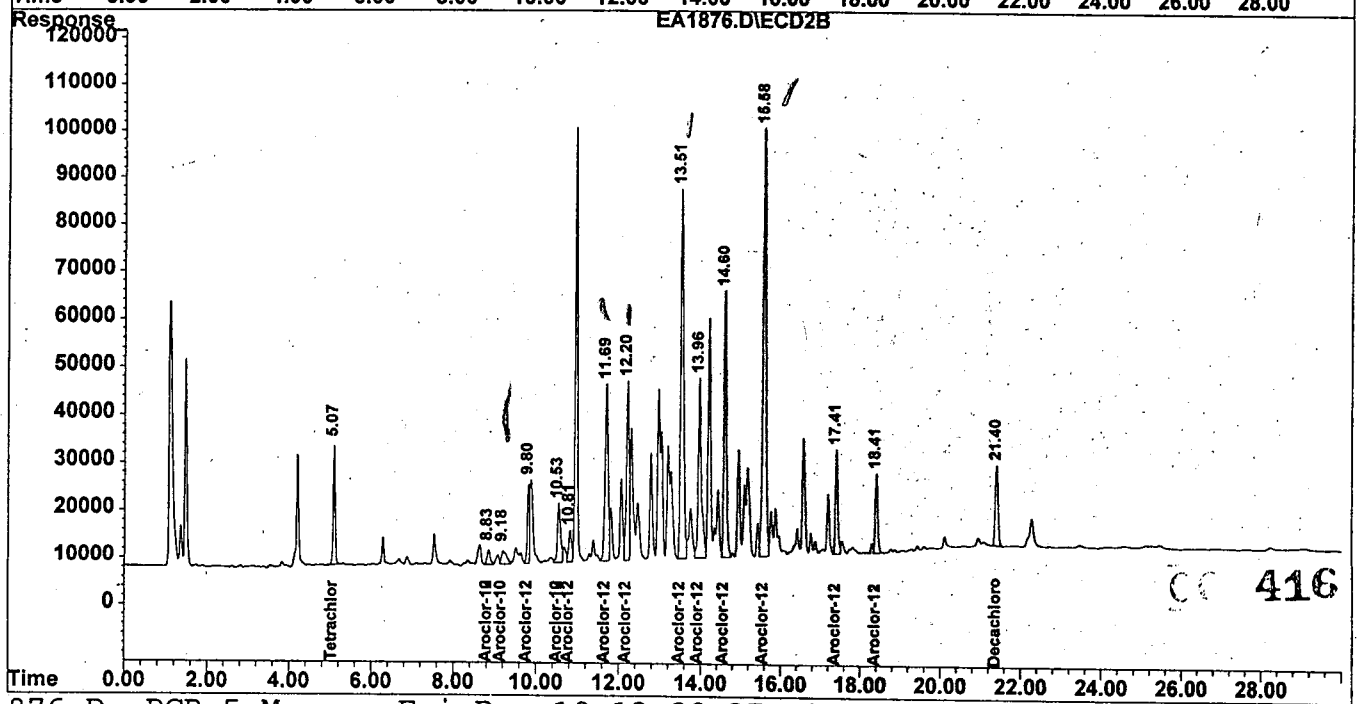
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1876.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_E\EA1876.D\ECD2B.CH
Acq On : 19 Dec 97 12:17 Operator:
Sample : 278459 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 13:19 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 416

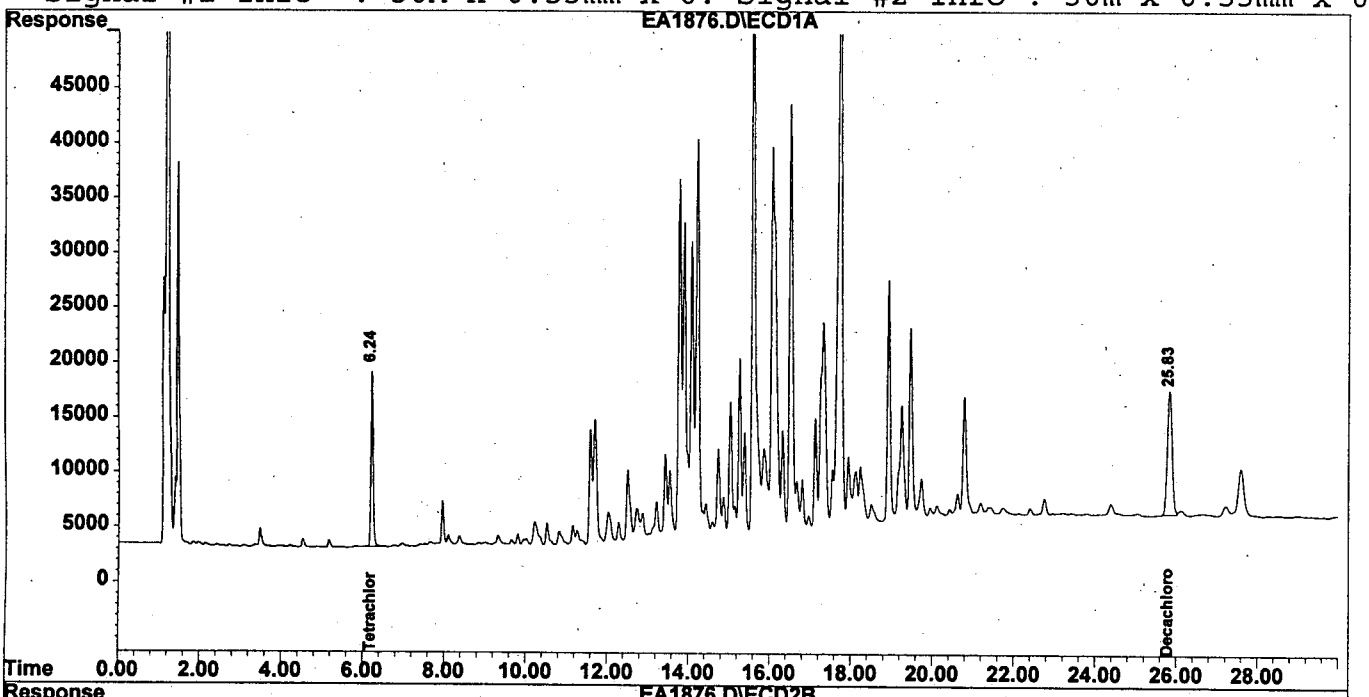
Quantitation Report

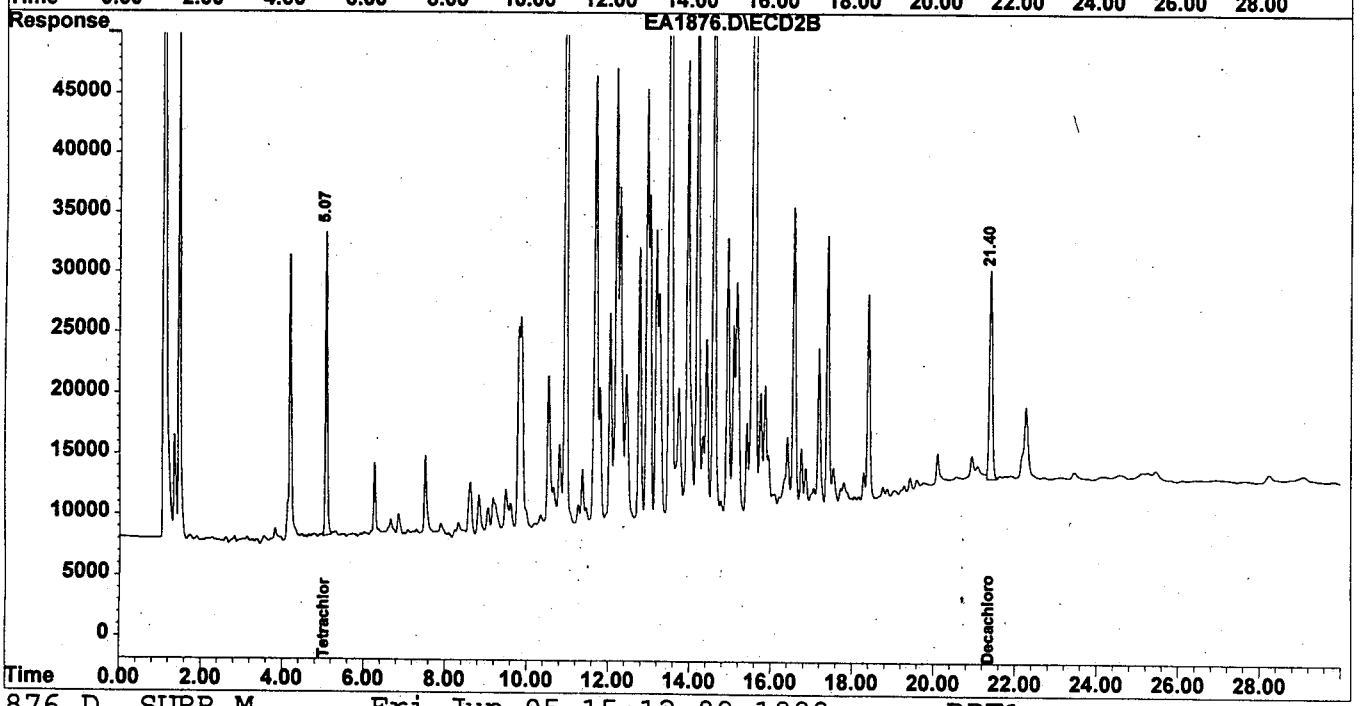
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1876.D\ECD1A.CH Vial: 21
Signal #2 : E:\WESTDA~1\EA1876.D\ECD2B.CH
Acq On : 19 Dec 97 12:17 Operator:
Sample : 278459 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:31 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278460
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVSS2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	42.46%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	58	29
Aroclor-1221	U	U	120	81
Aroclor-1232	U	U	58	46
Aroclor-1242	U	U	58	29
Aroclor-1248	U	U	58	35
Aroclor-1254	2400 J	U	58	40
Aroclor-1260	U	U	58	46

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.
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DAV

J 1250 : [illegible]

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1878.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_E\EA1878.D\ECD2B.CH
Acq On : 19 Dec 97 13:23 Operator:
Sample : 278460 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 14:28 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	6.23	5.07	606024	848309	44.050	42.654	
Spiked Amount 40.000 Range 43 - 150 Recovery =					110.13%	106.64%	
2) SA Decachlorobiphen	25.83	21.40	1058382	963725	45.489	44.350	
Spiked Amount 40.000 Range 24 - 154 Recovery =					113.72%	110.88%	
Target Compounds							
3) L1 Aroclor-1016{1}	8.11	0.00	66367	0	199.419	N.D.	#
4) L1 Aroclor-1016{2}	9.33	0.00	146490	0	216.070	N.D.	#
5) L1 Aroclor-1016{3}	10.53	8.83	156139	264423	122.269	142.483	
7) L1 Aroclor-1016{5}	12.52	10.53	489827	952524	750.332	1130.673	#
Sum Aroclor-1016			858823	1216947	1288.090	1273.155	
Average Aroclor-1016					322.022	636.578	
8) L2 Aroclor-1221{1}	0.00	6.02	0	11242	N.D.	41.166	#
11) L2 Aroclor-1221{4}	8.11	8.83	66367	264423	162.707	1925.205	#
Sum Aroclor-1221			66367	275664	162.707	1966.371	
Average Aroclor-1221					162.707	983.186	
12) L3 Aroclor-1232{1}	8.11	0.00	66367	0	229.014	N.D.	#
13) L3 Aroclor-1232{2}	9.33	0.00	146490	0	471.713	N.D.	#
14) L3 Aroclor-1232{3}	10.53	8.83	156139	264423	307.018	351.439	
15) L3 Aroclor-1232{4}	12.52	0.00	489827	0	1553.032	N.D.	#
16) L3 Aroclor-1232{5}	13.44	10.53	752519	952524	3317.398	2498.672	
Sum Aroclor-1232			1611342	1216947	5878.175	2850.111	
Average Aroclor-1232					1175.635	1425.055	
17) L4 Aroclor-1242{1}	8.11	0.00	66367	0	254.650	N.D.	#
18) L4 Aroclor-1242{2}	9.33	0.00	146490	0	272.492	N.D.	#
19) L4 Aroclor-1242{3}	10.53	8.83	156139	264423	160.633	189.580	
21) L4 Aroclor-1242{5}	12.52	10.53	489827	952524	878.977	1440.031	#
Sum Aroclor-1242			858823	1216947	1566.751	1629.611	
Average Aroclor-1242					391.688	814.805	
22) L5 Aroclor-1248{1}	9.33	0.00	146490	0	509.512	N.D.	#
23) L5 Aroclor-1248{2}	10.53	8.83	156139	264423	186.132	218.077	

JPZ 12/19/97

418

(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_E\EA1878.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_E\EA1878.D\ECD2B.CH
Acq On : 19 Dec 97 13:23 Operator:
Sample : 278460 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 14:28 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	
24) L5	Aroclor-1248{3}	12.52	10.53	489827	952524	644.052	1013.739	#
25) L5	Aroclor-1248{4}	13.44	10.80	752519	450571	1059.458	519.473	#
26) L5	Aroclor-1248{5}	15.59	13.50	5891616	7113575	17747.897	20099.203	
Sum	Aroclor-1248			7436591	8781093	20147.051	21850.493	
Average	Aroclor-1248					4029.410	5462.623	
						np	np	
27) L6	Aroclor-1254{1}	11.60	9.85	599689	2042609	1602.911	3313.853	#
28) L6	Aroclor-1254{2}	13.79	11.68	1977754	2967171	3332.877	2402.215	#
29) L6	Aroclor-1254{3}	15.59	12.20	5891616	2803313	4534.327	2836.722	#
30) L6	Aroclor-1254{4}	16.52	13.50	4334392	7113575	6940.138	5080.363	#
31) L6	Aroclor-1254{5}	17.73	15.58	8200946	9944772	6761.494	7239.488	>5000
Sum	Aroclor-1254			21004397	24871439	23171.747	20872.641	
Average	Aroclor-1254					4634.349	4174.528	
32) L7	Aroclor-1260{1}	16.11	13.95	2560886	3983759	2635.967m	3631.091	#
33) L7	Aroclor-1260{2}	16.52	14.59	4334392	5062435	3676.645	3477.160	
34) L7	Aroclor-1260{3}	18.93	15.58	2239984	9944772	2699.949	5240.096	#
35) L7	Aroclor-1260{4}	19.47	17.41	2076060	2107611	1083.192	945.196	
36) L7	Aroclor-1260{5}	20.79	18.41	1555488	1637584	995.427m	1005.389	
Sum	Aroclor-1260			12766810	22736160	11091.180	14298.932	
Average	Aroclor-1260					2218.236	2859.786	
						np	np	

419

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1878.D\ECD1A.CH Vial: 23
Signal #2 : E:\WESTDA~1\EA1878.D\ECD2B.CH
Acq On : 19 Dec 97 13:23 Operator:
Sample : 278460 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:32 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.07	606024	900109	42.608	41.571
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.52%	103.93%
2) SA Decachlorobiphen	25.83	21.40	1018907	942534	43.321m	41.314m
Spiked Amount 40.000 Range 24 - 154 Recovery =					108.30%	103.29%
Target Compounds						

419A

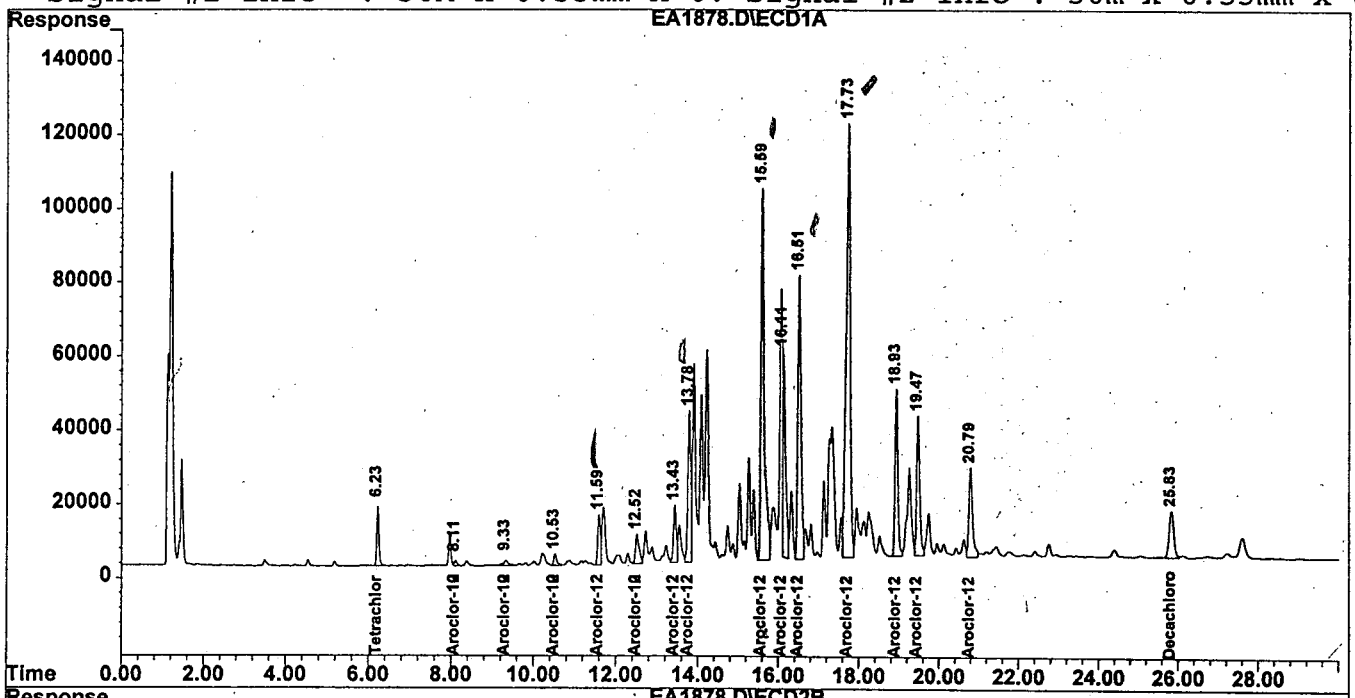
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

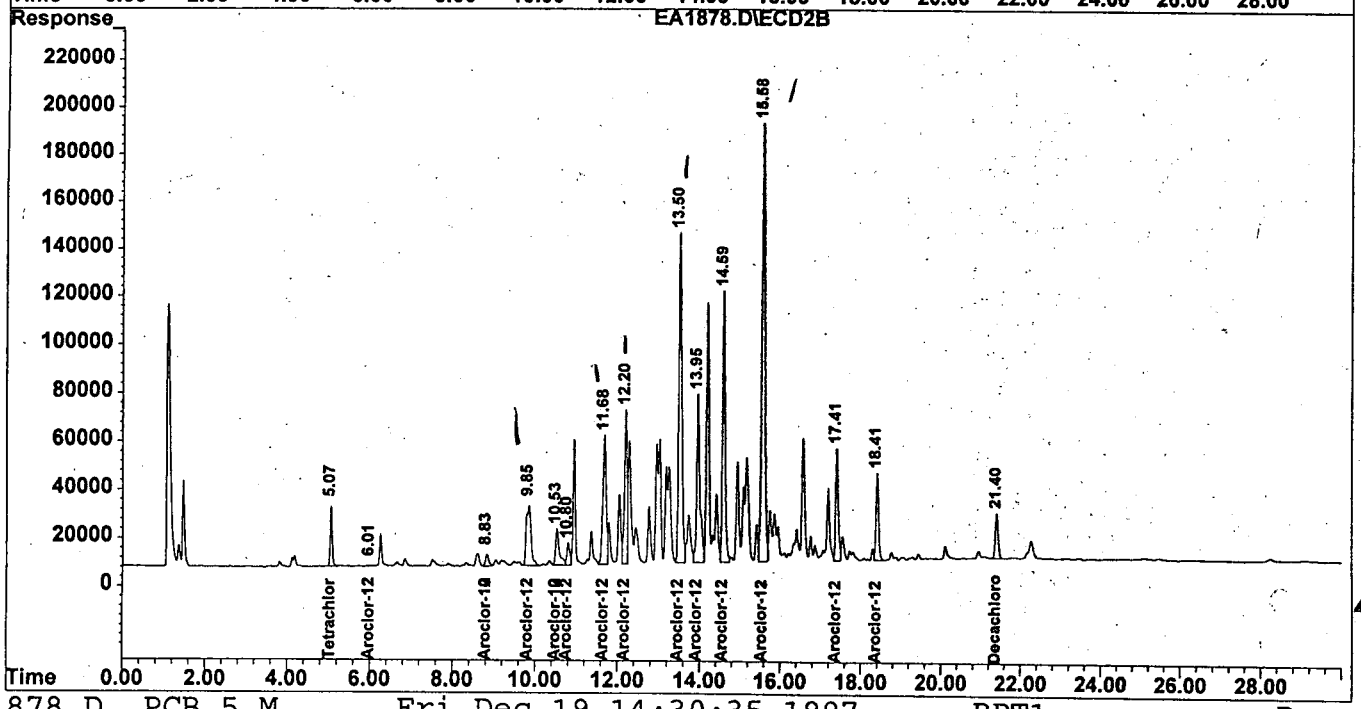
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1878.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA_E\EA1878.D\ECD2B.CH
Acq On : 19 Dec 97 13:23 Operator:
Sample : 278460 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 14:28 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





420

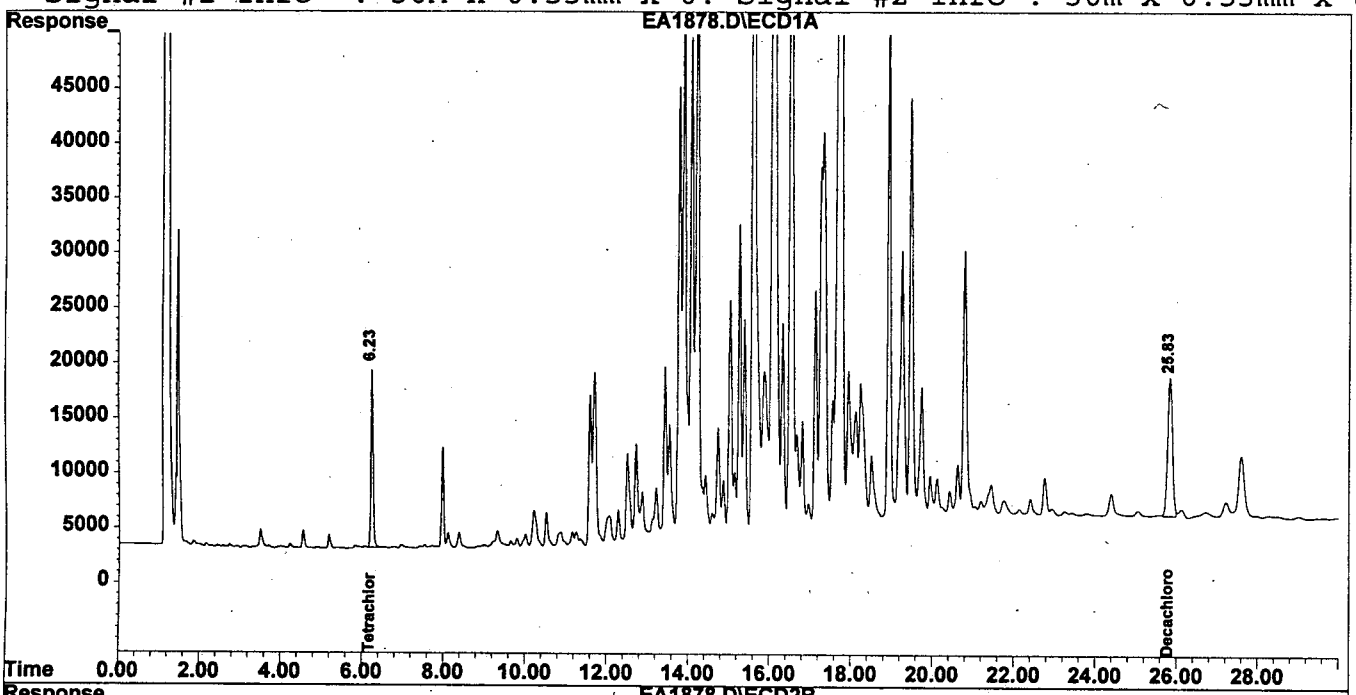
Quantitation Report

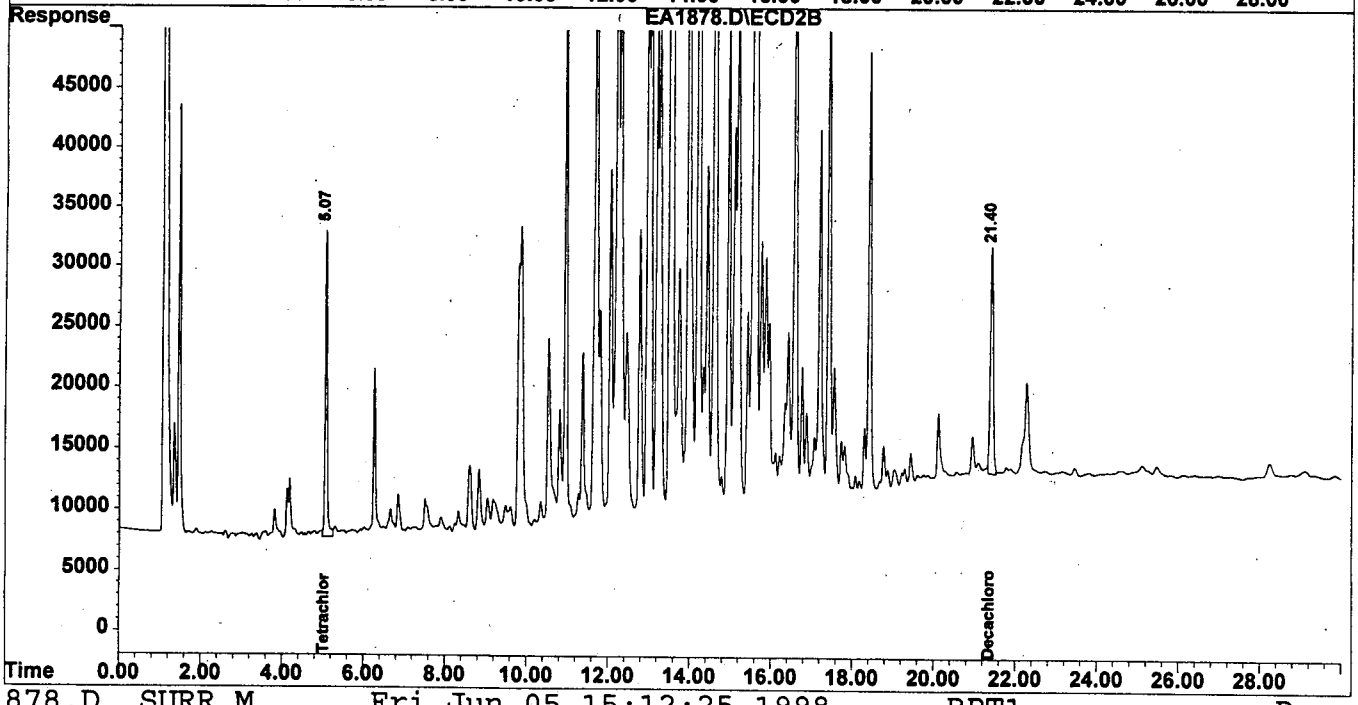
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1878.D\ECD1A.CH Vial: 23
Signal #2 : E:\WESTDA~1\EA1878.D\ECD2B.CH
Acq On : 19 Dec 97 13:23 Operator:
Sample : 278460 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:32 1998 Quant Results File: SURR.RES

Quant Method : H:\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





42 0A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278461
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVSD2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	61.67%

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	87	43
Aroclor-1221	U	U	170	120
Aroclor-1232	U	U	87	70
Aroclor-1242	U	U	87	43
Aroclor-1248	U	U	87	52
Aroclor-1254	U	U	87	61
Aroclor-1260	U	U	87	70

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1879.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_E\EA1879.D\ECD2B.CH
Acq On : 19 Dec 97 13:57 Operator:
Sample : 278461 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 14:26 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	6.24	5.07	590695	900749	42.935	45.290
Spiked Amount 40.000 Range 43 - 150 Recovery =					107.34%	113.23%
2) SA Decachlorobiphen	25.84	21.41	910138	813583	39.117	37.441
Spiked Amount 40.000 Range 24 - 154 Recovery =					97.79%	93.60%
Target Compounds						
5) L1 Aroclor-1016{3}	0.00	8.89	0	118052	N.D.	63.612 #
6) L1 Aroclor-1016{4}	0.00	9.22	0	85428	N.D.	101.287 #
7) L1 Aroclor-1016{5}	0.00	10.58	0	158457	N.D.	188.093 #
Sum Aroclor-1016			0	361938	N.D.	352.991
Average Aroclor-1016					0.000	117.664
						~0
8) L2 Aroclor-1221{1}	0.00	6.02	0	13147	N.D.	48.142 #
11) L2 Aroclor-1221{4}	0.00	8.89	0	118052	N.D.	859.513 #
Sum Aroclor-1221			0	131199	N.D.	907.654
Average Aroclor-1221					0.000	453.827
						~0
14) L3 Aroclor-1232{3}	0.00	8.89	0	118052	N.D.	156.901 #
15) L3 Aroclor-1232{4}	0.00	9.22	0	85428	N.D.	253.225 #
16) L3 Aroclor-1232{5}	0.00	10.58	0	158457	N.D.	415.666 #
Sum Aroclor-1232			0	361938	N.D.	825.792
Average Aroclor-1232					0.000	275.264
						~0
19) L4 Aroclor-1242{3}	0.00	8.89	0	118052	N.D.	84.638 #
20) L4 Aroclor-1242{4}	0.00	9.22	0	85428	N.D.	139.610 #
21) L4 Aroclor-1242{5}	0.00	10.58	0	158457	N.D.	239.556 #
Sum Aroclor-1242			0	361938	N.D.	463.804
Average Aroclor-1242					0.000	154.601
						~0
23) L5 Aroclor-1248{2}	0.00	8.89	0	118052	N.D.	97.361 #
24) L5 Aroclor-1248{3}	0.00	10.58	0	158457	N.D.	168.640 #
26) L5 Aroclor-1248{5}	0.00	13.51	0	93914	N.D.	265.352 #
Sum Aroclor-1248			0	370424	N.D.	531.354
Average Aroclor-1248					0.000	177.118
						~0

422

(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_E\EA1879.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_E\EA1879.D\ECD2B.CH
Acq On : 19 Dec 97 13:57 Operator:
Sample : 278461 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 14:26 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
30) L6 Aroclor-1254{4}	0.00	13.51	0	93914	N.D.	67.072 #
Sum Aroclor-1254			0	93914	N.D.	67.072
Average Aroclor-1254					0.000	67.072
32) L7 Aroclor-1260{1}	0.00	13.95	0	79933	N.D.	72.857 #
33) L7 Aroclor-1260{2}	0.00	14.62	0	23957	N.D.	16.455 #
Sum Aroclor-1260			0	103890	N.D.	89.312
Average Aroclor-1260					0.000	44.656

423

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

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1879.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\EA1879.D\ECD2B.CH
Acq On : 19 Dec 97 13:57 Operator:
Sample : 278461 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:32 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.24	5.07	590695	825397	41.530	38.121m
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.83%	95.30%
2) SA Decachlorobiphen	25.84	21.41	914697	813870	38.890m	35.675m
Spiked Amount 40.000 Range 24 - 154 Recovery =					97.23%	89.19%

Target Compounds

423A

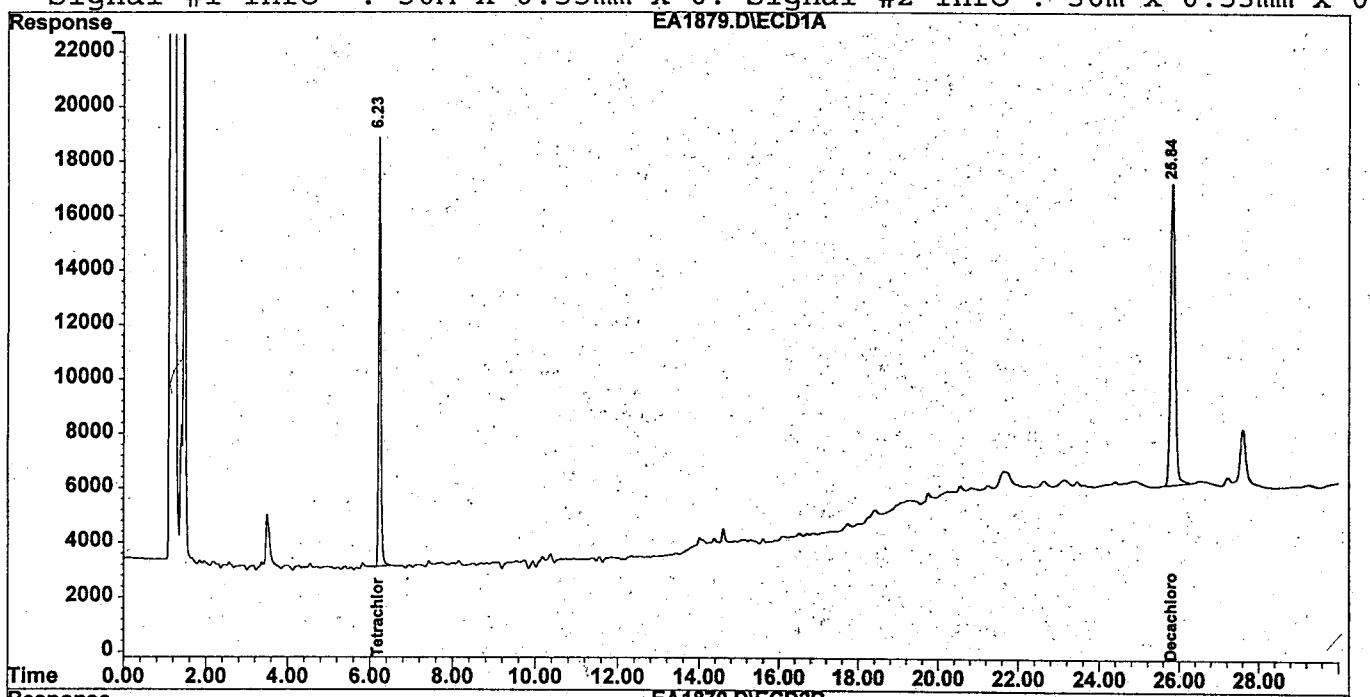
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

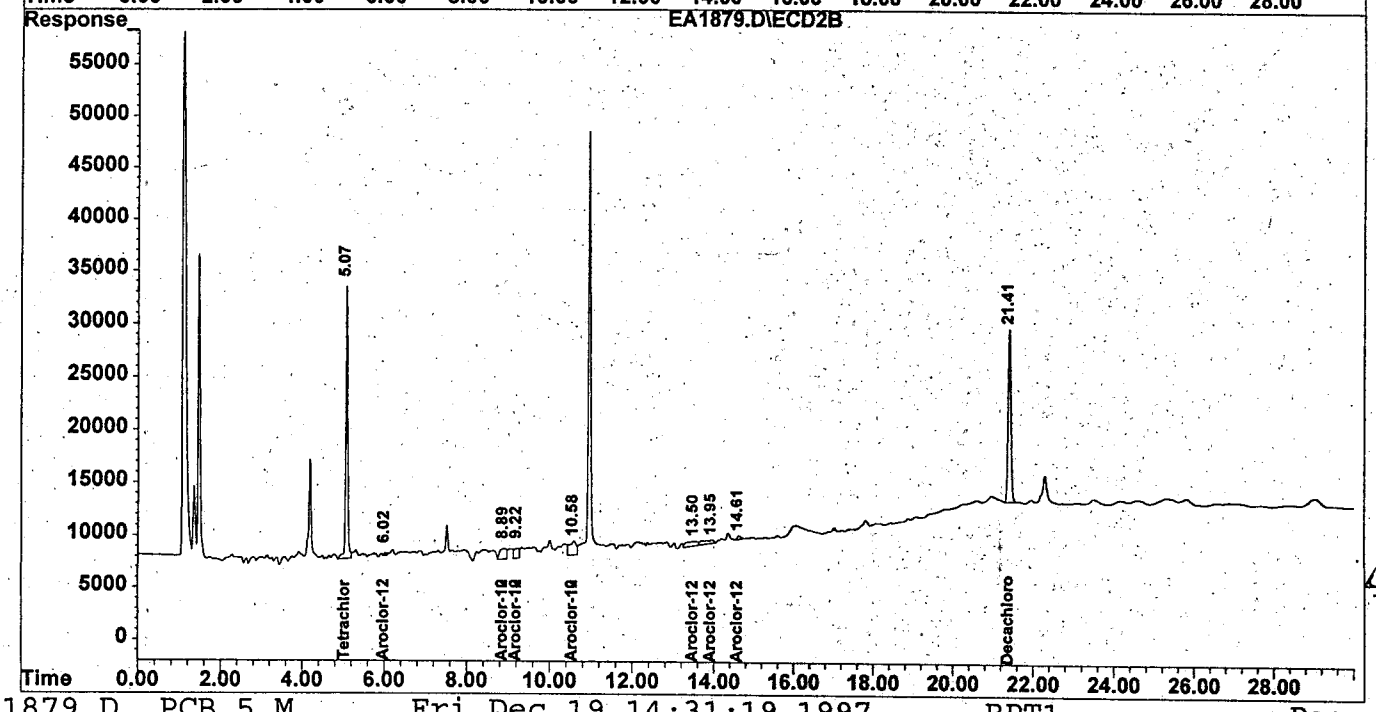
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1879.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA_E\EA1879.D\ECD2B.CH
Acq On : 19 Dec 97 13:57 Operator:
Sample : 278461 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 14:26 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





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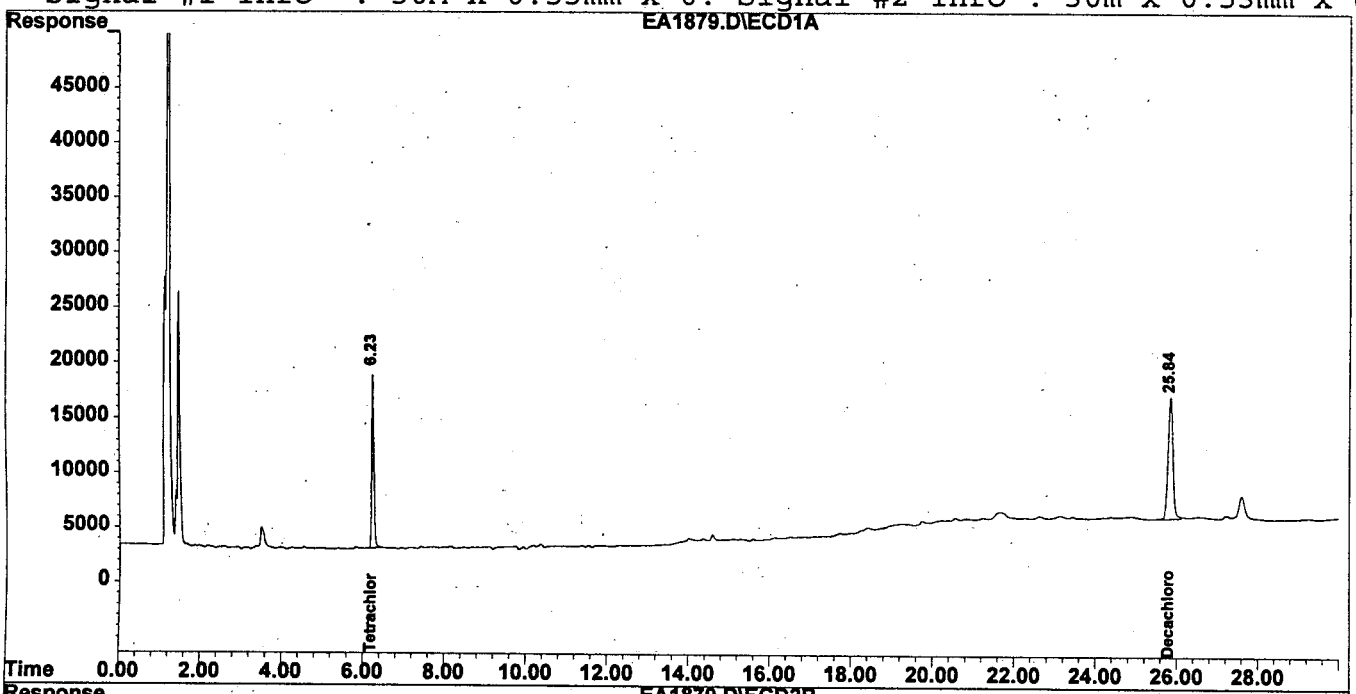
Quantitation Report

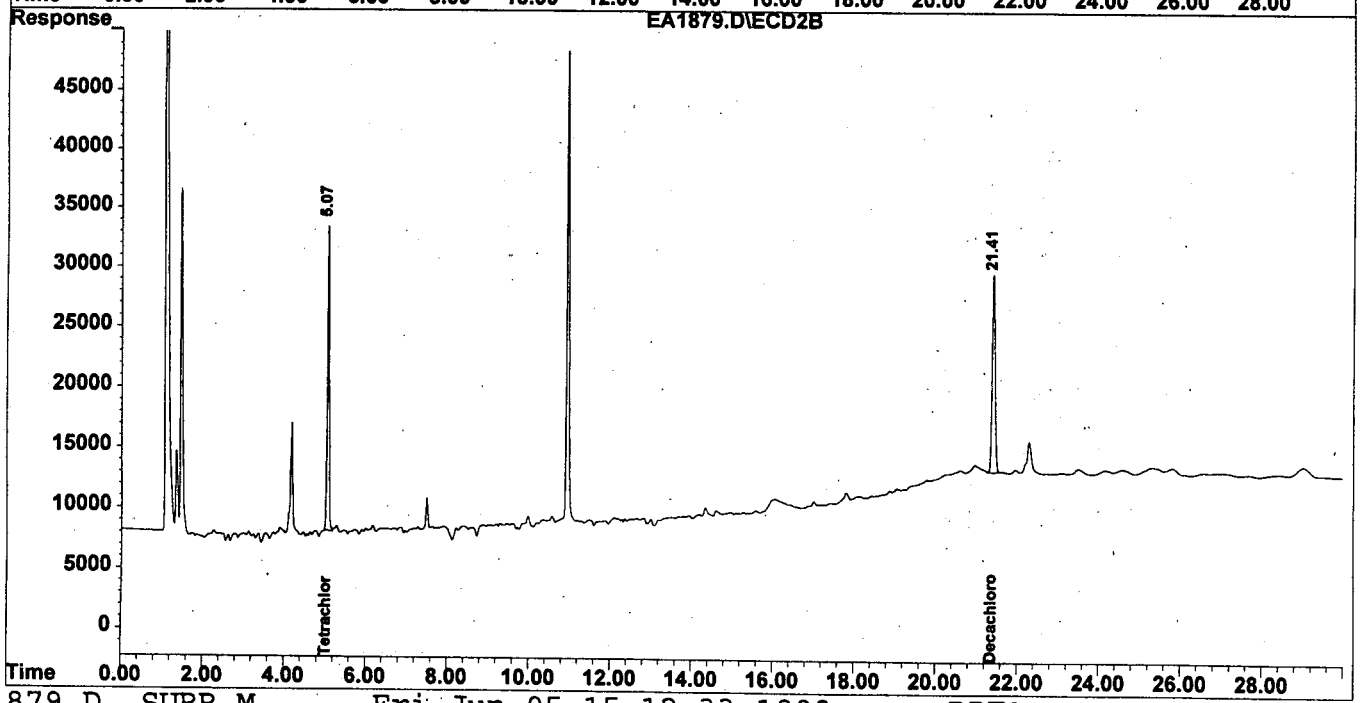
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1879.D\ECD1A.CH Vial: 24
Signal #2 : E:\WESTDA~1\EA1879.D\ECD2B.CH
Acq On : 19 Dec 97 13:57 Operator:
Sample : 278461 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:32 1998 Quant Results File: SURR.RES

Quant Method : H:\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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278462
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: VVVVNS3
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7408	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	47.47%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	63	32
Aroclor-1221	U	U	130	89
Aroclor-1232	U	U	63	51
Aroclor-1242	U	U	63	32
Aroclor-1248	U	U	63	38
Aroclor-1254	1400	U	63	44
Aroclor-1260	U	U	63	51

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.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_E\EA1880.D\ECD1A.CH Vial: 25
Signal #2 : F:\1\DATA_E\EA1880.D\ECD2B.CH
Acq On : 19 Dec 97 14:31 Operator:
Sample : 278462 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:47 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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	6.23	5.06	611317	849594	44.434	42.718	
Spiked Amount 40.000 Range 43 - 150 Recovery =					111.09%	106.80%	
2) SA Decachlorobiphen	25.83	21.40	948894	807714	40.783	37.171	
Spiked Amount 40.000 Range 24 - 154 Recovery =					101.96%	92.93%	
Target Compounds							
3) L1 Aroclor-1016{1}	8.10	0.00	38601	0	115.989	N.D.	#
4) L1 Aroclor-1016{2}	9.33	0.00	67250	0	99.191	N.D.	#
5) L1 Aroclor-1016{3}	10.53	8.83	124621	179315	97.588	96.623	
6) L1 Aroclor-1016{4}	0.00	9.29	0	65943	N.D.	78.184	#
7) L1 Aroclor-1016{5}	12.51	10.53	372987	622490	571.354	738.913	#
Sum Aroclor-1016			603459	867747	884.122	913.719	
Average Aroclor-1016					221.030	304.573	
					NP	NP	
11) L2 Aroclor-1221{4}	8.10	8.83	38601	179315	94.636	1305.551	#
Sum Aroclor-1221			38601	179315	94.636	1305.551	
Average Aroclor-1221					94.636	1305.551	
					NP	NP	
12) L3 Aroclor-1232{1}	8.10	0.00	38601	0	133.202	N.D.	#
13) L3 Aroclor-1232{2}	9.33	0.00	67250	0	216.550	N.D.	#
14) L3 Aroclor-1232{3}	10.53	8.83	124621	179315	245.043	238.323	
15) L3 Aroclor-1232{4}	12.51	9.29	372987	65943	1182.584	195.467	#
16) L3 Aroclor-1232{5}	13.43	10.53	439223	622490	1936.267	1632.922	
Sum Aroclor-1232			1042682	867747	3713.646	2066.712	
Average Aroclor-1232					742.729	688.904	
					NP	NP	
17) L4 Aroclor-1242{1}	8.10	0.00	38601	0	148.113	N.D.	#
18) L4 Aroclor-1242{2}	9.33	0.00	67250	0	125.093	N.D.	#
19) L4 Aroclor-1242{3}	10.53	8.83	124621	179315	128.207	128.561	
20) L4 Aroclor-1242{4}	0.00	9.29	0	65943	N.D.	107.766	#
21) L4 Aroclor-1242{5}	12.51	10.53	372987	622490	669.313	941.083	#
Sum Aroclor-1242			603459	867747	1070.726	1177.410	
Average Aroclor-1242					267.682	392.470	
					NP	NP	
22) L5 Aroclor-1248{1}	9.33	0.00	67250	0	233.902	N.D.	#
					NP	NP	

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

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : F:\1\DATA_E\EA1880.D\ECD1A.CH Vial: 25
Signal #2 : F:\1\DATA_E\EA1880.D\ECD2B.CH
Acq On : 19 Dec 97 14:31 Operator:
Sample : 278462 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:47 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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
23) L5	Aroclor-1248{2}	10.53	8.83	124621	179315	148.560	147.886
2[illegible]) L5	Aroclor-1248{3}	12.51	10.53	372987	622490	490.425	662.495 #
2[illegible]) L5	Aroclor-1248{4}	13.54	10.80	366786	341920	516.391	394.207
26) L5	Aroclor-1248{5}	15.59	13.50	3539297	4389507	10661.774	12402.426
Sum	Aroclor-1248			4470941	5533231	12051.052	13607.015
Average	Aroclor-1248					2410.210	3401.754
						np	np
27) L6	Aroclor-1254{1}	11.59	9.80	429446	488822	1147.867	793.046 #
2[illegible]) L6	Aroclor-1254{2}	13.78	11.68	2463156	2176089	4150.869	1761.757 #
29) L6	Aroclor-1254{3}	15.59	12.20	3539297	1760101	2723.927	1781.077 #
30) L6	Aroclor-1254{4}	16.51	13.50	2393516	4389507	3832.449	3134.892
3[illegible]) L6	Aroclor-1254{5}	17.73	15.58	4136887	5262065	3410.769	3830.622
Sum	Aroclor-1254			12962303	14076583	15265.881	11301.393
Average	Aroclor-1254					3053.176	2260.279
3[illegible]) L7	Aroclor-1260{1}	16.12	13.95	1625324	2231203	1672.976m	2033.683
33) L7	Aroclor-1260{2}	16.51	14.59	2393516	2617141	2030.299	1797.597
34) L7	Aroclor-1260{3}	18.92	15.58	1110106	5262065	1338.059	2772.686 #
3[illegible]) L7	Aroclor-1260{4}	19.46	17.40	1027573	1019542	536.140	457.232
3[illegible]) L7	Aroclor-1260{5}	20.78	18.40	845538	838446	541.098m	514.761m
Sum	Aroclor-1260			7002058	11968397	6118.571	7575.959
Average	Aroclor-1260					1223.714	1515.192
						np	np

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TOZ 12/22/97

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

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1880.D\ECD1A.CH Vial: 25
Signal #2 : E:\WESTDA~1\EA1880.D\ECD2B.CH
Acq On : 19 Dec 97 14:31 Operator:
Sample : 278462 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:33 1998 Quant Results File: SURR.RES

Quant Method : H:\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	6.23	5.06	611317	886069	42.980	40.923
Spiked Amount 40.000 Range 43 - 150 Recovery =					107.45%	102.31%
2) SA Decachlorobiphen	25.82	21.40	908152	877342	38.612m	38.457
Spiked Amount 40.000 Range 24 - 154 Recovery =					96.53%	96.14%
Target Compounds						

427A

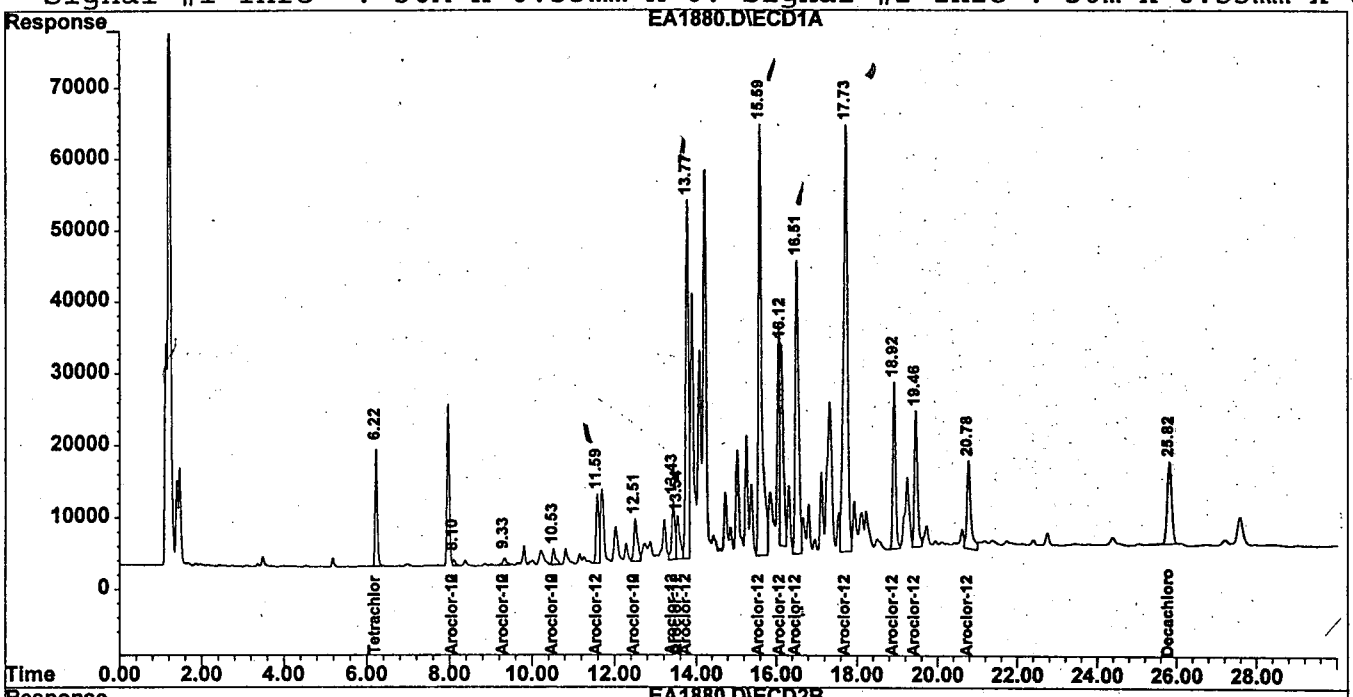
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

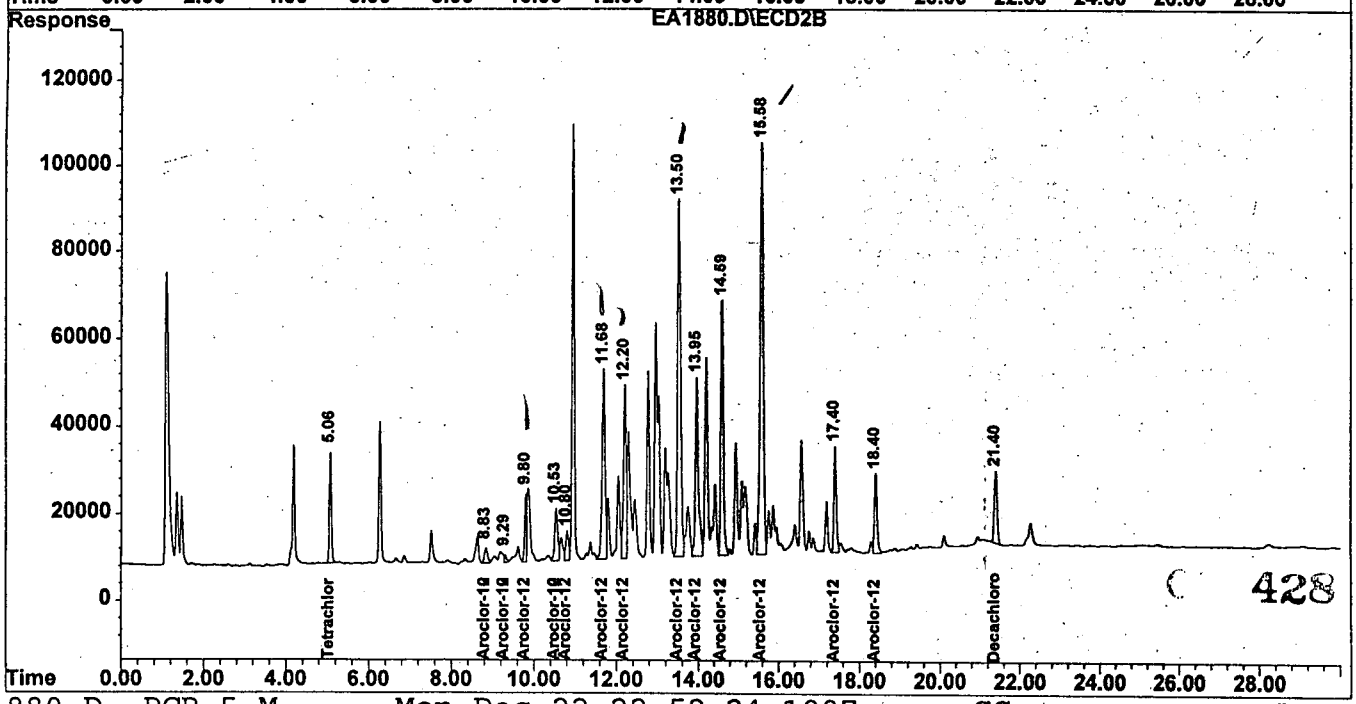
Quantitation Report

Signal #1 : F:\1\DATA_E\EA1880.D\ECD1A.CH Vial: 25
Signal #2 : F:\1\DATA_E\EA1880.D\ECD2B.CH
Acq On : 19 Dec 97 14:31 Operator:
Sample : 278462 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 22 22:47 1997 Quant Results File: PCB_5.RES

Quant Method : I:\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





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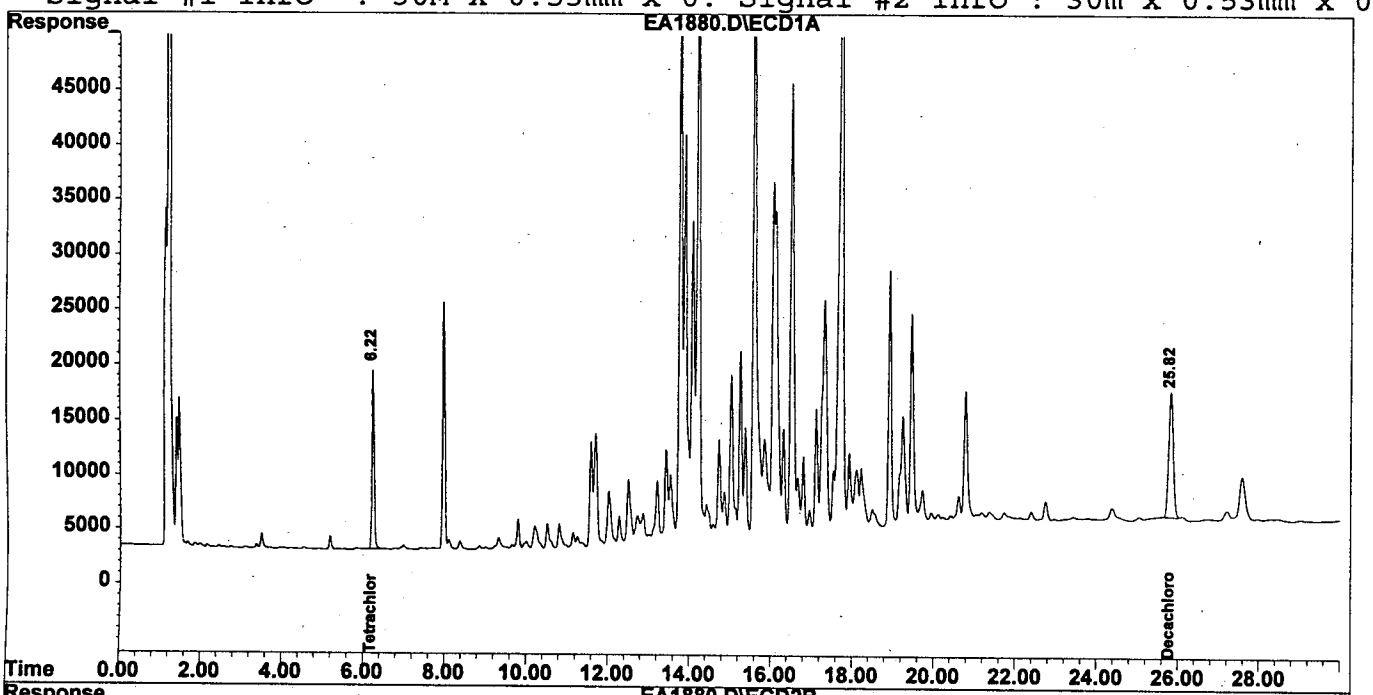
Quantitation Report

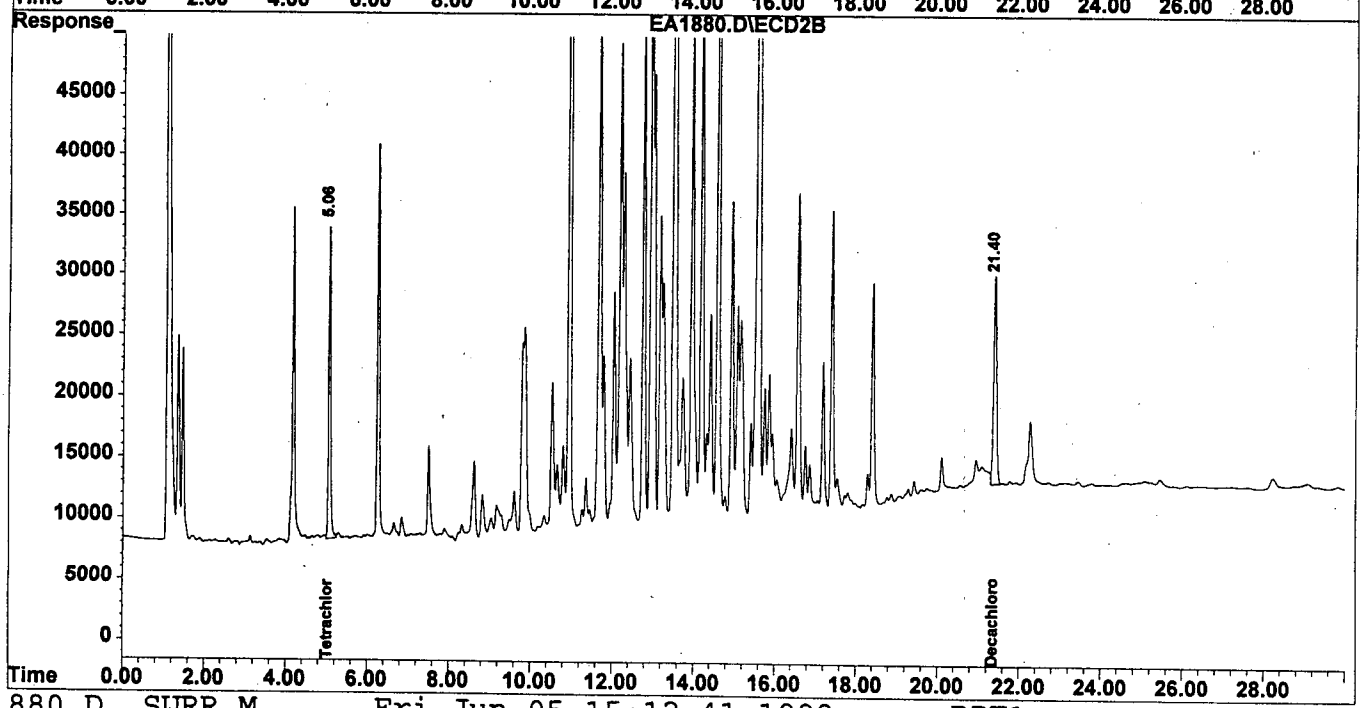
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1880.D\ECD1A.CH Vial: 25
Signal #2 : E:\WESTDA~1\EA1880.D\ECD2B.CH
Acq On : 19 Dec 97 14:31 Operator:
Sample : 278462 Inst : GC_5890_5
Misc : QPC7408 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 14:33 1998 Quant Results File: SURR.RES

Quant Method : H:\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





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: 278463
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: RB2
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
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.

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Thomas Mancuso, Lab Mgr.
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NEE

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1770.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_E\EA1770.D\ECD2B.CH
Acq On : 14 Dec 97 2:28 Operator:
Sample : 278463 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	558096	814537	40.566	40.956
Spiked Amount 40.000 Range 43 - 150 Recovery =					101.42%	102.39%
2) SA Decachlorobiphen	25.90	21.44	270208	250092	11.613	11.509
Spiked Amount 40.000 Range 24 - 154 Recovery =					29.03%	28.77%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
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
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

430

12/15/97

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

AMENDED REPORT JUN 0 8 1998

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : E:\WESTDA~1\EA1770.D\ECD1A.CH Vial: 17
Signal #2 : E:\WESTDA~1\EA1770.D\ECD2B.CH
Acq On : 14 Dec 97 2:28 Operator:
Sample : 278463 Inst : GC_5890_5
Misc : QPC7403 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:49 1998 Quant Results File: SURR.RES

Quant Method : H:\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	558042	810666	39.235	37.440
Spiked Amount 40.000 Range 43 - 150 Recovery =					98.09%	93.60%
2) SA Decachlorobiphen	25.90	21.44	272194	309049	11.573	13.547
Spiked Amount 40.000 Range 24 - 154 Recovery =					28.93%	33.87%

Target Compounds

430A

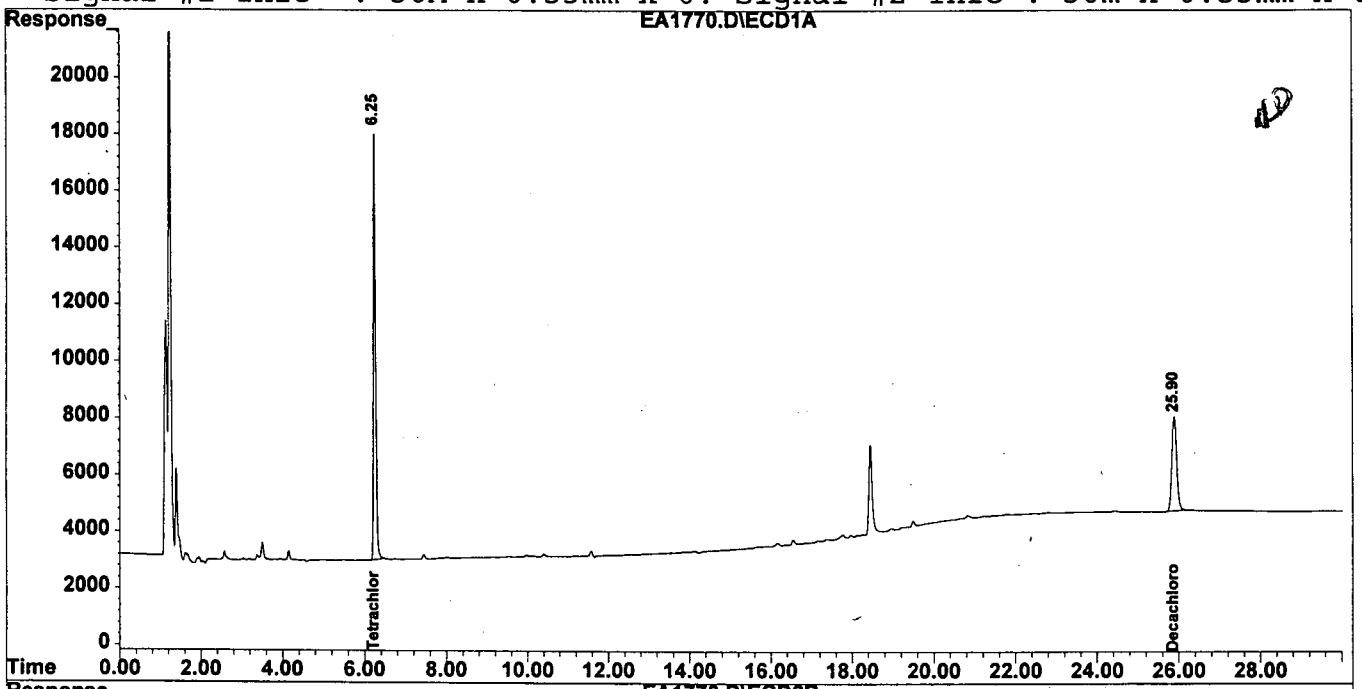
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

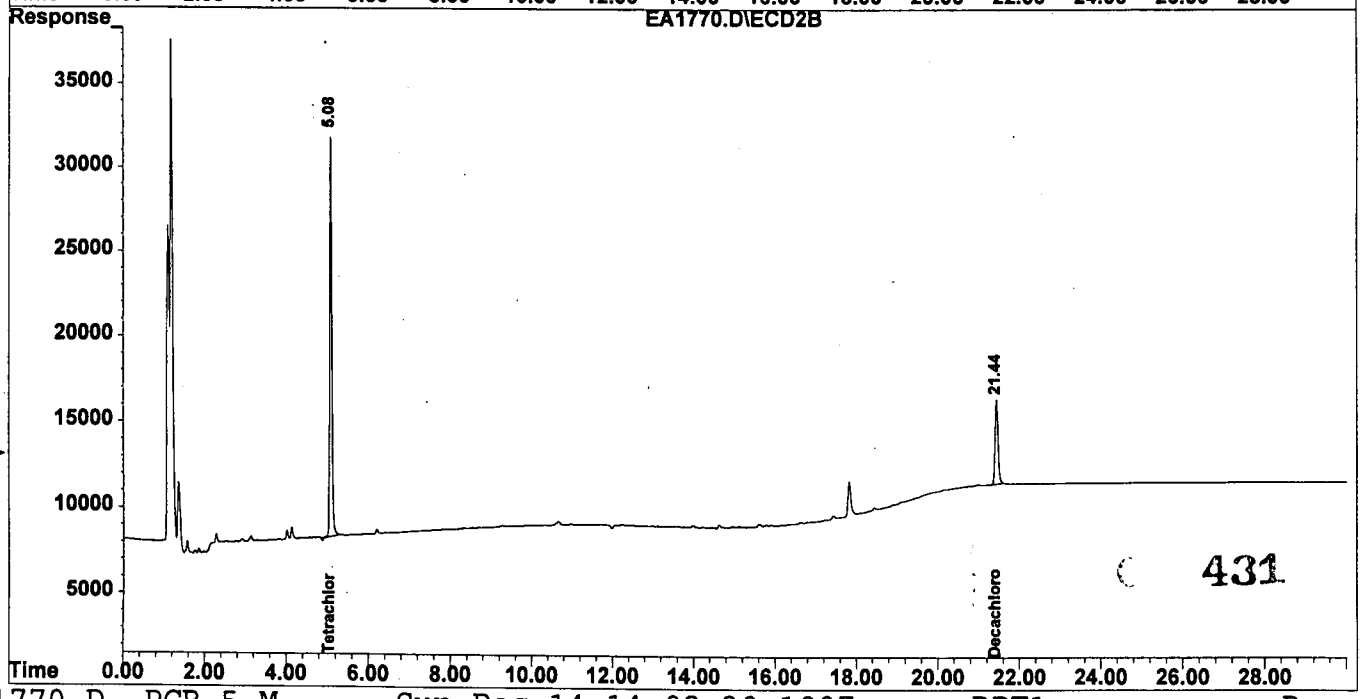
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1770.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_E\EA1770.D\ECD2B.CH
Acq On : 14 Dec 97 2:28 Operator:
Sample : 278463 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





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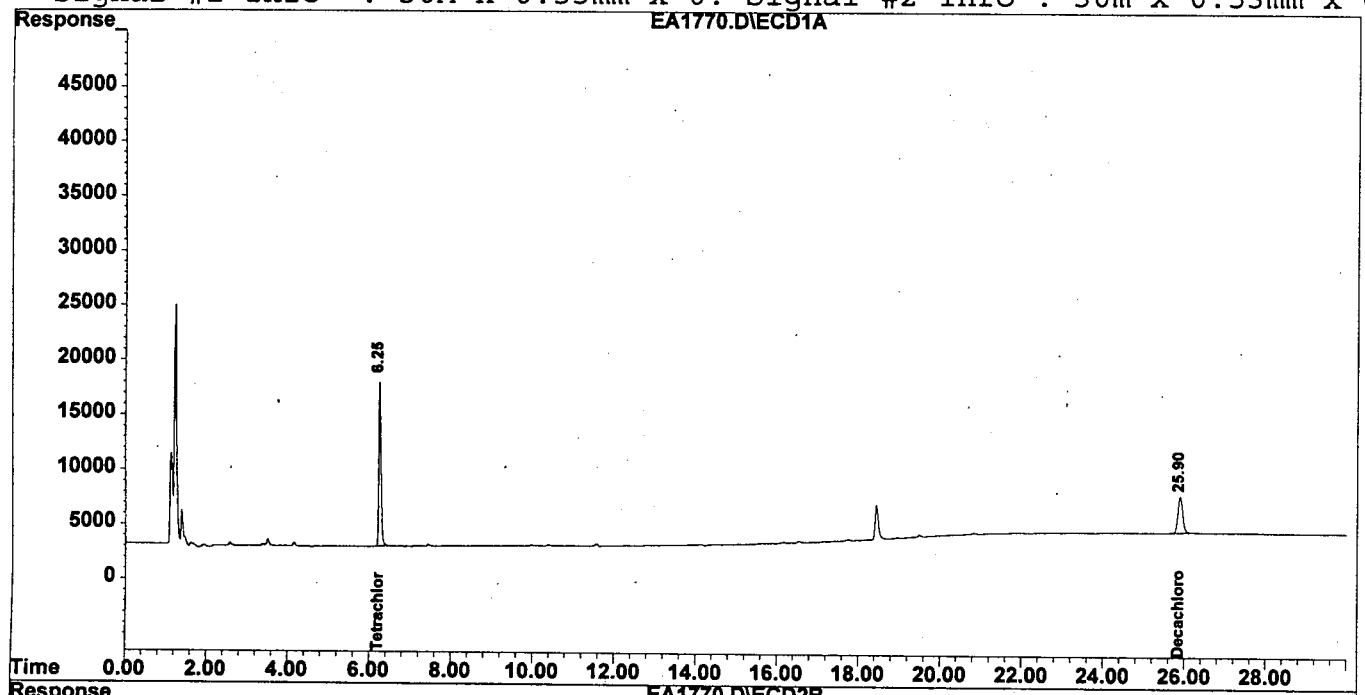
AMENDED REPORT JUN 0 8 1998

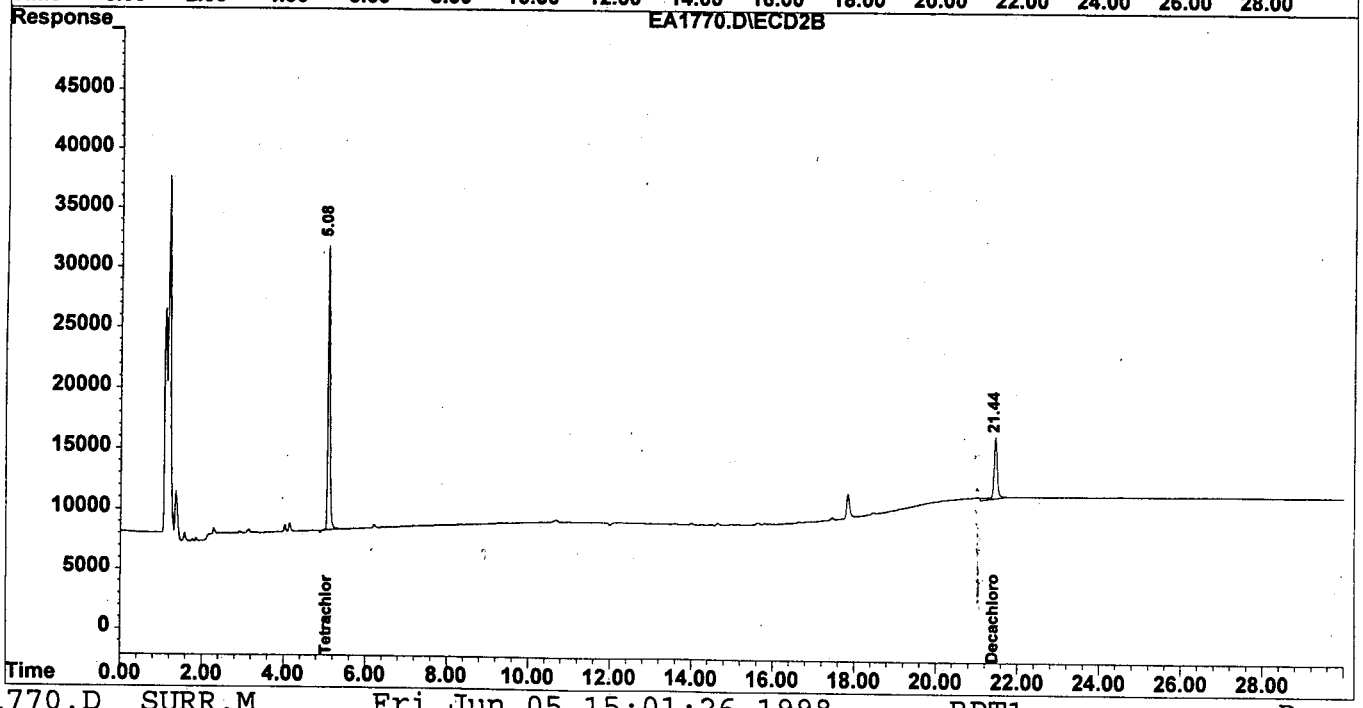
Quantitation Report

Signal #1 : E:\WESTDA~1\EA1770.D\ECD1A.CH Vial: 17
Signal #2 : E:\WESTDA~1\EA1770.D\ECD2B.CH
Acq On : 14 Dec 97 2:28 Operator:
Sample : 278463 Inst : GC_5890_5
Misc : QPC7403 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:49 1998 Quant Results File: SURR.RES

Quant Method : H:\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





431A

AMENDED REPORT JUN 0 5 1998

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
JUNE 4, 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: 278464
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: MMMMSED(S)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7404	Column used:	DB 1701/DB 608
Extraction date:	12/17/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	20.26%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	42	21
Aroclor-1221	U	U	84	58
Aroclor-1232	U	U	42	33
Aroclor-1242	U	U	42	21
Aroclor-1248	U	U	42	25
Aroclor-1254	~~48~~ 59	U	42	29
Aroclor-1260	U	U	42	33

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.

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Thomas Mancuso, Lab Mgr.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA1044.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_B\BA1044.D\ECD2B.CH
Acq On : 19 Dec 97 3:09 Operator:
Sample : 278464 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:49 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	7.21	5.94	379969	255552	41.943	39.455
Spiked Amount 40.000 Range 43 - 150 Recovery =					104.86%	98.64%
2) SA Decachlorobiphen	29.17	24.46	561214	377949	37.293	42.381
Spiked Amount 40.000 Range 24 - 154 Recovery =					93.23%	105.95%
Target Compounds						
6) L1 Aroclor-1016{4}	0.00	12.17	0	20467	N.D.	79.780 #
7) L1 Aroclor-1016{5}	13.24	14.02	45859	34613	140.444	234.696 #
Sum Aroclor-1016			45859	55080	140.444	314.476
Average Aroclor-1016					140.444	157.238
					no	no
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
13) L3 Aroclor-1232{3}	0.00	11.40	0	55145	N.D.	661.998 #
Sum Aroclor-1232			0	55145	N.D.	661.998
Average Aroclor-1232					0.000	661.998
						no
18) L4 Aroclor-1242{4}	0.00	12.33	0	6354	N.D.	27.459 #
19) L4 Aroclor-1242{5}	14.13	14.30	18885	19233	51.969	215.191 #
Sum Aroclor-1242			18885	25587	51.969	242.650
Average Aroclor-1242					51.969	121.325
					no	no
21) L5 Aroclor-1248{2}	0.00	12.17	0	20467	N.D.	60.395 #
22) L5 Aroclor-1248{3}	13.24	12.47	45859	11257	110.954	35.563 #
23) L5 Aroclor-1248{4}	14.13	13.46	18885	48034	38.049	178.513 #
24) L5 Aroclor-1248{5}	0.00	15.47	0	71233	N.D.	565.553 #
Sum Aroclor-1248			64744	150990	149.002	840.023
Average Aroclor-1248					74.501	210.006
					no	no
25) L6 Aroclor-1254{1}	14.13	11.35	18885	24328	139.133	110.347m
26) L6 Aroclor-1254{2}	15.51	13.46	52806	48034	143.229	114.701
27) L6 Aroclor-1254{3}	15.83	14.87	49673	25973	107.788	173.747 #
28) L6 Aroclor-1254{4}	18.46	15.47	47005	71233	115.978	146.590 #
29) L6 Aroclor-1254{5}	19.78	17.76	85482	123088	99.052	270.858m#

433

(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\BA1044.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_B\BA1044.D\ECD2B.CH
Acq On : 19 Dec 97 3:09 Operator:
Sample : 278464 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:49 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
Sum	Aroclor-1254			253851	292656	605.180	816.243
Average	Aroclor-1254					121.036	163.249
30) L7	Aroclor-1260{1}	18.04	15.96	39750	31978	76.377	93.826
31) L7	Aroclor-1260{2}	18.46	16.67	47005	33164	76.363	81.574
32) L7	Aroclor-1260{3}	0.00	17.76	0	189544	N.D.	367.517 #
33) L7	Aroclor-1260{4}	21.07	19.77	21761	9340	46.703	14.917 #
34) L7	Aroclor-1260{5}	0.00	20.88	0	8300	N.D.	17.572 #
Sum	Aroclor-1260			108516	272326	199.443	575.405
Average	Aroclor-1260					66.481	115.081

434

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1044.D\ECD1A.CH Vial: 17
Signal #2 : E:\WESTDA~1\BA1044.D\ECD2B.CH
Acq On : 19 Dec 97 3:09 Operator:
Sample : 278464 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 15:45 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	7.21	5.94	378444	252645	40.681	41.810
Spiked Amount 40.000 Range 43 - 150 Recovery =					101.70%	104.53%
2) SA Decachlorobiphen	29.17	24.46	560004	355291	37.081	42.767
Spiked Amount 40.000 Range 24 - 154 Recovery =					92.70%	106.92%
Target Compounds						
3) L6 Aroclor-1254{1}	14.13	11.35	18864	24680	139.024m	111.079m
4) L6 Aroclor-1254{2}	15.51	13.46	51824	37725	135.105	90.013 #
5) L6 Aroclor-1254{3}	15.83	14.87	49238	17679	93.544	117.912 #
6) L6 Aroclor-1254{4}	18.46	15.47	46432	66933	108.288	134.582
7) L6 Aroclor-1254{5}	19.78	17.76	87774	123530	101.071	257.800 #
Sum Aroclor-1254			254132	270546	577.033	711.385
Average Aroclor-1254					115.407	142.277

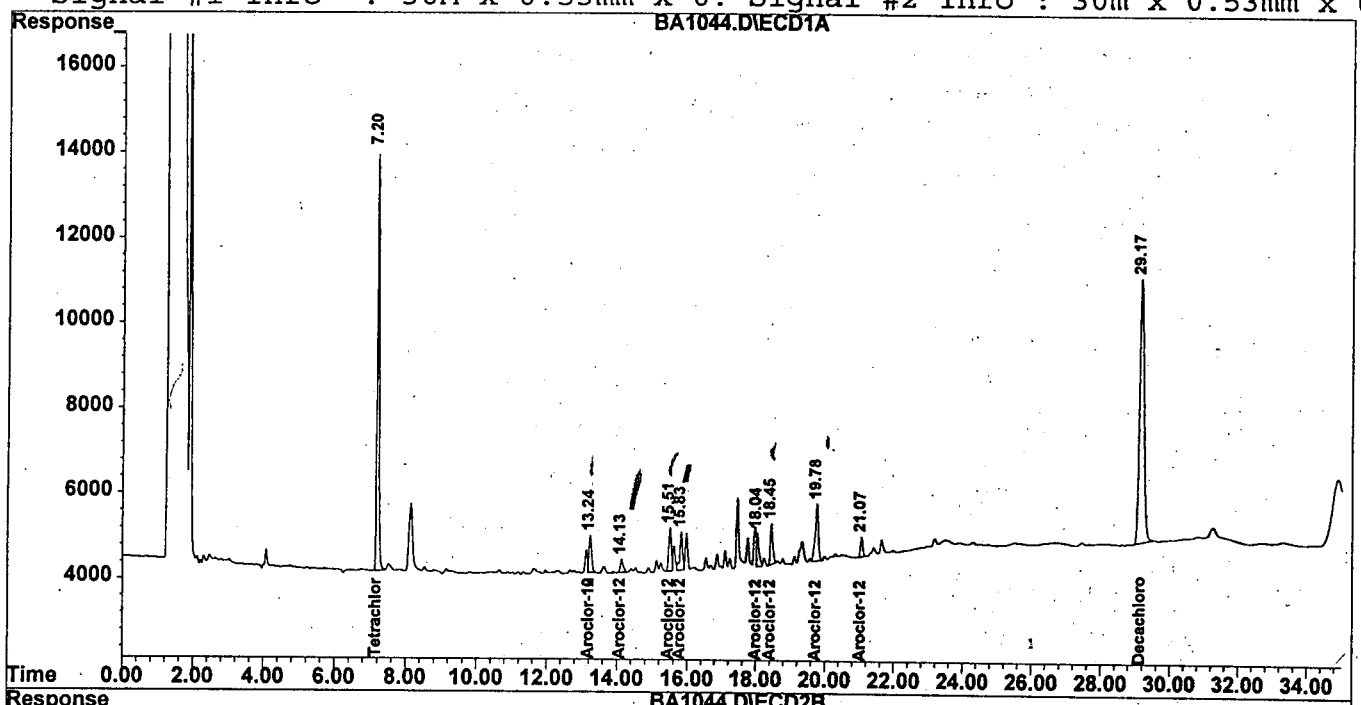
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

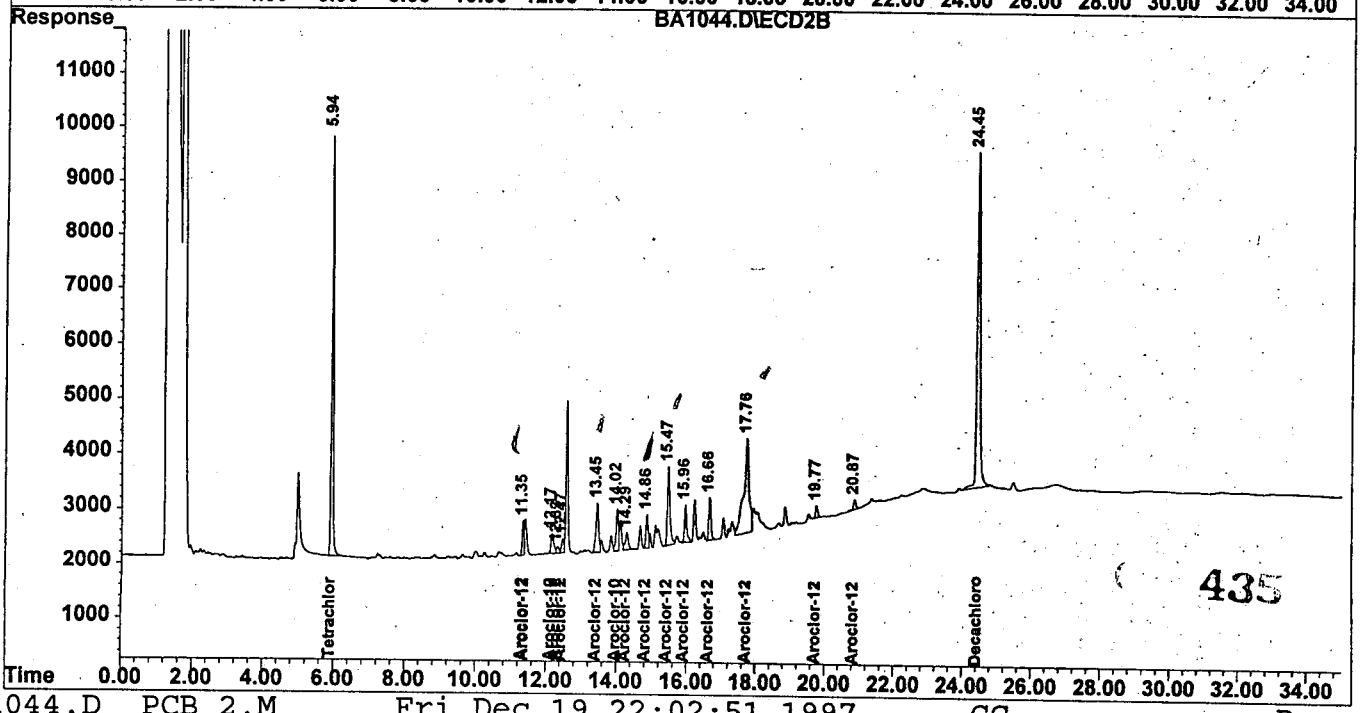
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1044.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA_B\BA1044.D\ECD2B.CH
Acq On : 19 Dec 97 3:09 Operator:
Sample : 278464 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:49 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





435

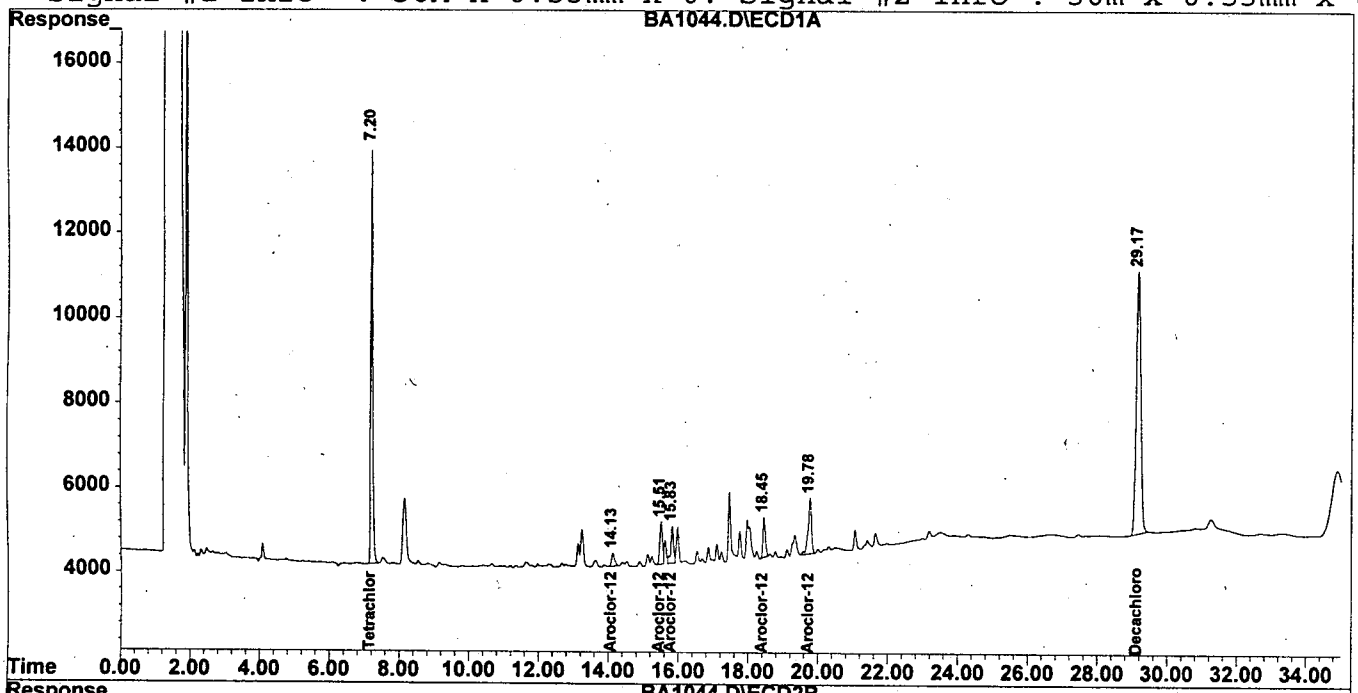
Quantitation Report

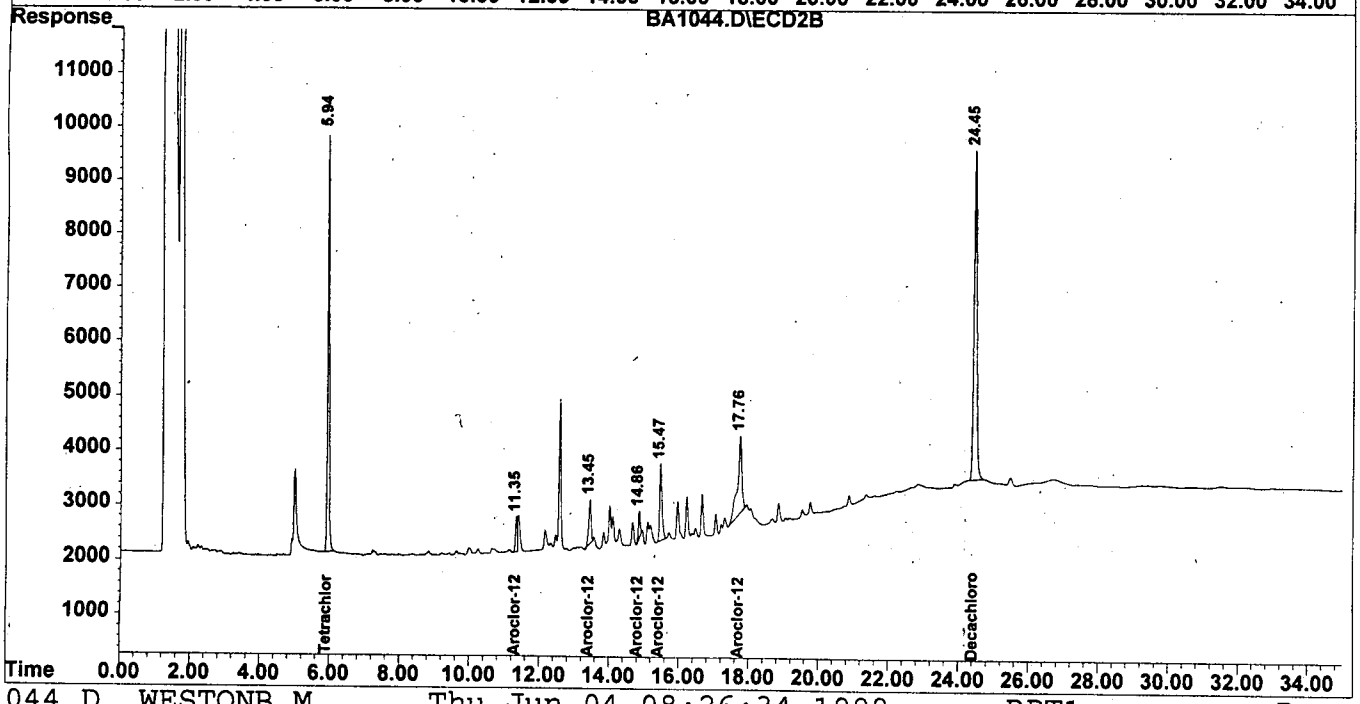
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1044.D\ECD1A.CH Vial: 17
Signal #2 : E:\WESTDA~1\BA1044.D\ECD2B.CH
Acq On : 19 Dec 97 3:09 Operator:
Sample : 278464 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 15:45 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





435A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 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: 278465
Client: ROY F. WESTON, INC.
Sample source: RFP#2272
Sample ID: MMMMSED(D)
Sample date: 12/04/97
Sampled by: Customer
At lab date: 12/05/97
Matrix: SOIL

Batch #:	QPC7404	Column used:	DB 1701/DB 608
Extraction date:	12/17/97	Analysis date:	12/19/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1	Sample Moisture:	14.15%

ANALYTE NAME	RESULT UG/KG	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	U	39	19
Aroclor-1221	U	U	78	54
Aroclor-1232	U	U	39	31
Aroclor-1242	U	U	39	19
Aroclor-1248	U	U	39	23
Aroclor-1254	U	U	39	27
Aroclor-1260	U	U	39	31

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.

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Thomas Mancuso, Lab Mgr.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA1040.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_B\BA1040.D\ECD2B.CH
Acq On : 19 Dec 97 00:35 Operator:
Sample : 278465 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:23 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	7.21	5.94	390693	262151	43.127	40.474
Spiked Amount 40.000 Range 43 - 150 Recovery =					107.82%	101.19%
2) SA Decachlorobiphen	29.17	24.46	587379	368295	39.032	41.298
Spiked Amount 40.000 Range 24 - 154 Recovery =					97.58%	103.25%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
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
24) L5 Aroclor-1248{5}	0.00	15.47	0	5619	N.D.	44.614 #
Sum Aroclor-1248			0	5619	N.D.	44.614
Average Aroclor-1248					0.000	44.614
28) L6 Aroclor-1254{4}	18.45	15.47	9295	5619	22.935	11.564 #
29) L6 Aroclor-1254{5}	19.78	17.76	61713	138581	71.509	304.949 #
Sum Aroclor-1254			71008	144200	94.444	316.513
Average Aroclor-1254					47.222	158.257
31) L7 Aroclor-1260{2}	18.45	0.00	9295	0	15.101	N.D. #
32) L7 Aroclor-1260{3}	0.00	17.76	0	138581	N.D.	268.702 #
Sum Aroclor-1260			9295	138581	15.101	268.702
Average Aroclor-1260					15.101	268.702

437

12/19/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WEST\BA1040.D\ECD1A.CH Vial: 13
Signal #2 : E:\WEST\BA1040.D\ECD2B.CH
Acq On : 19 Dec 97 00:35 Operator:
Sample : 278465 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 11:53 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	7.21	5.94	385928	258941	41.486	42.852
Spiked Amount 40.000 Range 43 - 150 Recovery =					103.72%	107.13%
2) SA Decachlorobiphen	29.17f	24.46f	607875	370468	40.251m	44.594m
Spiked Amount 40.000 Range 24 - 154 Recovery =					100.63%	111.49%
Target Compounds						
7) L6 Aroclor-1254{5}	0.00	17.76	0	65034	N.D.	135.722 #
Sum Aroclor-1254			0	65034	N.D.	135.722
Average Aroclor-1254					0.000	135.722

437A

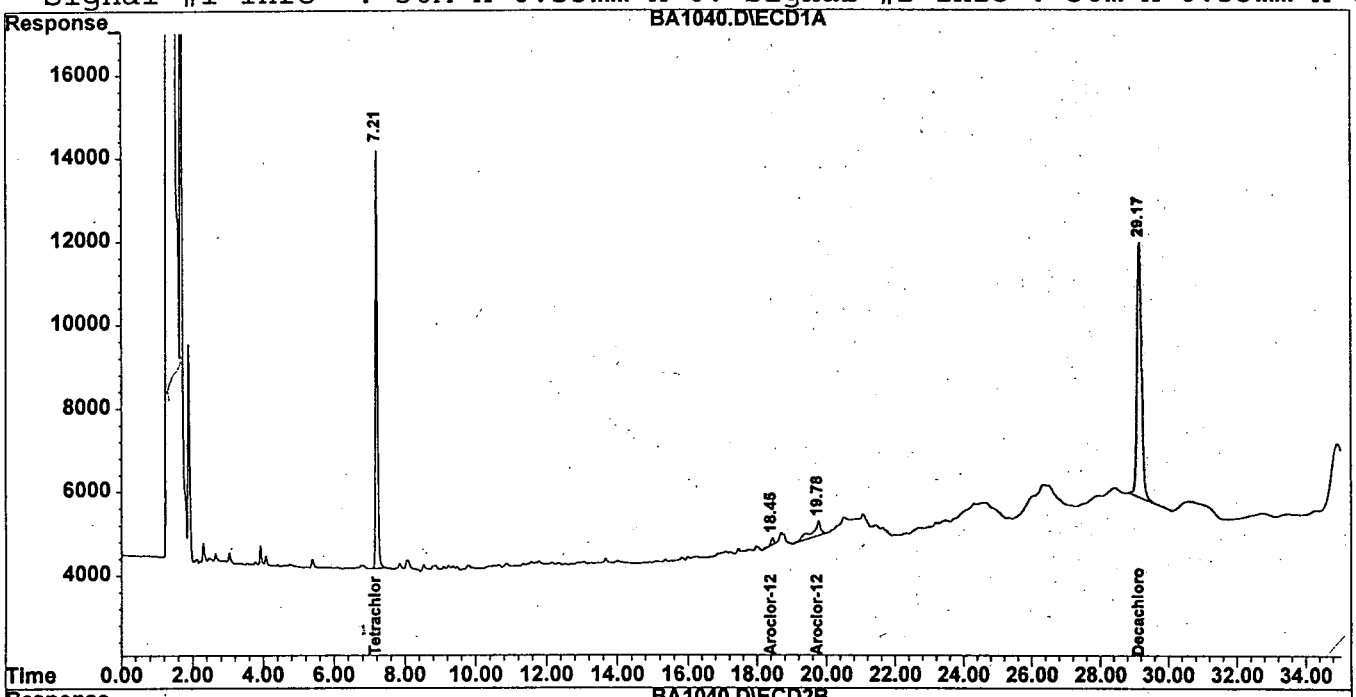
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

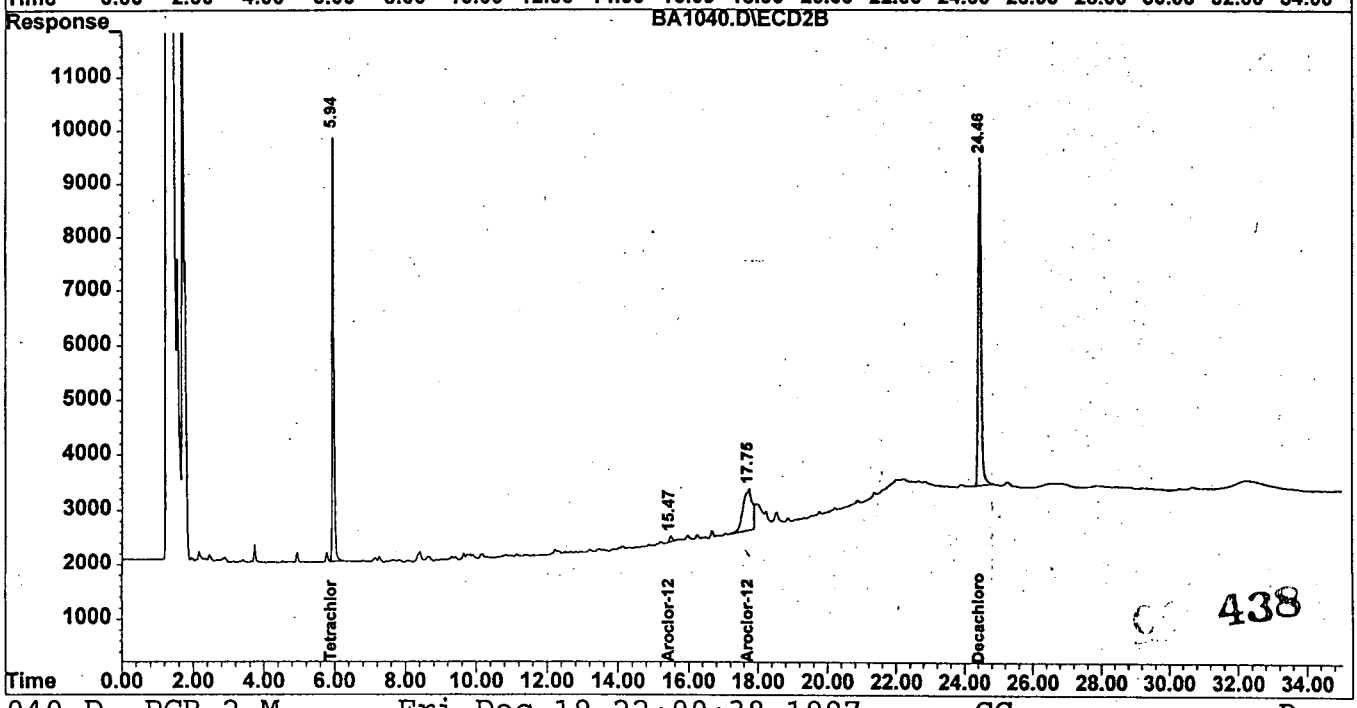
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1040.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA_B\BA1040.D\ECD2B.CH
Acq On : 19 Dec 97 00:35 Operator:
Sample : 278465 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:23 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





438

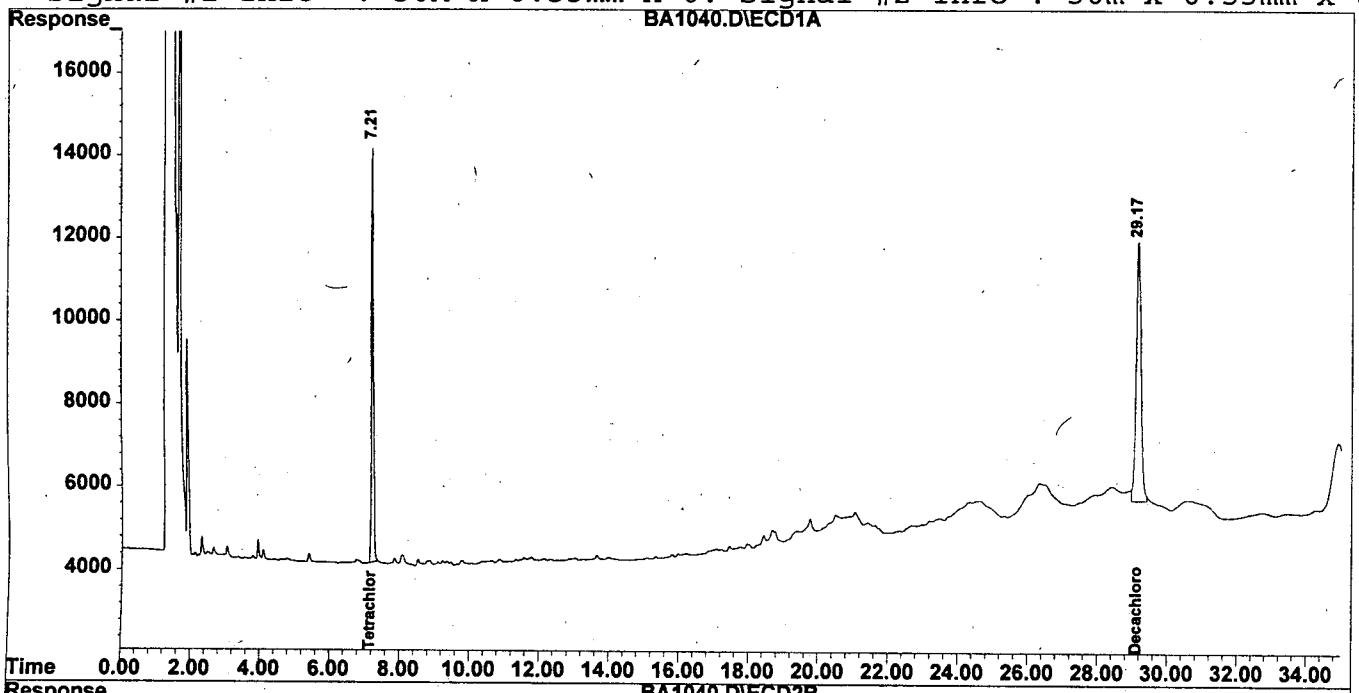
Quantitation Report

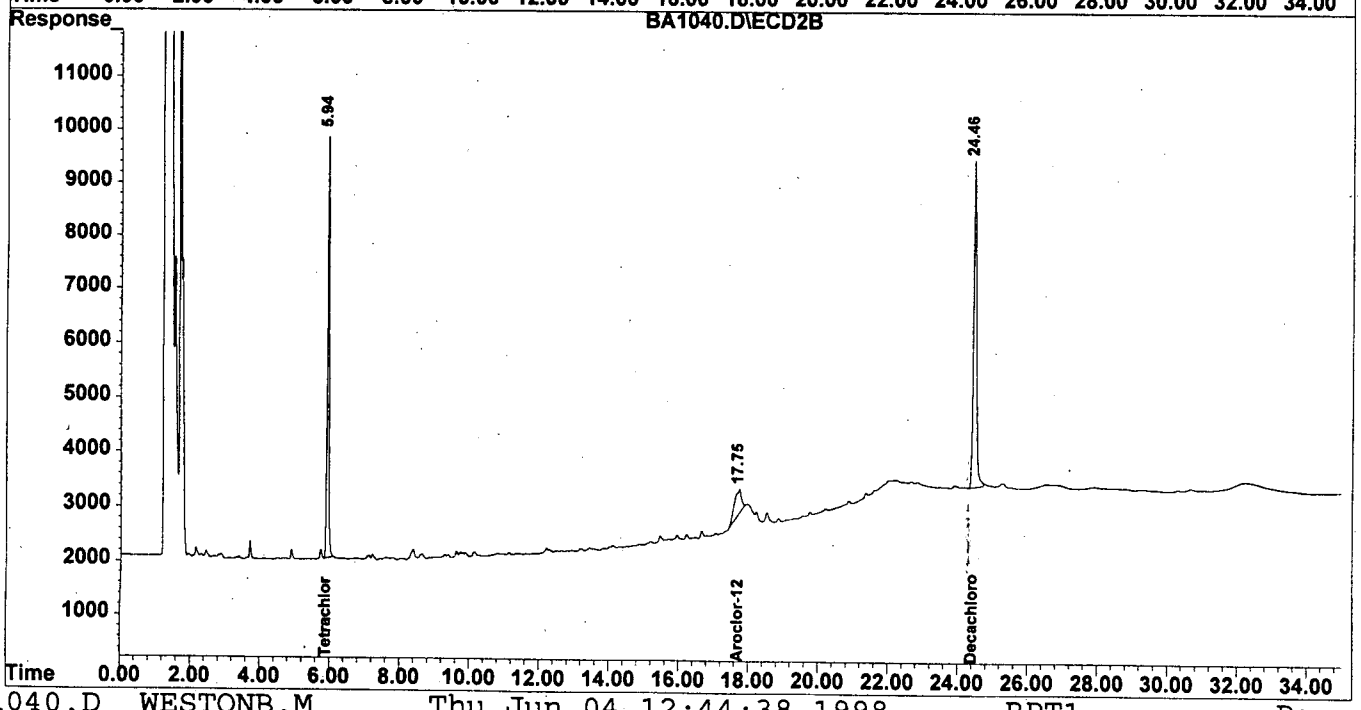
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WEST\BA1040.D\ECD1A.CH Vial: 13
Signal #2 : E:\WEST\BA1040.D\ECD2B.CH
Acq On : 19 Dec 97 00:35 Operator:
Sample : 278465 Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 4 11:53 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





INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 1997

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

water blank

PCB Method Blank Summary

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		
Matrix:	AQUEOUS		

ANALYTE NAME	METHOD BLANK RESULT UG/L	PRACTICAL QUANTITATION LIMIT UG/L	MINIMUM DETECTION LIMIT UG/L
Aroclor-1016	U	1.0	0.5
Aroclor-1221	U	2.0	1.4
Aroclor-1232	U	1.0	0.8
Aroclor-1242	U	1.0	0.5
Aroclor-1248	U	1.0	0.6
Aroclor-1254	U	1.0	0.7
Aroclor-1260	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.

Method Blanks

Associated Samples:

278463 Blanks Blanks

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Thomas Mancuso, Lab Mgr.
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LOU

Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1768.D\ECD1A.CH
Signal #2 : C:\HPCHEM\1\DATA_E\EA1768.D\ECD2B.CH
Acq On : 14 Dec 97 1:20
Sample : BLANK
Misc : QPC7403
IntFile Signal #1: EVENTS.E
Quant Time: Dec 14 12:41 1997

Vial: 15
Operator:
Inst : GC_5890_5
Multiplr: 1.00
IntFile Signal #2: EVENTS2.E
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 #1 Info : 30M X 0.53mm x 0.
Signal #2 Phase: RTx-1701
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	440151	647180	31.993	32.541
Spiked Amount 40.000 Range 43 - 150 Recovery =					79.98%	81.35%
2) SA Decachlorobiphen	25.90	21.44	627229	582624	26.958	26.812
Spiked Amount 40.000 Range 24 - 154 Recovery =					67.40%	67.03%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
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
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

C 440

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

ICM Laboratories Quantitation Report (QT Reviewed)
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1768.D\ECD1A.CH Vial: 15
Signal #2 : E:\WESTDA~1\EA1768.D\ECD2B.CH
Acq On : 14 Dec 97 1:20 Operator:
Sample : BLANK Inst : GC_5890_5
Misc : QPC7403 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:49 1998 Quant Results File: SURR.RES

Quant Method : H:\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	440151	647393	30.946	29.900
Spiked Amount 40.000 Range 43 - 150 Recovery =					77.37%	74.75%
2) SA Decachlorobiphen	25.90	21.45	630862	662282	26.823	29.030
Spiked Amount 40.000 Range 24 - 154 Recovery =					67.06%	72.58%
Target Compounds						

440A

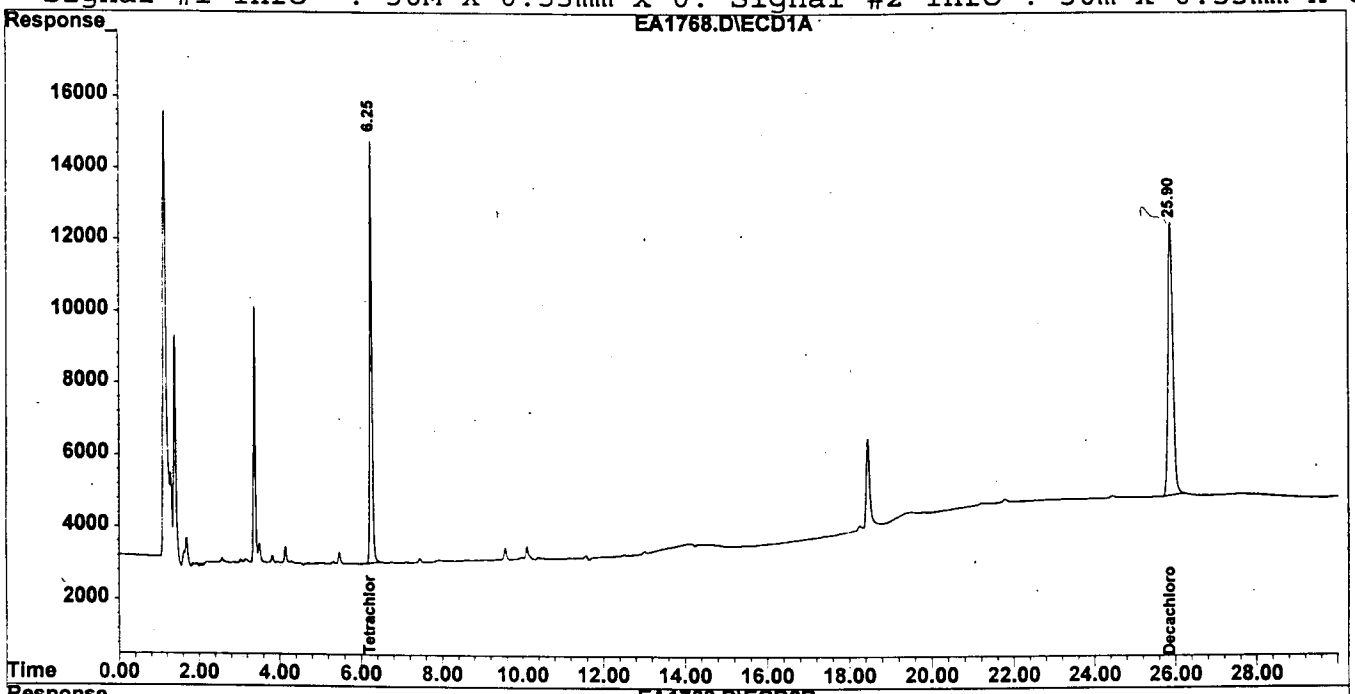
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

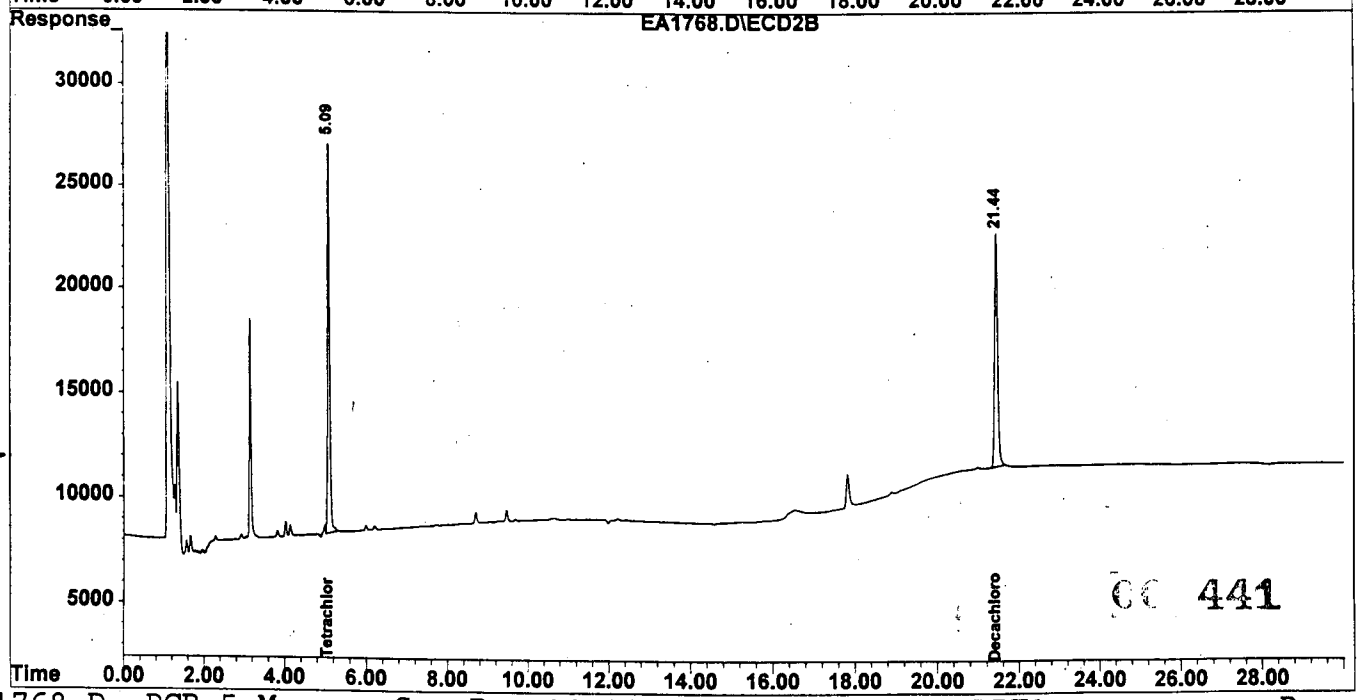
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1768.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA_E\EA1768.D\ECD2B.CH
Acq On : 14 Dec 97 1:20 Operator:
Sample : BLANK 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





00 441

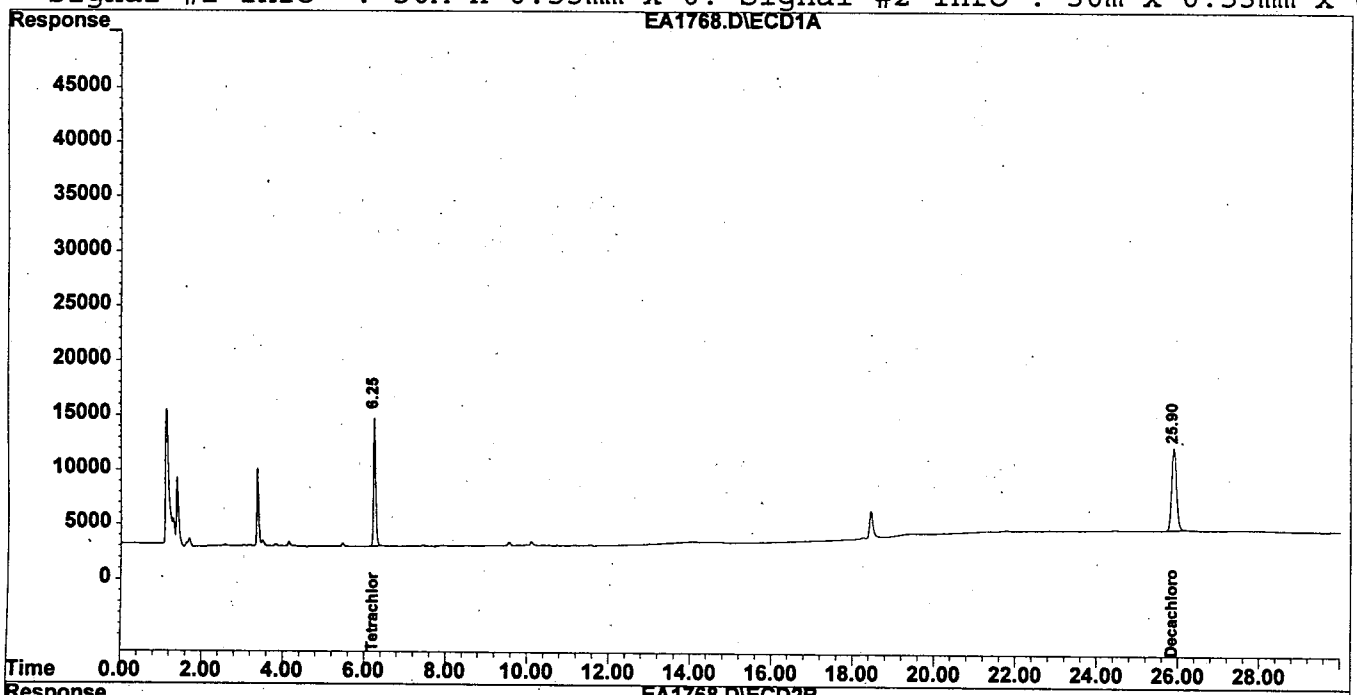
Quantitation Report

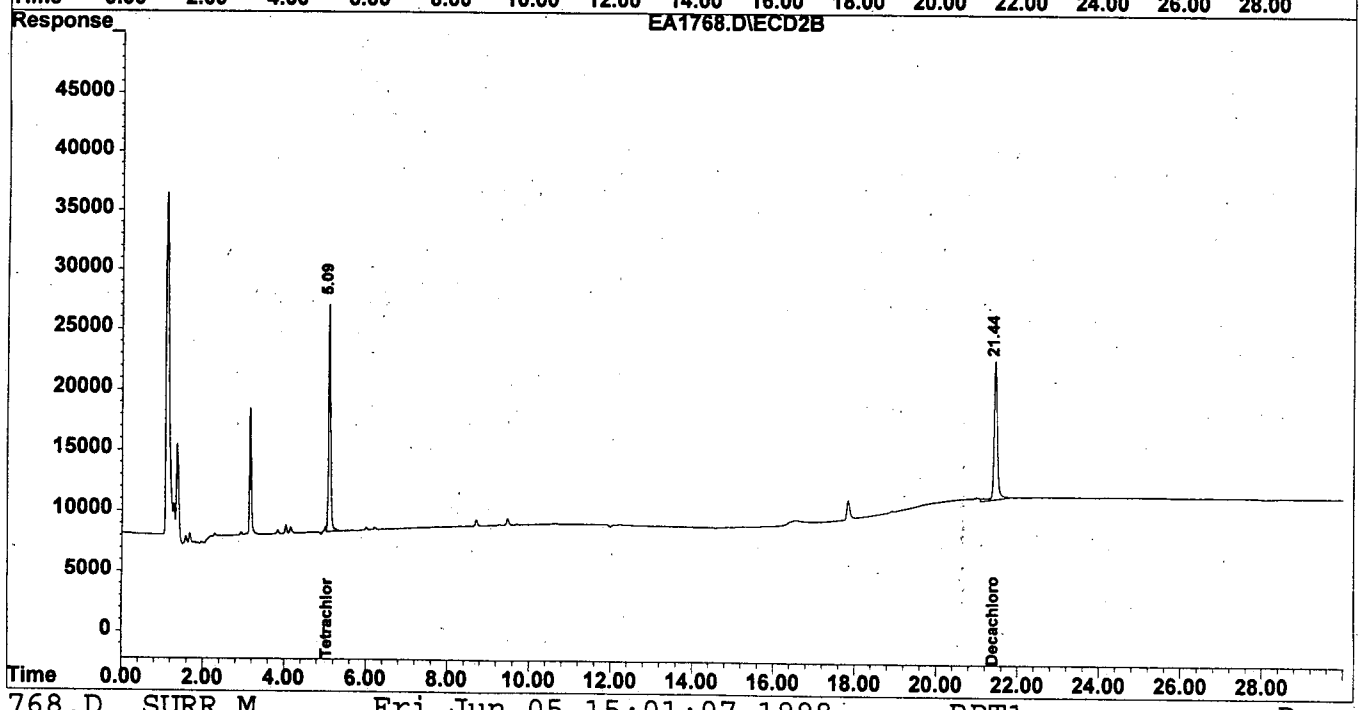
AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1768.D\ECD1A.CH Vial: 15
Signal #2 : E:\WESTDA~1\EA1768.D\ECD2B.CH
Acq On : 14 Dec 97 1:20 Operator:
Sample : BLANK Inst : GC_5890_5
Misc : QPC7403 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:49 1998 Quant Results File: SURR.RES

Quant Method : H:\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





441A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 22, 1997

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

PCB Method Blank Summary

Soil blank

Batch #:	QPC7404	Column used:	DB 1701/DB 608
Extraction date:	12/17/97	Analysis date:	12/18/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1		
Matrix:	SOIL		

ANALYTE NAME	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	33	17
Aroclor-1221	U	67	47
Aroclor-1232	U	33	27
Aroclor-1242	U	33	17
Aroclor-1248	U	33	20
Aroclor-1254	U	33	23
Aroclor-1260	U	33	27

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.

Associated Samples:

278443 278464 278465 278438

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Thomas Mancuso, Lab Mgr.
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DAV

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA1038.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA_B\BA1038.D\ECD2B.CH
Acq On : 18 Dec 97 23:18 Operator:
Sample : BLANK II Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:43 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	7.21	5.94	388294	263799	42.862	40.729
Spiked Amount 40.000 Range 43 - 150 Recovery =					107.16%	101.82%
2) SA Decachlorobiphen	29.18	24.46	565426	338571	37.573m	37.965m
Spiked Amount 40.000 Range 24 - 154 Recovery =					93.93%	94.91%
Target Compounds						
6) L1 Aroclor-1016{4}	0.00	12.22	0	6762	N.D.	26.359 #
Sum Aroclor-1016			0	6762	N.D.	26.359
Average Aroclor-1016					0.000	26.359
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
18) L4 Aroclor-1242{4}	0.00	12.22	0	6762	N.D.	29.221 #
19) L4 Aroclor-1242{5}	0.00	14.29	0	90865	N.D.	1016.666 #
Sum Aroclor-1242			0	97627	N.D.	1045.888
Average Aroclor-1242					0.000	522.944
21) L5 Aroclor-1248{2}	0.00	12.22	0	6762	N.D.	19.954 #
23) L5 Aroclor-1248{4}	14.07	0.00	77596	0	156.337	N.D. #
Sum Aroclor-1248			77596	6762	156.337	19.954
Average Aroclor-1248					156.337	19.954
25) L6 Aroclor-1254{1}	14.07	0.00	77596	0	571.676	N.D. #
Sum Aroclor-1254			77596	0	571.676	N.D.
Average Aroclor-1254					571.676	0.000
30) L7 Aroclor-1260{1}	18.09	0.00	107621	0	206.788	N.D. #
34) L7 Aroclor-1260{5}	0.00	20.90	0	217296	N.D.	460.039 #
Sum Aroclor-1260			107621	217296	206.788	460.039
Average Aroclor-1260					206.788	460.039

443

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1038.D\ECD1A.CH Vial: 11
Signal #2 : E:\WESTDA~1\BA1038.D\ECD2B.CH
Acq On : 18 Dec 97 23:18 Operator:
Sample : BLANK II Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 15:41 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	7.21	5.94	382870	260614	41.157	43.128
Spiked Amount 40.000 Range 43 - 150 Recovery =					102.89%	107.82%
2) SA Decachlorobiphen	29.18	24.46	626023	529888	41.453m	63.784m#
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.63%	159.46%#
Target Compounds						
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000

JMS 6/4/98

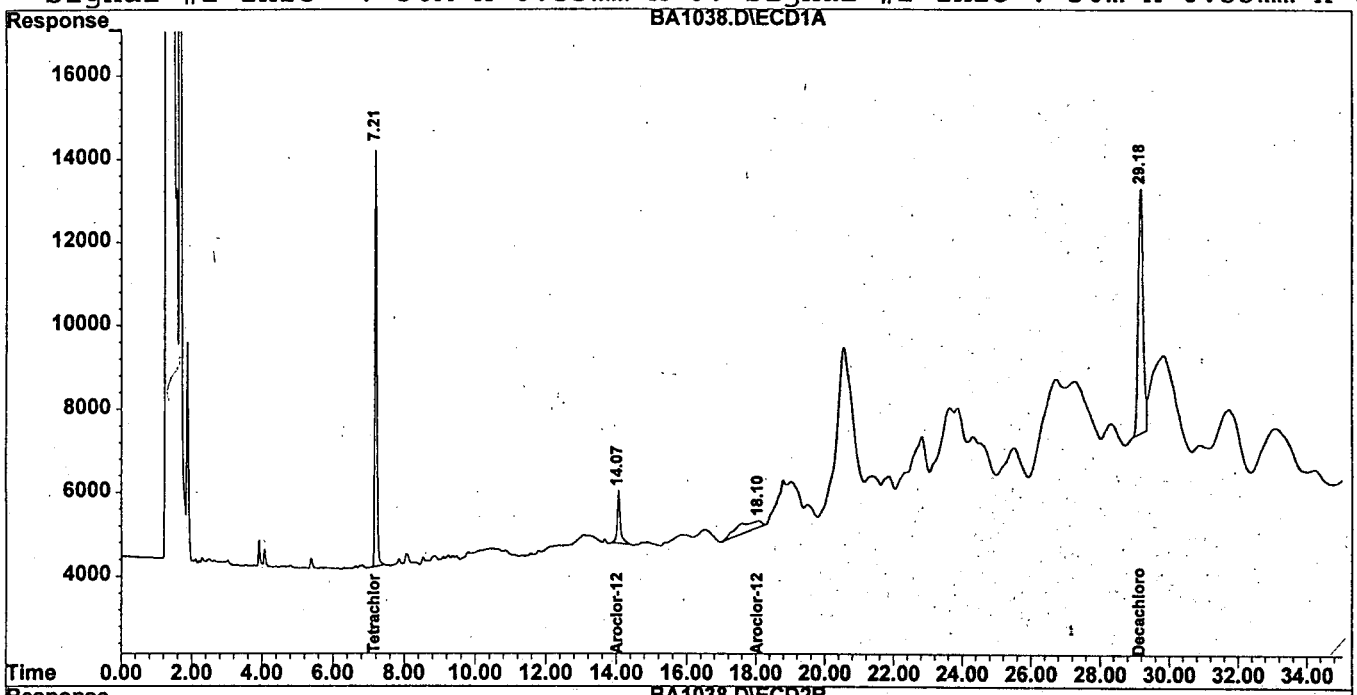
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

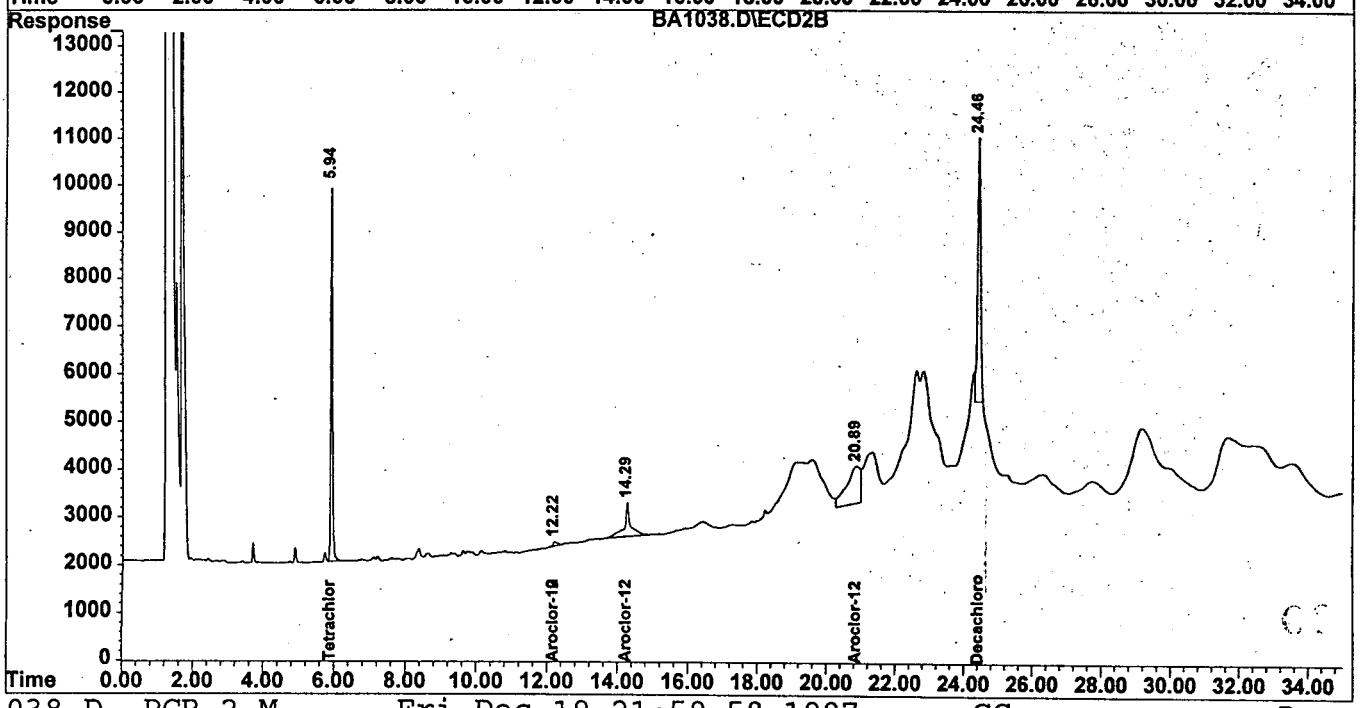
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA1038.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA_B\BA1038.D\ECD2B.CH
Acq On : 18 Dec 97 23:18 Operator:
Sample : BLANK II Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 19 21:43 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





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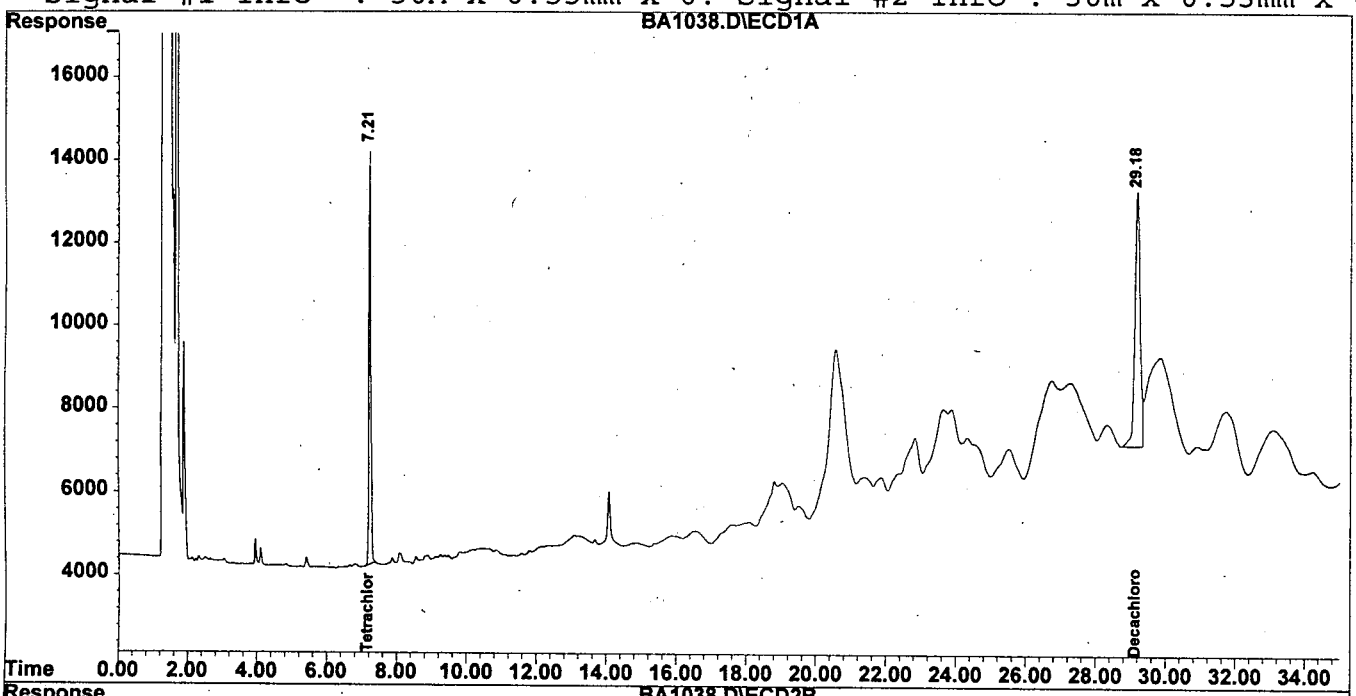
Quantitation Report

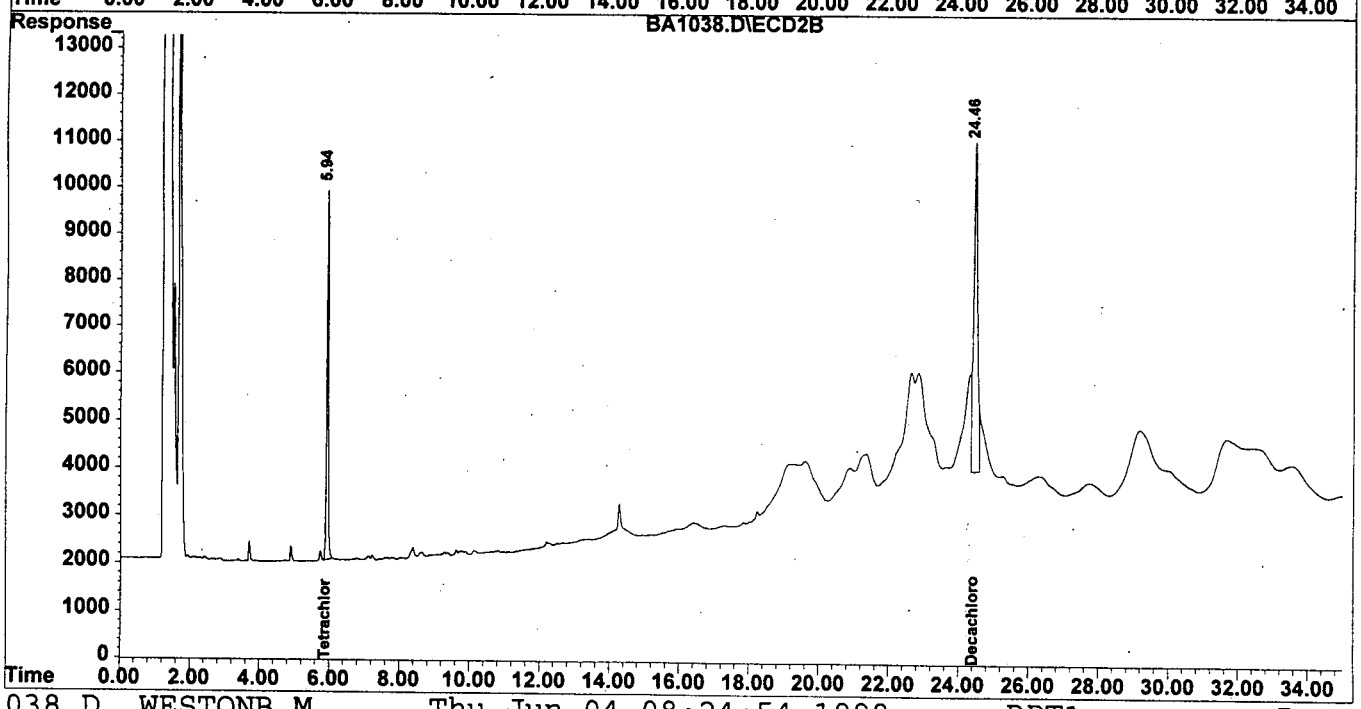
AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA1038.D\ECD1A.CH Vial: 11
Signal #2 : E:\WESTDA~1\BA1038.D\ECD2B.CH
Acq On : 18 Dec 97 23:18 Operator:
Sample : BLANK II Inst : GC_5890_2
Misc : QPC7404 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 15:41 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





444A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 21, 1997

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

PCB Method Blank Summary

Batch #:	QPC7405	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1		
Matrix:	SOIL		

ANALYTE NAME	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	33	17
Aroclor-1221	U	67	47
Aroclor-1232	U	33	27
Aroclor-1242	U	33	17
Aroclor-1248	U	33	20
Aroclor-1254	U	33	23
Aroclor-1260	U	33	27

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.

Associated Samples:

278370	278371	278372	278373	278374
278375	278376	278377	278378	278379
278380	278381	278382	278383	278384
278385	278386	278387	278388	278389
278382S	278382SD			

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
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LOU

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_E\EA1783.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_E\EA1783.D\ECD2B.CH
Acq On : 15 Dec 97 11:07 Operator:
Sample : BLANK Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 18:58 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							
) SA Tetrachloro-m-xy	6.25	5.08	639143	944231	46.457	47.477	
Spiked Amount 40.000 Range 43 - 150 Recovery =					116.14%	118.69%	
2) SA Decachlorobiphen	25.88	21.43	942390	893478	40.503	41.118	
Spiked Amount 40.000 Range 24 - 154 Recovery =					101.26%	102.80%	
Target Compounds							
) L1 Aroclor-1016{1}	8.07	0.00	14223	0	42.738	N.D.	#
Sum Aroclor-1016			14223	0	42.738	N.D.	
Average Aroclor-1016					42.738 NP	0.000	
) L2 Aroclor-1221{2}	7.44	0.00	7112	0	74.945	N.D.	#
11) L2 Aroclor-1221{4}	8.07	0.00	14223	0	34.870	N.D.	#
Sum Aroclor-1221			21335	0	109.815	N.D.	
Average Aroclor-1221					54.908 NP	0.000	
12) L3 Aroclor-1232{1}	8.07	0.00	14223	0	49.081	N.D.	#
Sum Aroclor-1232			14223	0	49.081	N.D.	
Average Aroclor-1232					49.081 NP	0.000	
17) L4 Aroclor-1242{1}	8.07	0.00	14223	0	54.575	N.D.	#
2) L4 Aroclor-1242{5}	0.00	10.66	0	60318	N.D.	91.189	#
Sum Aroclor-1242			14223	60318	54.575	91.189	
Average Aroclor-1242					54.575 NP	91.189	
2) L5 Aroclor-1248{3}	0.00	10.66	0	60318	N.D.	64.194	#
Sum Aroclor-1248			0	60318	N.D.	64.194	
Average Aroclor-1248					0.000	64.194 NP	
27) L6 Aroclor-1254{1}	11.56	0.00	48309	0	129.125	N.D.	#
Sum Aroclor-1254			48309	0	129.125	N.D.	
Average Aroclor-1254					129.125 NP	0.000	
Sum Aroclor-1260			0	0	N.D.	N.D.	
Average Aroclor-1260					0.000	0.000	

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DMC 12/18/97

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

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 8 1998

Signal #1 : E:\WESTDA~1\EA1783.D\ECD1A.CH Vial: 7
Signal #2 : E:\WESTDA~1\EA1783.D\ECD2B.CH
Acq On : 15 Dec 97 11:07 Operator:
Sample : BLANK Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:49 1998 Quant Results File: SURR.RES

Quant Method : H:\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	639143	953773	44.937	44.050
Spiked Amount 40.000 Range 43 - 150 Recovery =					112.34%	110.13%
2) SA Decachlorobiphen	25.88	21.43	953764	1046245	40.551	45.860
Spiked Amount 40.000 Range 24 - 154 Recovery =					101.38%	114.65%

Target Compounds

JPS 6/5/98 - 446A

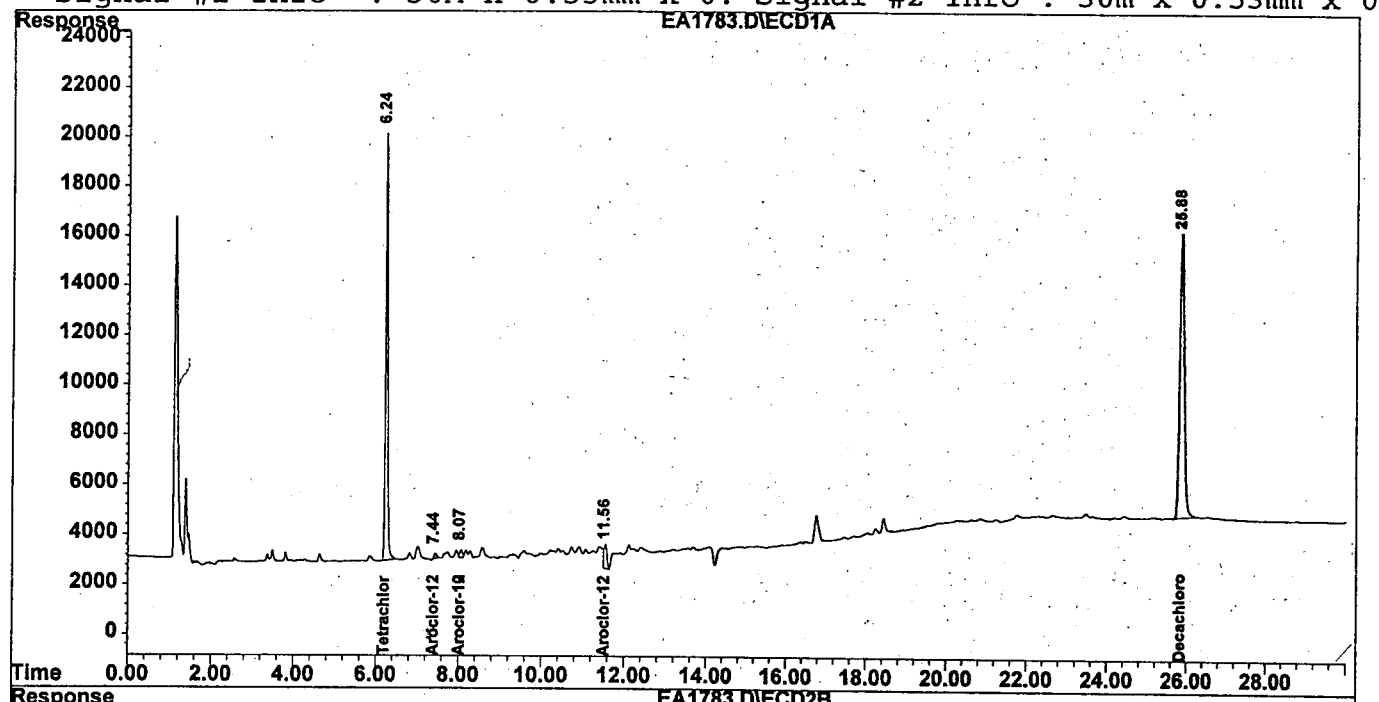
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

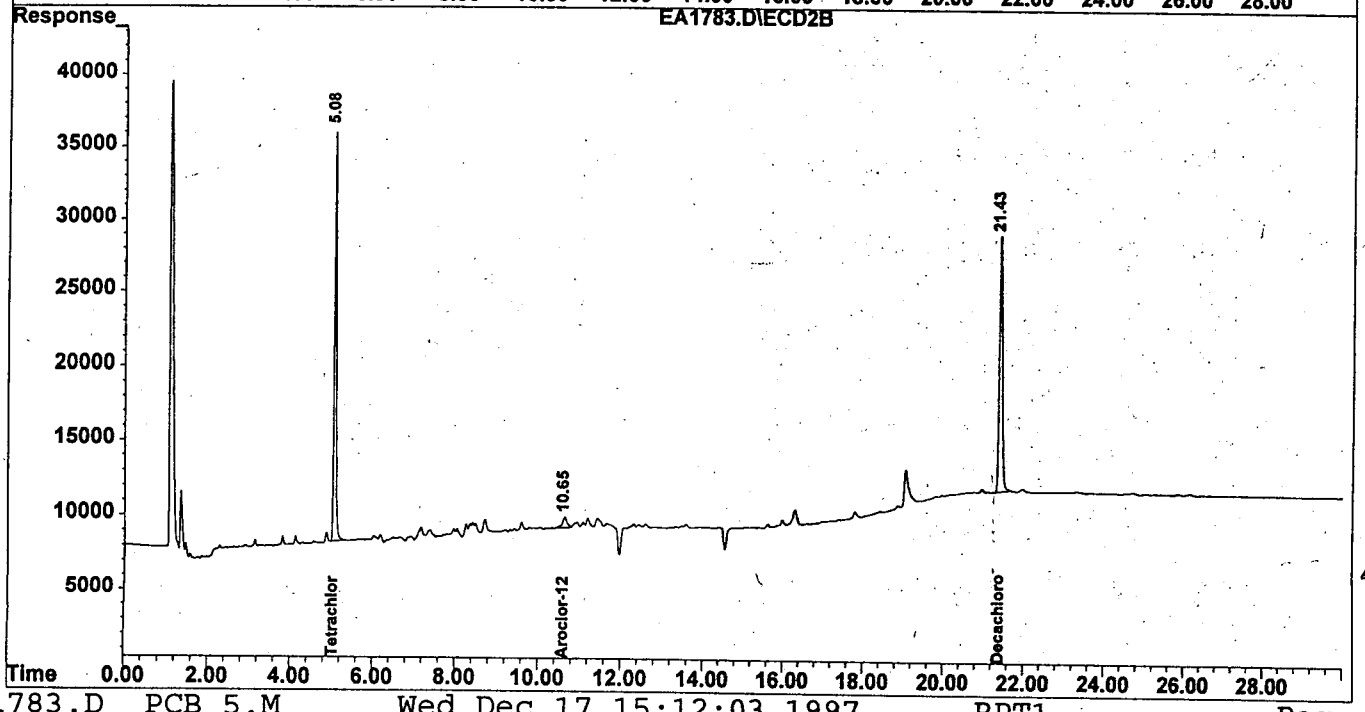
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_E\EA1783.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA_E\EA1783.D\ECD2B.CH
Acq On : 15 Dec 97 11:07 Operator:
Sample : BLANK Inst : GC_5890_5
Misc : QPC7405 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 18:58 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





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Quantitation Report

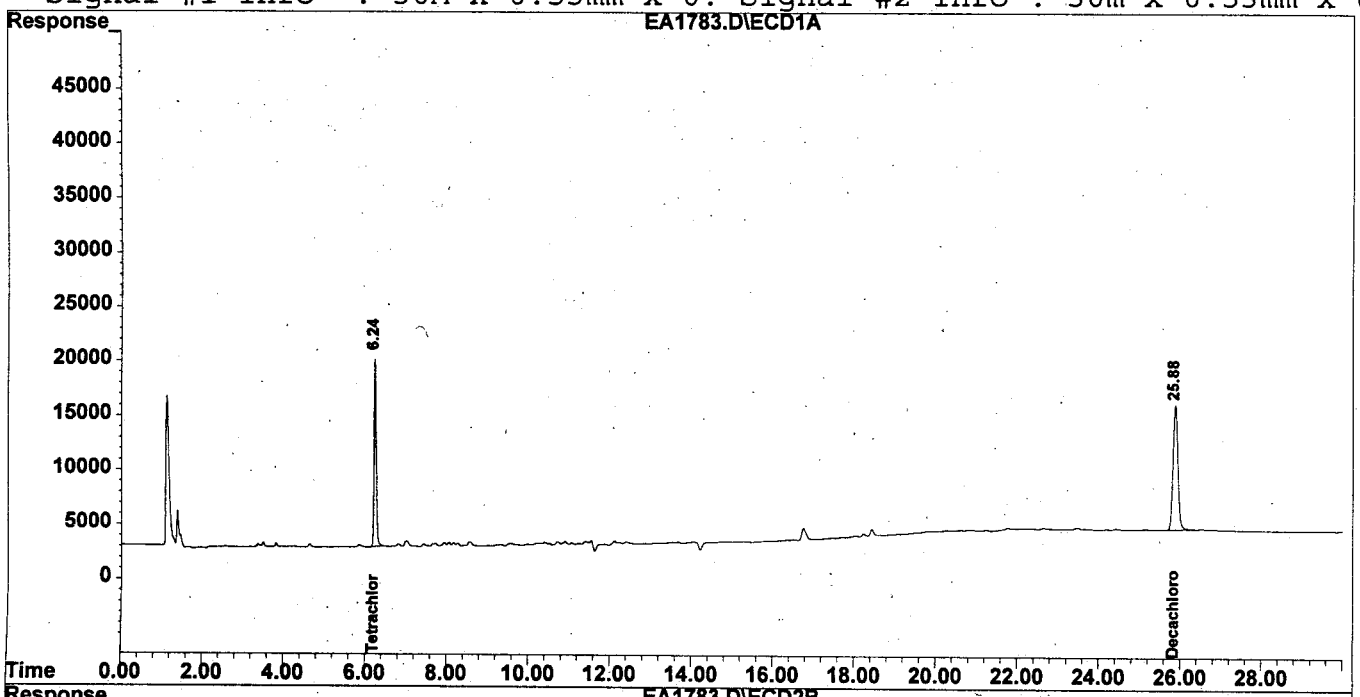
AMENDED REPORT JUN 0 8 1998

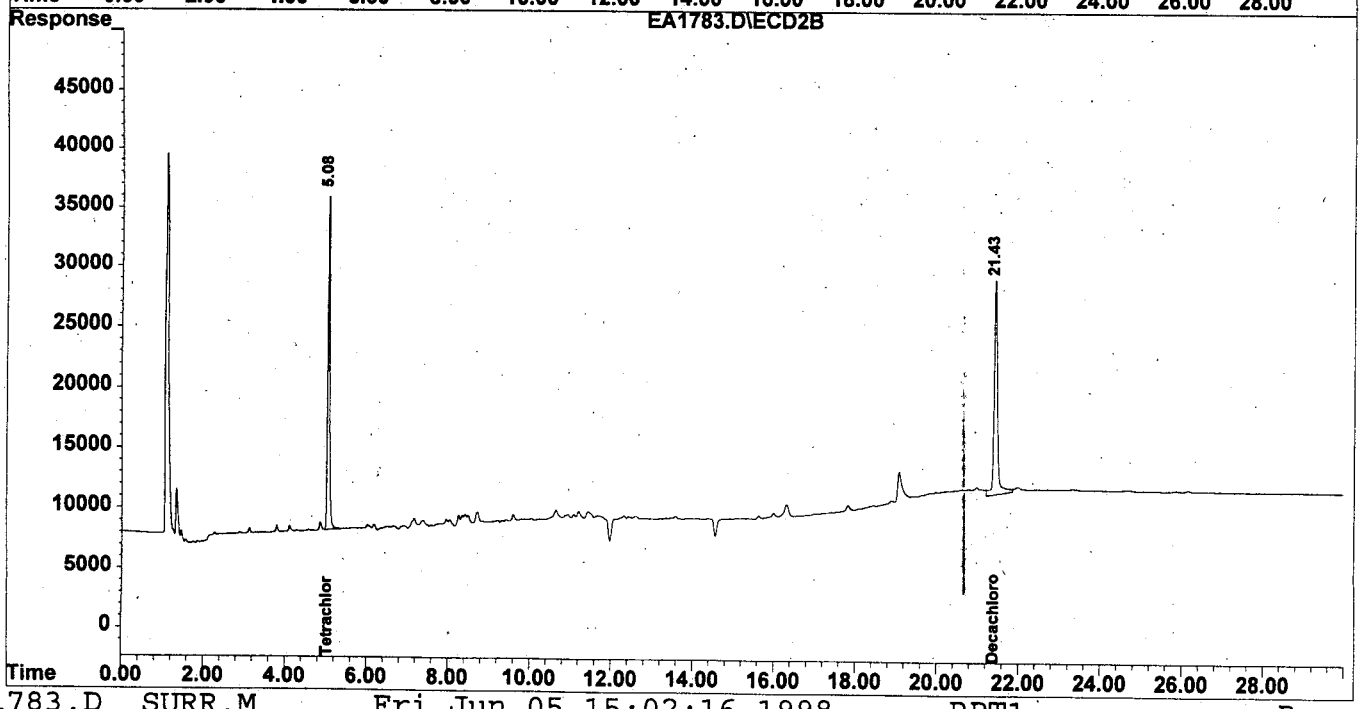
Signal #1 : E:\WESTDA~1\EA1783.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\EA1783.D\ECD2B.CH
Acq On : 15 Dec 97 11:07
Sample : BLANK
Misc : QPC7405
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 5 13:49 1998 Quant Results File: SURR.RES

Vial: 7
Operator:
Inst : GC_5890_5
Multiplr: 1.00

Quant Method : H:\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





447A

INDUSTRIAL CORROSION MANAGEMENT, INC.
1152 Route 10
Randolph, NJ 07869
973-584-0330, FAX: 973-584-0515
DECEMBER 19, 1997

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

PCB Method Blank Summary

Batch #:	QPC7406	Column used:	DB 1701/DB 608
Extraction date:	12/12/97	Analysis date:	12/15/97
Weight/Volume:	30g	Final Volume:	10ml
Dilution Factor:	1		
Matrix:	SOIL		

ANALYTE NAME	METHOD BLANK RESULT UG/KG	PRACTICAL QUANTITATION LIMIT UG/KG	MINIMUM DETECTION LIMIT UG/KG
Aroclor-1016	U	33	17
Aroclor-1221	U	67	47
Aroclor-1232	U	33	27
Aroclor-1242	U	33	17
Aroclor-1248	U	33	20
Aroclor-1254	U	33	23
Aroclor-1260	U	33	27

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.

Associated Samples:

278390	278391	278392	278393	278394
278395	278396	278397	278398	278399
278400	278401	278402	278403	278404
278405	278406	278407	278408	278409
278401S	278401SD			

INDUSTRIAL CORROSION MANAGEMENT, INC.
Thomas Mancuso, Lab Mgr.
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NEE

ICM Laboratories Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA_B\BA0921.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_B\BA0921.D\ECD2B.CH
Acq On : 15 Dec 97 5:38 Operator:
Sample : BLANK Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:07 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	7.21	6.01	399117	252252	44.057	38.946	
Spiked Amount 40.000 Range 43 - 150 Recovery =					110.14%	97.36%	
2) SA Decachlorobiphen	29.40	24.62	622449	364167	41.362	40.835	
Spiked Amount 40.000 Range 24 - 154 Recovery =					103.41%	102.09%	
Target Compounds							
3) L1 Aroclor-1016{1}	9.25	0.00	7577	0	35.597	N.D.	#
6) L1 Aroclor-1016{4}	0.00	12.30	0	8524	N.D.	33.225	#
Sum Aroclor-1016			7577	8524	35.597	33.225	
Average Aroclor-1016					35.597	33.225	
10) L2 Aroclor-1221{3}	9.25	0.00	7577	0	25.032	N.D.	#
Sum Aroclor-1221			7577	0	25.032	N.D.	
Average Aroclor-1221					25.032	0.000	
12) L3 Aroclor-1232{2}	9.25	0.00	7577	0	37.077	N.D.	#
Sum Aroclor-1232			7577	0	37.077	N.D.	
Average Aroclor-1232					37.077	0.000	
15) L4 Aroclor-1242{1}	9.25	0.00	7577	0	41.334	N.D.	#
18) L4 Aroclor-1242{4}	0.00	12.30	0	8524	N.D.	36.833	#
Sum Aroclor-1242			7577	8524	41.334	36.833	
Average Aroclor-1242					41.334	36.833	
21) L5 Aroclor-1248{2}	0.00	12.30	0	8524	N.D.	25.152	#
Sum Aroclor-1248			0	8524	N.D.	25.152	
Average Aroclor-1248					0.000	25.152	
Sum Aroclor-1254			0	0	N.D.	N.D.	
Average Aroclor-1254					0.000	0.000	
Sum Aroclor-1260			0	0	N.D.	N.D.	
Average Aroclor-1260					0.000	0.000	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
BA0921.D PCB_2.M Mon Dec 15 13:25:49 1997 GC Page 1

ICM Laboratories Quantitation Report (QT Reviewed)

AMENDED REPORT JUN 0 5 1998

Signal #1 : E:\WESTDA~1\BA0921.D\ECD1A.CH Vial: 21
Signal #2 : E:\WESTDA~1\BA0921.D\ECD2B.CH
Acq On : 15 Dec 97 5:38 Operator:
Sample : BLANK Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:20 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	7.21	6.01	395024	249695	42.463	41.322
Spiked Amount 40.000 Range 43 - 150 Recovery =					106.16%	103.31%
2) SA Decachlorobiphen	29.40	24.62	619363	357514	41.012	43.035
Spiked Amount 40.000 Range 24 - 154 Recovery =					102.53%	107.59%
Target Compounds						
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000

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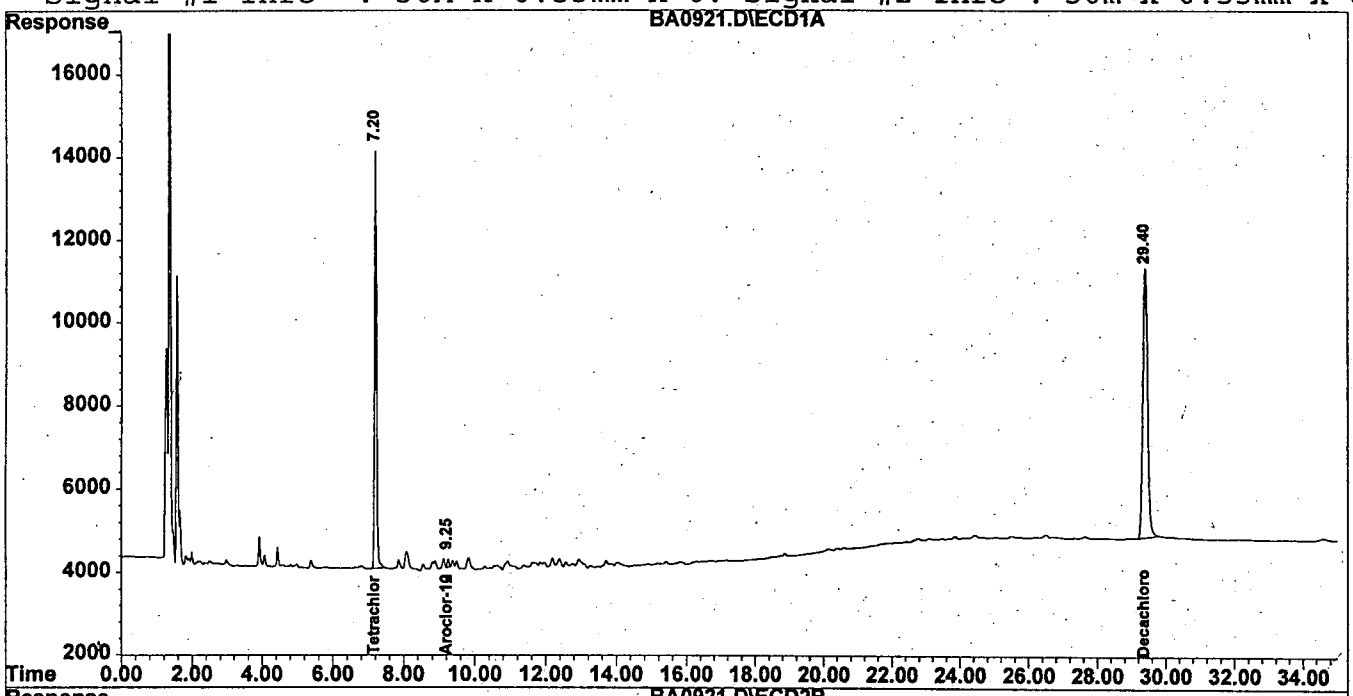
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

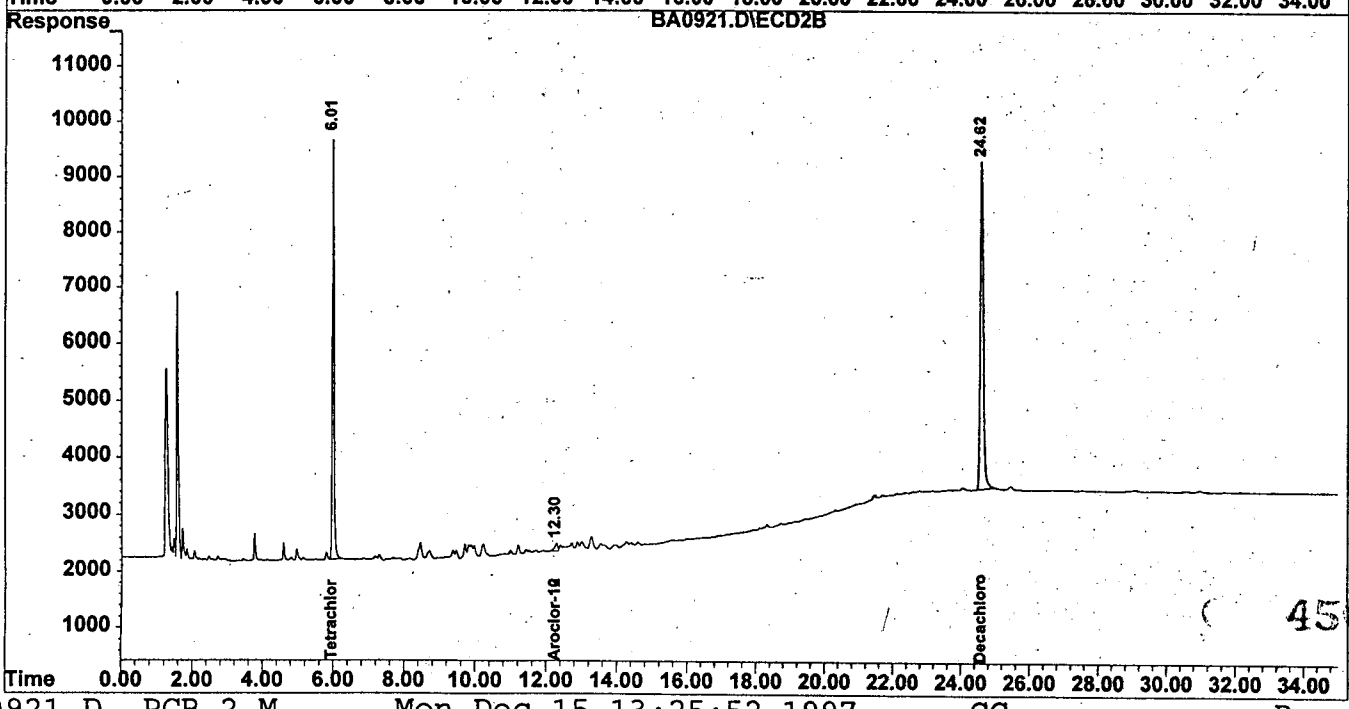
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA_B\BA0921.D\ECD1A.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA_B\BA0921.D\ECD2B.CH
Acq On : 15 Dec 97 5:38 Operator:
Sample : BLANK Inst : GC_5890_2
Misc : QPC7406 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Dec 15 13:07 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





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Quantitation Report

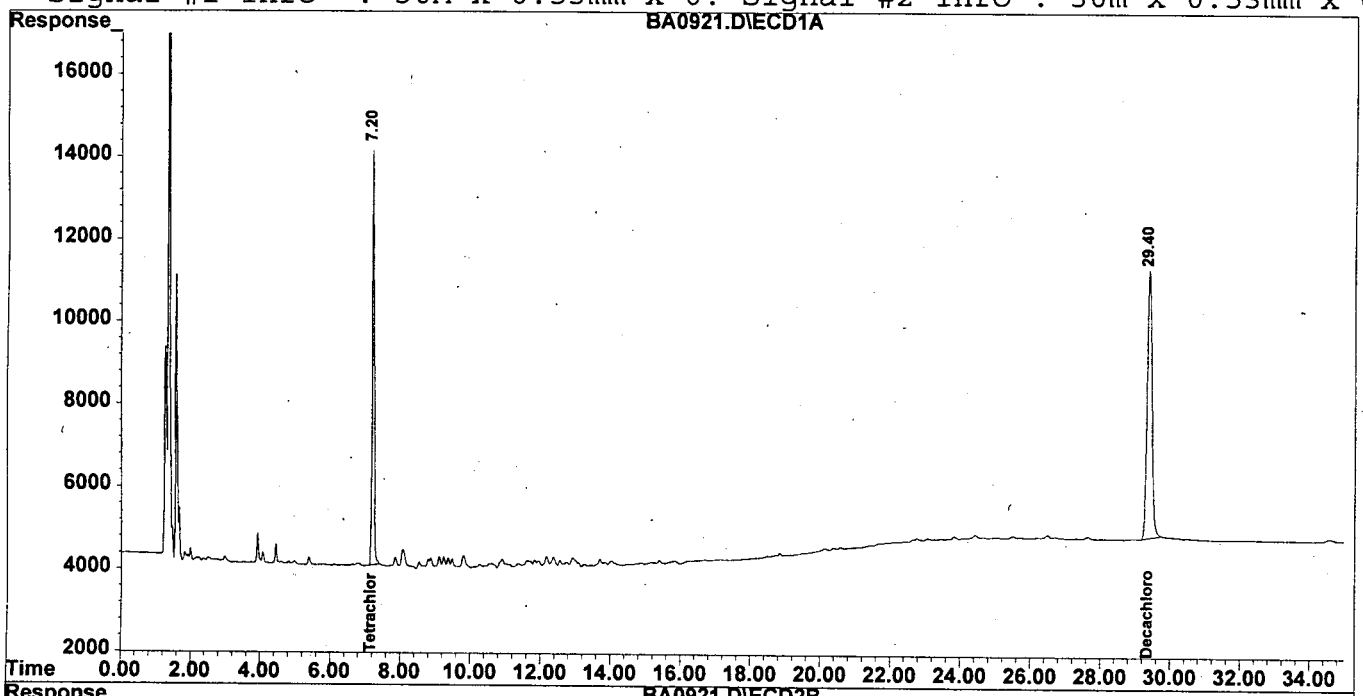
AMENDED REPORT JUN 0 5 1998

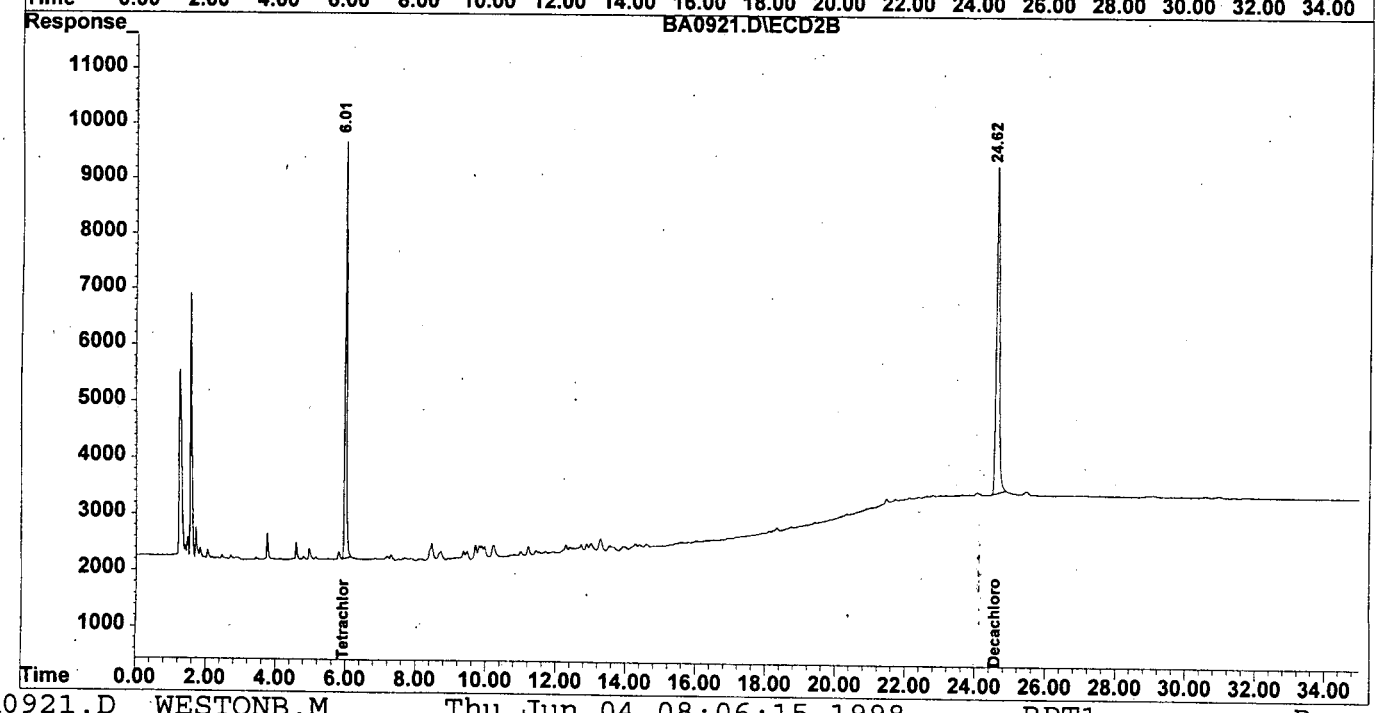
Signal #1 : E:\WESTDA~1\BA0921.D\ECD1A.CH
Signal #2 : E:\WESTDA~1\BA0921.D\ECD2B.CH
Acq On : 15 Dec 97 5:38
Sample : BLANK
Misc : QPC7406
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jun 3 13:20 1998 Quant Results File: WESTONB.RES

Vial: 21
Operator:
Inst : GC_5890_2
Multiplr: 1.00

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





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