State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217-782-6761

EPA Region 5 Records Ctr.
391004

October 14, 1997

Ms. Jeanne Griffin
U.S. EPA, Region 5
77 W. Jackson Blvd.
HSE-5J
Chicago, IL 60604

Re: Precision Chrome
L0970205001
ILD089062871
SF/HRS

Dear Ms. Griffin,

In October 1992 the Illinois EPA began conducting CERCLA Screening Site Inspection (SSI) activities on the Precision Chrome site in Fox Lake, Illinois. These activities were apparently suspended due to discussions of the possibility of the site being deferred to RCRA. In 1994 the site was in fact deferred to RCRA. Therefore, the site can be given a CERCLA status of No Further Remedial Action Planned.

Sample results from the 1992 SSI activities are attached for your information. If you have any questions concerning this matter, please feel free to contact me.

Sincerely,

Judy J. Triller

Judy J. Triller
Site Assessment Unit
Remedial Project Management Section
Bureau of Land Pollution Control

entered SI - D

PRECISION CHROME
ILD 089062871
SAMPLE LOCATIONS

Sample ID	Depth	Location
X101	1" - 12"	Approx. 2' north of effluent pipe located at the northern end of the surface impoundment.
X102	1" - 14"	Overflow pond, approx. 125' south of sample X101 and approx. 270' south-southwest of southeast corner of mfg. plant.
X103	0' - 2.5'	Approx 24 8' northeast of mfg plant
X104	0' - 2'	Approx. 6.8' south of sample X103.
X105	0" - 9"	Background sample from residential area to the south of Precision Chrome property
X106	0" - 5"	Approx. 50' southeast of mfg. plant.
X107	0" - 8"	Along western-most wall of plant, approx 40' north of the southwestern corner of the building.
X108	0" - 12"	Along the western wall of the plant, approx 11' south of sample X107.
X109	0" - 6"	Approx. 60' south of sample point X108 in concrete pad runoff area, 6' east of southeast corner of concrete pad.
X110	0" - 6"	Approx. 30' to the east-southeast of sample point X106.
X111	0" - 8"	Approx. 50' east-southeast of concrete storage pad.
X112	0" - 8"	Duplicate of X111
S101	Not App	Plant effluent as it entered the surface impoundment.
S102	Not App	Duplicate of S101
G201	Unknown	From tap at Precision Chrome facility.
G202	25'	Residential well located approx 1000' south of Precision Chrome.
G203	Unknown	Duplicate of G201.
G501	135'	Fox Lake public well 20006, approx 0 5 mile north of Precision Chrome.

PRECISION CHROME
ILD 089062871
SOIL SAMPLE SUMMARY

	X105 Background	X101	X102	X103	X104	X106	X107	X108	X109	X110	X111	X112 Dup. of X11
Volatiles (ug/kg)												
Methylene Chloride	--	--	--	--	--	--	--	--	--	17 J	54 J	--
Carbon Disulfide	--	--	6 J	--	--	--	--	--	--	--	--	--
2-Butanone	--	--	16	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	--	--	--	--	--	--	--	1300	2 J	--	--	--
Tetrachloroethene	--	--	--	--	--	--	10 J	51000	76 J	--	--	--
Xylene	--	1 J	--	--	--	--	--	--	--	--	--	--
Semi-Volatiles (ug/kg)												
Di-n-Butylphthalate	--	--	--	--	--	--	--	--	--	--	34 J	--
bis(2-Ethylhexyl)phthalate	--	--	--	--	--	--	--	--	32 J	--	--	--
Hexadecanoic Acid	100 JN	300 JN	500 JN	80 JN	80 JN	200 JN	--	--	100 JN	200 JN	200 JN	200 JN
Octadecanoic Acid	--	--	--	70 JN	--	--	--	--	4000 JN	--	--	--
Pesticides/PCBs (ug/kg)												
Dieldrin	--	--	--	--	--	--	--	--	3.4 J	2.5 J	2.5 J	2.5 J
4,4'-DDT	--	--	--	--	--	--	--	--	--	--	2.5 J	2.5 J
Aroclor-1260	--	--	--	--	--	--	--	--	--	38 J	--	--
Inorganics (mg/kg)												
Aluminum	4000	1880	4710	2530	2370	8920	2490	2900	14300	11100	13000	13800
Antimony	--	--	--	--	--	19.6 N	--	--	--	10.7 BNJ	--	--
Arsenic	3.3	1.7 B	0 25 B	2 1	1 6 B	4.8	2 2	1.8 B	5.4	4.3	7.4 SJ	4.7
Barium	18.6 B	9.2 B	28 7 B	20 1 B	11.7 B	72.8	15 B	11.8 B	117	91.6	120	116
Cadmium	--	--	--	--	--	--	--	1.2	--	1.1 B	--	--
Calcium	98100	66400	7850	63100	54300	36800	78400	76600	7790	18900	8150	8700
Chromium	7.1	525	1140	117	146	523	182	9.8	25.1	141	36 6	45
Cobalt	4 B	3.1 B	2 5 B	2.2 B	2.4 B	7.3 B	2 9 B	2.8 B	10.2 B	10.5 B	10.8 B	9.8 B
Copper	10.9	12.7	8.1	8.1	6	16.5	10 1	8	17.3	18.3	19.5	18.7
Iron	10700	7330	3710	6300	5230	18300	8130	6040	20800	18700	22900	22400
Lead	5.7	6.2	9 7	15.3	30 5	962	49 4	7.7 S	32.2	31.9	42.2	39.4
Magnesium	50900	33800	4560	28100	25700	17700	39900	39800	5220	9480	4890	5580
Manganese	380	218	37.4	229	169	562	264	200	721	725	849	767
Nickel	8.6 B	5.9 B	--	5.6 B	4.4 B	13.9	4.9 B	5.9 B	19.6	19.1	18.5	18 6
Potassium	826 B	441 B	530 B	477 B	361 B	1050	484 B	626 B	1650	1180	1240	1430
Sodium	162 B	120 B	--	102 B	111 B	121 B	128 B	155 B	224 B	92.5 B	134 B	126 B
Vanadium	16.3	--	--	9.7 B	7.2 B	19.5	7.7 B	10.3 B	34.1	26.7	31.5	33.3
Zinc	28.4	27.3	29.6	21 5	16.4	45.7	498	225	55.1	51.5	59.4	61.2
Sulfate	--	--	--	--	--	67.7	65.3	194	155	--	204	242
Sulfide	--	--	--	--	--	--	--	51.7	--	--	--	--

PRECISION CHROME
ILD089062871
GROUNDWATER SAMPLE SUMMARY

Parameter	G201 PC Drinking Well	G202 Residential Well	G203 Dup. of G201	G501 Public Well
Semi-Volatiles (ug/l)				
bis(2-Ethylhexyl)phthalate	--	--	0.7 J	--
Inorganics (ug/l)				
Barium	46.5 B	46.6 B	44.4 B	44.8 B
Calcium	80800	77000	78900	66300
Copper	5.8 B	--	6.4 B	--
Iron	1040	2220	1090	321
Lead	7.1 N*J	1.3 BWN*J	1.2 BNJ*	--
Magnesium	44600	40500	43800	--
Manganese	30.7	36.6	29.1	--
Potassium	1690 B	--	1530 B	809 B
Sodium	7410	3040 B	7270	7070
Zinc	48.6	--	91.1	--
Sulfate	14.6 mg/l	26.8 mg/l	76.8mg/l	13.6mg/l

PRECISION CHROME
ILD 089062871
SURFACE WATER SAMPLE SUMMARY

Parameter	S101	S102 Dup. of S101
Volatiles (ug/l)		
Benzene	1 J	--
Toluene	1 J	--
Semi-Volatiles (ug/l)		
Butylbenzylphthalate	--	0.8 J
bis(2-Ethylhexyl)phthalate	--	3 J
Inorganics (ug/l)		
Barium	31.1	31.4 B
Calcium	84300	86500
Chromium	792	812
Magnesium	44400	45700
Manganese	20.1	20.5
Potassium	1490 B	1640 B
Sodium	7170	7280
Sulfate	73.2 mg/l	66 mg/l

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Date: 5/7/93

Subject: Review of CLP Data

From: Ron Turpin
Contract Laboratories Administrator
Division of Laboratories

To: Data User: Kim Nika

The Quality Assurance Section has reviewed the following data package(s):

SITE NAME: Precision Chrome

CASE/SDG No.: 92106952

Date(s) Received for Review: 28-Dec-92

No. of Samples: 16 water, 12 soil, 1 trip blk.

Laboratory(s): Weston/Gulf Coast

Hours Used for Review: 25 + 130 = 155 hrs.

Reviewer(s): Alicia Mudd
Chris Bridges

The following narrative represents our findings:

The results are valid as qualified on the enclosed Forms 1.

- ☐ Data are acceptable for use.
- ☒ Data are acceptable for use with qualifications noted above.
- ☐ Data are preliminary - pending verification by laboratory.
- ☐ Data are unacceptable.

cc: Karl Reed

Tom Crause

IEPA DIVISION of LABORATORIES
QUALITY ASSURANCE SECTION
--
INORGANIC DATA VALIDATION
CHECKLIST

Site: Precision Chrome
Laboratory: Weston-Gulf Coast
SDG: CLP 952
Analytical Protocol: ILM01.0
Date: January 6, 1993
Reviewer: Chris Bridges
Reviewer Signature: Chris Bridges

I. PRELIMINARY REVIEW

Number Aqueous Samples: 6 Analytes: Trace Metals, Hg, CN, Sulfate, Sulfide
Number Solid/Soil Samples: 12 Analytes: Trace Metals, Hg, CN, Sulfate, Sulfide

	YES	NO	N/A
A. **Chain-of-Custody(ies)**--Present?	X		
Signed?	X		
Dated?	X		
B. **Cover Page**--Present?	X		
Do sample numbers on cover page agree with sample numbers on:			
(a) Chain-of-Custody?	X		
(b) Form 1s?	X		
C. **Form 1** (Final Data)			
Are all Form 1s present and complete?	X		
Are correct units indicated on Form 1s (ug/l-waters & mg/kg-soils)	X		
Are soil sample results corrected for percent solids (dry weight)?	X		
Are sample results < IDL reported as the IDL (U)?	X		

ACTIONS: NONE

II. HOLDING TIMES & PRESERVATION

Mercury (28 Days)	pH < 2	exceeded?		X	
Cyanide (14 Days)	pH > 12	exceeded?		X	
other Metals (6 months)	pH < 2	exceeded?		X	

ACTIONS: NONE

III. CALIBRATIONS

		YES	NO	N/A
A. Initial Calibration Procedures:				
Are acceptable 2 point calibrations present for:	ICP?	X		
Are acceptable 4 point calibrations present for:	AA?	X		
Correlation Coefficient > 0.995?		X		
	Cyanide?	X		
Correlation Coefficient > 0.995?		X		
Mid-Range standard distilled?		X		
Are acceptable 4 point calibrations present for:	Mercury?	X		
Correlation Coefficient > 0.995?		X		
Are acceptable calibrations present for other parameters?		X		

ACTIONS: NONE

B. Initial and Continuing Calibration Verification:			
All necessary Form 2s present and complete?	X		
ICVs and CCVs analyzed at the correct frequency?	X		
Are results reported in the correct units (ug/l)?	X		
All calibration verification % Recoveries meet criteria?	X		

ACTIONS: (Analyte, % Recovery, Sample(s) affected and Qualifications)

NONE

IV. BLANKS:

	YES	NO	N/A
All necessary Form 3s present and complete?	X		
A. Initial and Continuing Calibration Blanks			
Analyzed at correct frequency?	X		
Are results reported in the correct units (ug/l)?	X		
Were all transcription errors corrected?			X
All ICBs and CCBs meet no contamination criteria?		X	

ACTIONS: (ICB or CCB/IDL) Sample(s) affected, qualifications

Al (45.6) S101 and S102 are qualified (U)

Be (1.1, 1.8) X101, X102, X103, X104, X105, X106, X107, X108, X109, X110, X111, X112, G201, G202, G203, G501, S101, S102 are qualified (U)

Cd (4.6) X101, X102, X103, X104, X106, X107 are qualified (U)

Mn (2.3) G501 is qualified (U)

V (4.8) X101, X102 are qualified (U)

Zn (4.6) S101, S102 are qualified (U)

Pb (-1.1) G203, G501, S101, S102 are qualified as estimated (J)

As (-1.2) G201, G202, G203, G501, S101, S102 are qualified as estimated (J)

Se (-2.3) X101, X102, X103, X104, X105, X106, X107, X108, X109, X110, X111, X112 are qualified as estimated (J)

Tl (-2.1, -1.9) G201, G202, G203, X106, X107, X108, X109, X110, X111, X112 are qualified as estimated (J)

Contamination noted in Ba, Ca, Fe, Mg, Ag, and Na however, no data affected

B. Preparation Blanks

	YES	NO	N/A
Was one preparation blank prepared for:			
each 20 samples?	X		
each batch?	X		
each matrix type?	X		
Were prep blanks analyzed at the correct frequency?	X		
Were prep blanks reported in the correct concentration units?	X		
Were all transcription errors corrected?			X
All prep blanks meet no contamination criteria?	X		

ACTIONS: (Analyte, (PB/IDL), Sample(s) affected, Qualifications)

Fe (33.6) S101, S102 are qualified (U)

Ag (1.86) X101, X102, X103, X104, X105, X106, X107, X108, X109, X110, X111, X112 are qualified (U)

Na (13.22) X102 is qualified (U)

As (-0.2) X102 is qualified as estimated (J)

Mn (2.5) G501 is qualified as estimated (J)

Zn (6.7) G202, G501, S101, S102 are qualified (U)

Tl (-2.1) G201, G202, G203, G501, S101, S102 are qualified as estimated (J)

Ca and Ba; contamination noted however no data was affected

V. ICP INTERFERENCE CHECK SAMPLE:

	YES	NO	N/A
Form 4 present and complete?	X		
Were ICS ran at the correct frequency?	X		
Were all transcription errors corrected?			X
All % Recoveries of ICSAB Solution +/- 20 % of True Value?	X		
For elements not present in ICSA, is the absolute value of the ICSA result greater than the IDL?	X		

ACTIONS: (Analyte, % Recovery, Sample(s) affected, Qualifications)

Cd, Cr, Ag, Mn, Na, and Zn; all results greater than respective IDLs however no data is affected

VI. SPIKE SAMPLE RECOVERY:

		YES	NO	N/A
Form 5 present and complete for:	each 20 samples?	X		
	each matrix type?	X		
Were all transcription errors corrected?				X
Were field blanks used for spike sample analysis?			X	
Were all Matrix Spike % Recoveries within criteria?			X	

ACTIONS: (Analyte, % Recovery, Sample(s) affected, Qualifications)

Sb (57.5) X101, X102, X103, X104, X105, X107, X108, X109, X111, X112 are qualified as estimated (UJ); X106, and X110 are qualified as estimated (J)

Pb (69.5) G201, G202, G203 are qualified as estimated (J); G501, S101, S102 are qualified as estimated (UJ)

Hg (67.9) G201, G202, G203, G501, S101, S102 are qualified as estimated (UJ)

VII. DUPLICATE SAMPLE ANALYSIS:

		YES	NO	N/A
Form 6 present and complete for:	each 20 samples?	X		
	each matrix type?	X		
Were all transcription errors corrected?		X		
Were field blanks used for duplicate analysis?			X	
For both AA and ICP when both are used for the same analyte?		X		
Were all duplicate analyses differences within criteria?		X		

ACTIONS: (Element, Differences, Sample(s) affected, Qualifications)

NONE

VIII. LABORATORY CONTROL SAMPLE:
(Note: LCS not required for aqueous Hg.)

	YES	NO	N/A
Form 7 Present and Complete?	X		
Was one LCS prepared and analyzed for:			
every 20 or fewer water samples?	X		
every digestion batch of water samples?	X		
every 20 or fewer solid samples?	X		
every digestion batch of solid samples?	X		
Were all transcription errors corrected?			X
Were all of the Aqueous LCS % Recoveries within criteria?	X		
Were all of the Solid LCS % Recoveries within criteria?	X		

ACTIONS: (Element, % Recovery, Sample(s) affected, Qualifications)

NONE

IX. FURNACE ATOMIC ABSORPTION (AA) QC:

	YES	NO	N/A
Did the laboratory utilize duplicate injections for all non-MSA analyses?	X		
Does the GFAA fow chart appear to have been followed for all analyses?	X		
Did the laboratory properly flag the GFAA results on the Form 1s?	X		

ACTIONS: (Analyte, Sample(s) affected, Qualifications)

As; sample X111 was analyzed by MSA and the sample concentration was out of range, sample X111 is qualified as estimated (J)

All results flagged "W", "+" , or "E" by the laboratory are qualified as estimated (J)

X. ICP SERIAL DILUTION:

	YES	NO	N/A
Form 9 present and complete?	X		
Was Serial Dilution analysis performed for:			
each 20 or fewer samples?	X		
each matrix type?	X		
Were all transcription errors corrected?			X
Were all serial dilution results within criteria?	X		
Were field blanks used for serial dilution analysis?		X	

ACTIONS: (Analyte, Sample(s) affected, Qualifications)

NONE

XI. RAW DATA:

	YES	NO	N/A
Digestion Log for flame AA/ICP present?	X		
Digestion Log for furnace AA present?	X		
Digestion Log for mercury present?	X		
Digestion Log for cyanide present?	X		
Inventory Sheet Present?	X		
Weights, dilutions, and volumes used to obtain values present?	X		
Percent solids calculation present for soils (sediments)?	X		
Are preparation dates present on Digestion Logs?	X		
Are standards preparation logs present and dated?	X		
Measurement read out records present for:			
ICP?	X		
Flame AA?			X
Furnace AA?	X		
Mercury?	X		
Cyanide?	X		
other Inorganics?	X		
Are all results with the ICP linear ranges?	X		
Are all raw data to support all sample analyses an QC operations present?	X		
Legible?	X		
Properly labeled?	X		

ACTIONS:

There is a discrepancy in the Chain of Custody for sample X112. The Chain of Custody does not have a sample date, however, we can determine the correct sample date by comparing dates of other samples in the same SDG so no data is affected.

Data Validation Checklist
Site Name: Precision Chrome
SDG
No.: 9210G952
Laboratory: Weston - Gulf Coast
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PRELIMINARY REVIEW

1. *Chain-of-Custody*

	YES	NO	
a.	[X]	[ ]	Check chain-of-custody documentation for date/time sampled, date/time received in laboratory.
b.	[X]	[ ]	Check chain-of-custody documentation for proper documentation of transfers and signoffs.
c.	[X]	[ ]	Check chain-of-custody documentation for any inconsistencies or anomalies.

Comments: None

2. *Case Narrative*

	YES	NO	
a.	[X]	[ ]	Review entire case narrative.
b.	[X]	[ ]	Check case narrative for completeness.
c.	[X]	[ ]	Check for proper authorization signature.

Comments: None. I added comment to Case Narrative section concerning page numbering in VOA section. This was due to corrections sent by the lab.

Data Validation Checklist
Site Name: Precision Chrome
SDG No.: 9210G952
Laboratory: Weston/Gulf Coast
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I. Holding Times

YES NO
[X] [ ] Check that all technical and/or contractual holding times were met, as required, for all fractions.

EPA Number	Lab Number	Date Coll.	Date Rec'd.	VOA Date Anal.	Semi-VOA Date Extr	Semi-VOA Date Anal.	Pesticide Date Extr	Pesticide Date Anal.
Trip Blk.	-001	10/27/92	10/28/92	11/7/92	NA	NA	NA	NA
X101	-002	10/27		11/5	11/5/92	11/25/92	11/5/92	11/28/92
X102	-003	10/27		11/5		11/25		11/29
X103	-004	10/27		11/5		11/25		
X104	-005	10/27		11/5		11/25		
X105	-006	10/27		11/5		11/25		
X106	-007	10/28		11/5		11/25		
X107	-008	10/28		11/5		12/2		
X108	-009	10/28		11/5		11/25		
X109	-010	10/28		11/5		11/27		
X110	-011	10/28		11/6		11/27		
X111	-012	10/28		11/6		11/27		
X112	-013	10/28		11/5		11/27		
G201	-014	10/27		11/7	10/29	11/27	11/1	11/17
G202	-015	10/27		11/7	10/29	11/27		
G203	-016	10/28		11/7	10/29	11/27		
G501	-017	10/27		11/7	10/29	11/27		
S101	-018	10/27		11/8	10/29	11/27		
S102	-019	10/27		11/8	10/29	11/27		
X108DL	-009DL			11/6	NA	NA	NA	NA
X108RE	-009RE			NA	12/7	12/11	NA	NA
X109RE	-010RE			11/6	NA	NA	NA	NA
X110RE	-011RE			NA	12/7	12/11	NA	NA

List below all samples (by sample number and fraction) qualified due to holding times.

Volatiles: S101 + S102 analyzed 11 days from VTSR exceeds contractual holding time of 10 days. No data qualification required.

Semivolatiles: X108RE + X110RE extracted 40 days from VTSR exceeds contractual holding time of 10 days. No data qualification required.

Data Validation Checklist
Site Name: PrecisionChrome
SDG No.: 92106-952
Laboratory: Weston · Gulf Coast
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II. GC/MS Instrument Performance Check

Fraction: (VOA) SemiVOA (*circle one*)

1. Evaluate Forms V and Raw Data

	YES	NO	
a.	[X]	[ ]	Check that Forms V are present and completed for each 12 hour time period.
b.	[X]	[ ]	Check for transcription errors between raw data and Forms V.
c.	[X]	[ ]	Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred.
d.	[X]	[ ]	Check for calculation errors.

2. Verify Raw Data Format

YES	NO	
[X]	[ ]	Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA).

3. Verify Ion Abundance Criteria

YES	NO	
[X]	[ ]	Check that all ion abundance criteria has been met.

4. Verify Background Correction

YES	NO	
[X]	[ ]	Check that tuning compound spectra were generated using appropriate background correction.

Comments: None.

Data Validation Checklist
Site Name: Precision Chrome
SDG
No.: 92106-952
Laboratory: Weston - Gulf Coast
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III. Initial Calibration

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Verify that the Correct Standard Concentrations Were Used.***

YES	NO	
[X]	[ ]	Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s).

2. ***Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.***

YES	NO	N/A	
[X]	[ ]	[ ]	Check that initial calibrations were performed as required for water/med. level soil and low level soil.

3. ***Verify Use of Correct Standards.***

YES	NO	N/A	
[X]	[ ]	[ ]	Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration.

4. ***Evaluate Initial Calibration*** RRFs ***and*** $\overline{\text{RRF}}$s.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form.

5. ***Evaluate Initial Calibration %RSDs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *%RSD* for several target compounds.
b.	[X]	[ ]	Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form.

Comments: None.

IV. Continuing Calibration

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Verify Continuing Calibration Frequency.***

YES	NO	
[X]	[ ]	Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration.

2. ***Evaluate Continuing Calibration RRFs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *RRFs* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *RRFs* meet the criteria.

3. ***Evaluate Continuing Calibration %Ds.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *%Ds* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *%Ds* meet the applicable criteria.

Comments: None.

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: Weston - Gulf Coast

Case: Precision Chrome 9210G452

Instrument # GC #2	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME.	RRF	11/7/92 1605			11/7/92 1605											
nonheated		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0 010															
Bromomethane	0 100															
Vinyl Chloride	0 100															
Chloroethane	0 010															
Methylene Chloride	0 010															
Acetone	0 010		33 6	J												
Carbon Disulfide	0 010															
1,1-Dichloroethene	0 100															
1,1-Dichloroethane	0 200															
1,2-Dichloroethene (total)	0 010															
Chloroform	0 200															
1,2-Dichloroethane	0 100															
2-Butanone	0 010															
1,1,1-Trichloroethane	0 100															
Carbon Tetrachloride	0 100															
Bromodichloromethane	0 200															
1,2-Dichloropropane	0 010															
cis-1,3-Dichloropropene	0 200															
Trichloroethene	0 300															
Dibromochloromethane	0 100															
1,1,2-Trichloroethane	0 100															
Benzene	0 500															
trans-1,3-Dichloropropene	0 100															
Bromoform	0 100															
4-Methyl-2-Pentanone	0 010															
2-Hexanone	0 010															
Tetrachloroethene	0 200															
1,1,2,2-Tetrachloroethane	0 500															
Toluene	0 400															
Chlorobenzene	0 500															
Ethylbenzene	0 100															
Styrene	0 300															
Xylene(total)	0 300															
Bromofluorobenzene	0 300															

AFFECTED SAMPLES:

308-M131
G201
G202
G203
TB
G501
S101
S102

Reviewer's Initials/Date Gm 1/7/93

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: Weston/Gulf Coast Case: Precision Chrome 92106952

Instrument # GCL2 DATE/TIME. heated purge	Minimum RRF	Initial Cal. 10/30/92 2230			Contin. Cal. 11/5/92 1351			Contin. Cal. 11/6/92 0447			Contin. Cal.			Contin. Cal.		
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010															
Bromomethane	0.100															
Vinyl Chloride	0.100		43.9	J												
Chloroethane	0.010															
Methylene Chloride	0.010															
Acetone	0.010		49.5	J												
Carbon Disulfide	0.010															
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010		31.2	J					25.1	J						
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.500															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene(total)	0.300															
Bromofluorobenzene	0.300															

AFFECTED SAMPLES.

		306-MB1	307-MB1			
		X101	X111			
		X102	X109RE			
		X103	X108DL			
		X104	X110			
		X105				
		X106				
		X107				
		X109				
		X112				
		X112MS				
		X112MSD				

Reviewer's initials/Date: AW 3/29/93

Q - This column of flags should be applied to the analytes on the sample data sheets.

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: Weston/Gulf Coast

Case: Precision Chrome 92106-952

Instrument # GCL 2	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin Cal.			Contin. Cal.		
DATE/TIME.	RRF	11/16/92 1924			11/17/92 0825											
nonheated		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0 010															
Bromomethane	0 100		39 7	J												
Vinyl Chloride	0.100															
Chloroethane	0 010															
Methylene Chloride	0 010															
Acetone	0 010		48 9	J												
Carbon Disulfide	0 010															
1,1-Dichloroethene	0 100															
1,1-Dichloroethane	0 200															
1,2-Dichloroethene (total)	0 010															
Chloroform	0 200															
1,2-Dichloroethane	0 100															
2-Butanone	0 010															
1,1,1-Trichloroethane	0 100															
Carbon Tetrachloride	0 100															
Bromodichloromethane	0 200															
1,2-Dichloropropane	0 010															
cis-1,3-Dichloropropene	0 200															
Trichloroethene	0 300															
Dibromochloromethane	0 100															
1,1,2-Trichloroethane	0 100															
Benzene	0 500															
trans-1,3-Dichloropropene	0 100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0 010															
2-Hexanone	0 010															
Tetrachloroethene	0 200															
1,1,2,2-Tetrachloroethane	0 500															
Toluene	0 400															
Chlorobenzene	0 500															
Ethylbenzene	0 100															
Styrene	0.300															
Xylene(total)	0 300															
Bromofluorobenzene	0 300															

AFFECTED SAMPLES:

321-MB1
S101MS
S101MSD

Reviewer's Initials/Date am 3/29/93

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

V. Blanks

Fraction: (VOA) SemiVOA Pest. (*circle one*)

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks and associated samples below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	MB-308		MB-306		MB-307		MB-321	
Date Anal. or Extr.	11/7/92		11/5/92		11/6/92		11/17/92	
Instrument	GCL#2		GCL#2		GCL#2		GCL#2	
TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
$MeCl_2$	1	$MeCl_2$	3	Acetone	24	$MeCl_2$	3
Acetone	20	Acetone	7			Acetone	17

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount

Data Validation Checklist
Site Name: Precision Chrome
SDG
No.: 92106-952
Laboratory: Weston / Gulf Coast
Page 10 of 43

VI. Surrogate Spikes

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Review Raw Data.***

YES	NO	
[X]	[ ]	Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES	NO	
[X]	[ ]	Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Surrogate Recoveries.***

	YES	NO	
a.	[X]	[ ]	Check that reanalyses were performed as required.
b.	[X]	[ ]	Check that surrogate recoveries in blanks met criteria.

4. ***Evaluate Reanalyses.***

YES	NO	
[ ]	[ ]	Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.

Comments:
4) Samples X106, X107, X109, X110, X111, & MB-307 should have been reanalyzed due to internal std areas out. Sample X109 was the only sample reanalyzed. Use X109 instead of X109RE.

VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: (VOA) SemiVOA Pesticide (*circle one*)

1. ***Verify Frequency***

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD Criteria.***

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. ***Verify MS/MSD Calculations.***

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

	Compound	Orig. Result	MS Result	MSD Result	%RSD
X112	Methylene Chloride	3	3	3	0%
	Acetone	28	46	9	67%
S101	Methylene Chloride	1	U	U	—
	Acetone	11	13	15	15%

Comments: None

VIII. Laboratory Control Samples

N/A

IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

N/A

X. Internal Standards

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Evaluate Raw Data.***

YES	NO	
[X]	[ ]	Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

2. ***Verify RT and IS Area Criteria.***

YES	NO	
[X]	[ ]	Check that retention times and internal standard area meet the appropriate criteria.

3. ***Evaluate Reanalyses.***

YES	NO	
[ ]	[ ]	Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.

Comments:

- X106 all three internal standards low areas
- X107 all three internal standards low areas
- X109 Chlorobenzene-d5 low area
- X112 Chlorobenzene-d5 low area
- X112MS/MSD all int stds low areas
- X109RE all three internal standards low areas
- X110 all three internal standards low areas
- X111 all three internal standards low areas
- MB-307 all three internal standards low areas

XI. Target Compound Identification

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Verify Relative Retention Time (RRT) Criteria.***

YES	NO	
[X]	[ ]	Check that the RRT of reported compounds is within the criteria.

2. ***Evaluate Target Compound Spectra.***

YES	NO	
[X]	[ ]	Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met.

3. ***Evaluate Possible Carryover.***

YES	NO	
[X]	[ ]	Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results.

4. ***Evaluate Chromatograms.***

YES	NO	
[X]	[ ]	Check the sample chromatograms to verify that peaks are accounted for.

Comments: None.

XII. Compound Quantitation and Reported CRQLs

Fraction: (VOA) SemiVOA Pesticide (*circle one*)

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[X]	[ ]	[ ]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments: None

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Evaluate Tentative Identifications.***

   YES NO
   [ ] [ ] Check that all TICs reported meet the identification guidelines.
   NA

2. ***Evaluate Raw Data.***

   YES NO
   [X] [ ] Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. ***Evaluate Blanks.***

   YES NO
   [ ] [ ] Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.
   NA

4. ***Examine Mass Spectra.***

   YES NO
   [X] [ ] Check all mass spectra for every sample.

5. ***Evaluate TIC Identifications.***

   YES NO
   [ ] [ ] Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.
   NA

6. ***Evaluate Laboratory Artifacts and Contaminants.***

   YES NO
   [X] [ ] Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. Evaluate Possibility of False Negatives.

	YES	NO	N/A	
a.	[ ]	[ ]	[X]	Check to determine if target compounds have been identified and quantitated as TICs.
b.	[ ]	[ ]	[X]	If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below.

8. Determine That Results Are From Proper Fraction.

YES	NO	N/A	
[ ]	[ ]	[X]	Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction.

9. Verify That Internal Standards And Surrogates Are Not Searched.

YES	NO	
[X]	[ ]	Check that library searches were not performed on internal standards or surrogates.

10. Verify Estimated Quantitation of TICs.

YES	NO	
[ ] NA	[ ]	Check that the estimated concentration of the TICs was made using an assumed *RRF* of one.

Comments: No TICs detected in VOA samples.

XIV. GC/MS System Performance

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Evaluate Overall System Performance.***

	YES	NO	
a.	[X]	[ ]	Check for high RIC background levels or shifts in absolute retention times of internal standards.
b.	[X]	[ ]	Check for excessive baseline rise at elevated temperature.
c.	[X]	[ ]	Check for extraneous peaks.
d.	[X]	[ ]	Check for loss of resolution.
e.	[X]	[ ]	Check for peak tailing or peak splitting that may result in inaccurate quantitation.

Comments: None

Data Validation Checklist
Site Name: Precision Chrome
SDG No.: 92106952
Laboratory: Weston/Gulf Coast
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II. GC/MS Instrument Performance Check

Fraction: VOA SemiVOA (*circle one*)

1. Evaluate Forms V and Raw Data

	YES	NO	
a.	[X]	[ ]	Check that Forms V are present and completed for each 12 hour time period.
b.	[X]	[ ]	Check for transcription errors between raw data and Forms V.
c.	[X]	[ ]	Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred.
d.	[X]	[ ]	Check for calculation errors.

2. Verify Raw Data Format

YES	NO	
[X]	[ ]	Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA).

3. Verify Ion Abundance Criteria

YES	NO	
[X]	[ ]	Check that all ion abundance criteria has been met.

4. Verify Background Correction

YES	NO	
[X]	[ ]	Check that tuning compound spectra were generated using appropriate background correction.

Comments: None.

Data Validation Checklist
Site Name: Precision Chrome
SDG
No.: 92106952
Laboratory: Weston/Gulf Coast
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III. Initial Calibration

GC/MS

Fraction: VOA SemiVOA (circle one)

1. ***Verify that the Correct Standard Concentrations Were Used.***

YES	NO	
[X]	[ ]	Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s).

2. ***Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that initial calibrations were performed as required for water/med. level soil and low level soil.

3. ***Verify Use of Correct Standards.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration.

4. ***Evaluate Initial Calibration*** RRFs ***and*** $\overline{\text{RRF}}$s.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form.

5. ***Evaluate Initial Calibration %RSDs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *%RSD* for several target compounds.
b.	[X]	[ ]	Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form.

Comments: None

IV. Continuing Calibration

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

1. ***Verify Continuing Calibration Frequency.***

YES	NO	
[X]	[ ]	Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration.

2. ***Evaluate Continuing Calibration RRFs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *RRFs* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *RRFs* meet the criteria.

3. ***Evaluate Continuing Calibration %Ds.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *%Ds* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *%Ds* meet the applicable criteria.

Comments: None.

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: Weston/Gulf Coast

Case: Precision Chrome 92106952

Instrument # GCL 4	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME.	RRF	10/24/92 1147			11/25/92 0905			11/27/92 1053								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2' oxybis(1-Chloropropanol)	0.010															
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200	See next page			See next page											
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010															
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010															
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

MB-547	MB-534
X101	X109
X102	X110
X103	X111
X103MS	X112
X103MSD	G202
X104	G203
X105	G501
X106	S101
X108	S102
	G201
	G201MS
	G201MSD

Reviewer's Initials/Date 3/23/93

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: Weston/Gulf Coast

Case: Precision Chrome 9210G952

Instrument # GCL 4	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	10/24/92 1147			11/25/92 0905			11/27/92 1053								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010															
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010															
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010															
Benzo(a)anthracene	0.800															
Chrysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010															
Di-n-octylphthalate	0.010															
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500					27.6	J									
Dibenz(a,h)anthracene	0.400					38.8	J									
Benzo(g,h,i)perylene	0.500		30.7	J		41.3	J									
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	0.700															
Terphenyl-d14	0.500															
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															
2,4,6-Tribromophenol						29.2			26.6							

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's Initials/Date Am 3/23/93

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: Weston / Gulf Coast

Case: Precision Chrome 92106952

Instrument # GCL 1	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME.	RRF	11/1/92 1048			12/2/92 1539			12/11/92 1333								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2' oxybis(1-Chloropropanol)	0.010															
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200							See next page								
Naphthalene	0.700															
4-Chloroaniline	0.010															
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010					2.78	J									
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010					3.74	J									
4-Nitrophenol	0.010					3.06	J									
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES.

X107	MB-607
	X108RE
	X110RE

Reviewer's Initials/Date: CM 3/23/93

3/92

2 - This column of flags should be applied to the analytes on the sample data sheets.

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: Weston/Gulf Coast

Case: Precision Chrome 9210G952

Instrument # GCL 1	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	11/1/92 1048			12/2/92 1539			12/11/92 1333								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010					32.5	J									
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010															
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050								30.8	J						
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010					28.2	J									
Benzo(a)anthracene	0.800															
Chrysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010															
Di-n-octylphthalate	0.010															
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400					25.4	J									
Benzo(g,h,i)perylene	0.500								29.2	J						
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	0.700															
Terphenyl-d14	0.500															
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															
2,4,6-Tribromophenol									26.5							

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's Initials/Date

3/23/93

Data Validation Checklist
Site Name: Precision Chrome
SDG No.: 4210G952
Laboratory: Weston/Gulf Coast
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V. Blanks

Fraction: VOA (SemiVOA) Pest. (*circle one*)

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks and associated samples below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	MB-534	MB-547	MB-607	
Date Anal. or Extr.	10/29/92	11/5/92	12/7/92	
Instrument	GCL 4	GCL 4	GCL 1	

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
		Di-n-But	49	Di-n-But	160		
		Pyrene	19	bis(2-Eth	76		
		bis(2-Eth	72				

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
		UNK RT 3.16	90	UNK C7H14 3.77	300		
		UNK RT 4.54	8000	UNK 4.24	1000		
		Phthalate 23.19	400	UNK 4.49	30,000		
		Hex Acid Ester 30.32	100	UNK 6.83	800		
		UNK RT 34.28	400	UNK 7.66	400		
		UNK RT 34.59	90	UNK 20.07	90		
		UNK RT 44.02	100	UNK 20.40	200		
				UNK 20.58	80		
				UNK ALKANE 22.61	200		

Data Validation Checklist
Site Name: Precision Chrome
SDG No.: 9210G952
Laboratory: Weston/Gulf Coast
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VI. Surrogate Spikes

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

1. Review Raw Data.

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. Evaluate Surrogate Recovery Calculations.

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 Evaluate Surrogate Recoveries.

YES NO
a. [X] [ ] Check that reanalyses were performed as required.

b. [X] [ ] Check that surrogate recoveries in blanks met criteria.

4. Evaluate Reanalyses.

YES NO
[ ] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.

Comments:
1) X108 - All but one surrogate low %R (7 of 8)
X110 - All surrogates low %R

4) Samples X102, X106 & X107 should have been reanalyzed due to internal std areas outside limits, but were not reanalyzed.

Use X108RE instead of X108.
X110RE instead of X110.

Data Validation Checklist
Site Name: Precision Chrome
SDG
No.: 92106952
Laboratory: Weston / Gulf Coast
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VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA (SemiVOA) Pesticide (*circle one*)

1. ***Verify Frequency***

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD (***

YES NO
[ ] [ ] Ch and *RPD* are within the advisory lin

Water MS/MSDs off-my calc are ½ of labs. (I get 43.3, lab gets 86.6

3. ***Verify MS/MSD Calc***

YES NO
a. [ ] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [ ] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

Compound	Orig. Result	MS Result	MSD Result	%RSD
G201 No non-spiked compounds detected				
X103				
Di-n-Butylphthalate	65	58	48	15%
bis(2-Ethylhexyl)phthalate	95	71	66	20%

Comments:
2) G201 MS 4-Nitrophenol + Pentachlorophenol high %R
G201 MSD 4 Nitrophenol high %R

Data Validation Checklist
Site Name: Precision Chrome
SDG
No.: 92106-452
Laboratory: Weston / Gulf Coast
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X. Internal Standards

GC/MS

Fraction: VOA (SemiVOA) (*circle one*)

1. ***Evaluate Raw Data.***

YES NO
[X] [ ] Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

2. ***Verify RT and IS Area Criteria.***

YES NO
[X] [ ] Check that retention times and internal standard area meet the appropriate criteria.

3. ***Evaluate Reanalyses.***

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.

Comments:
2) - X102 - Perylene d12 area low
- X106 Perylene d12 area low
- X108 Chrysene d12 + Perylene d12 areas low
- X107 Chrysene d12 + Perylene d12 areas low
- X110RE Acenaphthene d10 + Phenanthrene d10 areas low
- X108RE Phenanthrene d10 + Chrysene d12 areas low
+ Perylene d12 area low
- MB-607 - Perylene d12 area low

XI. Target Compound Identification

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Verify Relative Retention Time (RRT) Criteria.***

YES NO
[X] [ ] Check that the RRT of reported compounds is within the criteria.

2. ***Evaluate Target Compound Spectra.***

YES NO
[X] [ ] Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met.

3. ***Evaluate Possible Carryover.***

YES NO
[X] [ ] Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results.

4. ***Evaluate Chromatograms.***

YES NO
[X] [ ] Check the sample chromatograms to verify that peaks are accounted for.

Comments: None.

XII. Compound Quantitation and Reported CRQLs

Fraction: VOA (SemiVOA) Pesticide (*circle one*)

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[X]	[ ]	[ ]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments: None

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: VOA (SemiVOA) *(circle one)*

1. Evaluate Tentative Identifications.

YES NO
[X] [ ] Check that all TICs reported meet the identification guidelines.

2. Evaluate Raw Data.

YES NO
[X] [ ] Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. Evaluate Blanks.

YES NO
[X] [ ] Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.

4. Examine Mass Spectra.

YES NO
[X] [ ] Check all mass spectra for every sample.

5. Evaluate TIC Identifications.

YES NO
[X] [ ] Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.

6. Evaluate Laboratory Artifacts and Contaminants.

YES NO
[X] [ ] Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. ***Evaluate Possibility of False Negatives.***

	YES	NO	N/A	
a.	[X]	[ ]	[ ]	Check to determine if target compounds have been identified and quantitated as TICs.
b.	[ ]	[ ]	[X]	If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below.

8. ***Determine That Results Are From Proper Fraction.***

YES	NO	N/A	
[ ]	[ ]	[X]	Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction.

9. ***Verify That Internal Standards And Surrogates Are Not Searched.***

YES	NO	
[X]	[ ]	Check that library searches were not performed on internal standards or surrogates.

10. ***Verify Estimated Quantitation of TICs.***

YES	NO	
[X]	[ ]	Check that the estimated concentration of the TICs was made using an assumed *RRF* of one.

Comments: None

XIV. GC/MS System Performance

Fraction: VOA (SemiVOA) *(circle one)*

1. Evaluate Overall System Performance.

	YES	NO	
a.	[X]	[ ]	Check for high RIC background levels or shifts in absolute retention times of internal standards.
b.	[X]	[ ]	Check for excessive baseline rise at elevated temperature.
c.	[X]	[ ]	Check for extraneous peaks.
d.	[X]	[ ]	Check for loss of resolution.
e.	[X]	[ ]	Check for peak tailing or peak splitting that may result in inaccurate quantitation.

Comments: None.

II. Pesticide Instrument Performance

2/88 SOW

1. DDT Retention Time

	YES	NO	
a.	[X]	[ ]	Check raw data to verify that DDT retention time is greater than 12 minutes

2. Retention Time Windows

	YES	NO	
a.	[X]	[ ]	Check that the laboratory reported retention time window data on the Pesticide/PCB Standards Summary (Form IX) for each GC column used to analyze samples.
b.	[X]	[ ]	Check that all pesticide standards are within the established retention time windows.
c.	[X]	[ ]	Check the headers on all Forms IX to verify consistency with Form VIII PEST.-2 and raw data.

2. DDT/Endrin Degradation Check

	YES	NO	
a.	[X]	[ ]	Check raw data to verify that the percent breakdown for endrin and 4,4'-DDT, or the combined percent breakdown, does not exceed 20% in all Evaluation Standard Mix B analyses on the Form VIII PEST.-1.
b.	[X]	[ ]	Check raw data to verify that the percent difference in retention time for dibutylchlorendate in all standards and samples is $\leq$ 2.0% for packed column analysis, $\leq$ 0.3% for capillary column analysis, and $\leq$ 1.5% for wide-bore capillary analysis on the Form VIII PEST.-2.

Comments: None.

Data Validation Checklist
Site Name: Precision Chrome
SDG
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III. CALIBRATION

2/88 SOW

1. ***Initial Calibration Linearity Check***

	YES	NO	
a.	[X]	[ ]	Inspect the Pesticide Evaluation Standards Summary (Form VIII PEST.-1 and verify agreement with the raw data (chromatograms and data system printouts).
b.	[X]	[ ]	Check the raw data and recalculate some of the calibration factors and the percent relative standard deviation (%RSD) for aldrin, endrin, 4,4'-DDT and DBC. Inspect that the %RSD of the calibration factors is within limits.

2. ***Analytical Sequence***

	YES	NO	
a.	[X]	[ ]	Check that at the beginning of each 72-hour period all standards are analyzed.
b.	[X]	[ ]	Check that Evaluation Standard Mixes A, B, and C are analyzed on the confirmation analysis.
c.	[X]	[ ]	Check that the standards containing the compounds of interest are ran at least every five samples.
d.	[X]	[ ]	Check that the Evaluation Mix B is ran at least after every ten samples.

3. ***Continuing Calibration***

	YES	NO	
a.	[X]	[ ]	Check that the calibration factor for each standard on Form IX PEST is within 15% of the standard at the beginning of the analytical sequence on quantitation columns. (20% on confirmation columns)

Comments:
1b) Inst 05 (11/16/92-11/19/92) 4,4'DDT high RSD - affects water samples
Inst 08 (11/28/92 - 11/29/92) 4,4'DDT high RSD - affects soil samples
3a) - Ind A 11/29/92, 1211
Methoxychlor 15.2% D (quant col) - affects samples X105 → X112
- Ind B 11/29/92, 1247
Endrin 19.9% D (quant. col) - affects samples X101 → X112
E. sulfate 21.3% D
- Ind B 11/19/92, 0352 -
Endrin 27.5% D (confirm col.) no samples affected

IV. Blanks

2/88 SOW

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds. Note all contaminated blanks and associated samples below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	MB-967	MB-980		
Date Anal. or Extr.	11/1/92	11/5/92		
Instrument	03 & 05	07 & 08		

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

V. Surrogate Spikes

2/88 SOW

1. ***Review Raw Data.***

YES	NO	
[X]	[ ]	Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES	NO	
[X]	[ ]	Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Possible Interferences.***

YES	NO	N/A	
[ ]	[ ]	[X]	If surrogate spike recoveries are not acceptable, check the raw data for possible interferences which may have effected surrogate recoveries.

4. ***Evaluate Retention Times.***

YES	NO	N/A	
[ ]	[ ]	[X]	If retention time limits are not met, check the raw data for possible misidentification of GC peaks.

5. ***Evaluate Any Low Recoveries.***

YES	NO	N/A	
[ ]	[ ]	[X]	If low surrogate recoveries are observed, check whether low recoveries are due to sample dilution.

6. ***Evaluate Surrogate Analyses in Blanks.***

YES	NO	
[X]	[ ]	Check that all surrogate analysis criteria (retention time and advisory recovery criteria) were met in all blank samples.

Comments: None.

Data Validation Checklist
Site Name: Precision Chrome
SDG No.: 92106952
Laboratory: Weston/Gulf Coast
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VII. Matrix Spikes/Matrix Spike Duplicates

2/88 SOW

1. ***Verify Frequency***

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD Criteria.***

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. ***Verify MS/MSD Calculations.***

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES (NO)

Compound	Orig. Result	MS Result	MSD Result	%RSD
No ~~compounds~~ non-spiked compounds detected in X104 or G203.				

Comments: None.

VII. Field Duplicates

2/88 SOW

N/A

Data Validation Checklist
Site Name: Precision Chrome
SDG No.: 92106952
Laboratory: Weston/Gulf Coast
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VIII. Target Compound Identification

2/88 SOW

1. ***Evaluate Reported Results.***

	YES	NO	
a.	[X]	[ ]	Check the Form I PEST., the associated raw data, and Form X PEST to confirm reported detected analytes.
b.	[X]	[ ]	Check the Form I PEST., the associated raw data, and Form X PEST to confirm reported non-detects.
c.	[X]	[ ]	Check the associated blank data for potential interferences to evaluate sample data for false positives.
d.	[X]	[ ]	Check the calibration data for adequate retention time windows to evaluate the sample data for false positives and false negatives.

2. ***Evaluate Multi-Component Analyte Results.***

YES	NO	
[X]	[ ]	Compare the retention times and relative peak height ratios of major multi-component analyte peaks against appropriate standard chromatograms.

3. ***Verify GC/MS Confirmations if Applicable.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that GC/MS confirmation was performed for pesticide concentrations in the final sample extract which exceeded 10 ng/ul

Comments: None.

IX. Compound Quantitation and Reported CRQLs

2/88 SOW

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[ ]	[ ]	[X]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments: None.

Data Validation Checklist
Site Name: Precision Chrome
SDG
No.: 92106-952
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X. Overall Assessment of Data

2/88 SOW

Evaluate the Overall Quality of the Data.

YES	NO	
[X]	[ ]	Evaluate any technical problems which have not been previously addressed.
[X]	[ ]	Review all available materials to assess the overall quality of the dada, keeping in mind the additive nature of analytical problems.
[X]	[ ]	If appropriate information is available, assess the usability of the data to assist the data user in avoiding inappropriate use of the data. Review all available information, including the QAPjP, SAP, and communications with the data user that concerns the intended use of the data.

Provide a brief narrative to give the data user an indication of the analytical limitations of the data. Include any details from the above checks. Any inconsistency of the data with the Case Narrative should be noted. If sufficient information is available, the reviewer should give an assessment of the usability of the data within the given context.

Data are useable as qualified on the forms!.

CM

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome TB

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: BQUM18

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ Date Analyzed: 11/07/92

Column: (pack/cap) PACK Dilution Factor: 1.00

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

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome TB

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: BQUM18

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. Date Analyzed: 11/07/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1a

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-002	Prec.Chrome X101	% Solids	79.5		%	0.10
		Cyanide, Total	1.0	u	MG/KG	1.0
		Sulfide	31.1	u	MG/KG	31.1
		Sulfate	52.8	u	MG/KG	52.8

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X101__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-002

Level (low/med): LOW Date Received: 10/28/92

% Solids: 79.5

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1880			P	
7440-36-0	Antimony	9.1	U	N	P	J
7440-38-2	Arsenic	1.7	B		F	
7440-39-3	Barium	9.2	B		P	
7440-41-7	Beryllium	0.19	U		P	
7440-43-9	Cadmium	1.1	U		P	
7440-70-2	Calcium	66400			P	
7440-47-3	Chromium	525			P	
7440-48-4	Cobalt	3.1	B		P	
7440-50-8	Copper	12.7			P	
	Cyanide					
7439-89-6	Iron	7330			P	
7439-92-1	Lead	6.2			F	
7439-95-4	Magnesium	33800			P	
7439-96-5	Manganese	218			P	
7439-97-6	Mercury	0.10	U		CV	
7440-02-0	Nickel	5.9	B		P	
7440-09-7	Potassium	441	B		P	
7782-49-2	Selenium	0.37	U		F	J
7440-22-4	Silver	1.6	~~B~~ U		P	
7440-23-5	Sodium	120	B		P	
7440-28-0	Thallium	0.40	U		F	
7440-62-2	Vanadium	4.4	~~B~~ U		P	
7440-66-6	Zinc	27.3			P	

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-002

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM01

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 21 Date Analyzed: 11/05/92

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13 ~~8~~	~~JB~~U am
67-64-1	Acetone	13 ~~10~~	~~JB~~U am
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02	Trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	1	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-002

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM01

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 21 Date Analyzed: 11/05/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

4a

ap 5/7/93

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: DBDG31

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 21 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: ~~0.500~~ 1.0 4/1/93

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

CAS NO.	COMPOUND			
51-28-5	2,4-Dinitrophenol	1000	U	
100-02-7	4-Nitrophenol	1000	U	
132-64-9	Dibenzofuran	420	U	
121-14-2	2,4-Dinitrotoluene	420	U	
84-66-2	Diethylphthalate	420	U	
7005-72-3	4-Chlorophenyl-phenylether	420	U	
86-73-7	Fluorene	420	U	
100-01-6	4-Nitroaniline	1000	U	
534-52-1	4,6-Dinitro-2-methylphenol	1000	U	
86-30-6	N-Nitrosodiphenylamine (1)	420	U	
101-55-3	4-Bromophenyl-phenylether	420	U	
118-74-1	Hexachlorobenzene	420	U	
87-86-5	Pentachlorophenol	1000	U	
85-01-8	Phenanthrene	420	U	
120-12-7	Anthracene	420	U	
86-74-8	Carbazole	420	U	
84-74-2	Di-n-Butylphthalate	420 ~~68~~	~~JB~~U	am
206-44-0	Fluoranthene	420	U	
129-00-0	Pyrene	420 ~~27~~	~~JB~~U	am
85-68-7	Butylbenzylphthalate	420	U	
91-94-1	3,3'-Dichlorobenzidine	420	U	
56-55-3	Benzo(a)anthracene	420	U	
218-01-9	Chrysene	420	U	
117-81-7	bis(2-Ethylhexyl)phthalate	420 ~~110~~	~~JB~~U	am
117-84-0	Di-n-Octyl phthalate	420	U	
205-99-2	Benzo(b)fluoranthene	420	U	
207-08-9	Benzo(k)fluoranthene	420	U	
50-32-8	Benzo(a)pyrene	420	U	
193-39-5	Indeno(1,2,3-cd)pyrene	420	UJ	
53-70-3	Dibenzo(a,h)anthracene	420	UJ	
191-24-2	Benzo(g,h,i)perylene	420	UJ	

(1) - Cannot be separated from Diphenylamine

FORM 1 SV-2 12/88 Rev.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-002

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: DBDG31

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/25/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 6.0

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	3.14	100	~~JB~~U	am
2.	UNKNOWN	4.56	10000	~~JB~~U	am
3.	UNKNOWN ALKANE	21.76	100	J	
4.	UNKNOWN PHTHALATE	24.02	500	~~JB~~U	am
5. 57103	HEXADECANOIC ACID	25.38	300	JN	LED 12-18 92
6.	UNKNOWN	27.21	100	J	
7.	UNKNOWN	28.42	100	J	
8.	HEXANEDIOIC ACID ESTER	30.38	100	~~JB~~U	am
9.	UNKNOWN	31.50	200	J	
10.	UNKNOWN ALKANE	33.54	200	J	
11.	UNKNOWN	34.32	200	~~JB~~U	am
12.	UNKNOWN ALKANE	35.52	800	J	
13.	UNKNOWN	42.27	700	J	

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 11289207.18

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 21 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/92

GPC Cleanup: (Y/N) Y 12/1/92 pH: 6.0 Dilution Factor: 1.00

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

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-003	Prec.Chrome X102	% Solids	69.2		%	0.10
		Cyanide, Total	1.3	u	MG/KG	1.3
		Sulfide	32.8	u	MG/KG	32.8
		Sulfate	58.7	u	MG/KG	58.7

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X102__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-003

Level (low/med): LOW Date Received: 10/28/92

% Solids: 69.2

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4710			P	
7440-36-0	Antimony	10.5	U	N	P	J
7440-38-2	Arsenic	0.25	B		F	J
7440-39-3	Barium	28.7	B		P	
7440-41-7	Beryllium	0.22	U		P	
7440-43-9	Cadmium	1.3	U		P	
7440-70-2	Calcium	7850			P	
7440-47-3	Chromium	1140			P	
7440-48-4	Cobalt	2.5	B		P	
7440-50-8	Copper	8.1			P	
	Cyanide					
7439-89-6	Iron	3710			P	
7439-92-1	Lead	9.7			F	
7439-95-4	Magnesium	4560			P	
7439-96-5	Manganese	37.4			P	
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	5.3	U		P	
7440-09-7	Potassium	530	B		P	
7782-49-2	Selenium	0.42	U		F	J
7440-22-4	Silver	1.6	~~B~~ U		P	
7440-23-5	Sodium	51.3	~~B~~ U		P	
7440-28-0	Thallium	0.44	U		F	
7440-62-2	Vanadium	3.8	~~B~~ U		P	
7440-66-6	Zinc	29.6			P	

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-003

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BQUM02

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 31

Date Analyzed: 11/05/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14 J	~~JB~~U am
67-64-1	Acetone	100	~~B~~U am
75-15-0	Carbon Disulfide	6	J
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	16	
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02	Trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-003

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM02

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 31 Date Analyzed: 11/05/92

GC Column: ID: ____(mm) Dilution

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

10a

ams 5/6/93 ~~845~~

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: DBDG32

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 31 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	bis(2-Chloroisopropyl)ether	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-Di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
208-96-8	Acenaphthylene	480	U
606-20-2	2,6-Dinitrotoluene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: DBD632

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 31 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	480	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	480	U
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-Butylphthalate	480 ~~77~~	~~JB~~U am
206-44-0	Fluoranthene	480	U
129-00-0	Pyrene	480	U
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	480	U
218-01-9	Chrysene	480	U
117-81-7	bis(2-Ethylhexyl)phthalate	480 ~~120~~	~~JB~~U am
117-84-0	Di-n-Octyl phthalate	480	UJ
205-99-2	Benzo(b)fluoranthene	480	UJ
207-08-9	Benzo(k)fluoranthene	480	UJ
50-32-8	Benzo(a)pyrene	480	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	480	UJ
53-70-3	Dibenzo(a,h)anthracene	480	UJ
191-24-2	Benzo(g,h,i)perylene	480	UJ

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: DBDG32

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/25/92

Injection Volume: 2.0(uL) Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	3.13	200	~~JB~~ U	am
2.	UNKNOWN	4.51	10000	~~JB~~ U	am
3.	UNKNOWN PHTHALATE	7.70	200	~~JB~~ U	am
4. 57103	HEXADECANOIC ACID	24.02	500	J N	SED 12-18-92
5.	UNKNOWN	25.36	200	J	
6.	UNKNOWN	26.73	100	J	
7.	UNKNOWN ALKANE	29.40	100	J	
8.	HEXANEDIOIC ACID ESTER	30.36	200	~~JB~~ U	am
9.	UNKNOWN	31.51	600	J	
10.	UNKNOWN	33.35	300	J	
11.	UNKNOWN ALKANE	33.54	1000	J	
12.	UNKNOWN ALKANE	35.54	2000	J	
13.	UNKNOWN ALKANE	38.13	200	J	
14.	UNKNOWN	40.64	300	J	
15.	UNKNOWN	41.05	200	J	
16.	UNKNOWN	42.33	2000	J	
17.	UNKNOWN	43.27	200	J	
18.	UNKNOWN	43.41	300	J	
19.	UNKNOWN	43.61	400	J	
20.	UNKNOWN	44.41	300	J	

am 5/7/92

12a ~~115~~

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-003

Sample wt/vol: 30.8 (g/mL) G Lab File ID: 11289207.20

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 31 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y du 12/1/92 pH: 8.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	11	U
319-85-7	Beta-BHC	11	U
319-86-8	Delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
76-44-8	Heptachlor	11	U
309-00-2	Aldrin	11	U
1024-57-3	Heptachlor epoxide	11	U
959-98-8	Endosulfan I	11	U
60-57-1	Dieldrin	23	U
72-55-9	4,4'-DDE	23	U
72-20-8	Endrin	23	U
33213-65-9	Endosulfan II	23	U
72-54-8	4,4'-DDD	23	U
1031-07-8	Endosulfan sulfate	23	U
50-29-3	4,4'-DDT	23	U
72-43-5	Methoxychlor	110	U
53494-70-5	Endrin ketone	23	U
5103-71-9	alpha-Chlordane	110	U
5103-74-2	gamma-Chlordane	110	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	110	U
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	230	U
11096-82-5	Aroclor-1260	230	U

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-004	Prec.Chrome X103	% Solids	96.4	%	0.10
		Cyanide, Total	0.94 u	MG/KG	0.94
		Sulfide	25.9 u	MG/KG	25.9
		Sulfate	51.9 u	MG/KG	51.9

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X103__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-004

Level (low/med): LOW Date Received: 10/28/92

% Solids: 96.4

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2530			P	
7440-36-0	Antimony	7.5	U	N	P	J
7440-38-2	Arsenic	2.1			F	
7440-39-3	Barium	20.1	B		P	
7440-41-7	Beryllium	0.16	U		P	
7440-43-9	Cadmium	0.90	U		P	
7440-70-2	Calcium	63100			P	
7440-47-3	Chromium	117			P	
7440-48-4	Cobalt	2.2	B		P	
7440-50-8	Copper	8.1			P	
	Cyanide					
7439-89-6	Iron	6300			P	
7439-92-1	Lead	15.3			F	
7439-95-4	Magnesium	28100			P	
7439-96-5	Manganese	229			P	
7439-97-6	Mercury	0.10	U		CV	
7440-02-0	Nickel	5.6	B		P	
7440-09-7	Potassium	477	B		P	
7782-49-2	Selenium	0.31	U		F	J
7440-22-4	Silver	1.3	~~B~~ U		P	
7440-23-5	Sodium	102	B		P	
7440-28-0	Thallium	0.33	U		F	
7440-62-2	Vanadium	9.7	B		P	
7440-66-6	Zinc	21.5			P	

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X103

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-004

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BQUM03

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 4

Date Analyzed: 11/05/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	~~J~~B U am
67-64-1	Acetone	28	~~J~~B U am
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM 1 V-1 12/88 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X103

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-004

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM03

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 4 Date Analyzed: 11/05/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

16

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X103

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-004

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: DBDG33

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 4 dec.

Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	850	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	850	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	850	U
83-32-9	Acenaphthene	340	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X103

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-004

Sample wt/vol: 30.6 (g/mL) G Lab File ID: DBDG33

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 4 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	850	U
100-02-7	4-Nitrophenol	850	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	850	U
534-52-1	4,6-Dinitro-2-methylphenol	850	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	850	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-Butylphthalate	340 ~~65~~	~~JB~~U am
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340 ~~95~~	~~JB~~U am
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	UJ
53-70-3	Dibenzo(a,h)anthracene	340	UJ
191-24-2	Benzo(g,h,i)perylene	340	UJ

(1) - Cannot be separated from Diphenylamine

FORM 1 SV-2 12/88 Rev.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X103

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-004

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: DBDG33

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/25/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	3.19	100	~~JB~~U	am
2.	UNKNOWN	4.64	8000	~~JB~~U	am
3.	UNKNOWN PHTHALATE	24.01	400	~~JB~~U	am
4. 57103	HEXADECANOIC ACID	25.35	80	JN	JSA 12-18-92
5. 57114	OCTADECANOIC ACID	27.83	70	JN	JSA 12-18-92
6.	HEXANEDIOIC ACID ESTER	30.35	100	~~JB~~U	am
7.	UNKNOWN ALKANE	31.53	80	J	
8.	UNKNOWN	33.08	200	J	
9.	UNKNOWN	34.32	500	~~JB~~U	am
10.	UNKNOWN	34.60	200	~~JB~~U	am
11.	UNKNOWN ALKANE	35.52	80	J	
12.	UNKNOWN ALKANE	38.13	100	J	
13.	UNKNOWN	40.63	70	J	

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X103

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-004

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 11289207.21

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 4 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y 11:12/1/92 pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	8.3	U
319-85-7	Beta-BHC	8.3	U
319-86-8	Delta-BHC	8.3	U
58-89-9	gamma-BHC (Lindane)	8.3	U
76-44-8	Heptachlor	8.3	U
309-00-2	Aldrin	8.3	U
1024-57-3	Heptachlor epoxide	8.3	U
959-98-8	Endosulfan I	8.3	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	83	U
53494-70-5	Endrin ketone	17	U
5103-71-9	alpha-Chlordane	83	U
5103-74-2	gamma-Chlordane	83	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	83	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	83	U
53469-21-9	Aroclor-1242	83	U
12672-29-6	Aroclor-1248	83	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-005	Prec.Chrome X104	% Solids	94.0	%	0.10
		Cyanide, Total	0.92 u	MG/KG	0.92
		Sulfide	26.1 u	MG/KG	26.1
		Sulfate	52.2 u	MG/KG	52.2

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X104__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-005

Level (low/med): LOW Date Received: 10/28/92

% Solids: 94.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2370			P	
7440-36-0	Antimony	7.7	U	N	P	J
7440-38-2	Arsenic	1.6	B		F	
7440-39-3	Barium	11.7	B		P	
7440-41-7	Beryllium	0.16	U		P	
7440-43-9	Cadmium	0.92	U		P	
7440-70-2	Calcium	54300			P	
7440-47-3	Chromium	146			P	
7440-48-4	Cobalt	2.4	B		P	
7440-50-8	Copper	6.0			P	
	Cyanide					
7439-89-6	Iron	5230			P	
7439-92-1	Lead	30.5			F	
7439-95-4	Magnesium	25700			P	
7439-96-5	Manganese	169			P	
7439-97-6	Mercury	0.07	U		CV	
7440-02-0	Nickel	4.4	B		P	
7440-09-7	Potassium	361	B		P	
7782-49-2	Selenium	0.32	U		F	J
7440-22-4	Silver	1.00	U		P	
7440-23-5	Sodium	111	B		P	
7440-28-0	Thallium	0.34	U		F	
7440-62-2	Vanadium	7.2	B		P	
7440-66-6	Zinc	16.4			P	

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X104

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-005

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BQUM04

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 6

Date Analyzed: 11/05/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	12	~~B~~U am
67-64-1	Acetone	11	~~B~~U am
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02	Trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

FORM 1 V-1

12/88 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X104

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-005

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM04

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 6 Date Analyzed: 11/05/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Cm 5/7/93

22a

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X104

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-005

Sample wt/vol: 30.4 (g/mL) G Lab File ID: DBDG36

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 6 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X104

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-005

Sample wt/vol: 30.4 (g/mL) G Lab File ID: DBDG36

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 6 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND			
51-28-5	2,4-Dinitrophenol	880	U	
100-02-7	4-Nitrophenol	880	U	
132-64-9	Dibenzofuran	350	U	
121-14-2	2,4-Dinitrotoluene	350	U	
84-66-2	Diethylphthalate	350	U	
7005-72-3	4-Chlorophenyl-phenylether	350	U	
86-73-7	Fluorene	350	U	
100-01-6	4-Nitroaniline	880	U	
534-52-1	4,6-Dinitro-2-methylphenol	880	U	
86-30-6	N-Nitrosodiphenylamine (1)	350	U	
101-55-3	4-Bromophenyl-phenylether	350	U	
118-74-1	Hexachlorobenzene	350	U	
87-86-5	Pentachlorophenol	880	U	
85-01-8	Phenanthrene	350	U	
120-12-7	Anthracene	350	U	
86-74-8	Carbazole	350	U	
84-74-2	Di-n-Butylphthalate	350 ~~56~~	~~J~~BU	am
206-44-0	Fluoranthene	350	U	
129-00-0	Pyrene	350	U	
85-68-7	Butylbenzylphthalate	350	U	
91-94-1	3,3'-Dichlorobenzidine	350	U	
56-55-3	Benzo(a)anthracene	350	U	
218-01-9	Chrysene	350	U	
117-81-7	bis(2-Ethylhexyl)phthalate	350 ~~71~~	~~J~~BU	am
117-84-0	Di-n-Octyl phthalate	350	U	
205-99-2	Benzo(b)fluoranthene	350	U	
207-08-9	Benzo(k)fluoranthene	350	U	
50-32-8	Benzo(a)pyrene	350	U	
193-39-5	Indeno(1,2,3-cd)pyrene	350	UJ	
53-70-3	Dibenzo(a,h)anthracene	350	UJ	
191-24-2	Benzo(g,h,i)perylene	350	UJ	

(1) - Cannot be separated from Diphenylamine

FORM 1 SV-2 12/88 Rev.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X104

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-005

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: DBDG36

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/25/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	3.14	100	~~JB~~U	am
2.	UNKNOWN	4.59	10000	~~JB~~U	am
3.	UNKNOWN PHTHALATE	24.02	400	~~JB~~U	am
4. 57103	HEXADECANOIC ACID	25.34	80	JN	12-18-92
5.	HEXANEDIOIC ACID ESTER	30.36	100	~~JB~~U	am
6.	UNKNOWN ALKANE	31.52	100	J	
7.	UNKNOWN ALKANE	33.52	100	J	
8.	UNKNOWN	34.31	300	~~JB~~U	am
9.	UNKNOWN ALKANE	35.51	200	J	
10.	UNKNOWN ALKANE	38.12	100	J	
11	UNKNOWN	40.62	100	J	
12.	UNKNOWN	42.24	70	J	

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X104

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-005

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 11289207.22

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 6 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y 11/12/92 pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
319-84-6	Alpha-BHC	8.5	U
319-85-7	Beta-BHC	8.5	U
319-86-8	Delta-BHC	8.5	U
58-89-9	gamma-BHC (Lindane)	8.5	U
76-44-8	Heptachlor	8.5	U
309-00-2	Aldrin	8.5	U
1024-57-3	Heptachlor epoxide	8.5	U
959-98-8	Endosulfan I	8.5	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	85	U
53494-70-5	Endrin ketone	17	U
5103-71-9	alpha-Chlordane	85	U
5103-74-2	gamma-Chlordane	85	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	85	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	85	U
53469-21-9	Aroclor-1242	85	U
12672-29-6	Aroclor-1248	85	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-006	Prec.Chrome X105	% Solids	83.0		%	0.10
		Cyanide, Total	1.1	u	MG/KG	1.1
		Sulfide	29.8	u	MG/KG	29.8
		Sulfate	59.6	u	MG/KG	59.6

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X105__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-006

Level (low/med): LOW Date Received: 10/28/92

% Solids: 83.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4000			P	
7440-36-0	Antimony	9.1	U	N	P	J
7440-38-2	Arsenic	3.3			F	
7440-39-3	Barium	18.6	B		P	
7440-41-7	Beryllium	0.19	U		P	
7440-43-9	Cadmium	1.1	U		P	
7440-70-2	Calcium	98100			P	
7440-47-3	Chromium	7.1			P	
7440-48-4	Cobalt	4.0	B		P	
7440-50-8	Copper	10.9			P	
	Cyanide					
7439-89-6	Iron	10700			P	
7439-92-1	Lead	5.7			F	
7439-95-4	Magnesium	50900			P	
7439-96-5	Manganese	380			P	
7439-97-6	Mercury	0.09	U		CV	
7440-02-0	Nickel	8.6	B		P	
7440-09-7	Potassium	826	B		P	
7782-49-2	Selenium	0.36	U	W	F	J
7440-22-4	Silver	2.1	~~B~~ U		P	
7440-23-5	Sodium	162	B		P	
7440-28-0	Thallium	0.38	U	W	F	J
7440-62-2	Vanadium	16.3			P	
7440-66-6	Zinc	28.4			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X105

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-006

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BQUM05

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 17

Date Analyzed: 11/05/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12 ~~11~~	~~JB~~U am
67-64-1	Acetone	14	~~B~~U am
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02	Trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

FORM 1 V-1 12/88 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X105

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-006

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BQUM05

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 17

Date Analyzed: 11/05/92

GC Column: ID: ____(mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

28a

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X105

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-006

Sample wt/vol: 30.2 (g/mL) G Lab File ID: DBDG37

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 17 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 an -4/1/93

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

CAS NO.	COMPOUND		
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	bis(2-Chloroisopropyl)ether	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X105

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-006

Sample wt/vol: 30.2 (g/mL) G Lab File ID: DBDC37

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 17 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-Butylphthalate	400 ~~56~~	~~J~~B U am
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400 ~~64~~	~~J~~B U am
117-84-0	Di-n-Octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	UJ
53-70-3	Dibenzo(a,h)anthracene	400	UJ
191-24-2	Benzo(g,h,i)perylene	400	UJ

(1) - Cannot be separated from Diphenylamine

FORM 1 SV-2 12/88 Rev.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X105

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-006

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: DBDG37

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/25/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.17	200	~~JB~~U am
2.	UNKNOWN	4.59	10000	~~JB~~U am
3.	UNKNOWN PHTHALATE	24.02	500	~~JB~~U am
4. 57103	HEXADECANOIC ACID	25.34	100	JN 12-18-92
5.	UNKNOWN	27.54	100	J
6.	HEXANEDIOIC ACID ESTER	30.34	100	~~JB~~U am
7.	UNKNOWN ALKANE	31.52	100	J
8.	UNKNOWN ALKANE	33.52	200	J
9.	UNKNOWN	34.29	200	~~JB~~U am
10.	UNKNOWN ALKANE	35.52	400	J
11.	UNKNOWN	42.29	800	J
12.	UNKNOWN	43.37	100	J

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X105

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-006

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 11289207.26

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 17 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y dilution pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	9.5	U
319-85-7	Beta-BHC	9.5	U
319-86-8	Delta-BHC	9.5	U
58-89-9	gamma-BHC (Lindane)	9.5	U
76-44-8	Heptachlor	9.5	U
309-00-2	Aldrin	9.5	U
1024-57-3	Heptachlor epoxide	9.5	U
959-98-8	Endosulfan I	9.5	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	19	U
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	19	U
72-43-5	Methoxychlor	95	U
53494-70-5	Endrin ketone	19	U
5103-71-9	alpha-Chlordane	95	U
5103-74-2	gamma-Chlordane	95	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	95	U
11104-28-2	Aroclor-1221	95	U
11141-16-5	Aroclor-1232	95	U
53469-21-9	Aroclor-1242	95	U
12672-29-6	Aroclor-1248	95	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-007	Prec.Chrome X106	% Solids	91.0	%	0.10
		Cyanide, Total	0.95 u	MG/KG	0.95
		Sulfide	26.2 u	MG/KG	26.2
		Sulfate	67.7	MG/KG	53.9

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X106__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-007

Level (low/med): LOW Date Received: 10/28/92

% Solids: 91.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8920			P	
7440-36-0	Antimony	19.6		N	P	J
7440-38-2	Arsenic	4.8			F	
7440-39-3	Barium	72.8			P	
7440-41-7	Beryllium	0.45	~~B~~ U		P	
7440-43-9	Cadmium	0.94	U		P	
7440-70-2	Calcium	36800			P	
7440-47-3	Chromium	523			P	
7440-48-4	Cobalt	7.3	B		P	
7440-50-8	Copper	16.5			P	
	Cyanide					
7439-89-6	Iron	18300			P	
7439-92-1	Lead	962			P	
7439-95-4	Magnesium	17700			P	
7439-96-5	Manganese	562			P	
7439-97-6	Mercury	0.09	U		CV	
7440-02-0	Nickel	13.9			P	
7440-09-7	Potassium	1050			P	
7782-49-2	Selenium	0.33	U	W	F	J
7440-22-4	Silver	1.1	~~B~~ U		P	
7440-23-5	Sodium	121	B		P	
7440-28-0	Thallium	0.35	U		F	J
7440-62-2	Vanadium	19.5			P	
7440-66-6	Zinc	45.7			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X106

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-007

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM06

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 9 Date Analyzed: 11/05/92

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	UJ
74-83-9	Bromomethane	11	UJ
75-01-4	Vinyl Chloride	11	UJ
75-00-3	Chloroethane	11	UJ
75-09-2	Methylene Chloride	12	~~B~~UJ am
67-64-1	Acetone	14	~~B~~UJ am
75-15-0	Carbon Disulfide	11	UJ
75-35-4	1,1-Dichloroethene	11	UJ
75-34-3	1,1-Dichloroethane	11	UJ
540-59-0	1,2-Dichloroethene (total)	11	UJ
67-66-3	Chloroform	11	UJ
107-06-2	1,2-Dichloroethane	11	UJ
78-93-3	2-Butanone	11	UJ
71-55-6	1,1,1-Trichloroethane	11	UJ
56-23-5	Carbon Tetrachloride	11	UJ
75-27-4	Bromodichloromethane	11	UJ
78-87-5	1,2-Dichloropropane	11	UJ
10061-01	cis-1,3-Dichloropropene	11	UJ
79-01-6	Trichloroethene	11	UJ
124-48-1	Dibromochloromethane	11	UJ
79-00-5	1,1,2-Trichloroethane	11	UJ
71-43-2	Benzene	11	UJ
10061-02	Trans-1,3-Dichloropropene	11	UJ
75-25-2	Bromoform	11	UJ
108-10-1	4-Methyl-2-pentanone	11	UJ
591-78-6	2-Hexanone	11	UJ
127-18-4	Tetrachloroethene	11	UJ
79-34-5	1,1,2,2-Tetrachloroethane	11	UJ
108-88-3	Toluene	11	UJ
108-90-7	Chlorobenzene	11	UJ
100-41-4	Ethylbenzene	11	UJ
100-42-5	Styrene	11	UJ
1330-20-7	Xylene (total)	11	UJ

FORM 1, V-1 12/88 Rev.

1F

[illegible] ORGANIC [illegible] DATA SHEET

[illegible]

[illegible] Work Order: [illegible]

CLIENT SAMPLE NO.

Prod. Chrome X106

Client: Illinois EPA

Matrix: SOIL

Sample ID: 9210G952-007

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BOUM06

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 9

Date Analyzed: 11/05/92

GC Column: ID: ____(mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

FORM I [illegible] /90

am
5/7/93

34a
~~[illegible]~~

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X106

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-007

Sample wt/vol: 30.3 (g/mL) G Lab File ID: DBDG38

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 9 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 aw 4/1/93

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

CAS NO.	COMPOUND		
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	900	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	900	U
83-32-9	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X106

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-007

Sample wt/vol: 30.3 (g/mL) G Lab File ID: DBDG38

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 9 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/25/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	900	U
100-02-7	4-Nitrophenol	900	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	900	U
534-52-1	4,6-Dinitro-2-methylphenol	900	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-Butylphthalate	360 ~~73~~	~~J~~BU am
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360 ~~78~~	~~J~~BU am
117-84-0	Di-n-Octyl phthalate	360	UJ
205-99-2	Benzo(b)fluoranthene	360	UJ
207-08-9	Benzo(k)fluoranthene	360	UJ
50-32-8	Benzo(a)pyrene	360	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	360	UJ
53-70-3	Dibenzo(a,h)anthracene	360	UJ
191-24-2	Benzo(g,h,i)perylene	360	UJ

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X106

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-007

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: DBDG38

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/25/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.17	200	~~JB~~U am
2.	UNKNOWN	4.59	9000	~~JB~~U am
3.	UNKNOWN PHTHALATE	24.05	500	~~JB~~U am
4. 57103	HEXADECANOIC ACID	25.49	200	JN ~~J~~ 12-18-92
5.	UNKNOWN	33.36	100	J
6.	UNKNOWN	33.57	200	J
7.	UNKNOWN	35.59	200	J
8.	UNKNOWN	40.67	90	J

am 36a ~~1200~~

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X106

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-007

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 11289207.27

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 9 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y [illegible] 12/1/92 pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
319-84-6	Alpha-BHC	44	U
319-85-7	Beta-BHC	44	U
319-86-8	Delta-BHC	44	U
58-89-9	gamma-BHC (Lindane)	44	U
76-44-8	Heptachlor	44	U
309-00-2	Aldrin	44	U
1024-57-3	Heptachlor epoxide	44	U
959-98-8	Endosulfan I	44	U
60-57-1	Dieldrin	87	U
72-55-9	4,4'-DDE	87	U
72-20-8	Endrin	87	U
33213-65-9	Endosulfan II	87	U
72-54-8	4,4'-DDD	87	U
1031-07-8	Endosulfan sulfate	87	U
50-29-3	4,4'-DDT	87	U
72-43-5	Methoxychlor	440	U
53494-70-5	Endrin ketone	87	U
5103-71-9	alpha-Chlordane	440	U
5103-74-2	gamma-Chlordane	440	U
8001-35-2	Toxaphene	870	U
12674-11-2	Aroclor-1016	440	U
11104-28-2	Aroclor-1221	440	U
11141-16-5	Aroclor-1232	440	U
53469-21-9	Aroclor-1242	440	U
12672-29-6	Aroclor-1248	440	U
11097-69-1	Aroclor-1254	870	U
11096-82-5	Aroclor-1260	870	U

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-008	Prec.Chrome X107	% Solids	90.8		%	0.10
		Cyanide, Total	1.1	u	MG/KG	1.1
		Sulfide	23.5	u	MG/KG	23.5
		Sulfate	65.3		MG/KG	52.0

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X107__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-008

Level (low/med): LOW Date Received: 10/28/92

% Solids: 90.8

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2490			P	
7440-36-0	Antimony	8.3	U	N	P	J
7440-38-2	Arsenic	2.2			F	
7440-39-3	Barium	15.0	B		P	
7440-41-7	Beryllium	0.17	U		P	
7440-43-9	Cadmium	1.4	U		P	
7440-70-2	Calcium	78400			P	
7440-47-3	Chromium	182			P	
7440-48-4	Cobalt	2.9	B		P	
7440-50-8	Copper	10.1			P	
	Cyanide					
7439-89-6	Iron	8130			P	
7439-92-1	Lead	49.4			F	
7439-95-4	Magnesium	39900			P	
7439-96-5	Manganese	264			P	
7439-97-6	Mercury	0.07	U		CV	
7440-02-0	Nickel	4.9	B		P	
7440-09-7	Potassium	484	B		P	
7782-49-2	Selenium	0.32	U	W	F	J
7440-22-4	Silver	1.1	U		P	
7440-23-5	Sodium	128	B		P	
7440-28-0	Thallium	0.34	U		F	J
7440-62-2	Vanadium	7.7	B		P	
7440-66-6	Zinc	498			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X107

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-008

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM07

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 9 Date Analyzed: 11/05/92

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	UJ
74-83-9	Bromomethane	11	UJ
75-01-4	Vinyl Chloride	11	UJ
75-00-3	Chloroethane	11	UJ
75-09-2	Methylene Chloride	12	BUJ am
67-64-1	Acetone	23	BUJ am
75-15-0	Carbon Disulfide	11	UJ
75-35-4	1,1-Dichloroethene	11	UJ
75-34-3	1,1-Dichloroethane	11	UJ
540-59-0	1,2-Dichloroethene (total)	11	UJ
67-66-3	Chloroform	11	UJ
107-06-2	1,2-Dichloroethane	11	UJ
78-93-3	2-Butanone	11	UJ
71-55-6	1,1,1-Trichloroethane	11	UJ
56-23-5	Carbon Tetrachloride	11	UJ
75-27-4	Bromodichloromethane	11	UJ
78-87-5	1,2-Dichloropropane	11	UJ
10061-01	cis-1,3-Dichloropropene	11	UJ
79-01-6	Trichloroethene	11	UJ
124-48-1	Dibromochloromethane	11	UJ
79-00-5	1,1,2-Trichloroethane	11	UJ
71-43-2	Benzene	11	UJ
10061-02	Trans-1,3-Dichloropropene	11	UJ
75-25-2	Bromoform	11	UJ
108-10-1	4-Methyl-2-pentanone	11	UJ
591-78-6	2-Hexanone	11	UJ
127-18-4	Tetrachloroethene	10	J
79-34-5	1,1,2,2-Tetrachloroethane	11	UJ
108-88-3	Toluene	11	UJ
108-90-7	Chlorobenzene	11	UJ
100-41-4	Ethylbenzene	11	UJ
100-42-5	Styrene	11	UJ
1330-20-7	Xylene (total)	11	UJ

IE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X107

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Contract: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-008

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM07

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 9 Date Analyzed: 11/05/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X107

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-008

Sample wt/vol: 30.7 (g/mL) G Lab File ID: AADB65

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 9 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/02/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	900	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	900	UJ
83-32-9	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X107

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-008

Sample wt/vol: 30.7 (g/mL) G Lab File ID: AADB65

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 9 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/02/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	900	UJ
100-02-7	4-Nitrophenol	900	UJ
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	900	UJ
534-52-1	4,6-Dinitro-2-methylphenol	900	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-Butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	UJ
85-68-7	Butylbenzylphthalate	360	UJ
91-94-1	3,3'-Dichlorobenzidine	360	UJ
56-55-3	Benzo(a)anthracene	360	UJ
218-01-9	Chrysene	360	UJ
117-81-7	bis(2-Ethylhexyl)phthalate	360 ~~170~~	~~JB~~UJ am
117-84-0	Di-n-Octyl phthalate	360	UJ
205-99-2	Benzo(b)fluoranthene	360	UJ
207-08-9	Benzo(k)fluoranthene	360	UJ
50-32-8	Benzo(a)pyrene	360	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	360	UJ
53-70-3	Dibenzo(a,h)anthracene	360	UJ
191-24-2	Benzo(g,h,i)perylene	360	UJ

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X107

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-008

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: AADB65

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 12/02/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16 92

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.87	200	~~JB~~U am
2.	UNKNOWN	4.99	9000	~~JB~~U am
3.	UNKNOWN	7.83	500	J
4.	UNKNOWN	8.81	2000	J
5.	UNKNOWN	14.07	100	J
6	UNKNOWN	20.48	100	J
7.	UNKNOWN	24.10	300	J
8	UNKNOWN	24.24	200	J
9.	UNKNOWN	24.33	100	J
10.	UNKNOWN PHTHALATE	24.49	600	~~JB~~U am
11.	UNKNOWN	26.29	1000	J
12.	UNKNOWN	35.41	200	J
13.	UNKNOWN	35.49	500	J
14.	UNKNOWN	35.72	200	J
15.	UNKNOWN	35.91	100	J

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X107

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-008

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 11289207.29

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 9 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y 11/12/92 pH: 7.0 Dilution Factor: 10.0

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	87	U
319-85-7	Beta-BHC	87	U
319-86-8	Delta-BHC	87	U
58-89-9	gamma-BHC (Lindane)	87	U
76-44-8	Heptachlor	87	U
309-00-2	Aldrin	87	U
1024-57-3	Heptachlor epoxide	87	U
959-98-8	Endosulfan I	87	U
60-57-1	Dieldrin	170	U
72-55-9	4,4'-DDE	170	U
72-20-8	Endrin	170	U
33213-65-9	Endosulfan II	170	U
72-54-8	4,4'-DDD	170	U
1031-07-8	Endosulfan sulfate	170	U
50-29-3	4,4'-DDT	170	U
72-43-5	Methoxychlor	870	U
53494-70-5	Endrin ketone	170	U
5103-71-9	alpha-Chlordane	870	U
5103-74-2	gamma-Chlordane	870	U
8001-35-2	Toxaphene	1700	U
12674-11-2	Aroclor-1016	870	U
11104-28-2	Aroclor-1221	870	U
11141-16-5	Aroclor-1232	870	U
53469-21-9	Aroclor-1242	870	U
12672-29-6	Aroclor-1248	870	U
11097-69-1	Aroclor-1254	1700	U
11096-82-5	Aroclor-1260	1700	U

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-009	Prec.Chrome X108	% Solids	81.3		%	0.10
		Cyanide, Total	1.1	u	MG/KG	1.1
		Sulfide	51.7		MG/KG	30.4
		Sulfate	194		MG/KG	117

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X108__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-009

Level (low/med): LOW Date Received: 10/28/92

% Solids: 81.3

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2900			P	
7440-36-0	Antimony	9.1	U	N	P	J
7440-38-2	Arsenic	1.8	B		F	
7440-39-3	Barium	11.8	B		P	
7440-41-7	Beryllium	0.19	U		P	
7440-43-9	Cadmium	1.2			P	
7440-70-2	Calcium	76600			P	
7440-47-3	Chromium	9.8			P	
7440-48-4	Cobalt	2.8	B		P	
7440-50-8	Copper	8.0			P	
	Cyanide					
7439-89-6	Iron	6040			P	
7439-92-1	Lead	7.7		S	F	
7439-95-4	Magnesium	39800			P	
7439-96-5	Manganese	200			P	
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	5.9	B		P	
7440-09-7	Potassium	626	B		P	
7782-49-2	Selenium	0.36	U	W	F	J
7440-22-4	Silver	1.5	~~B~~ U		P	
7440-23-5	Sodium	155	B		P	
7440-28-0	Thallium	0.38	U		F	J
7440-62-2	Vanadium	10.3	B		P	
7440-66-6	Zinc	225			P	

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X108

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-009

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BQUM08

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 19

Date Analyzed: 11/05/92

Column: (pack/cap) PACK

Dilution Factor: 10.0

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	120	U
74-83-9	Bromomethane	120	U
75-01-4	Vinyl Chloride	120	U
75-00-3	Chloroethane	120	U
75-09-2	Methylene Chloride	120 ~~48~~	~~J~~B U am
67-64-1	Acetone	120	~~B~~ U am
75-15-0	Carbon Disulfide	120	U
75-35-4	1,1-Dichloroethene	120	U
75-34-3	1,1-Dichloroethane	120	U
540-59-0	1,2-Dichloroethene (total)	120	U
67-66-3	Chloroform	120	U
107-06-2	1,2-Dichloroethane	120	U
78-93-3	2-Butanone	120	U
71-55-6	1,1,1-Trichloroethane	1300	
56-23-5	Carbon Tetrachloride	120	U
75-27-4	Bromodichloromethane	120	U
78-87-5	1,2-Dichloropropane	120	U
10061-01	cis-1,3-Dichloropropene	120	U
79-01-6	Trichloroethene	120	U
124-48-1	Dibromochloromethane	120	U
79-00-5	1,1,2-Trichloroethane	120	U
71-43-2	Benzene	120	U
10061-02	Trans-1,3-Dichloropropene	120	U
75-25-2	Bromoform	120	U
108-10-1	4-Methyl-2-pentanone	120	U
591-78-6	2-Hexanone	120	U
127-18-4	Tetrachloroethene		E
79-34-5	1,1,2,2-Tetrachloroethane	120	U
108-88-3	Toluene	120	U
108-90-7	Chlorobenzene	120	U
100-41-4	Ethylbenzene	120	U
100-42-5	Styrene	120	U
1330-20-7	Xylene (total)	120	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X108

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-009

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM08

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 Date Analyzed: 11/05/92

GC Column: ID: ____(mm) Dilution Factor: 10.

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X108DL

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-009 DL

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BQUM16

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 19

Date Analyzed: 11/06/92

Column: (pack/cap) PACK

Dilution Factor: 500

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	51000	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

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12/88 Rev.

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X108RE

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-009

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AADD41

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 dec. Date Extracted: 12/07/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	bis(2-Chloroisopropyl)ether	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X108RE

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-009

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AADD41

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 dec. Date Extracted: 12/07/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	UJ
86-30-6	N-Nitrosodiphenylamine (1)	410	UJ
101-55-3	4-Bromophenyl-phenylether	410	UJ
118-74-1	Hexachlorobenzene	410	UJ
87-86-5	Pentachlorophenol	1000	UJ
85-01-8	Phenanthrene	410	UJ
120-12-7	Anthracene	410	UJ
86-74-8	Carbazole	410	UJ
84-74-2	Di-n-Butylphthalate	410 ~~120~~	~~JB~~UJ am
206-44-0	Fluoranthene	410	UJ
129-00-0	Pyrene	410	UJ
85-68-7	Butylbenzylphthalate	410	UJ
91-94-1	3,3'-Dichlorobenzidine	410	UJ
56-55-3	Benzo(a)anthracene	410	UJ
218-01-9	Chrysene.	410	UJ
117-81-7	bis(2-Ethylhexyl)phthalate	600	~~B~~UJ am
117-84-0	Di-n-Octyl phthalate	410	UJ
205-99-2	Benzo(b)fluoranthene	410	UJ
207-08-9	Benzo(k)fluoranthene	410	UJ
50-32-8	Benzo(a)pyrene	410	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	410	UJ
53-70-3	Dibenzo(a,h)anthracene	410	UJ
191-24-2	Benzo(g,h,i)perylene	410	UJ

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X108RE

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-009

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: AADD41

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 12/07/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 12/11/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	4.28	1000	~~JB~~ U	am
2.	UNKNOWN	4.98	20000	~~JB~~ U	am
3.	UNKNOWN	7.77	4000	J	
4.	UNKNOWN ALKANE	14.92	2000	J	
5	UNKNOWN ALKANE	15.47	900	J	
6.	UNKNOWN	16.37	800	J	
7.	UNKNOWN ALKANE	16.85	1000	J	
8.	UNKNOWN	18.04	800	J	
9.	UNKNOWN	19.88	2000	J	
10.	UNKNOWN	20.11	1000	J~~B~~	am
11.	UNKNOWN	20.46	1000	~~JB~~ U	am
12.	UNKNOWN ALKANE	22.27	900	J	
13.	UNKNOWN ACID	22.82	2000	J	
14	UNKNOWN ALKANE	23.83	900	J	
15.	UNKNOWN	26.39	800	J	
16.	UNKNOWN	29.24	900	J	
17.	UNKNOWN	30.13	900	J	
18.	UNKNOWN ALKANE	31.22	1000	J	
19.	UNKNOWN	31.43	800	J	
20.	UNKNOWN	36.98	2000	J	

51A
1 of 75

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X108

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 11289207.32

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	98	U
319-85-7	Beta-BHC	98	U
319-86-8	Delta-BHC	98	U
58-89-9	gamma-BHC (Lindane)	98	U
76-44-8	Heptachlor	98	U
309-00-2	Aldrin	98	U
1024-57-3	Heptachlor epoxide	98	U
959-98-8	Endosulfan I	98	U
60-57-1	Dieldrin	200	U
72-55-9	4,4'-DDE	200	U
72-20-8	Endrin	200	U
33213-65-9	Endosulfan II	200	U
72-54-8	4,4'-DDD	200	U
1031-07-8	Endosulfan sulfate	200	U
50-29-3	4,4'-DDT	200	U
72-43-5	Methoxychlor	980	U
53494-70-5	Endrin ketone	200	U
5103-71-9	alpha-Chlordane	980	U
5103-74-2	gamma-Chlordane	980	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	980	U
11104-28-2	Aroclor-1221	980	U
11141-16-5	Aroclor-1232	980	U
53469-21-9	Aroclor-1242	980	U
12672-29-6	Aroclor-1248	980	U
11097-69-1	Aroclor-1254	2000	U
11096-82-5	Aroclor-1260	2000	U

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-010	Prec.Chrome X109	% Solids	76.8		%	0.10
		Cyanide, Total	1.1	u	MG/KG	1.1
		Sulfide	31.3	u	MG/KG	31.3
		Sulfate	155		MG/KG	63.8

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X109__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-010

Level (low/med): LOW Date Received: 10/28/92

% Solids: 76.8

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14300			P	
7440-36-0	Antimony	9.9	U	N	P	J
7440-38-2	Arsenic	5.4			F	
7440-39-3	Barium	117			P	
7440-41-7	Beryllium	0.70	~~B~~	U	P	
7440-43-9	Cadmium	1.2	U		P	
7440-70-2	Calcium	7790			P	
7440-47-3	Chromium	25.1			P	
7440-48-4	Cobalt	10.2	B		P	
7440-50-8	Copper	17.3			P	
	Cyanide					
7439-89-6	Iron	20800			P	
7439-92-1	Lead	32.2			F	
7439-95-4	Magnesium	5220			P	
7439-96-5	Manganese	721			P	
7439-97-6	Mercury	0.10	U		CV	
7440-02-0	Nickel	19.6			P	
7440-09-7	Potassium	1650			P	
7782-49-2	Selenium	CB 0.38 ~~1.9~~	U	W	F	J
7440-22-4	Silver	1.3	~~B~~	U	P	
7440-23-5	Sodium	224	B		P	
7440-28-0	Thallium	0.41	U		F	J
7440-62-2	Vanadium	34.1			P	
7440-66-6	Zinc	55.1			P	

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X109

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-010

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BQUM09

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 23

Date Analyzed: 11/05/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13.5	~~JB~~U am
67-64-1	Acetone	33	~~B~~U am
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	2	J
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02	Trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-pentanone	13	UJ
591-78-6	2-Hexanone	13	UJ
127-18-4	Tetrachloroethene	76	J
79-34-5	1,1,2,2-Tetrachloroethane	13	UJ
108-88-3	Toluene	13	UJ
108-90-7	Chlorobenzene	13	UJ
100-41-4	Ethylbenzene	13	UJ
100-42-5	Styrene	13	UJ
1330-20-7	Xylene (total)	13	UJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X109

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-010

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM09

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 23 Date Analyzed: 11/05/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Prec.Chrome X109

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-010

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: DB0G44

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	bis(2-Chloroisopropyl)ether	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

an

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Prec.Chrome X109

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: DBDG44

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/92

Injection Volume: 2.0(uL) Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-Butylphthalate	430 ~~100~~	~~JB~~ U am
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~430~~ 32	~~U~~ J JK 4-27-93
117-84-0	Di-n-Octyl phthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

am 5/7/93

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X109

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-010

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: DBDG44

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.42	10000	~~JBU~~ am
2.	UNKNOWN PHTHALATE	23.97	300	~~JBU~~ am
3.	UNKNOWN	25.07	100	J
4.	UNKNOWN	25.19	300	J
5.	UNKNOWN	25.36	500	J
6. 57103	HEXADECANOIC ACID	27.80	100	JN ACD 12-18-92
7. 57114	OCTADECANOIC ACID	30.38	4000	JN ACD 12-18-92
8.	HEXANEDIOIC ACID ESTER	31.48	200	~~JBU~~ am
9.	UNKNOWN ALKANE	33.48	200	J
10.	UNKNOWN ALKANE	35.49	1000	J
11.	UNKNOWN ALKANE	38.06	600	J
12.	UNKNOWN	40.56	2000	J
13.	UNKNOWN	40.88	200	J
14.	UNKNOWN	41.07	400	J
15.	UNKNOWN ALKANE	41.78	200	J
16.	UNKNOWN	42.17	500	J
17.	UNKNOWN	42.35	200	J

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X109

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-010

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: 11289207.33

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 23 dec.

Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y

pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
319-84-6	Alpha-BHC	10	U
319-85-7	Beta-BHC	10	U
319-86-8	Delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	10	U
76-44-8	Heptachlor	10	U
309-00-2	Aldrin	10	U
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	10	U
60-57-1	Dieldrin	3.4	J
72-55-9	4,4'-DDE	21	U
72-20-8	Endrin	21	U
33213-65-9	Endosulfan II	21	U
72-54-8	4,4'-DDD	21	U
1031-07-8	Endosulfan sulfate	21	U
50-29-3	4,4'-DDT	21	U
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin ketone	21	U
5103-71-9	alpha-Chlordane	100	U
5103-74-2	gamma-Chlordane	100	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	210	U
11096-82-5	Aroclor-1260	210	U

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-011	Prec.Chrome X110	% Solids	81.2		%	0.10
		Cyanide, Total	1.2	u	MG/KG	1.2
		Sulfide	30.5	u	MG/KG	30.5
		Sulfate	54.0	u	MG/KG	54.0

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X110__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-011

Level (low/med): LOW Date Received: 10/28/92

% Solids: 81.2

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11100			P	
7440-36-0	Antimony	10.7	B	N	P	J
7440-38-2	Arsenic	4.3			F	
7440-39-3	Barium	91.6			P	
7440-41-7	Beryllium	0.61	~~B~~	U	P	
7440-43-9	Cadmium	1.1	B		P	
7440-70-2	Calcium	18900			P	
7440-47-3	Chromium	141			P	
7440-48-4	Cobalt	10.5	B		P	
7440-50-8	Copper	18.3			P	
	Cyanide					
7439-89-6	Iron	18700			P	
7439-92-1	Lead	31.9			F	
7439-95-4	Magnesium	9480			P	
7439-96-5	Manganese	725			P	
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	19.1			P	
7440-09-7	Potassium	1180			P	
7782-49-2	Selenium	0.36	U		F	J
7440-22-4	Silver	2.0	~~B~~	U	P	
7440-23-5	Sodium	92.5	B		P	
7440-28-0	Thallium	0.39	U		F	J
7440-62-2	Vanadium	26.7			P	
7440-66-6	Zinc	51.5			P	

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X110

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-011

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BQUM17

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 19

Date Analyzed: 11/06/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	12	UJ
74-83-9	Bromomethane	12	UJ
75-01-4	Vinyl Chloride	12	UJ
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	17	J
67-64-1	Acetone	60	~~B~~ UJ am
75-15-0	Carbon Disulfide	12	UJ
75-35-4	1,1-Dichloroethene	12	UJ
75-34-3	1,1-Dichloroethane	12	UJ
540-59-0	1,2-Dichloroethene (total)	12	UJ
67-66-3	Chloroform	12	UJ
107-06-2	1,2-Dichloroethane	12	UJ
78-93-3	2-Butanone	12	UJ
71-55-6	1,1,1-Trichloroethane	12	UJ
56-23-5	Carbon Tetrachloride	12	UJ
75-27-4	Bromodichloromethane	12	UJ
78-87-5	1,2-Dichloropropane	12	UJ
10061-01	cis-1,3-Dichloropropene	12	UJ
79-01-6	Trichloroethene	12	UJ
124-48-1	Dibromochloromethane	12	UJ
79-00-5	1,1,2-Trichloroethane	12	UJ
71-43-2	Benzene	12	UJ
10061-02	Trans-1,3-Dichloropropene	12	UJ
75-25-2	Bromoform	12	UJ
108-10-1	4-Methyl-2-pentanone	12	UJ
591-78-6	2-Hexanone	12	UJ
127-18-4	Tetrachloroethene	12	UJ
79-34-5	1,1,2,2-Tetrachloroethane	12	UJ
108-88-3	Toluene	12	UJ
108-90-7	Chlorobenzene	12	UJ
100-41-4	Ethylbenzene	12	UJ
100-42-5	Styrene	12	UJ
1330-20-7	Xylene (total)	12	UJ

FORM 1 V-1 12/88 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X110

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-011

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM17

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 Date Analyzed: 11/06/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X110RE

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-011

Sample wt/vol: 30.8 (g/mL) G Lab File ID: AADD42

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 dec. Date Extracted: 12/07/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 amy 4/1/93

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

CAS NO.	COMPOUND		
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	bis(2-Chloroisopropyl)ether	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	UJ
88-06-2	2,4,6-Trichlorophenol	400	UJ
95-95-4	2,4,5-Trichlorophenol	1000	UJ
91-58-7	2-Chloronaphthalene	400	UJ
88-74-4	2-Nitroaniline	1000	UJ
131-11-3	Dimethylphthalate	400	UJ
208-96-8	Acenaphthylene	400	UJ
606-20-2	2,6-Dinitrotoluene	400	UJ
99-09-2	3-Nitroaniline	1000	UJ
83-32-9	Acenaphthene	400	UJ

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X110RE

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-011

Sample wt/vol: 30.8 (g/mL) G Lab File ID: AADD42

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 dec. Date Extracted: 12/07/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: ~~0.500~~ 1.0 am 4/1/93

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	1000	UJ
100-02-7	4-Nitrophenol	1000	UJ
132-64-9	Dibenzofuran	400	UJ
121-14-2	2,4-Dinitrotoluene	400	UJ
84-66-2	Diethylphthalate	400	UJ
7005-72-3	4-Chlorophenyl-phenylether	400	UJ
86-73-7	Fluorene	400	UJ
100-01-6	4-Nitroaniline	1000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1000	UJ
86-30-6	N-Nitrosodiphenylamine (1)	400	UJ
101-55-3	4-Bromophenyl-phenylether	400	UJ
118-74-1	Hexachlorobenzene	400	UJ
87-86-5	Pentachlorophenol	1000	UJ
85-01-8	Phenanthrene	400	UJ
120-12-7	Anthracene	400	UJ
86-74-8	Carbazole	400	UJ
84-74-2	Di-n-Butylphthalate	400 ~~280~~	~~JB~~ UJ am
206-44-0	Fluoranthene	400	UJ
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400 ~~100~~	~~JB~~ U am
117-84-0	Di-n-Octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	UJ

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X110RE

Lab Name: Roy F. Weston, Inc. Work Order: 01104-009-001-0

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-011

Sample wt/vol: 30.8 (g/mL) G Lab File ID: AADD42

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 dec. Date Extracted: 12/07/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/11/92

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: ~~0.5~~ 1.0

JK 4-27-93

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	4.24	2000	~~JB~~ U	am
2.	UNKNOWN	5.02	40000	~~JB~~ U	am
3.	UNKNOWN	6.81	1000	~~JB~~ U	am
4.	UNKNOWN	7.32	80	J	
5.	UNKNOWN	7.65	300	J	
6.	UNKNOWN	10.33	100	J	
7.	UNKNOWN	20.37	200	~~JB~~ U	am
8. 57103	HEXADECANOIC ACID	25.67	200	JN	
9.	UNKNOWN ALKANE	35.99	300	J	
10.	UNKNOWN ALKANE	38.80	800	J	
11.	UNKNOWN	41.58	1000	J	

JK 4-27-93 66A ~~1349~~

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X110

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-011

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 11289207.34

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y 11/12/92 pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
319-84-6	Alpha-BHC	9.9	U
319-85-7	Beta-BHC	9.9	U
319-86-8	Delta-BHC	9.9	U
58-89-9	gamma-BHC (Lindane)	9.9	U
76-44-8	Heptachlor	9.9	U
309-00-2	Aldrin	9.9	U
1024-57-3	Heptachlor epoxide	9.9	U
959-98-8	Endosulfan I	9.9	U
60-57-1	Dieldrin	2.5	J
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	20	U
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	20	U
72-43-5	Methoxychlor	99	U
53494-70-5	Endrin ketone	20	U
5103-71-9	alpha-Chlordane	99	U
5103-74-2	gamma-Chlordane	99	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	99	U
11104-28-2	Aroclor-1221	99	U
11141-16-5	Aroclor-1232	99	U
53469-21-9	Aroclor-1242	99	U
12672-29-6	Aroclor-1248	99	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	38	J

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-012	Prec.Chrome X111	% Solids	80.3		%	0.10
		Cyanide, Total	1.2	u	MG/KG	1.2
		Sulfide	31.1	u	MG/KG	31.1
		Sulfate	204		MG/KG	59.9

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X111__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-012

Level (low/med): LOW Date Received: 10/28/92

% Solids: 80.3

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13000			P	
7440-36-0	Antimony	9.1	U	N	P	J
7440-38-2	Arsenic	7.4		S	F	J
7440-39-3	Barium	120			P	
7440-41-7	Beryllium	0.81	~~B~~ U		P	
7440-43-9	Cadmium	1.1	U		P	
7440-70-2	Calcium	8150			P	
7440-47-3	Chromium	36.6			P	
7440-48-4	Cobalt	10.8	B		P	
7440-50-8	Copper	19.5			P	
	Cyanide					
7439-89-6	Iron	22900			P	
7439-92-1	Lead	42.4			F	
7439-95-4	Magnesium	4890			P	
7439-96-5	Manganese	849			P	
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	18.5			P	
7440-09-7	Potassium	1240			P	
7782-49-2	Selenium	0.37	U	W	F	J
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	134	B		P	
7440-28-0	Thallium	0.39	U		F	J
7440-62-2	Vanadium	31.5			P	
7440-66-6	Zinc	59.4			P	

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X111

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-012

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM11

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 20 Date Analyzed: 11/06/92

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	12	UJ
74-83-9	Bromomethane	12	UJ
75-01-4	Vinyl Chloride	12	UJ
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	54	J
67-64-1	Acetone	180	~~B~~ UJ an
75-15-0	Carbon Disulfide	12	UJ
75-35-4	1,1-Dichloroethene	12	UJ
75-34-3	1,1-Dichloroethane	12	UJ
540-59-0	1,2-Dichloroethene (total)	12	UJ
67-66-3	Chloroform	12	UJ
107-06-2	1,2-Dichloroethane	12	UJ
78-93-3	2-Butanone	12	UJ
71-55-6	1,1,1-Trichloroethane	12	UJ
56-23-5	Carbon Tetrachloride	12	UJ
75-27-4	Bromodichloromethane	12	UJ
78-87-5	1,2-Dichloropropane	12	UJ
10061-01	cis-1,3-Dichloropropene	12	UJ
79-01-6	Trichloroethene	12	UJ
124-48-1	Dibromochloromethane	12	UJ
79-00-5	1,1,2-Trichloroethane	12	UJ
71-43-2	Benzene	12	UJ
10061-02	Trans-1,3-Dichloropropene	12	UJ
75-25-2	Bromoform	12	UJ
108-10-1	4-Methyl-2-pentanone	12	UJ
591-78-6	2-Hexanone	12	UJ
127-18-4	Tetrachloroethene	12	UJ
79-34-5	1,1,2,2-Tetrachloroethane	12	UJ
108-88-3	Toluene	12	UJ
108-90-7	Chlorobenzene	12	UJ
100-41-4	Ethylbenzene	12	UJ
100-42-5	Styrene	12	UJ
1330-20-7	Xylene (total)	12	UJ

FORM 1 V-1 12/88 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X111

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-012

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM11

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 20 Date Analyzed: 11/06/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

am 11/7/92

70a

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Prec.Chrome X111

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-012

Sample wt/vol: 30.2 (g/mL) G Lab File ID: DBDG46

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/92

Injection Volume: 2.0(uL) Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	bis(2-Chloroisopropyl)ether	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Prec.Chrome X111

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-012

Sample wt/vol: 30.2 (g/mL) G Lab File ID: DBDG46

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/92

Injection Volume: 2.0(uL) Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-Butylphthalate	~~410~~ 34	~~U~~ J
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	410	U
117-84-0	Di-n-Octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

JK 4-27-93

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X111

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-012

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: DBDG46

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y

pH: 7.0

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	UNKNOWN	4.47	10000	~~JBU~~
2.	UNKNOWN	25.17	200	J
3. 57103	HEXADECANOIC ACID	25.32	200	J
4.	HEXANEDIOIC ACID ESTER	30.42	9000	~~JB~~
5.	UNKNOWN ALKANE	31.48	200	J
6.	UNKNOWN ALKANE	33.47	200	J
7.	UNKNOWN	34.82	100	J
8.	UNKNOWN ALKANE	35.47	1000	J
9.	UNKNOWN ALKANE	38.09	600	J
10.	UNKNOWN	38.53	90	J
11.	UNKNOWN	40.59	2000	J
12.	UNKNOWN	40.90	200	J
13.	UNKNOWN	41.08	600	J
14.	UNKNOWN ALKANE	41.78	200	J
15.	UNKNOWN	42.16	400	J
16.	UNKNOWN	44.71	100	J

JN 12-18-92

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X111

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-012

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 11289207.35

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 20 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
319-84-6	Alpha-BHC	9.9	U
319-85-7	Beta-BHC	9.9	U
319-86-8	Delta-BHC	9.9	U
58-89-9	gamma-BHC (Lindane)	9.9	U
76-44-8	Heptachlor	9.9	U
309-00-2	Aldrin	9.9	U
1024-57-3	Heptachlor epoxide	9.9	U
959-98-8	Endosulfan I	9.9	U
60-57-1	Dieldrin	2.5	J
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	20	U
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	2.5	J
72-43-5	Methoxychlor	99	U
53494-70-5	Endrin ketone	20	U
5103-71-9	alpha-Chlordane	99	U
5103-74-2	gamma-Chlordane	99	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	99	U
11104-28-2	Aroclor-1221	99	U
11141-16-5	Aroclor-1232	99	U
53469-21-9	Aroclor-1242	99	U
12672-29-6	Aroclor-1248	99	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-013	Prec.Chrome X112	% Solids	80.8		%	0.10
		Cyanide, Total	1.1	u	MG/KG	1.1
		Sulfide	28.6	u	MG/KG	28.6
		Sulfate	242		MG/KG	61.9

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

X112__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): SOIL Lab Sample ID: 10G952-013

Level (low/med): LOW Date Received: 10/28/92

% Solids: 80.8

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13800			P	
7440-36-0	Antimony	9.1	U	N	P	J
7440-38-2	Arsenic	4.7			F	
7440-39-3	Barium	116			P	
7440-41-7	Beryllium	0.79	B	U	P	
7440-43-9	Cadmium	1.1	U		P	
7440-70-2	Calcium	8700			P	
7440-47-3	Chromium	45.0			P	
7440-48-4	Cobalt	9.8	B		P	
7440-50-8	Copper	18.7			P	
	Cyanide					
7439-89-6	Iron	22400			P	
7439-92-1	Lead	39.4			F	
7439-95-4	Magnesium	5580			P	
7439-96-5	Manganese	767			P	
7439-97-6	Mercury	0.10	U		CV	
7440-02-0	Nickel	18.6			P	
7440-09-7	Potassium	1430			P	
7782-49-2	Selenium	0.36	U	W	F	J
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	126	B		P	
7440-28-0	Thallium	0.39	U		F	J
7440-62-2	Vanadium	33.3			P	
7440-66-6	Zinc	61.2			P	

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X112

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-013

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: BOUM12

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. 19

Date Analyzed: 11/05/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	~~12~~ 8	~~28~~ U am
67-64-1	Acetone	28	~~8~~ U am
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02	Trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	UJ
591-78-6	2-Hexanone	12	UJ
127-18-4	Tetrachloroethene	12	UJ
79-34-5	1,1,2,2-Tetrachloroethane	12	UJ
108-88-3	Toluene	12	UJ
108-90-7	Chlorobenzene	12	UJ
100-41-4	Ethylbenzene	12	UJ
100-42-5	Styrene	12	UJ
1330-20-7	Xylene (total)	12	UJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X112

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-013

Sample wt/vol: 5.00 (g/mL) G Lab File ID: BQUM12

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 Date Analyzed: 11/05/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

76a

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Prec.Chrome X112

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-013

Sample wt/vol: 30.8 (g/mL) G

Lab File ID: DBDG47

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	bis(2-Chloroisopropyl)ether	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Prec.Chrome X112

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL

Lab Sample ID: 9210G952-013

Sample wt/vol: 30.8 (g/mL) G

Lab File ID: DBDG47

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 11/05/92

Concentrated Extract Volume: 500(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: ~~0.50~~ 1.0 JK 12-16-92

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-Butylphthalate	~~400~~ 28	~~U~~ J
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-Octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

JK 4-27-93

(1) - Cannot be separated from Diphenylamine

28 ~~1301~~

an 5/7/93

1F
SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome X112

Lab Name: Roy F. Weston, Inc. Work Order: 01104-009-001-0

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-013

Sample wt/vol: 30.8 (g/mL) G Lab File ID: DBDG47

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: ~~0.5~~ 1.0 JK 4-27-93

Number TICs found: 17 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	4.50	10000	~~JBU~~	am
2.	UNKNOWN	4.60	100	J	
3. 57103	HEXADECANOIC ACID	25.32	200	JN	
4.	HEXANEDIOIC ACID ESTER	30.43	10000	J~~B~~	am
5.	UNKNOWN ALKANE	33.48	300	J	
6.	UNKNOWN	34.81	100	J	
7.	UNKNOWN ALKANE	35.49	1000	J	
8.	UNKNOWN ALKANE	38.08	600	J	
9.	UNKNOWN	38.21	100	J	
10.	UNKNOWN	38.53	90	J	
11.	UNKNOWN	40.43	200	J	
12.	UNKNOWN	40.61	2000	J	
13.	UNKNOWN	40.92	200	J	
14.	UNKNOWN	41.08	500	J	
15.	UNKNOWN ALKANE	41.78	200	J	
16.	UNKNOWN	42.16	300	J	
17.	UNKNOWN	44.72	100	J	

am 4/7/93 ~~4-27-93~~ 78a ~~1395~~

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome X112

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: SOIL Lab Sample ID: 9210G952-013

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 11289207.36

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. 19 dec. Date Extracted: 11/05/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/29/92

GPC Cleanup: (Y/N) Y 12/1/92 pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	9.8	U
319-85-7	Beta-BHC	9.8	U
319-86-8	Delta-BHC	9.8	U
58-89-9	gamma-BHC (Lindane)	9.8	U
76-44-8	Heptachlor	9.8	U
309-00-2	Aldrin	9.8	U
1024-57-3	Heptachlor epoxide	9.8	U
959-98-8	Endosulfan I	9.8	U
60-57-1	Dieldrin	2.5	J
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	20	U
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	2.5	J
72-43-5	Methoxychlor	98	U
53494-70-5	Endrin ketone	20	U
5103-71-9	alpha-Chlordane	98	U
5103-74-2	gamma-Chlordane	98	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	98	U
11104-28-2	Aroclor-1221	98	U
11141-16-5	Aroclor-1232	98	U
53469-21-9	Aroclor-1242	98	U
12672-29-6	Aroclor-1248	98	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-014	Prec.Chrome G201	Cyanide, Total	0.010	u	MG/L	0.010
		Sulfide	1.0	u	MG/L	1.0
		Sulfate	14.6		MG/L	5.0

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

G201__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): WATER Lab Sample ID: 10G952-014

Level (low/med): LOW Date Received: 10/28/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	43.9	U		P	
7440-36-0	Antimony	38.3	U		P	
7440-38-2	Arsenic	0.70	U		F	J
7440-39-3	Barium	46.5	B		P	
7440-41-7	Beryllium	0.80	U		P	
7440-43-9	Cadmium	4.6	U		P	
7440-70-2	Calcium	80800			P	
7440-47-3	Chromium	5.6	U		P	
7440-48-4	Cobalt	3.6	U		P	
7440-50-8	Copper	5.8	B		P	
	Cyanide					
7439-89-6	Iron	1040			P	
7439-92-1	Lead	7.1		N*	F	J
7439-95-4	Magnesium	44600			P	
7439-96-5	Manganese	30.7			P	
7439-97-6	Mercury	0.20	U	N	CV	J
7440-02-0	Nickel	19.3	U		P	
7440-09-7	Potassium	1690	B		P	
7782-49-2	Selenium	1.5	U		F	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	7410			P	
7440-28-0	Thallium	1.6	U		F	J
7440-62-2	Vanadium	3.3	U		P	
7440-66-6	Zinc	48.6			P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G201

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-014

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BQUM19

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. _____

Date Analyzed: 11/07/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	11	~~B~~U an
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM 1 V-1 12/88 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome G201

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-014

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: BQUM19

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. Date Analyzed: 11/07/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

82a

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G201

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG53

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G201

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG53

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome G201

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-014

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: DBDG53

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 10/29/92

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G201

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-014

Sample wt/vol: 1160 (g/mL) ML Lab File ID: 11169203.32

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 11/01/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.043	U
319-85-7	Beta-BHC	0.043	U
319-86-8	Delta-BHC	0.043	U
58-89-9	gamma-BHC (Lindane)	0.043	U
76-44-8	Heptachlor	0.043	U
309-00-2	Aldrin	0.043	U
1024-57-3	Heptachlor epoxide	0.043	U
959-98-8	Endosulfan I	0.043	U
60-57-1	Dieldrin	0.086	U
72-55-9	4,4'-DDE	0.086	U
72-20-8	Endrin	0.086	U
33213-65-9	Endosulfan II	0.086	U
72-54-8	4,4'-DDD	0.086	U
1031-07-8	Endosulfan sulfate	0.086	U
50-29-3	4,4'-DDT	0.086	U
72-43-5	Methoxychlor	0.43	U
53494-70-5	Endrin ketone	0.086	U
5103-71-9	alpha-Chlordane	0.43	U
5103-74-2	gamma-Chlordane	0.43	U
8001-35-2	Toxaphene	0.86	U
12674-11-2	Aroclor-1016	0.43	U
11104-28-2	Aroclor-1221	0.43	U
11141-16-5	Aroclor-1232	0.43	U
53469-21-9	Aroclor-1242	0.43	U
12672-29-6	Aroclor-1248	0.43	U
11097-69-1	Aroclor-1254	0.86	U
11096-82-5	Aroclor-1260	0.86	U

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-015	Prec.Chrome G202	Cyanide, Total	0.010	u	MG/L	0.010
		Sulfide	1.0	u	MG/L	1.0
		Sulfate	26.8		MG/L	5.0

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

G202__

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): WATER Lab Sample ID: 10G952-015

Level (low/med): LOW Date Received: 10/28/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	43.9	U		P	
7440-36-0	Antimony	38.3	U		P	
7440-38-2	Arsenic	0.70	U		F	J
7440-39-3	Barium	46.6	B		P	
7440-41-7	Beryllium	0.80	U		P	
7440-43-9	Cadmium	4.6	U		P	
7440-70-2	Calcium	77000			P	
7440-47-3	Chromium	5.6	U		P	
7440-48-4	Cobalt	3.6	U		P	
7440-50-8	Copper	5.0	U		P	
	Cyanide					
7439-89-6	Iron	2220			P	
7439-92-1	Lead	1.3	B	WN*	F	J
7439-95-4	Magnesium	40500			P	
7439-96-5	Manganese	36.6			P	
7439-97-6	Mercury	0.20	U	N	CV	J
7440-02-0	Nickel	19.3	U		P	
7440-09-7	Potassium	779	U		P	
7782-49-2	Selenium	1.5	U		F	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	3040	B		P	
7440-28-0	Thallium	1.6	U		F	J
7440-62-2	Vanadium	3.3	U		P	
7440-66-6	Zinc	20.4	U		P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.-

Prec.Chrome G202

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-015

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BQUM20

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. _____

Date Analyzed: 11/07/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~J~~	~~J~~BU am
67-64-1	Acetone	24	~~B~~U am
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM 1 V-1 12/88 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome G202

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-015

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BQUM20

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec.

Date Analyzed: 11/07/92

GC Column: ID: ____(mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G202

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG48

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G202

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG48

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome G202

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-015

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: DBDG48

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 10/29/92

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

90-A
~~1128~~

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G202

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-015

Sample wt/vol: 1060 (g/mL) ML Lab File ID: 11169203.33

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 11/01/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.047	U
319-85-7	Beta-BHC	0.047	U
319-86-8	Delta-BHC	0.047	U
58-89-9	gamma-BHC (Lindane)	0.047	U
76-44-8	Heptachlor	0.047	U
309-00-2	Aldrin	0.047	U
1024-57-3	Heptachlor epoxide	0.047	U
959-98-8	Endosulfan I	0.047	U
60-57-1	Dieldrin	0.094	U
72-55-9	4,4'-DDE	0.094	U
72-20-8	Endrin	0.094	U
33213-65-9	Endosulfan II	0.094	U
72-54-8	4,4'-DDD	0.094	U
1031-07-8	Endosulfan sulfate	0.094	U
50-29-3	4,4'-DDT	0.094	U
72-43-5	Methoxychlor	0.47	U
53494-70-5	Endrin ketone	0.094	U
5103-71-9	alpha-Chlordane	0.47	U
5103-74-2	gamma-Chlordane	0.47	U
8001-35-2	Toxaphene	0.94	U
12674-11-2	Aroclor-1016	0.47	U
11104-28-2	Aroclor-1221	0.47	U
11141-16-5	Aroclor-1232	0.47	U
53469-21-9	Aroclor-1242	0.47	U
12672-29-6	Aroclor-1248	0.47	U
11097-69-1	Aroclor-1254	0.94	U
11096-82-5	Aroclor-1260	0.94	U

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-016	Prec.Chrome G203	Cyanide, Total	0.010	u	MG/L	0.010
		Sulfide	1.0	u	MG/L	1.0
		Sulfate	76.8		MG/L	25.0

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

G203

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): WATER Lab Sample ID: 10G952-016

Level (low/med): LOW Date Received: 10/28/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	43.9	U		P	
7440-36-0	Antimony	38.3	U		P	
7440-38-2	Arsenic	0.70	U		F	J
7440-39-3	Barium	44.4	B		P	
7440-41-7	Beryllium	0.80	U		P	
7440-43-9	Cadmium	4.6	U		P	
7440-70-2	Calcium	78900			P	
7440-47-3	Chromium	5.6	U		P	
7440-48-4	Cobalt	3.6	U		P	
7440-50-8	Copper	6.4	B		P	
	Cyanide					
7439-89-6	Iron	1090			P	
7439-92-1	Lead	1.2	B	N*	F	J
7439-95-4	Magnesium	43800			P	
7439-96-5	Manganese	29.1			P	
7439-97-6	Mercury	0.20	U	N	CV	J
7440-02-0	Nickel	19.3	U		P	
7440-09-7	Potassium	1530	B		P	
7782-49-2	Selenium	1.5	U		F	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	7270			P	
7440-28-0	Thallium	1.6	U		F	J
7440-62-2	Vanadium	3.3	U		P	
7440-66-6	Zinc	91.1			P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. -

Prec.Chrome G203

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-016

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BQUM21

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. _____

Date Analyzed: 11/07/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome G203

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-016

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: BQUM21

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. Date Analyzed: 11/07/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G203

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-016

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG49

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G203

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-016

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG49

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.7	J
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM 1 SV-2 12/88 Rev.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome G203

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-016

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: DBDG49

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 10/29/92

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G203

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-016

Sample wt/vol: 1030 (g/mL) ML Lab File ID: 11169203.34

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 11/01/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.048	U
319-85-7	Beta-BHC	0.048	U
319-86-8	Delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.097	U
72-55-9	4,4'-DDE	0.097	U
72-20-8	Endrin	0.097	U
33213-65-9	Endosulfan II	0.097	U
72-54-8	4,4'-DDD	0.097	U
1031-07-8	Endosulfan sulfate	0.097	U
50-29-3	4,4'-DDT	0.097	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.097	U
5103-71-9	alpha-Chlordane	0.48	U
5103-74-2	gamma-Chlordane	0.48	U
8001-35-2	Toxaphene	0.97	U
12674-11-2	Aroclor-1016	0.48	U
11104-28-2	Aroclor-1221	0.48	U
11141-16-5	Aroclor-1232	0.48	U
53469-21-9	Aroclor-1242	0.48	U
12672-29-6	Aroclor-1248	0.48	U
11097-69-1	Aroclor-1254	0.97	U
11096-82-5	Aroclor-1260	0.97	U

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-017	Prec.Chrome G501	Cyanide, Total	0.010	u	MG/L	0.010
		Sulfide	1.0	u	MG/L	1.0
		Sulfate	13.6		MG/L	5.0

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

G501_

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): WATER Lab Sample ID: 10G952-017

Level (low/med): LOW Date Received: 10/28/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	43.9	U		P	
7440-36-0	Antimony	38.3	U		P	
7440-38-2	Arsenic	0.70	U		F	J
7440-39-3	Barium	44.8	B		P	
7440-41-7	Beryllium	0.80	U		P	
7440-43-9	Cadmium	4.6	U		P	
7440-70-2	Calcium	66300			P	
7440-47-3	Chromium	5.6	U		P	
7440-48-4	Cobalt	3.6	U		P	
7440-50-8	Copper	5.0	U		P	
	Cyanide					
7439-89-6	Iron	321			P	
7439-92-1	Lead	1.0	U	WN*	F	J
7439-95-4	Magnesium	42400	U		P	
7439-96-5	Manganese	2.1	U		P	
7439-97-6	Mercury	0.20	U	N	CV	J
7440-02-0	Nickel	19.3	U		P	
7440-09-7	Potassium	809	B		P	
7782-49-2	Selenium	1.5	U		F	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	7070			P	
7440-28-0	Thallium	1.6	U		F	J
7440-62-2	Vanadium	3.3	U		P	
7440-66-6	Zinc	17.7	~~B~~ U		P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. -

Prec.Chrome G501

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-017

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: BOUM22

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ Date Analyzed: 11/07/92

Column: (pack/cap) PACK Dilution Factor: 1.00

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

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

FORM 1 V-1 12/88 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome G501

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-017

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BQUM22

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec.

Date Analyzed: 11/07/92

GC Column: ID: ____(mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

am 2/2/93

100a

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G501

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-017

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG50

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G501

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-017

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG50

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM 1 SV-2 12/88 Rev.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome G501

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-017

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: DBDG50

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 10/29/92

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome G501

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-017

Sample wt/vol: 780 (g/mL) ML Lab File ID: 11169203.38

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 11/01/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.064	U
319-85-7	Beta-BHC	0.064	U
319-86-8	Delta-BHC	0.064	U
58-89-9	gamma-BHC (Lindane)	0.064	U
76-44-8	Heptachlor	0.064	U
309-00-2	Aldrin	0.064	U
1024-57-3	Heptachlor epoxide	0.064	U
959-98-8	Endosulfan I	0.064	U
60-57-1	Dieldrin	0.13	U
72-55-9	4,4'-DDE	0.13	U
72-20-8	Endrin	0.13	U
33213-65-9	Endosulfan II	0.13	U
72-54-8	4,4'-DDD	0.13	U
1031-07-8	Endosulfan sulfate	0.13	U
50-29-3	4,4'-DDT	0.13	U
72-43-5	Methoxychlor	0.64	U
53494-70-5	Endrin ketone	0.13	U
5103-71-9	alpha-Chlordane	0.64	U
5103-74-2	gamma-Chlordane	0.64	U
8001-35-2	Toxaphene	1.3	U
12674-11-2	Aroclor-1016	0.64	U
11104-28-2	Aroclor-1221	0.64	U
11141-16-5	Aroclor-1232	0.64	U
53469-21-9	Aroclor-1242	0.64	U
12672-29-6	Aroclor-1248	0.64	U
11097-69-1	Aroclor-1254	1.3	U
11096-82-5	Aroclor-1260	1.3	U

FORM 1 PEST 12/88 Rev.

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-018	Prec.Chrome S101	Cyanide, Total	0.010	u	MG/L	0.010
		Sulfide	1.0	u	MG/L	1.0
		Sulfate	73.2		MG/L	25.0

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S101

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): WATER Lab Sample ID: 10G952-018

Level (low/med): LOW Date Received: 10/28/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	43.9	U		P	
7440-36-0	Antimony	38.3	U		P	
7440-38-2	Arsenic	0.70	U		F	J
7440-39-3	Barium	31.1	B		P	
7440-41-7	Beryllium	0.80	U		P	
7440-43-9	Cadmium	4.6	U		P	
7440-70-2	Calcium	84300			P	
7440-47-3	Chromium	792			P	
7440-48-4	Cobalt	3.6	U		P	
7440-50-8	Copper	5.0	U		P	
	Cyanide					
7439-89-6	Iron	128	U		P	
7439-92-1	Lead	1.0	U	WN*	F	J
7439-95-4	Magnesium	44400			P	
7439-96-5	Manganese	20.1			P	
7439-97-6	Mercury	0.20	U	N	CV	J
7440-02-0	Nickel	19.3	U		P	
7440-09-7	Potassium	1490	B		P	
7782-49-2	Selenium	1.5	U		F	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	7170			P	
7440-28-0	Thallium	1.6	U		F	J
7440-62-2	Vanadium	3.3	U		P	
7440-66-6	Zinc	6.3	~~B~~ U		P	

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO. -

Prec.Chrome S101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-018

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BQUM23

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. _____

Date Analyzed: 11/08/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~1~~	~~J~~BU an
67-64-1	Acetone	11	~~B~~U an
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	1	J
10061-02	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome S101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-018

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: BQUM23

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. Date Analyzed: 11/08/92

GC Column: ID: ____(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

106a

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome S101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-018

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG51

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome S101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-018

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG51

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome S101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-018

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: DBDG51

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 10/29/92

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

108A
1 ~~1~~

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome S101

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-018

Sample wt/vol: 880 (g/mL) ML Lab File ID: 11169203.39

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 11/01/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.057	U
319-85-7	Beta-BHC	0.057	U
319-86-8	Delta-BHC	0.057	U
58-89-9	gamma-BHC (Lindane)	0.057	U
76-44-8	Heptachlor	0.057	U
309-00-2	Aldrin	0.057	U
1024-57-3	Heptachlor epoxide	0.057	U
959-98-8	Endosulfan I	0.057	U
60-57-1	Dieldrin	0.11	U
72-55-9	4,4'-DDE	0.11	U
72-20-8	Endrin	0.11	U
33213-65-9	Endosulfan II	0.11	U
72-54-8	4,4'-DDD	0.11	U
1031-07-8	Endosulfan sulfate	0.11	U
50-29-3	4,4'-DDT	0.11	U
72-43-5	Methoxychlor	0.57	U
53494-70-5	Endrin ketone	0.11	U
5103-71-9	alpha-Chlordane	0.57	U
5103-74-2	gamma-Chlordane	0.57	U
8001-35-2	Toxaphene	1.1	U
12674-11-2	Aroclor-1016	0.57	U
11104-28-2	Aroclor-1221	0.57	U
11141-16-5	Aroclor-1232	0.57	U
53469-21-9	Aroclor-1242	0.57	U
12672-29-6	Aroclor-1248	0.57	U
11097-69-1	Aroclor-1254	1.1	U
11096-82-5	Aroclor-1260	1.1	U

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 12/23/92

CLIENT: Illinois EPA
WORK ORDER: 1104-09-01-0000

WESTON BATCH #: 9210G952

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-019	Prec.Chrome S102	Cyanide, Total	0.010	u	MG/L	0.010
		Sulfide	1.0	u	MG/L	1.0
		Sulfate	66.0		MG/L	25.0

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S102

Lab Name: WESTON Gulf Coast Lab Contract:

Lab Code: WESGCL Case No.: SAS No.: SDG No.: CLP952

Matrix (soil/water): WATER Lab Sample ID: 10G952-019

Level (low/med): LOW Date Received: 10/28/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	43.9	U		P	
7440-36-0	Antimony	38.3	U		P	
7440-38-2	Arsenic	0.70	U		F	J
7440-39-3	Barium	31.4	B		P	
7440-41-7	Beryllium	0.80	U		P	
7440-43-9	Cadmium	4.6	U		P	
7440-70-2	Calcium	86500			P	
7440-47-3	Chromium	812			P	
7440-48-4	Cobalt	3.6	U		P	
7440-50-8	Copper	5.0	U		P	
	Cyanide					
7439-89-6	Iron	117	U		P	
7439-92-1	Lead	1.0	U	WN*	F	J
7439-95-4	Magnesium	45700			P	
7439-96-5	Manganese	20.5			P	
7439-97-6	Mercury	0.20	U	N	CV	J
7440-02-0	Nickel	19.3	U		P	
7440-09-7	Potassium	1640	B		P	
7782-49-2	Selenium	1.5	U		F	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	7280			P	
7440-28-0	Thallium	1.6	U		F	J
7440-62-2	Vanadium	3.3	U		P	
7440-66-6	Zinc	6.1	~~B~~ U		P	

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome S102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-019

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BQUM26

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec. _____

Date Analyzed: 11/08/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome S102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-019

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BQUM26

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: not dec.

Date Analyzed: 11/08/92

GC Column: ID: ____(mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

am 11/12/92

N2a

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome S102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG52

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome S102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: DBDG52

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 10/29/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	0.8	J
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Prec.Chrome S102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER

Lab Sample ID: 9210G952-019

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: DBDG52

Level: (low/med) LOW

Date Received: 10/28/92

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 10/29/92

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 11/27/92

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

Prec.Chrome S102

Lab Name: Roy F. Weston, Inc. Work Order: 1104-09-01-0000

Client: Illinois EPA

Matrix: WATER Lab Sample ID: 9210G952-019

Sample wt/vol: 950 (g/mL) ML Lab File ID: 11169203.40

Level: (low/med) LOW Date Received: 10/28/92

% Moisture: not dec. _____ dec. Date Extracted: 11/01/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.052	U
319-85-7	Beta-BHC	0.052	U
319-86-8	Delta-BHC	0.052	U
58-89-9	gamma-BHC (Lindane)	0.052	U
76-44-8	Heptachlor	0.052	U
309-00-2	Aldrin	0.052	U
1024-57-3	Heptachlor epoxide	0.052	U
959-98-8	Endosulfan I	0.052	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.52	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.52	U
5103-74-2	gamma-Chlordane	0.52	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.52	U
11104-28-2	Aroclor-1221	0.52	U
11141-16-5	Aroclor-1232	0.52	U
53469-21-9	Aroclor-1242	0.52	U
12672-29-6	Aroclor-1248	0.52	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1 PEST 12/88 Rev.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 Mary A. Gade, Director

September 30, 1998

Jeanne Griffin
Site Assessment Manager
Site Assessment Section
Region V Offices HSE-5J
U.S. Environmental Protection Agency
77 West Jackson
Chicago, Illinois 60604

Dear Ms. Griffin:

Please find enclosed a copy of the CERCLA Pre-CERCLIS Action Report for the Precision Chrome/Dry Dock Laundromat site in Fox Lake, Illinois (ILG000000001).

Should you have any questions or comments concerning the enclosed documents, please feel free to call me at 217/782-6760.

Sincerely,

Kenneth W. Corkill
Site Assessment Unit
Bureau of Land Pollution Control

9/30/98
logged in

Enclosure

do not enter into CERCLIS

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