START 9613451.1541

9104L394-WES-057

0044564

DON'T SAY IT --- *Write It!*

DATE: December 7, 1993

TO: File 9104L394-WES-057

FROM: Doris Ayres SDLA

Telephone: 372-2507

SUBJECT: Changing Client Sample Numbers to HEIS sample numbers

The following sample numbers were changed within the referenced package:

Old Client Sample Number	New HEIS Sample Number
D1-4231-23	B09N49
D1-4231-24	B09N50
D3-4231-19	B09N77
D3-4231-20	B09N78

RECEIVED JUN 1996 EDMC

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only
9104L394

WS-Hanford

Client: ~~Virgina Rohay~~ WESTINGHOUSE-HANFORD
Work Order: ~~Project # 91-025 saf 67~~ 6/16/02-01
Date Rec'd. 4/25/91 Date Due 5/30/91
RFW Contact: J. King
Client Contact/Phone: V. Rohay (509)376-5507

Refrigerator#	N/A
#/Type Container	glass
Volume	125ml
Preservative	N/A
ANALYSES REQUESTED	VOA

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	0624H
001	D1-4231-23	S	4/23/91	xx
2	D1-4231-24	'	"	x
3	D3-4231-19	'	"	x
4	D3-4231-20	'	"	x

QC/Del = CLP
TAT = 35 day

Matrix: S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions:

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
	Emery	P. Geiger	4/25/91	11:30					
RAD SCEN	P. Geiger	Charles Pyle	4-25-91	12:00pm					
STORAGE	Charles Pyle	P. Geiger	4-25-91	1:35PM					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed) Y N
NOTES:

4 Properly Preserved Y N
NOTES:

5 Received Within Holding Times Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

RFW 21-21-001/A-12/88

7-115

0000002

9613451.1542

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, HSL List

Report Date: 06/26/91 09:49

RFW Batch Number: 9104L394 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Page: 1a

Cust ID:	D1-4231-23		D1-4231-24		D3-4231-19		D3-4231-20		VBLK	
Sample Information RFW#:	001		002		003		004		91LVY087-MB1	
Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
D.F.:	0.980		1.00		1.00		0.980		1.00	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Toluene-d8	96	%	95	%	81	%	99	%	99	%
Surrogate Bromofluorobenzene	95	%	93	%	82	%	96	%	97	%
Recovery 1,2-Dichloroethane-d4	105	%	102	%	89	%	110	%	102	%
		fl		fl		fl		fl		fl
Chloromethane	11	U	11	U	11	U	10	U	10	U
Bromomethane	11	U	11	U	11	U	10	U	10	U
Vinyl Chloride	11	U	11	U	11	U	10	U	10	U
Chloroethane	11	U	11	U	11	U	10	U	10	U
Methylene Chloride	37	B	37	B	32	B	29	B	16	
Acetone	39	B	39	B	27	B	24	B	9	J
Carbon Disulfide	6	U	6	U	6	U	5	U	5	U
1,1-Dichloroethene	6	U	6	U	6	U	5	U	5	U
1,1-Dichloroethane	6	U	6	U	6	U	5	U	5	U
1,2-Dichloroethene (total)	6	U	6	U	6	U	5	U	5	U
Chloroform	6	U	6	U	6	U	5	U	5	U
1,2-Dichloroethane	6	U	6	U	6	U	5	U	5	U
2-Butanone	11	U	11	U	11	U	10	U	10	U
1,1,1-Trichloroethane	6	U	6	U	6	U	5	U	5	U
Carbon Tetrachloride	6	U	6	U	6	U	5	U	5	U
Vinyl Acetate	11	U	11	U	11	U	10	U	10	U
Bromodichloromethane	6	U	6	U	6	U	5	U	5	U
1,2-Dichloropropane	6	U	6	U	6	U	5	U	5	U
cis-1,3-Dichloropropene	6	U	6	U	6	U	5	U	5	U
Trichloroethene	6	U	6	U	6	U	5	U	5	U
Dibromochloromethane	6	U	6	U	6	U	5	U	5	U
1,1,2-Trichloroethane	6	U	6	U	6	U	5	U	5	U
Benzene	6	U	6	U	6	U	5	U	5	U
Trans-1,3-Dichloropropene	6	U	6	U	6	U	5	U	5	U
Bromoform	6	U	6	U	6	U	5	U	5	U
4-Methyl-2-pentanone	11	U	11	U	11	U	10	U	10	U
2-Hexanone	11	U	11	U	11	U	10	U	10	U
Tetrachloroethene	6	U	6	U	6	U	5	U	5	U
1,1,2,2-Tetrachloroethane	6	U	6	U	6	U	5	U	5	U

*= Outside of EPA CLP QC limits.

0000004

9613451.1543

Cust ID:	D1-4231-23		D1-4231-24		D3-4231-19		D3-4231-20		VBLK	
RFW#:	001		002		003		004		91LVY087-MB1	
Toluene	6	U	6	U	6	U	5	U	5	U
Chlorobenzene	6	U	6	U	6	U	5	U	5	U
Ethylbenzene	6	U	6	U	6	U	5	U	5	U
Styrene	6	U	6	U	6	U	5	U	5	U
Xylene (total)	6	U	6	U	6	U	5	U	5	U

*= Outside of EPA CLP QC limits.

0000005

9613451.1544

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE - HANFORD **SAMPLES RECEIVED:** 04-25-91
RFW #: 9104L394, GC/MS VOLATILE
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of four (4) soil samples collected on 04-23-91.

The samples were analyzed according to criteria set forth in SW 846 Method 8240 for TCL Volatile target compounds on 05-01-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were not detected in these samples.

2. All surrogate recoveries were within EPA QC limits.

3. Matrix spike and spike duplicate samples are associated with RFW lot 9104L328.

4. The laboratory blank contained the common contaminants methylene chloride and acetone at levels less than 4x the CRQL.

5. All internal standard area and retention time criteria were met.

7.1.91.

Jack R. Tuschall, Ph.D. Date
Laboratory Manager
Lionville Analytical Laboratory

9613451.1546

00000 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET

D1-4231-23

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9104L394-001

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: Y050104

Level: (low/med) LOW

Date Received: 04/25/91

% Moisture: not dec. 7

Date Analyzed: 05/01/91

Column: (pack/cap) PACK

Dilution Factor: 0.980

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	37	B
67-64-1	Acetone	39	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

9613451.1547

00000 16 4/21/95

00000 ~~12~~ CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

D1-4231-23

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9104L394-001

Sample wt/vol: 5.10 (g/mL) G Lab File ID: Y050104

Level: (low/med) LOW Date Received: 04/25/91

% Moisture: not dec. 7 Date Analyzed: 05/01/91

Column: (pack/cap) PACK Dilution Factor: 0.980

Number TICs found: 0

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

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

9613451.1548

1A

VOLATILE ORGANICS ANALYSIS SHEET

000002 CLIENT SAMPLE NO.

D1-4231-24

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9104L394-002

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

Lab File ID: Y050105

Level: (low/med) LOW

Date Received: 04/25/91

% Moisture: not dec. 6

Date Analyzed: 05/01/91

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	37	B
67-64-1	Acetone	39	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

9613451.1549

00000 25 4 6/21/95

00000 25 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

D1-4231-24

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9104L394-002

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

Lab File ID: Y050105

Level: (low/med) LOW

Date Received: 04/25/91

% Moisture: not dec. 6

Date Analyzed: 05/01/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613451.1550

1A

VOLATILE ORGANICS ANALYSIS SHEET

0000033 4/6/21/95

0000033

CLIENT SAMPLE NO.

D3-4231-19

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9104L394-003

Sample wt/vol: 5.00 (g/mL) G Lab File ID: Y050106

Level: (low/med) LOW Date Received: 04/25/91

% Moisture: not dec. 6 Date Analyzed: 05/01/91

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	32	B
67-64-1	Acetone	27	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

9613451.1551

00000 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

D3-4231-19

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9104L394-003

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

Lab File ID: Y050106

Level: (low/med) LOW

Date Received: 04/25/91

% Moisture: not dec. 6

Date Analyzed: 05/01/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613451.1552

1A

000004

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

D3-4231-20

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9104L394-004

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: Y050107

Level: (low/med) LOW

Date Received: 04/25/91

% Moisture: not dec. 5

Date Analyzed: 05/01/91

Column: (pack/cap) PACK

Dilution Factor: 0.980

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	29	B
67-64-1	Acetone	24	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

9613451.1553

0000042

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

D3-4231-20

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9104L394-004

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: Y050107

Level: (low/med) LOW

Date Received: 04/25/91

% Moisture: not dec. 5

Date Analyzed: 05/01/91

Column: (pack/cap) PACK

Dilution Factor: 0.980

Number TICs found: 0

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

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

FORM 1 VOA-TIC

12/88 Rev.