ROY F. WESTON, INC.
LIONVILLE ANALYTICAL LABORATORY
ANALYTICAL CASE NARRATIVE

Client: M&E SPARTON
RFW #: 9410L747

W.O. #: 03272-036-002-9999-00
Date Received: 10-26-94

GC/MS VOLATILE

The set of samples consisted of fourteen (14) water samples collected on 10-24,25-94.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Volatile target compounds on 10-27,28,31-94.

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

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

2. The following samples required dilution because they contained high levels of target compounds:

Sample ID	Dilution Factor
MW-61	5
MW-41	2.5
MW-32	10
MW-55	5
MW-13	5
MW-56, MS,MSD	2

3. All surrogate recoveries were within EPA QC limits.

4. All matrix spike recoveries were within EPA QC limits.

5. The laboratory blanks contained the common contaminant Acetone at levels less than the CRQL.

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

7. CLP SOW 02/88 (Rev. 05/89) initial calibration concentrations were modified with client approval. The initial calibration levels were 10, 20, 50, 100, and 200 ug/L.

J. Peter Hershey, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

11.30.94
Date

003133

mmz/voa/10-747v.cn

2017 mt 11/30/9

GLOSSARY OF VOA DATA

DATA QUALIFIERS

U	=	Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
J	=	Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
B	=	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
E	=	Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
D	=	Identifies all compounds identified in an analysis at a secondary dilution factor.
I	=	Interference.
NQ	=	Result qualitatively confirmed but not able to quantify.
N	=	Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
X	=	This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
Y	=	Additional qualifiers used as required are explained in the case narrative.

GLOSSARY OF VOA DATA

ABBREVIATIONS

BS	=	Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
BSD	=	Indicates blank spike duplicate.
MS	=	Indicates matrix spike.
MSD	=	Indicates matrix spike duplicate.
DL	=	Suffix added to sample number to indicate that results are from a diluted analysis.
NA	=	Not Applicable.
DF	=	Dilution Factor.
NR	=	Not Required.
SP, Z	=	Indicates Spiked Compound.

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

Report Date: 11/29/94 14:26

RFW Batch Number: 9410L747 Client: M&E SPARTON Work Order: 03272036002 Page: 1a

	Cust ID:	MW-52		MW-53		MW-61		MW-61		MW-41		MW-41	
Sample Information	RFW#:	001		002		003		003 DL		004		004 DL	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		1.00		1.00		5.00		1.00		2.50	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	Toluene-d8	99	%	102	%	101	%	98	%	104	%	100	%
	Bromofluorobenzene	96	%	99	%	97	%	95	%	102	%	95	%
	1,2-Dichloroethane-d4	95	%	93	%	95	%	94	%	95	%	99	%
Chloromethane		10	U	10	U	10	U	50	U	10	U	25	U
Bromomethane		10	U	10	U	10	U	50	U	10	U	25	U
Vinyl Chloride		10	U	10	U	10	U	50	U	10	U	25	U
Chloroethane		10	U	10	U	10	U	50	U	10	U	25	U
Methylene Chloride		5	U	5	U	5	U	25	U	88		75	D
Acetone		10	U	10	U	10	U	50	U	10	U	25	U
Carbon Disulfide		5	U	5	U	5	U	25	U	5	U	12	U
1,1-Dichloroethene		5	U	5	U	36		32	D	74		70	D
1,1-Dichloroethane		5	U	5	U	5	U	25	U	5	U	12	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	25	U	5	U	12	U
Chloroform		5	U	5	U	5	U	25	U	2	J	12	U
1,2-Dichloroethane		5	U	5	U	5	U	25	U	5	U	12	U
2-Butanone		10	U	10	U	10	U	50	U	10	U	25	U
1,1,1-Trichloroethane		5	U	5	U	9		8	JD	72		76	D
Carbon Tetrachloride		5	U	5	U	5	U	25	U	5	U	12	U
Vinyl Acetate		10	U	10	U	10	U	50	U	10	U	25	U
Bromodichloromethane		5	U	5	U	5	U	25	U	5	U	12	U
1,2-Dichloropropane		5	U	5	U	5	U	25	U	5	U	12	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	25	U	5	U	12	U
Trichloroethene		5	U	43		710	E *	730	D	480	E	450	D
Dibromochloromethane		5	U	5	U	5	U	25	U	5	U	12	U
1,1,2-Trichloroethane		5	U	5	U	5	U	25	U	5	U	12	U
Benzene		5	U	5	U	5	U	25	U	5	U	12	U
Trans-1,3-Dichloropropene		5	U	5	U	5	U	25	U	5	U	12	U
Bromoform		5	U	5	U	5	U	25	U	5	U	12	U
4-Methyl-2-pentanone		10	U	10	U	10	U	50	U	10	U	25	U
2-Hexanone		10	U	10	U	10	U	50	U	10	U	25	U
Tetrachloroethene		5	U	5	U	6		6	JD	6		6	JD
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	25	U	5	U	12	U

*= Outside of EPA CLP QC limits.

* E = analyzed at dilution

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RFW Batch Number: **9410L747** Client: **M&E SPARTON** Work Order: 03272036002 Page: 1b

Cust ID:	MW-52	MW-53	MW-61	MW-61	MW-41	MW-41
RFW#:	001	002	003	003 DL	004	004 DL
Toluene	5 U	5 U	5 U	25 U	5 U	12 U
Chlorobenzene	5 U	5 U	5 U	25 U	5 U	12 U
Ethylbenzene	5 U	5 U	5 U	25 U	5 U	12 U
Styrene	5 U	5 U	5 U	25 U	5 U	12 U
Xylene (total)	5 U	5 U	5 U	25 U	5 U	12 U

*= Outside of EPA CLP QC limits.

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

Report Date: 11/29/94 14:26

RFW Batch Number: **9410L747** Client: **M&E SPARTON** Work Order: 03272036002 Page: 2a

	Cust ID:	MW-32		MW-32		MW-15		MW-55		MW-55		MW-13	
Sample Information	RFW#:	005		005 DL		006		007		007 DL		008	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		10.0		1.00		1.00		5.00		1.00	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	Toluene-d8	101	%	99	%	104	%	101	%	101	%	100	%
	Bromofluorobenzene	95	%	95	%	100	%	100	%	96	%	98	%
	1,2-Dichloroethane-d4	93	%	97	%	100	%	94	%	95	%	99	%
Chloromethane		10	U	100	U	10	U	10	U	50	U	10	U
Bromomethane		10	U	100	U	10	U	10	U	50	U	10	U
Vinyl Chloride		10	U	100	U	10	U	10	U	50	U	10	U
Chloroethane		10	U	100	U	10	U	10	U	50	U	10	U
Methylene Chloride		5	U	16	JD	5	U	5	U	25	U	5	U
Acetone		10	U	100	U	10	U	10	U	50	U	10	U
Carbon Disulfide		5	U	50	U	5	U	5	U	25	U	5	U
1,1-Dichloroethene		300	E	290	D	5	U	5		25	U	5	
1,1-Dichloroethane		15		14	JD	5	U	5	U	25	U	5	U
1,2-Dichloroethene (total)		1	J	50	U	5	U	5	U	25	U	5	U
Chloroform		5	U	50	U	9		5	U	25	U	5	U
1,2-Dichloroethane		5	U	50	U	5	U	5	U	25	U	5	U
2-Butanone		10	U	100	U	10	U	10	U	50	U	10	U
1,1,1-Trichloroethane		120		90	D	5	U	5	U	25	U	5	U
Carbon Tetrachloride		5	U	50	U	5	U	5	U	25	U	5	U
Vinyl Acetate		10	U	100	U	10	U	10	U	50	U	10	U
Bromodichloromethane		5	U	50	U	5	U	5	U	25	U	5	U
1,2-Dichloropropane		5	U	50	U	5	U	5	U	25	U	5	U
cis-1,3-Dichloropropene		5	U	50	U	5	U	5	U	25	U	5	U
Trichloroethene		1300	E	1500	D	5	U	530	E	580	D	*490	E
Dibromochloromethane		5	U	50	U	5	U	5	U	25	U	5	U
1,1,2-Trichloroethane		2	J	50	U	5	U	5	U	25	U	5	U
Benzene		3	J	50	U	5	U	5	U	25	U	5	U
Trans-1,3-Dichloropropene		5	U	50	U	5	U	5	U	25	U	5	U
Bromoform		5	U	50	U	5	U	5	U	25	U	5	U
4-Methyl-2-pentanone		7	J	100	U	10	U	10	U	50	U	10	U
2-Hexanone		10	U	100	U	10	U	10	U	50	U	10	U
Tetrachloroethene		20		16	JD	5	U	5	U	25	U	5	U
1,1,2,2-Tetrachloroethane		5	U	50	U	5	U	5	U	25	U	5	U

*= Outside of EPA CLP QC limits.

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RFW Batch Number: 9410L747 Client: M&E SPARTON Work Order: 03272036002 Page: 2b

Cust ID:	MW-32	MW-32	MW-15	MW-55	MW-55	MW-13
RFW#:	005	005 DL	006	007	007 DL	008
Toluene	3 J	50 U	5 U	5 U	25 U	5 U
Chlorobenzene	2 J	50 U	5 U	5 U	25 U	5 U
Ethylbenzene	3 J	50 U	5 U	5 U	25 U	5 U
Styrene	5 U	50 U	5 U	5 U	25 U	5 U
Xylene (total)	5	50 U	5 U	5 U	25 U	5 U

*= Outside of EPA CLP QC limits.

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

RFW Batch Number: 9410L747 Client: M&E SPARTON Work Order: 03272036002 Page: 3a Report Date: 11/29/94 14:26

Sample Information	Cust ID:	MW-13		MW-56		MW-56		MW-56		MW-56		MW-57	
	RFW#:	008 DL		009		009 DL		009 MS		009 MSD		010	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	5.00		1.00		2.00		2.00		2.00		1.00	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	Toluene-d8	96	%	99	%	102	%	98	%	96	%	100	%
	Bromofluorobenzene	91	%	95	%	98	%	95	%	99	%	98	%
	1,2-Dichloroethane-d4	96	%	93	%	99	%	96	%	99	%	95	%
Chloromethane		50	U	10	U	20	U	20	U	20	U	10	U
Bromomethane		50	U	10	U	20	U	20	U	20	U	10	U
Vinyl Chloride		50	U	10	U	20	U	20	U	20	U	10	U
Chloroethane		50	U	10	U	20	U	20	U	20	U	10	U
Methylene Chloride		25	U	5	U	10	U	10	U	10	U	5	U
Acetone		50	U	10	U	20	U	20	U	20	U	10	U
Carbon Disulfide		25	U	5	U	10	U	10	U	10	U	5	U
1,1-Dichloroethene		25	U	9		9	JD	119	% ?	114	% ?	5	U
1,1-Dichloroethane		25	U	5	U	10	U	10	U	10	U	5	U
1,2-Dichloroethene (total)		25	U	5	U	10	U	10	U	10	U	5	U
Chloroform		25	U	5	U	10	U	10	U	10	U	5	U
1,2-Dichloroethane		25	U	5	U	10	U	10	U	10	U	5	U
2-Butanone		50	U	10	U	20	U	20	U	20	U	10	U
1,1,1-Trichloroethane		25	U	5	U	10	U	10	U	10	U	5	U
Carbon Tetrachloride		25	U	5	U	10	U	10	U	10	U	5	U
Vinyl Acetate		50	U	10	U	20	U	20	U	20	U	10	U
Bromodichloromethane		25	U	5	U	10	U	10	U	10	U	5	U
1,2-Dichloropropane		25	U	5	U	10	U	10	U	10	U	5	U
cis-1,3-Dichloropropene		25	U	5	U	10	U	10	U	10	U	5	U
Trichloroethene		600	D	370	E	400	D	103	% ?	84	% ?	5	U
Dibromochloromethane		25	U	5	U	10	U	10	U	10	U	5	U
1,1,2-Trichloroethane		25	U	5	U	10	U	10	U	10	U	5	U
Benzene		25	U	5	U	10	U	100	% ?	98	% ?	5	U
Trans-1,3-Dichloropropene		25	U	5	U	10	U	10	U	10	U	5	U
Bromoform		25	U	5	U	10	U	10	U	10	U	5	U
4-Methyl-2-pentanone		50	U	10	U	20	U	20	U	20	U	10	U
2-Hexanone		50	U	10	U	20	U	20	U	20	U	10	U
Tetrachloroethene		25	U	5	U	10	U	10	U	10	U	5	U
1,1,2,2-Tetrachloroethane		25	U	5	U	10	U	10	U	10	U	5	U

for MS

for MSD

*= Outside of EPA CLP QC limits.

003140

RFW Batch Number: 9410L747 Client: M&E SPARTON Work Order: 03272036002 Page: 3b

Cust ID:	MW-13	MW-56	MW-56	MW-56	MW-56	MW-57
RFW#:	008 DL	009	009 DL	009 MS	009 MSD	010
Toluene	25 U	5 U	10 U	100 % ?	99 % ?	5 U
Chlorobenzene	25 U	5 U	10 U	110 % MS	110 % MSD	5 U
Ethylbenzene	25 U	5 U	10 U	10 U	10 U	5 U
Styrene	25 U	5 U	10 U	10 U	10 U	5 U
Xylene (total)	25 U	5 U	10 U	10 U	10 U	5 U

*= Outside of EPA CLP QC limits.

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003441

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

Report Date: 11/29/94 14:26

RFW Batch Number: **9410L747** Client: **M&E SPARTON** Work Order: 03272036002 Page: 4a

	Cust ID:	MW-60	MW-64 *	MW-14	TRIP BLANK	VBLKUV	VBLKWI
Sample Information	RFW#:	011	012	013	014	94LVQ973-MB1	94LVQ174-MB1
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate Recovery	Toluene-d8	99 %	101 %	101 %	102 %	101 %	105 %
	Bromofluorobenzene	97 %	98 %	96 %	97 %	100 %	101 %
	1,2-Dichloroethane-d4	97 %	93 %	96 %	95 %	94 %	93 %
		fl	fl	fl	fl	fl	fl
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride		5 U	5 U	5 U	3 J	5 U	5 U
Acetone		10 U	10 U	10 U	11 B	5 J	5 J
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)		5 U	5 U	5 U	5 U	5 U	5 U
Chloroform		5 U	5 U	9	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride		5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene		26	12,	5 U	5 U	5 U	5 U
Dibromochloromethane		5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
Benzene		5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U
Bromoform		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene		5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

003142

RFW Batch Number: 9410L747 Client: M&E SPARTON Work Order: 03272036002 Page: 4b

Cust ID:	MW-60	MW-64	MW-14	TRIP BLANK	VBLKUV	VBLKWI
RFW#:	011	012	013	014	94LVQ973-MB1	94LVQ174-MB1
Toluene	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

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

Report Date: 11/29/94 14:26

RFW Batch Number: **9410L747** Client: **M&E SPARTON** Work Order: 03272036002 Page: 5a

Cust ID: **VBLKVM**

Sample Information

RFW#: **94LVQ175-MB1**
Matrix: WATER
D.F.: 1.00
Units: UG/L

Surrogate Recovery	Toluene-d8	100	%
	Bromofluorobenzene	99	%
	1,2-Dichloroethane-d4	93	%

Chloromethane	10	U
Bromomethane	10	U
Vinyl Chloride	10	U
Chloroethane	10	U
Methylene Chloride	5	U
Acetone	3	J
Carbon Disulfide	5	U
1,1-Dichloroethene	5	U
1,1-Dichloroethane	5	U
1,2-Dichloroethene (total)	5	U
Chloroform	5	U
1,2-Dichloroethane	5	U
2-Butanone	10	U
1,1,1-Trichloroethane	5	U
Carbon Tetrachloride	5	U
Vinyl Acetate	10	U
Bromodichloromethane	5	U
1,2-Dichloropropane	5	U
cis-1,3-Dichloropropene	5	U
Trichloroethene	5	U
Dibromochloromethane	5	U
1,1,2-Trichloroethane	5	U
Benzene	5	U
Trans-1,3-Dichloropropene	5	U
Bromoform	5	U
4-Methyl-2-pentanone	10	U
2-Hexanone	10	U
Tetrachloroethene	5	U
1,1,2,2-Tetrachloroethane	5	U

*= Outside of EPA CLP QC limits.

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0034 44

Cust ID: **VBLKVM**

RFW#: **94LVQ175-MB1**

Toluene	5	U
Chlorobenzene	5	U
Ethylbenzene	5	U
Styrene	5	U
Xylene (total)	5	U

*= Outside of EPA CLP QC limits.

WESTON Analytics Use Only
9410L747

Custody Transfer Record/Lab Work Request

WESTON

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Client: M&E-Sparton
Est. Final Proj. Sampling Date:
Work Order #: 03272-036-002-9999-00
Project Contact/Phone #:
AD Project Manager: Gail DeRuzzo
QC: CLP Del: CLP TAT: 30 Days
Date Rec'd: 10/26/94 Date Due: 11/25/94
Account #: M&E-SPSPRT

Refrigerator #		1										4	4										
#/Type Container	Liquid	3 L										1PL	1PL										
	Solid																						
Volume	Liquid	40ml										4L	LTR										
	Solid																						
Preservatives		none										none	HNO3										
ANALYSES REQUESTED →		ORGANIC										CR6	INORG										
		VOA	BNA	Pest/PCB	Herb								Metal	CN									

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	WESTON Analytics Use Only: Blank Check	1,2,3,4,5,6					IRIS	See Below								
S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	001	MW-52			W	10/25/94	1045	X							X								
	002	MW-53			W		1100	X						X	X								
	003	MW-61			W		1300	X						X	X								
	004	MW-41			W		1325	X						X	X								
	005	MW-32			W		1630	X						X	X								
	006	MW-15			W		1500	X						X	X								
	007	MW-55			W	10/24/94	1130	X															
	008	MW-13			W		1015	X															
	009	MW-56	✓	✓	W		1100	X															
	010	MW-57			W		1430	X															

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
metals = HSL (-) Hg.

Temp = 8.2°C
Original Rewritten

DATE/REVISIONS:
10/31/94 1. Date collected 014 13/10/94 Ref 94 pm 1497.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
Felix Ojeme		10-26-94	9:30

Relinquished by	Received by	Date	Time

WESTON Analytics Use Only

Samples were:
1) Shipped ✓ or Hand Delivered ___
Airbill #
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# ___ 381-596a

0034146

WESTON Analytics Use Only
9410L747

Custody Transfer Record/Lab Work Request

WESTON

Page 2 of 2

Client: M&E-Sparton
Est. Final Proj. Sampling Date:
Work Order #:
Project Contact/Phone #:
AD Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #
#/Type Container: Liquid / Solid
Volume: Liquid / Solid
Preservatives

ANALYSES REQUESTED →

ORGANIC				INORG	
VOA	BNA	Pest/PCB	Herb	Metal	CN

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

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	Pest/PCB	Herb	Metal	CN
011	MW-60			W	10/24/94	1330	X					
012	MW-64			W		1520	X					
013	MW-14			W		1325	X					
014	Trip Blank			W	10/24/94	—	X					

WESTON Analytics Use Only

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels/Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# ___ 381-596a

0003

0031447

CHAIN-OF-CUSTODY RECORD

Metcalf & Eddy

№ 0315 (Page 1 of 2)

CUSTODY SEAL NO. 9410L747

PROJECT NUMBER: 164022

PROJECT NAME / LOCATION: Spartan

SAMPLERS: (Signature) Andrew G. Ellison

SAMPLE NO.	DATE	TIME MILITARY	COMP.	GRAB	STATION LOCATION	MATRIX: SOIL	MATRIX: WATER	MATRIX:	CONTAINERS: NUMBER AND SIZE	CONTAINERS: TYPE (P, G)	PARAMETER: TCL VOA	PARAMETER: TAL Metals (No Hg)	PARAMETER: Hexavalent Cr.	PARAMETER:	PARAMETER:	PARAMETER:	PARAMETER:	PARAMETER: HNO3 PRESERVATIVE (type)	PARAMETER: ICB	REMARKS
S08	10/25/94	1045		X	MW-52		X		3x40ml	G	X								X	
					"		X		1x1l	P		X						X		
S09	10/25/94	1100		X	MW-53		X		3x40ml	G	X								X	
					"		X		1x1l	P		X						X		
					"		X		1x1l	P			X						X	
S10	10/25/94	1300		X	MW-61		X		3x40ml	G	X								X	
					"		X		1x1l	P		X						X		
					"		X		1x250ml	P			X						X	
S11	10/25/94	1315		X	MW-41		X		3x40ml	G	X								X	
					"		X		1x1l	P		X						X		
					"		X		3x250ml	P			X						X	
S12	10/25/94	1630		X	MW-32		X		3x40ml	G	X								X	
					"				1x1l	P		X						X		
					"				3x250ml	P			X						X	

Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Andrew G. Ellison	10/25/94 1715	
Relinquished By: (Signature)	Date/Time	Received By: (Signature)
FedEx	10/26/94 9:30	John Fane
Relinquished By: (Signature)	Date/Time	Received for Laboratory By: (Signature) / Date/Time

Sample Sent To: Sample Custodian
Lab: Weston Analytical Division
Address: 208 Welsh Pool Rd.
Pickering Creek Ind. Park
Lionville PA 19341
Phone: 215 524 2360
Freight Co.: ~~TBS~~ FedEx
Air Bill No.: 3263503810

Remarks: Last Samples for Project

Temp 8.2°

Send results to: Attn:
Metcalf & Eddy, Inc.
1845 Woodall Rodgers
Suite 1620, Dallas, Texas 75201
(214) 754-8725

Distribution: White: (Original) Accompanies Shipment
Pink: Copy Returns With Report
Yellow: Sampler's Copy

For Questions about samples, contact A. Ellison (print sampler's name) at (field phone) (214) 754-8725

003148

CHAIN-OF-CUSTODY RECORD

Metcalf & Eddy

№ 0316

(Page 2 of 2)

CUSTODY SEAL NO.

PROJECT NUMBER: 164022

PROJECT NAME / LOCATION: Sparton

SAMPLERS: (Signature) Andrew B. Ellison [signature]

SAMPLE NO.	DATE	TIME MILITARY	COMP.	GRAB.	STATION LOCATION	MATRIX: SOIL	MATRIX: WATER		CONTAINERS: NUMBER AND SIZE	CONTAINERS: TYPE (P-G)	PARAMETER: TCL VOA	TAL Metals (No Hg)	Hexavalent Cr					PRESERVATIVE (Type): HNO_3	ICE	REMARKS
S13	10/25/94	1500		X	MW-15		X		3x40ml	G	X								X	
					"				1x1l	P		X						X		
					"				1x250ml	P			X						X	
S01	10/25/94	1130		X	MW-55		X		3x40ml	G	X								X	
S02	10/25/94	1015		X	MW-13		X		3x40ml	G	X								X	
S03	10/24/94	1100		X	MW-56		X		3x40ml	G	X								X	MS/MSD
S04	10/24/94	1430		X	MW-57		X		3x40ml	G	X								X	
S05	10/24/94	1330		X	MW-60		X		3x40ml	G	X								X	
S06	10/24/94	1520		X	MW-64		X		3x40ml	G	X								X	
S07	10/24/94	1325		X	MW-14		X		3x40ml	G	X								X	
S14	10/20/94			X	Trip Blank		X		3x40ml	G	X								X	Provided by Lab

Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Andrew B. Ellison	10/25/94 / 1715	
UPS	10/26/94 9:30	[signature]
		Received for Laboratory By: (Signature) / Date/Time

Sample Sent To: Sample Custodian
Lab: Western Analytical Division
Address: 208 Welsh Pool Rd.
Pickering Creek Ind. Park
Lionville, PA 19341
Phone: 215 524 7360
Freight Co.: Fed Ex -
Air Bill No.: 3263505810

Remarks: Last Samples for Project

Send results to: Attn:
Metcalf & Eddy, Inc.
1845 Woodall Rodgers
Suite 1620, Dallas, Texas 75201
(214) 754-8725

Distribution: White: (Original) Accompanies Shipment!
Pink: Copy Returns With Report
Yellow: Sampler's Copy

For Questions about samples, contact A. Ellison (print sampler's name) at (field phone) [illegible]

003449

0005