



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 656

Appendix M

Analytical Quality Control Documents

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-08**
 Field ID : **DF/24-A/1026/R/08**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/01/01	01/29/01 01/31/01	RL 1311 PF 8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery			QC Limits		
S1 - Nitrobenzene-d5	69			29 110		
S2 - 2-Fluorobiphenyl	73			38 107		
S3 - 4-Terphenyl-d14	84			33 122		
S4 - Phenol-d6	22			7 58		
S5 - 2,4,6-Tribromophenol	65			16 138		
S6 - 2-Fluorophenol	33			8 88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

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ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-09**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/09**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01		SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01		SH 6010B
Barium - TCLP	1.07	mg/L	0.025	01/31/01		SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01		SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01		SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01		JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01		SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01		SH 6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-09**
 Field ID : **DF/24-A/1026/R/09**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCCLP Volatile Organics				02/01/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	109		74	123		
S2 - Toluene-d8	99		86	112		
S3 - 4-Bromofluorobenzene	96		81	115		
S4 - 1,2-Dichloroethane-d4	102		80	120		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

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ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-09**
Field ID : **DF/24-A/1026/R/09**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF	8270C
Dilution Factor	1				01/31/01	3510C
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	80		29	110		
S2 - 2-Fluorobiphenyl	82		38	107		
S3 - 4-Terphenyl-d14	107		33	122		
S4 - Phenol-d6	23		7	58		
S5 - 2,4,6-Tribromophenol	71		16	138		
S6 - 2-Fluorophenol	36		8	88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

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ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-10**
Field ID : **DF/24-A/1026/R/010**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.18	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-10**
Field ID : **DF/24-A/1026/R/010**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	109		74	123		
S2 - Toluene-d8	96		86	112		
S3 - 4-Bromofluorobenzene	96		81	115		
S4 - 1,2-Dichloroethane-d4	103		80	120		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-10**
 Field ID : **DF/24-A/1026/R/010**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF 8270C	3510C
Dilution Factor	1				01/31/01	
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	73		29	110		
S2 - 2-Fluorobiphenyl	75		38	107		
S3 - 4-Terphenyl-d14	106		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	63		16	138		
S6 - 2-Fluorophenol	34		8	88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-11**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/011**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.00	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-11**Field ID : **DF/24-A/1026/R/011**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	109	74 123
S2 - Toluene-d8	97	86 112
S3 - 4-Bromofluorobenzene	96	81 115
S4 - 1,2-Dichloroethane-d4	98	80 120


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-11**
Field ID : **DF/24-A/1026/R/011**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/30/01	RL 1311
TCLP Semivolatiles				02/01/01	01/31/01	PF 8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	75		29	110		
S2 - 2-Fluorobiphenyl	77		38	107		
S3 - 4-Terphenyl-d14	95		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	66		16	138		
S6 - 2-Fluorophenol	34		8	88		


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

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Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-12**
Field ID : **DF/24-A/1026/R/012**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	0.844	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

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ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-12**Field ID : **DF/24-A/1026/R/012**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	107		74	123		
S2 - Toluene-d8	98		86	112		
S3 - 4-Bromofluorobenzene	94		81	115		
S4 - 1,2-Dichloroethane-d4	105		80	120		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 14

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-12**Field ID : **DF/24-A/1026/R/012**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL	1311
TCLP Semivolatiles				02/01/01	PF	8270C
					01/30/01	3510C
					01/31/01	
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/Kg	0.020			
2,4-Dinitrotoluene	ND	mg/Kg	0.020			
Hexachlorobenzene	ND	mg/Kg	0.020			
Hexachlorobutadiene	ND	mg/Kg	0.020			
Hexachloroethane	ND	mg/Kg	0.020			
2-Methylphenol	ND	mg/Kg	0.020			
3-Methylphenol	ND	mg/Kg	0.020			
4-Methylphenol	ND	mg/Kg	0.020			
Nitrobenzene	ND	mg/Kg	0.020			
Pentachlorophenol	ND	mg/Kg	0.040			
Pyridine	ND	mg/Kg	0.020			
2,4,5-Trichlorophenol	ND	mg/Kg	0.020			
2,4,6-Trichlorophenol	ND	mg/Kg	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	73		29	110		
S2 - 2-Fluorobiphenyl	76		38	107		
S3 - 4-Terphenyl-d14	103		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	68		16	138		
S6 - 2-Fluorophenol	35		8	88		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

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ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397Site ID **Dunn Field**
Memphis, TNDate Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID : **0101689-13**
Field ID : **DF/24-A/1026/R/013**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL	1311
Silver - TCLP	ND	mg/L	0.010	01/31/01		SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01		SH	6010B
Barium - TCLP	1.08	mg/L	0.025	01/31/01		SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01		SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01		SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01		JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01		SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01		SH	6010B


Data Validator

ND - Not Detected

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-13**
Field ID : **DF/24-A/1026/R/013**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/02/01	01/30/01	TL 1311 EM 8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	112		74	123		
S2 - Toluene-d8	94		86	112		
S3 - 4-Bromofluorobenzene	97		81	115		
S4 - 1,2-Dichloroethane-d4	97		80	120		


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 17

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-13**
 Field ID : **DF/24-A/1026/R/013**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/30/01	RL 1311
TCLP Semivolatiles				02/01/01	PF 8270C	3510C
					01/31/01	
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	76		29	110		
S2 - 2-Fluorobiphenyl	76		38	107		
S3 - 4-Terphenyl-d14	99		33	122		
S4 - Phenol-d6	23		7	58		
S5 - 2,4,6-Tribromophenol	69		16	138		
S6 - 2-Fluorophenol	35		8	88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 18

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-14**
Field ID : **DF/24-A/1026/R/014**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.44	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

656 19

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-14**
Field ID : **DF/24-A/1026/R/014**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/02/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	106		74	123		
S2 - Toluene-d8	99		86	112		
S3 - 4-Bromofluorobenzene	95		81	115		
S4 - 1,2-Dichloroethane-d4	94		80	120		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

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Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-14**Field ID : **DF/24-A/1026/R/014**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL	1311
TCLP Semivolatiles				02/01/01	PF	8270C
					01/31/01	3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	75		29	110		
S2 - 2-Fluorobiphenyl	77		38	107		
S3 - 4-Terphenyl-d14	104		33	122		
S4 - Phenol-d6	23		7	58		
S5 - 2,4,6-Tribromophenol	68		16	138		
S6 - 2-Fluorophenol	35		8	88		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 21

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-15**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/015**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.62	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 22

Client Name **Innovative Waste Management**
P.O. Box 50397
Symmerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-15**
Field ID : **DF/24-A/1026/R/015**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE TCLP Volatile Organics	Leachate			02/02/01	01/30/01	TL 1311 EM 8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	110		74 123			
S2 - Toluene-d8	104		86 112			
S3 - 4-Bromofluorobenzene	96		81 115			
S4 - 1,2-Dichloroethane-d4	97		80 120			

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

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ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-15**Field ID : **DF/24-A/1026/R/015**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/30/01	RL 1311
TCLP Semivolatiles				02/01/01	01/31/01	PF 8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	73		29	110		
S2 - 2-Fluorobiphenyl	75		38	107		
S3 - 4-Terphenyl-d14	106		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	66		16	138		
S6 - 2-Fluorophenol	34		8	88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 24

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-16**
Field ID : **DF/24-A/1026/R/016**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.43	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B



Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-16**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/016**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/02/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	107		74	123		
S2 - Toluene-d8	99		86	112		
S3 - 4-Bromofluorobenzene	95		81	115		
S4 - 1,2-Dichloroethane-d4	94		80	120		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 26

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived: **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-16**
Field ID : **DF/24-A/1026/R/016**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/01/01	01/30/01 01/31/01	RL 1311 PF 8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	82		29	110		
S2 - 2-Fluorobiphenyl	82		38	107		
S3 - 4-Terphenyl-d14	106		33	122		
S4 - Phenol-d6	24		7	58		
S5 - 2,4,6-Tribromophenol	70		16	138		
S6 - 2-Fluorophenol	38		8	88		


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

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ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-17**
Field ID : **DF/24-A/1026/R/017**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.13	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 28

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-17**Field ID : **DF/24-A/1026/R/017**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/02/01	01/30/01	RL 1311
					01/31/01	PF 8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	77		29	110		
S2 - 2-Fluorobiphenyl	81		38	107		
S3 - 4-Terphenyl-d14	118		33	122		
S4 - Phenol-d6	24		7	58		
S5 - 2,4,6-Tribromophenol	69		16	138		
S6 - 2-Fluorophenol	37		8	88		


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

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ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-18**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/018**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.27	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 30

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-18**
Field ID : **DF/24-A/1026/R/018**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/02/01	LS	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	122	74 123
S2 - Toluene-d8	109	86 112
S3 - 4-Bromofluorobenzene	112	81 115
S4 - 1,2-Dichloroethane-d4	121 Q	80 120


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 31

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-18**
Field ID : **DF/24-A/1026/R/018**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/30/01	RL 1311
TCLP Semivolatiles				02/02/01	PF	8270C
					01/31/01	3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	81		29	110		
S2 - 2-Fluorobiphenyl	85		38	107		
S3 - 4-Terphenyl-d14	113		33	122		
S4 - Phenol-d6	24		7	58		
S5 - 2,4,6-Tribromophenol	74		16	138		
S6 - 2-Fluorophenol	38		8	88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 32

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-19**
Field ID : **DF/24-A/1026/R/019**
Sample ID : **5 Working Day TAT**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.40	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

656 33

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-19**
Field ID : **DF/24-A/1026/R/019**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/02/01	LS	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	117		74	123		
S2 - Toluene-d8	111		86	112		
S3 - 4-Bromofluorobenzene	112		81	115		
S4 - 1,2-Dichloroethane-d4	123 Q		80	120		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-19**
Field ID : **DF/24-A/1026/R/019**
Sample ID : **5 Working Day TAT**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/30/01	RL 1311
TCLP Semivolatiles				02/02/01	PF	8270C
Dilution Factor	1				01/31/01	3510C
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	68		29	110		
S2 - 2-Fluorobiphenyl	71		38	107		
S3 - 4-Terphenyl-d14	97		33	122		
S4 - Phenol-d6	21		7	58		
S5 - 2,4,6-Tribromophenol	64		16	138		
S6 - 2-Fluorophenol	33		8	88		


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

SBCCOM
M nitoring Branch Laboratory

CLEARANCE REPORT

SEP 6, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0250/T1/ 001		ND	ND	N/A	ND	
DF/24A/ 0250/T2/ 002		ND	ND	N/A	ND	
DF/24A/ 0250/T1/ 003		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM

Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 7, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0251/T2/ 004		ND	ND	N/A	ND	
DF/24A/ 0251/T1/ 005		ND	ND	N/A	ND	
DF/24A/ 0251/T1/ 006		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 8, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0252/T1/ 007		ND	ND	N/A	ND	
DF/24A/ 0252/T2/ 008		ND	ND	N/A	ND	
DF/24A/ 0252/T1/ 009		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM

Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 12, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0256/T1 /010		ND	ND	N/A	ND	
DF/24A/ 0256/T1 /010 DUP		ND	ND	N/A	ND	
DF/24A/ 0256/T2 /011		ND	ND	N/A	ND	
DF/24A/ 0256/T1 /012		ND	ND	N/A	ND	
DF/24A/ 0256/T2 /013		ND	ND	N/A	ND	
DF/24A/ 0256/T1 /014		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

25 OCT, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Shawn Heinlein

[illegible]

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

N/A = Not analyzed

SBCCOM

CLEARANCE REPORT

27 OCT, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Shawn Heinlein

[illegible]

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

N/A = Not analyzed

N/A = Not analyzed

N/A = Not analyzed

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 15, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0259/T1 /026		ND	ND	N/A	ND	
DF/24A/ 0259/T2 /027		ND	ND	N/A	ND	
DF/24A/ 0259/T1 /028		ND	ND	N/A	ND	
DF/24A/ 0259/T2 /029		ND	ND	N/A	ND	
DF/24A/ 0259/SP LIT/001A		544	815	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
M nit ring Branch Lab ratory

CLEARANCE REPORT

SEP 19, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0263/T2 /033		ND	ND	N/A	ND	
DF/24A/ 0263/GR AB/003		507	242	ND	ND	
DF/24A/ 0263/GR AB/004		30	BLD	ND	ND	
DF/24A/ 0263/T1 /034		ND	83	ND	ND	
DF/24A/ 0263/T2 /035		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 18, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0262/T1 /030		ND	ND	N/A	ND	
DF/24A/ 0262/GR AB/001		41	BLD	ND	ND	
DF/24A/ 0262/GR AB/002		113	53	ND	ND	
DF/24A/ 0262/T2 /031		ND	ND	N/A	ND	
DF/24A/ 0259/T1 /032		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 20, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0264/T1 /036		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 21, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0265/SD C/001		ND	ND	N/A	ND	
DF/24A/ 0265/SD C/002		ND	ND	N/A	ND	
SF/24A/ 0265/SD C/003		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 21, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0265/T2 /037		ND	ND	N/A	ND	
DF/24A/ 0265/GR AB/005		BDL	BDL	N/A	ND	
DF/24A/ 0265/GR AB/006		ND	ND	N/A	ND	
DF/24A/ 0256/SD C/001		ND	ND	N/A	ND	
DF/24A/ 0256/SD C/002		ND	ND	N/A	ND	
DF/24A/ 0256/SD C/003		ND	ND	N/A	ND	
DF/24A/ 0265/T1 /038		507	696	ND	ND	
DF/24A/ 0265/GR AB/007		2003	6067	ND	ND	
DF/24A/ 0265/GR AB/008		4429	5168	ND	ND	
DF/24A/ 0265/GR AB/009		285	694	ND	ND	
DF/24A/ 0265/GR AB/010		665	804	ND	ND	
DF/24A/ 0265/GR AB/010		656	732	ND	ND	

SBCCOM

Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 22, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0266/T1 /040		68	119	ND	ND	
DF/24A/ 0266/GR AB/014		3451	6527	ND	ND	
DF/24A/ 0266/GR AB/015		89	117	ND	ND	
DF/24A/ 0266/T2 /041		ND	35	ND	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 25, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Wyatt McNutt

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0269/GR AB/016		1282	2180	ND	ND	
DF/24A/ 0269/T1 /042		152	396	ND	ND	
DF/24A/ 0269/GR AB/017		151	222	ND	ND	
DF/24A/ 0269/GR AB/018		583	961	ND	ND	
DF/24A/ 0269/T2 /043		ND	ND	ND	ND	
DF/24A/ 0269/T1 /044		ND	ND	ND	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 25, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Wyatt McNutt

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0270/T2 /045		210	230	ND	ND	
DF/24A/ 0270/GR AB/019		1900	2120	ND	ND	
DF/24A/ 0270/GR AB/020		170	140	ND	ND	
DF/24A/ 0269/GR AB/021		1970	2170	ND	ND	
DF/24A/ 0270/T1 /046		180	370	ND	ND	
DF/24A/ 0270/GR AB/022		4980	8390	ND	ND	
DF/24A/ 0270/GR AB/023		1980	2100	ND	ND	
DF/24A/ 0270/GR AB/024		3450	3760	ND	ND	
DF/24A/ 0270/GR AB/025		770	1300	ND	ND	
DF/24A/ 0270/GR AB/026		1660	1630	ND	ND	
DF/24A/ 0270/GR AB/027		43620	60320	ND	ND	

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 27, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Wyatt McNutt

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0271/SD C/004		ND	ND	N/A	ND	
DF/24A/ 0271/SD C/005		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 27, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Wyatt McNutt

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0271/GR AB/031		1490	1530	ND	ND	
DF/24A/ 0271/GR AB/032		2230	3240	ND	ND	
DF/24A/ 0271/GR AB/033		5800	11850	ND	ND	
DF/24A/ 0271/T1 /048		2950	5960	ND	ND	
DF/24A/ 0271/SD C/004		ND	ND	ND	ND	
DF/24A/ 0271/SD C/005		ND	ND	ND	ND	
DF/24A/ 0271/GR AB/034		25330	38270	ND	ND	
DF/24A/ 0271/GR AB/035		18630	31960	ND	ND	
DF/24A/ 0271/GR AB/036		5080	3590	ND	ND	
DF/24A/ 0271/T2 /049		4110	6920	ND	ND	
DF/24A/ 0271/GR AB/037		20200	28380	ND	ND	
DF/24A/ 0271/T1 /050		680	3090	ND	ND	

[illegible]

Monitoring Branch Laboratory

CLEARANCE REPORT

11 OCT, 2000

Dunn Field, Memphis Defense Depot
Results for CWM Soil Sample Analysis
Analyst: STEVE CARTER

Corrected Copy
ENC 12 OCT 00

[illegible]

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

N/A = Not analyzed

SBCCOM

Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 14, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4-Thioxane	1,4-Dithiane	TDG	Mustard	
DF/24A/ 0258/T1 /019		1594	2489	N/A	ND	
DF/24A/ 0258/T1 /019 DUP		1607	2489	N/A	ND	
DF/24A/ 0258/T1 /020		ND	ND	N/A	ND	
DF/24A/ 0258/T2 /021		ND	ND	N/A	ND	
DF/24A/ 0258/T1 022		ND	ND	N/A	ND	
DF/24A/ 0258/T2 023		ND	ND	N/A	ND	
DF/24A/ 0258/T1 024		50	85	N/A	ND	
DF/24A/ 0258/T1 /024 DUP		50	84	N/A	ND	
DF/24A/ 0258/T2 /025		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

SEP 13, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Christopher Druyor

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0257/T2 /015		ND	ND	N/A	ND	
DF/24A/ 0257/T1 /016		ND	ND	N/A	ND	
DF/24A/ 0257/T2 A /017	un	ND	ND	N/A	ND	
DF/24A/ 0257/T2 B /018	un	ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monit ring Branch Laboratory

CLEARANCE REPORT

OCT 12, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Steve Carter

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard
DF/24A/ 0285/ T1/056		ND	ND	N/A	ND
DF/24A/ 0286/ T2/057		BDL	520	N/A	ND
DF/24A/ 0286/ T2/058		420	1290	N/A	ND
		ND	ND	N/A	ND

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

OCT 13, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Steve Carter

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0286/ T2/059		1510	3970	N/A	ND	
DF/24A/ 0286/ T2/059 DUP		3980	520	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

SBCCOM

Monitoring Branch Laboratory

CLEARANCE REPORT

OCT 16, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: ELWYN CHADWICK

Sample#		1,4-Thioxane	1,4-Dithiane	TDG	Mustard	
DF/24A/0290 /T-1/060		240	1200	N/A	ND	
DF/24A/0290 /T-2/061		2390	4340	N/A	ND	
DF/24A/0290 /T-2/061 DUP		3030	5410	N/A	ND	
DF/24A/0290 /T-2/061 MS		3330 *	4970 *	N/A	770 85%	
DF/24A/0290 /T-2/061 MSD		2790 *	4710 *	N/A	830 91%	
DF/24A/0290 /GRAB/043		24890	52980	N/A	ND	
DF/24A/0290 /GRAB/044		11110	46510	N/A	ND	
DF/24A/0290 /GRAB/045		1260	2730	N/A	ND	
DF/24A/0290 /GRAB/046		1670	10190	N/A	ND	
DF/24A/0290 /GRAB/047		1750	5540	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

* = Matrix Spike % recoveries for these compounds not possible due to large amount of these compounds already present in the matrix.

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

17 OCT, 2000

Dunn Field, Memphis Defense Depot
 Results for CWM Soil Sample Analysis
 Analyst: ELWYN CHADWICK

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/ 0290/T-1/062		3310	6810	N/A	ND	
DF/24A/0291 /T-2/063		3790	7730	N/A	ND	
DF/24A/0291 /T-2/063 DUP		3270	6710	N/A	ND	
DF/24A/0291 /GRAB/049		ND	ND	N/A	ND	
DF/24A/0291 /GRAB/050		ND	ND	N/A	ND	
DF/24A/0291 /GRAB/051		ND	ND	N/A	ND	
DF/24A/0291 /GRAB/052		ND	ND	N/A	ND	
DF/24A/0291 /GRAB/053		ND	ND	N/A	ND	
DF/24A/0291 /GRAB/054		ND	ND	N/A	ND	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

N/A = Not analyzed

SBCCOM

Monitoring Branch Laboratory

CLEARANCE REPORT

19 OCT, 2000

Dunn Field, Memphis Defense Depot
 Results for CWM Soil Sample Analysis
 Analyst: ELWYN CHADWICK

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	
DF/24A/0293/ CVS/001		ND	ND	N/A	ND	
DF/24A/0293/ CVS/002		270	1090	N/A	ND	
DF/24A/0293/ CVS/002 DUP		260	1070	N/A	ND	
DF/24A/0293/ CVS/003		ND	ND	N/A	ND	
DF/24A/0293/ CVS/004		2880	14850	N/A	ND	
DF/24A/0293/ CVS/005		ND	ND	N/A	ND	
DF/24A/0293/ CVS/006		ND	ND	N/A	ND	
DF/24A/0293/ CVS/007		ND	ND	N/A	ND	
DF/24A/0293/ CVS/005 MS		990 101%	950 100%	N/A	900 99%	
DF/24A/0293/ CVS/005 MSD		970 99%	940 99%	N/A	890 98%	

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

N/A = Not analyzed

ND= Not detected at or above the method detection limit (MDL)
MDL= 200 ppb
BDL= Below detection limit, results > 100ppb, but < 200 ppb
MS= matrix spike
MSD= matrix spike duplicate
DUP= duplicate
N/A = Not analyzed

CLEARANCE REPORT

Dunn Field, Memphis Defense Depot
Results for CWM Soil Sample Analysis
Analyst: Elwyn Chadwick

ND= Not detected at or above the method detection limit (MDL)
MDL= 200 ppb
BDL= Below detection limit, results > 100ppb, but < 200 ppb
MS= matrix spike
MSD= matrix spike duplicate
DUP= duplicate
N/A = Not analyzed

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Monitoring Branch Laboratory

CLEARANCE REPORT

8 NOV 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Elwyn Chadwick

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard
DF/24A/0313 T-2/084		880	1540	NA	ND

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

N/A = Not analyzed

ND= Not detected at or above the method detection limit (MDL)
MDL= 200 ppb
BDL= Below detection limit, results > 100ppb, but < 200 ppb
MS= matrix spike
MSD= matrix spike duplicate
DUP= duplicate
N/A = Not analyzed

N/A = Not analyzed

ND= Not detected at or above the method detection limit (MDL)
MDL= 200 ppb
BDL= Below detection limit, results > 100ppb, but < 200 ppb
MS= matrix spike
MSD= matrix spike duplicate
DUP= duplicate
N/A = Not analyzed

SBCCOM

CLEARANCE REPORT

26 OCT, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Shawn Heinlein

[illegible]

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

N/A = Not analyzed

N/A = Not analyzed

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-17**Field ID : **DF/24-A/1026/R/017**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/02/01	01/30/01	TL 1311 LS 8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	122	74 123
S2 - Toluene-d8	104	86 112
S3 - 4-Bromofluorobenzene	106	81 115
S4 - 1,2-Dichloroethane-d4	123 Q	80 120



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits



ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road • Memphis, TN 38111 • (901) 327-2750 • FAX (901) 327-6334

Founded 1972

February 1, 2001

Mr Jerry Girardea
Innovative Waste Management
P.O. Box 50397
Summerville, SC 29485-0397

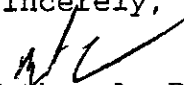
Ref: Analytical Testing
ETC Order # 0101689
Project Description Dunn Field
Memphis, TN

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and/or 40 CFR part 136.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact our office if you have any questions.

Sincerely,


Nathan A. Pera, IV
Chief Executive Officer

rt
Attachment

INNOVWASTE

Certifications

Tennessee #TN02027
Arkansas #40730
Kentucky #90047
North Carolina #415
South Carolina #84002002

Mississippi
Oklahoma #9311
Virginia #00106
Washington #C248
US Army Corps of Engineers

ETC Work Order : 0101249

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ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-01**
Field ID : **DF/24-A/1026/R/01**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.44	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

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ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-01**
Field ID : **DF/24-A/1026/R/01**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF 01/31/01	8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	42		29	110		
S2 - 2-Fluorobiphenyl	44		38	107		
S3 - 4-Terphenyl-d14	52		33	122		
S4 - Phenol-d6	12		7	58		
S5 - 2,4,6-Tribromophenol	35		16	138		
S6 - 2-Fluorophenol	20		8	88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 78

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-01**Field ID : **DF/24-A/1026/R/01**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	107	74 123
S2 - Toluene-d8	98	86 112
S3 - 4-Bromofluorobenzene	96	81 115
S4 - 1,2-Dichloroethane-d4	101	80 120



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-02**
Field ID : **DF/24-A/1026/R/02**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.39	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 80

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-02**
Field ID : **DF/24-A/1026/R/02**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCCLP Extraction ZHE	Leachate					
TCCLP Volatile Organics				02/01/01	01/29/01	TL 1311 EM 8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	104	74 123
S2 - Toluene-d8	99	86 112
S3 - 4-Bromofluorobenzene	97	81 115
S4 - 1,2-Dichloroethane-d4	102	80 120


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-02**
Field ID : **DF/24-A/1026/R/02**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF 01/31/01	8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	76		29	110		
S2 - 2-Fluorobiphenyl	78		38	107		
S3 - 4-Terphenyl-d14	100		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	66		16	138		
S6 - 2-Fluorophenol	33		8	88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 82

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-03**
Field ID : **DF/24-A/1026/R/03**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	0.731	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-03**
Field ID : **DF/24-A/1026/R/03**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	111	74 123
S2 - Toluene-d8	100	86 112
S3 - 4-Bromofluorobenzene	96	81 115
S4 - 1,2-Dichloroethane-d4	108	80 120



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 84

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-03**
Field ID : **DF/24-A/1026/R/03**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/01/01	01/29/01 01/31/01	RL 1311 PF 8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	79		29	110		
S2 - 2-Fluorobiphenyl	81		38	107		
S3 - 4-Terphenyl-d14	99		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	68		16	138		
S6 - 2-Fluorophenol	36		8	88		


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 85

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-04**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/04**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	0.994	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 86

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-04**
Field ID : **DF/24-A/1026/R/04**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/01/01	01/29/01	TL 1311 EM 8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	107	74 123
S2 - Toluene-d8	102	86 112
S3 - 4-Bromofluorobenzene	98	81 115
S4 - 1,2-Dichloroethane-d4	95	80 120


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 87

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-04**
Field ID : **DF/24-A/1026/R/04**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF	8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	75		29	110		
S2 - 2-Fluorobiphenyl	78		38	107		
S3 - 4-Terphenyl-d14	98		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	64		16	138		
S6 - 2-Fluorophenol	34		8	88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

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656 88

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-06**
Field ID : **DF/24-A/1026/R/06**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	104	74 123
S2 - Toluene-d8	96	86 112
S3 - 4-Bromofluorobenzene	98	81 115
S4 - 1,2-Dichloroethane-d4	102	80 120


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 89

ENVIRONMENTAL TESTING & CONSULTING, INC.

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Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-06**
Field ID : **DF/24-A/1026/R/06**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF	8270C
Dilution Factor	1				01/31/01	3510C
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	68		29	110		
S2 - 2-Fluorobiphenyl	70		38	107		
S3 - 4-Terphenyl-d14	93		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	60		16	138		
S6 - 2-Fluorophenol	34		8	88		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

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656 90

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-06**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/06**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.48	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

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656 91

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-07**
Field ID : **DF/24-A/1026/R/07**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Barium - TCLP	1.31	mg/L	0.025	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	SH	6010B


Data Validator

ND - Not Detected

656. 92

ENVIRONMENTAL TESTING & CONSULTING, INC.

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Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-07**
Field ID : **DF/24-A/1026/R/07**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	111		74	123		
S2 - Toluene-d8	97		86	112		
S3 - 4-Bromofluorobenzene	96		81	115		
S4 - 1,2-Dichloroethane-d4	106		80	120		

②

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-07**Field ID : **DF/24-A/1026/R/07**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	01/31/01	PF 8270C 3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			

Surrogate Standard	% Recovery	QC Limits
S1 - Nitrobenzene-d5	74	29 110
S2 - 2-Fluorobiphenyl	76	38 107
S3 - 4-Terphenyl-d14	96	33 122
S4 - Phenol-d6	22	7 58
S5 - 2,4,6-Tribromophenol	67	16 138
S6 - 2-Fluorophenol	35	8 88



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

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Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

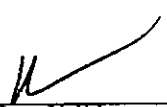
Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-08**
Field ID : **DF/24-A/1026/R/08**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Silver - TCLP	ND	mg/L	0.010	01/31/01		SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01		SH 6010B
Barium - TCLP	1.03	mg/L	0.025	01/31/01		SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01		SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01		SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01		JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01		SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01		SH 6010B


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-08**Field ID : **DF/24-A/1026/R/08**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	112	74 123
S2 - Toluene-d8	98	86 112
S3 - 4-Bromofluorobenzene	97	81 115
S4 - 1,2-Dichloroethane-d4	106	80 120


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits



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2924 Walnut Grove Road • Memphis, TN 38111 • (901) 327-2750 • FAX (901) 327-6334

Founded 1972

February 22, 2001

Mr Jerry Girardea
Innovative Waste Management
P.O. Box 50397
Summerville, SC 29485-0397

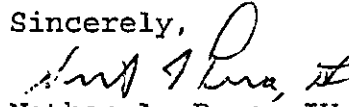
Ref: Analytical Testing
ETC Order # 0101689
Project Description Dunn Field
Memphis, TN

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and/or 40 CFR part 136.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact our office if you have any questions.

Sincerely,


Nathan A. Pera, IV
Chief Executive Officer

rt
Attachment

INNOVWASTE

Certifications

Tennessee #TN02027
Arkansas #40730
Kentucky #90047
North Carolina #415
South Carolina #84002002

Mississippi
Oklahoma #9311
Virginia #00106
Washington #C248
US Army Corps of Engineers

Environmental Testing & Consulting, Inc.
Data Qualifiers for Organic Reporting

Within the attached report, some analytical data may be reported as "Qualified Data" as indicated by a "Data Qualifier" next to the result. This table summarizes the possible "Data Qualifiers" that may be associated with this report. These qualifiers do not apply for TIC reports.

Q	Surrogate Recovery Outside QC Limits
J	Estimated Value. Presence of the compound was confirmed but less than the reported detection limit.
E	Concentration exceeds the established method calibration range but is within the working range of the instrument.
B	Analyte detected in the associated Method Blank.
U	Reported result was unconfirmed. Refer to Case Narrative.
N	Non-Compliance Report associated with this sample or project.
C	Result reported from GC/MS confirmation analysis.
M	Result reported represents a minimum value. Refer to Case Narrative.
NC	Result reported from Primary Column. Result did not confirm.
*	QC Data (percent recovery/RPD for a particular analyte was outside QC Limits)

Environmental Testing & Consulting, Inc.

Login
Chain-of-Custody

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **Dunn Field**
Memphis, TN

ETC Order #0101689

<u>ETC Sample ID</u>	<u>Field ID</u>	<u>Matrix</u>	<u>Method</u>	<u>Method Description</u>
010168901	DF/24-A/1026/R/01	SOIL	1311	TCLP Extraction
010168901	DF/24-A/1026/R/01	SOIL	6010B	Silver - TCLP
010168901	DF/24-A/1026/R/01	SOIL	6010B	Arsenic - TCLP
010168901	DF/24-A/1026/R/01	SOIL	6010B	Barium - TCLP
010168901	DF/24-A/1026/R/01	SOIL	6010B	Cadmium - TCLP
010168901	DF/24-A/1026/R/01	SOIL	6010B	Chromium - TCLP
010168901	DF/24-A/1026/R/01	SOIL	7470A	Mercury - TCLP
010168901	DF/24-A/1026/R/01	SOIL	6010B	Lead - TCLP
010168901	DF/24-A/1026/R/01	SOIL	6010B	Selenium - TCLP
010168901	DF/24-A/1026/R/01	SOIL	8270C	TCLP Semivolatiles
010168901	DF/24-A/1026/R/01	SOIL	1311	TCLP Extraction Organics
010168901	DF/24-A/1026/R/01	SOIL	1311	TCLP Extraction ZHE
010168901	DF/24-A/1026/R/01	SOIL	8260B	TCLP Volatile Organics
010168902	DF/24-A/1026/R/02	SOIL	1311	TCLP Extraction
010168902	DF/24-A/1026/R/02	SOIL	6010B	Silver - TCLP
010168902	DF/24-A/1026/R/02	SOIL	6010B	Arsenic - TCLP
010168902	DF/24-A/1026/R/02	SOIL	6010B	Barium - TCLP
010168902	DF/24-A/1026/R/02	SOIL	6010B	Cadmium - TCLP
010168902	DF/24-A/1026/R/02	SOIL	6010B	Chromium - TCLP
010168902	DF/24-A/1026/R/02	SOIL	7470A	Mercury - TCLP
010168902	DF/24-A/1026/R/02	SOIL	6010B	Lead - TCLP
010168902	DF/24-A/1026/R/02	SOIL	6010B	Selenium - TCLP
010168902	DF/24-A/1026/R/02	SOIL	8270C	TCLP Semivolatiles
010168902	DF/24-A/1026/R/02	SOIL	1311	TCLP Extraction Organics
010168902	DF/24-A/1026/R/02	SOIL	1311	TCLP Extraction ZHE
010168902	DF/24-A/1026/R/02	SOIL	8260B	TCLP Volatile Organics
010168903	DF/24-A/1026/R/03	SOIL	1311	TCLP Extraction
010168903	DF/24-A/1026/R/03	SOIL	6010B	Silver - TCLP
010168903	DF/24-A/1026/R/03	SOIL	6010B	Arsenic - TCLP
010168903	DF/24-A/1026/R/03	SOIL	6010B	Barium - TCLP
010168903	DF/24-A/1026/R/03	SOIL	6010B	Cadmium - TCLP
010168903	DF/24-A/1026/R/03	SOIL	6010B	Chromium - TCLP
010168903	DF/24-A/1026/R/03	SOIL	7470A	Mercury - TCLP
010168903	DF/24-A/1026/R/03	SOIL	6010B	Lead - TCLP
010168903	DF/24-A/1026/R/03	SOIL	6010B	Selenium - TCLP
010168903	DF/24-A/1026/R/03	SOIL	8270C	TCLP Semivolatiles
010168903	DF/24-A/1026/R/03	SOIL	1311	TCLP Extraction Organics
010168903	DF/24-A/1026/R/03	SOIL	1311	TCLP Extraction ZHE
010168903	DF/24-A/1026/R/03	SOIL	8260B	TCLP Volatile Organics
010168904	DF/24-A/1026/R/04	SOIL	1311	TCLP Extraction
010168904	DF/24-A/1026/R/04	SOIL	6010B	Silver - TCLP
010168904	DF/24-A/1026/R/04	SOIL	6010B	Arsenic - TCLP
010168904	DF/24-A/1026/R/04	SOIL	6010B	Barium - TCLP
010168904	DF/24-A/1026/R/04	SOIL	6010B	Cadmium - TCLP
010168904	DF/24-A/1026/R/04	SOIL	6010B	Chromium - TCLP
010168904	DF/24-A/1026/R/04	SOIL	7470A	Mercury - TCLP
010168904	DF/24-A/1026/R/04	SOIL	6010B	Lead - TCLP
010168904	DF/24-A/1026/R/04	SOIL	6010B	Selenium - TCLP
010168904	DF/24-A/1026/R/04	SOIL	8270C	TCLP Semivolatiles
010168904	DF/24-A/1026/R/04	SOIL	1311	TCLP Extraction Organics
010168904	DF/24-A/1026/R/04	SOIL	1311	TCLP Extraction ZHE
010168904	DF/24-A/1026/R/04	SOIL	8260B	TCLP Volatile Organics
010168905	DF/24-A/1026/R/05	SOIL	1311	TCLP Extraction

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750
ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

656 100

Client Name **Innovative Waste Management**
Site ID **Dunn Field**
Memphis, TN

ETC Order #0101689

ETC Sample ID	Field ID	Matrix	Method	Method Description
010168905	DF/24-A/1026/R/05	SOIL	6010B	Silver - TCLP
010168905	DF/24-A/1026/R/05	SOIL	6010B	Arsenic - TCLP
010168905	DF/24-A/1026/R/05	SOIL	6010B	Barium - TCLP
010168905	DF/24-A/1026/R/05	SOIL	6010B	Cadmium - TCLP
010168905	DF/24-A/1026/R/05	SOIL	6010B	Chromium - TCLP
010168905	DF/24-A/1026/R/05	SOIL	7470A	Mercury - TCLP
010168905	DF/24-A/1026/R/05	SOIL	6010B	Lead - TCLP
010168905	DF/24-A/1026/R/05	SOIL	6010B	Selenium - TCLP
010168905	DF/24-A/1026/R/05	SOIL	8270C	TCLP Semivolatiles
010168905	DF/24-A/1026/R/05	SOIL	1311	TCLP Extraction Organics
010168905	DF/24-A/1026/R/05	SOIL	1311	TCLP Extraction ZHE
010168905	DF/24-A/1026/R/05	SOIL	8260B	TCLP Volatile Organics
010168906	DF/24-A/1026/R/06	SOIL	1311	TCLP Extraction
010168906	DF/24-A/1026/R/06	SOIL	6010B	Silver - TCLP
010168906	DF/24-A/1026/R/06	SOIL	6010B	Arsenic - TCLP
010168906	DF/24-A/1026/R/06	SOIL	6010B	Barium - TCLP
010168906	DF/24-A/1026/R/06	SOIL	6010B	Cadmium - TCLP
010168906	DF/24-A/1026/R/06	SOIL	6010B	Chromium - TCLP
010168906	DF/24-A/1026/R/06	SOIL	7470A	Mercury - TCLP
010168906	DF/24-A/1026/R/06	SOIL	6010B	Lead - TCLP
010168906	DF/24-A/1026/R/06	SOIL	6010B	Selenium - TCLP
010168906	DF/24-A/1026/R/06	SOIL	8270C	TCLP Semivolatiles
010168906	DF/24-A/1026/R/06	SOIL	1311	TCLP Extraction Organics
010168906	DF/24-A/1026/R/06	SOIL	1311	TCLP Extraction ZHE
010168906	DF/24-A/1026/R/06	SOIL	8260B	TCLP Volatile Organics
010168907	DF/24-A/1026/R/07	SOIL	1311	TCLP Extraction
010168907	DF/24-A/1026/R/07	SOIL	6010B	Silver - TCLP
010168907	DF/24-A/1026/R/07	SOIL	6010B	Arsenic - TCLP
010168907	DF/24-A/1026/R/07	SOIL	6010B	Barium - TCLP
010168907	DF/24-A/1026/R/07	SOIL	6010B	Cadmium - TCLP
010168907	DF/24-A/1026/R/07	SOIL	6010B	Chromium - TCLP
010168907	DF/24-A/1026/R/07	SOIL	7470A	Mercury - TCLP
010168907	DF/24-A/1026/R/07	SOIL	6010B	Lead - TCLP
010168907	DF/24-A/1026/R/07	SOIL	6010B	Selenium - TCLP
010168907	DF/24-A/1026/R/07	SOIL	8270C	TCLP Semivolatiles
010168907	DF/24-A/1026/R/07	SOIL	1311	TCLP Extraction Organics
010168907	DF/24-A/1026/R/07	SOIL	1311	TCLP Extraction ZHE
010168907	DF/24-A/1026/R/07	SOIL	8260B	TCLP Volatile Organics
010168908	DF/24-A/1026/R/08	SOIL	1311	TCLP Extraction
010168908	DF/24-A/1026/R/08	SOIL	6010B	Silver - TCLP
010168908	DF/24-A/1026/R/08	SOIL	6010B	Arsenic - TCLP
010168908	DF/24-A/1026/R/08	SOIL	6010B	Barium - TCLP
010168908	DF/24-A/1026/R/08	SOIL	6010B	Cadmium - TCLP
010168908	DF/24-A/1026/R/08	SOIL	6010B	Chromium - TCLP
010168908	DF/24-A/1026/R/08	SOIL	7470A	Mercury - TCLP
010168908	DF/24-A/1026/R/08	SOIL	6010B	Lead - TCLP
010168908	DF/24-A/1026/R/08	SOIL	6010B	Selenium - TCLP
010168908	DF/24-A/1026/R/08	SOIL	8270C	TCLP Semivolatiles
010168908	DF/24-A/1026/R/08	SOIL	1311	TCLP Extraction Organics
010168908	DF/24-A/1026/R/08	SOIL	1311	TCLP Extraction ZHE
010168908	DF/24-A/1026/R/08	SOIL	8260B	TCLP Volatile Organics
010168909	DF/24-A/1026/R/09	SOIL	1311	TCLP Extraction
010168909	DF/24-A/1026/R/09	SOIL	6010B	Silver - TCLP
010168909	DF/24-A/1026/R/09	SOIL	6010B	Arsenic - TCLP

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **Dunn Field**
Memphis, TN

ETC Order #0101689

ETC Sample ID	Field ID	Matrix	Method	Method Description
010168909	DF/24-A/1026/R/09	SOIL	6010B	Barium - TCLP
010168909	DF/24-A/1026/R/09	SOIL	6010B	Cadmium - TCLP
010168909	DF/24-A/1026/R/09	SOIL	6010B	Chromium - TCLP
010168909	DF/24-A/1026/R/09	SOIL	7470A	Mercury - TCLP
010168909	DF/24-A/1026/R/09	SOIL	6010B	Lead - TCLP
010168909	DF/24-A/1026/R/09	SOIL	6010B	Selenium - TCLP
010168909	DF/24-A/1026/R/09	SOIL	8270C	TCLP Semivolatiles
010168909	DF/24-A/1026/R/09	SOIL	1311	TCLP Extraction Organics
010168909	DF/24-A/1026/R/09	SOIL	1311	TCLP Extraction ZHE
010168909	DF/24-A/1026/R/09	SOIL	8260B	TCLP Volatile Organics
010168910	DF/24-A/1026/R/010	SOIL	1311	TCLP Extraction
010168910	DF/24-A/1026/R/010	SOIL	6010B	Silver - TCLP
010168910	DF/24-A/1026/R/010	SOIL	6010B	Arsenic - TCLP
010168910	DF/24-A/1026/R/010	SOIL	6010B	Barium - TCLP
010168910	DF/24-A/1026/R/010	SOIL	6010B	Cadmium - TCLP
010168910	DF/24-A/1026/R/010	SOIL	6010B	Chromium - TCLP
010168910	DF/24-A/1026/R/010	SOIL	7470A	Mercury - TCLP
010168910	DF/24-A/1026/R/010	SOIL	6010B	Lead - TCLP
010168910	DF/24-A/1026/R/010	SOIL	6010B	Selenium - TCLP
010168910	DF/24-A/1026/R/010	SOIL	8270C	TCLP Semivolatiles
010168910	DF/24-A/1026/R/010	SOIL	1311	TCLP Extraction Organics
010168910	DF/24-A/1026/R/010	SOIL	1311	TCLP Extraction ZHE
010168910	DF/24-A/1026/R/010	SOIL	8260B	TCLP Volatile Organics
010168911	DF/24-A/1026/R/011	SOIL	1311	TCLP Extraction
010168911	DF/24-A/1026/R/011	SOIL	6010B	Silver - TCLP
010168911	DF/24-A/1026/R/011	SOIL	6010B	Arsenic - TCLP
010168911	DF/24-A/1026/R/011	SOIL	6010B	Barium - TCLP
010168911	DF/24-A/1026/R/011	SOIL	6010B	Cadmium - TCLP
010168911	DF/24-A/1026/R/011	SOIL	6010B	Chromium - TCLP
010168911	DF/24-A/1026/R/011	SOIL	7470A	Mercury - TCLP
010168911	DF/24-A/1026/R/011	SOIL	6010B	Lead - TCLP
010168911	DF/24-A/1026/R/011	SOIL	6010B	Selenium - TCLP
010168911	DF/24-A/1026/R/011	SOIL	8270C	TCLP Semivolatiles
010168911	DF/24-A/1026/R/011	SOIL	1311	TCLP Extraction Organics
010168911	DF/24-A/1026/R/011	SOIL	1311	TCLP Extraction ZHE
010168911	DF/24-A/1026/R/011	SOIL	8260B	TCLP Volatile Organics
010168912	DF/24-A/1026/R/012	SOIL	1311	TCLP Extraction
010168912	DF/24-A/1026/R/012	SOIL	6010B	Silver - TCLP
010168912	DF/24-A/1026/R/012	SOIL	6010B	Arsenic - TCLP
010168912	DF/24-A/1026/R/012	SOIL	6010B	Barium - TCLP
010168912	DF/24-A/1026/R/012	SOIL	6010B	Cadmium - TCLP
010168912	DF/24-A/1026/R/012	SOIL	6010B	Chromium - TCLP
010168912	DF/24-A/1026/R/012	SOIL	7470A	Mercury - TCLP
010168912	DF/24-A/1026/R/012	SOIL	6010B	Lead - TCLP
010168912	DF/24-A/1026/R/012	SOIL	6010B	Selenium - TCLP
010168912	DF/24-A/1026/R/012	SOIL	8270C	TCLP Semivolatiles
010168912	DF/24-A/1026/R/012	SOIL	1311	TCLP Extraction Organics
010168912	DF/24-A/1026/R/012	SOIL	1311	TCLP Extraction ZHE
010168912	DF/24-A/1026/R/012	SOIL	8260B	TCLP Volatile Organics
010168913	DF/24-A/1026/R/013	SOIL	1311	TCLP Extraction
010168913	DF/24-A/1026/R/013	SOIL	6010B	Silver - TCLP
010168913	DF/24-A/1026/R/013	SOIL	6010B	Arsenic - TCLP
010168913	DF/24-A/1026/R/013	SOIL	6010B	Barium - TCLP
010168913	DF/24-A/1026/R/013	SOIL	6010B	Cadmium - TCLP

ENVIRONMENTAL TESTING & CONSULTING, INC.
 2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750
ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

656 102

Client Name **Innovative Waste Management**
 Site ID **Dunn Field**
Memphis, TN

ETC Order #0101689

<u>ETC</u> <u>Sample ID</u>	<u>Field</u> <u>ID</u>	<u>Matrix</u>	<u>Method</u>	<u>Method Description</u>
010168913	DF/24-A/1026/R/013	SOIL	6010B	Chromium - TCLP
010168913	DF/24-A/1026/R/013	SOIL	7470A	Mercury - TCLP
010168913	DF/24-A/1026/R/013	SOIL	6010B	Lead - TCLP
010168913	DF/24-A/1026/R/013	SOIL	6010B	Selenium - TCLP
010168913	DF/24-A/1026/R/013	SOIL	8270C	TCLP Semivolatiles
010168913	DF/24-A/1026/R/013	SOIL	1311	TCLP Extraction Organics
010168913	DF/24-A/1026/R/013	SOIL	1311	TCLP Extraction ZHE
010168913	DF/24-A/1026/R/013	SOIL	8260B	TCLP Volatile Organics
010168914	DF/24-A/1026/R/014	SOIL	1311	TCLP Extraction
010168914	DF/24-A/1026/R/014	SOIL	6010B	Silver - TCLP
010168914	DF/24-A/1026/R/014	SOIL	6010B	Arsenic - TCLP
010168914	DF/24-A/1026/R/014	SOIL	6010B	Barium - TCLP
010168914	DF/24-A/1026/R/014	SOIL	6010B	Cadmium - TCLP
010168914	DF/24-A/1026/R/014	SOIL	6010B	Chromium - TCLP
010168914	DF/24-A/1026/R/014	SOIL	7470A	Mercury - TCLP
010168914	DF/24-A/1026/R/014	SOIL	6010B	Lead - TCLP
010168914	DF/24-A/1026/R/014	SOIL	6010B	Selenium - TCLP
010168914	DF/24-A/1026/R/014	SOIL	8270C	TCLP Semivolatiles
010168914	DF/24-A/1026/R/014	SOIL	1311	TCLP Extraction Organics
010168914	DF/24-A/1026/R/014	SOIL	1311	TCLP Extraction ZHE
010168914	DF/24-A/1026/R/014	SOIL	8260B	TCLP Volatile Organics
010168915	DF/24-A/1026/R/015	SOIL	1311	TCLP Extraction
010168915	DF/24-A/1026/R/015	SOIL	6010B	Silver - TCLP
010168915	DF/24-A/1026/R/015	SOIL	6010B	Arsenic - TCLP
010168915	DF/24-A/1026/R/015	SOIL	6010B	Barium - TCLP
010168915	DF/24-A/1026/R/015	SOIL	6010B	Cadmium - TCLP
010168915	DF/24-A/1026/R/015	SOIL	6010B	Chromium - TCLP
010168915	DF/24-A/1026/R/015	SOIL	7470A	Mercury - TCLP
010168915	DF/24-A/1026/R/015	SOIL	6010B	Lead - TCLP
010168915	DF/24-A/1026/R/015	SOIL	6010B	Selenium - TCLP
010168915	DF/24-A/1026/R/015	SOIL	8270C	TCLP Semivolatiles
010168915	DF/24-A/1026/R/015	SOIL	1311	TCLP Extraction Organics
010168915	DF/24-A/1026/R/015	SOIL	1311	TCLP Extraction ZHE
010168915	DF/24-A/1026/R/015	SOIL	8260B	TCLP Volatile Organics
010168916	DF/24-A/1026/R/016	SOIL	1311	TCLP Extraction
010168916	DF/24-A/1026/R/016	SOIL	6010B	Silver - TCLP
010168916	DF/24-A/1026/R/016	SOIL	6010B	Arsenic - TCLP
010168916	DF/24-A/1026/R/016	SOIL	6010B	Barium - TCLP
010168916	DF/24-A/1026/R/016	SOIL	6010B	Cadmium - TCLP
010168916	DF/24-A/1026/R/016	SOIL	6010B	Chromium - TCLP
010168916	DF/24-A/1026/R/016	SOIL	7470A	Mercury - TCLP
010168916	DF/24-A/1026/R/016	SOIL	6010B	Lead - TCLP
010168916	DF/24-A/1026/R/016	SOIL	6010B	Selenium - TCLP
010168916	DF/24-A/1026/R/016	SOIL	8270C	TCLP Semivolatiles
010168916	DF/24-A/1026/R/016	SOIL	1311	TCLP Extraction Organics
010168916	DF/24-A/1026/R/016	SOIL	1311	TCLP Extraction ZHE
010168916	DF/24-A/1026/R/016	SOIL	8260B	TCLP Volatile Organics
010168917	DF/24-A/1026/R/017	SOIL	1311	TCLP Extraction
010168917	DF/24-A/1026/R/017	SOIL	6010B	Silver - TCLP
010168917	DF/24-A/1026/R/017	SOIL	6010B	Arsenic - TCLP
010168917	DF/24-A/1026/R/017	SOIL	6010B	Barium - TCLP
010168917	DF/24-A/1026/R/017	SOIL	6010B	Cadmium - TCLP
010168917	DF/24-A/1026/R/017	SOIL	6010B	Chromium - TCLP
010168917	DF/24-A/1026/R/017	SOIL	7470A	Mercury - TCLP

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **Dunn Field**
Memphis, TN

ETC Order #0101689

ETC Sample ID	Field ID	Matrix	Method	Method Description
010168917	DF/24-A/1026/R/017	SOIL	6010B	Lead - TCLP
010168917	DF/24-A/1026/R/017	SOIL	6010B	Selenium - TCLP
010168917	DF/24-A/1026/R/017	SOIL	8270C	TCLP Semivolatiles
010168917	DF/24-A/1026/R/017	SOIL	1311	TCLP Extraction Organics
010168917	DF/24-A/1026/R/017	SOIL	1311	TCLP Extraction ZHE
010168917	DF/24-A/1026/R/017	SOIL	8260B	TCLP Volatile Organics
010168918	DF/24-A/1026/R/018	SOIL	1311	TCLP Extraction
010168918	DF/24-A/1026/R/018	SOIL	6010B	Silver - TCLP
010168918	DF/24-A/1026/R/018	SOIL	6010B	Arsenic - TCLP
010168918	DF/24-A/1026/R/018	SOIL	6010B	Barium - TCLP
010168918	DF/24-A/1026/R/018	SOIL	6010B	Cadmium - TCLP
010168918	DF/24-A/1026/R/018	SOIL	6010B	Chromium - TCLP
010168918	DF/24-A/1026/R/018	SOIL	7470A	Mercury - TCLP
010168918	DF/24-A/1026/R/018	SOIL	6010B	Lead - TCLP
010168918	DF/24-A/1026/R/018	SOIL	6010B	Selenium - TCLP
010168918	DF/24-A/1026/R/018	SOIL	8270C	TCLP Semivolatiles
010168918	DF/24-A/1026/R/018	SOIL	1311	TCLP Extraction Organics
010168918	DF/24-A/1026/R/018	SOIL	1311	TCLP Extraction ZHE
010168918	DF/24-A/1026/R/018	SOIL	8260B	TCLP Volatile Organics
010168919	DF/24-A/1026/R/019	SOIL	1311	TCLP Extraction
010168919	DF/24-A/1026/R/019	SOIL	6010B	Silver - TCLP
010168919	DF/24-A/1026/R/019	SOIL	6010B	Arsenic - TCLP
010168919	DF/24-A/1026/R/019	SOIL	6010B	Barium - TCLP
010168919	DF/24-A/1026/R/019	SOIL	6010B	Cadmium - TCLP
010168919	DF/24-A/1026/R/019	SOIL	6010B	Chromium - TCLP
010168919	DF/24-A/1026/R/019	SOIL	7470A	Mercury - TCLP
010168919	DF/24-A/1026/R/019	SOIL	6010B	Lead - TCLP
010168919	DF/24-A/1026/R/019	SOIL	6010B	Selenium - TCLP
010168919	DF/24-A/1026/R/019	SOIL	8270C	TCLP Semivolatiles
010168919	DF/24-A/1026/R/019	SOIL	1311	TCLP Extraction Organics
010168919	DF/24-A/1026/R/019	SOIL	1311	TCLP Extraction ZHE
010168919	DF/24-A/1026/R/019	SOIL	8260B	TCLP Volatile Organics



Environmental Testing & Consulting, Inc.
2924 Walnut Grove Rd.
Memphis, TN 38111
(901)327-2750 FAX (901)327-6334

CHAIN OF CUSTODY RECORD

ETC Work Order : 0101889

000008

Company Name MAX B Int.		Phone # : (901) 327-4559		Fax Results												
Project/Site Dunn Field, Memphis TN		Fax # : (901) 745-		RUSH												
Project #		FID # :		Ice												
Project Manager/Contact Chris Rose / Jim Dunkle		Matrix		4 Sludge												
		1 Wastewater		5 Oil/Solvent												
		2 Aqueous		6 Other												
		3 Soil/Sediment														
# of cont.	Sample ID/ Number	Depth	Sample Date	Sample Time	Matrix	Type	Grab/Comp	Analysis Requested (Note special detection limits or methods)								Comments
1	DE/24-A/1026/R/01		01/24/01	1400	3	Comp		X	TCLP Metals	VOC	SVOC					
1	DE/24-A/1026/R/02		01/26/01	1400	3	Comp		X								
1	DE/24-A/1026/R/03		01/26/01	1400	3	Comp		X								
1	DE/24-A/1026/R/04		01/26/01	1400	3	Comp		X								
1	DE/24-A/1026/R/05		01/26/01	1400	3	Comp		X								
1	DE/24-A/1026/R/06		01/26/01	1400	3	Comp		X								
1	DE/24-A/1026/R/07		01/26/01	1400	3	Comp		X								
1	DE/24-A/1026/R/08		01/26/01	1400	3	Comp		X								
1	DE/24-A/1026/R/09		01/26/01	1400	3	Comp		X								
1	DE/24-A/1026/R/10		01/26/01	1400	3	Comp		X								
1	DE/24-A/1026/R/11		01/26/01	1400	3	Comp		X								
Sampled By Chris Rose		Method of Shipment Airt		Blank/Cooler Temp		Remarks COMP										
RELINQUISHED BY (sign) Chris Rose		DATE 01/26/01		TIME 1605		RECEIVED BY (sign) Jim Dunkle		DATE 01/26/01		TIME 1605		Sample Delivery Group ID				
RELINQUISHED BY (sign)		DATE		TIME		RECEIVED BY (sign)		DATE		TIME						
RELINQUISHED BY (sign)		DATE		TIME		RECEIVED BY (sign)		DATE		TIME						

Distribution : Original and Yellow accompany samples to the laboratory. Pink copy for Field Crew.
Original copy returned with results. Yellow copy for ETC, Inc. files.



2924 Walnut Grove Rd.

Memphis, TN 38111

FAX (901)327-6334

ETC Work Order :

0101689

000009

656 105

Distribution : Original and Yellow accompany samples to the laboratory. Pink copy for Field Crew. Original copy returned with results. Yellow copy for ETC, Inc. files.

Environmental Testing & Consulting, Inc.

Sample Reports

656 107

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-01**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/01**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL	1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR	3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF	7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH	6010B
Barium - TCLP	1.44	mg/L	0.025	01/31/01	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH	6010B


 Data Validator

ND - Not Detected

000011

656 108

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-02**Field ID : **DF/24-A/1026/R/02**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.39	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

CS
Data Validator

ND - Not Detected

000012

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID : **0101689-03**
Field ID : **DF/24-A/1026/R/03**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL	1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR	3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF	7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH	6010B
Barium - TCLP	0.731	mg/L	0.025	01/31/01	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH	6010B

CS
Data Validator

ND - Not Detected

000013

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID : **0101689-04**
 Field ID : **DF/24-A/1026/R/04**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	0.994	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

656 111

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID : **0101689-05**
Field ID : **DF/24-A/1026/R/05**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL	1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR	3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF	7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH	6010B
Barium - TCLP	1.23	mg/L	0.025	01/31/01	01/31/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH	6010B

CS
Data Validator

ND - Not Detected

000015

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-06**Field ID : **DF/24-A/1026/R/06**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.48	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B


 Data Validator

ND - Not Detected

000016

656 113

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-07**
Field ID : **DF/24-A/1026/R/07**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.31	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

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Data Validator

ND - Not Detected

000017

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-08**Field ID : **DF/24-A/1026/R/08**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.03	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

Data Validator 

ND - Not Detected

000018

656 115

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID : **0101689-09**
Field ID : **DF/24-A/1026/R/09**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.07	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

Data Validator

ND - Not Detected

000019

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 116

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-10**
Field ID : **DF/24-A/1026/R/010**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/29/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.18	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

CS
Data Validator

ND - Not Detected

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656 117

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-11**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/011**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.00	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B


 Data Validator

ND - Not Detected

000021

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 118

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-12**
Field ID : **DF/24-A/1026/R/012**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	0.844	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

CS
Data Validator

ND - Not Detected

000022

656 119

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-13**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/013**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.08	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

CS
Data Validator

ND - Not Detected

000023

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 120

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-14**
Field ID : **DF/24-A/1026/R/014**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.44	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B


Data Validator

ND - Not Detected

000024

656 121

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

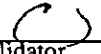
Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-15**
Field ID : **DF/24-A/1026/R/015**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.62	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B


Data Validator

ND - Not Detected

000025

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 122

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID : **0101689-16**
Field ID : **DF/24-A/1026/R/016**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.43	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B


Data Validator

ND - Not Detected

000026

656 123

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-17**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/017**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.13	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

CS
Data Validator

ND - Not Detected

000027

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID : **0101689-18**
Field ID : **DF/24-A/1026/R/018**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.27	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B


 Data Validator

ND - Not Detected

000028

656 125

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID : **0101689-19**
 Field ID : **DF/24-A/1026/R/019**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				01/30/01	TL 1311
Metals Digestion Batch	V24-AQ-37				01/31/01	NR 3015A
Mercury Digestion Batch	V7-AQ-93				01/31/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Barium - TCLP	1.40	mg/L	0.025	01/31/01	01/31/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	01/31/01	01/31/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	01/31/01	01/31/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	01/31/01	01/31/01	SH 6010B

CS
 Data Validator

ND - Not Detected

000029

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 126

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-01**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/01**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/01/01	01/29/01	TL 1311 EM 8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	107		74 123			
S2 - Toluene-d8	98		86 112			
S3 - 4-Bromofluorobenzene	96		81 115			
S4 - 1,2-Dichloroethane-d4	101		80 120			

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000030

656 127

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-02**
 Field ID : **DF/24-A/1026/R/02**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	104		74	123		
S2 - Toluene-d8	99		86	112		
S3 - 4-Bromofluorobenzene	97		81	115		
S4 - 1,2-Dichloroethane-d4	102		80	120		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000031

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-03**Field ID : **DF/24-A/1026/R/03**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	111		74	123		
S2 - Toluene-d8	100		86	112		
S3 - 4-Bromofluorobenzene	96		81	115		
S4 - 1,2-Dichloroethane-d4	108		80	120		

656 129

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-04**Field ID : **DF/24-A/1026/R/04**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	107		74	123		
S2 - Toluene-d8	102		86	112		
S3 - 4-Bromofluorobenzene	98		81	115		
S4 - 1,2-Dichloroethane-d4	95		80	120		

C_s
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000033

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 130

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-05**
Field ID : **DF/24-A/1026/R/05**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/01/01	01/29/01	TL 1311 EM 8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	104		74 123			
S2 - Toluene-d8	99		86 112			
S3 - 4-Bromofluorobenzene	96		81 115			
S4 - 1,2-Dichloroethane-d4	93		80 120			

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000034

656 131

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-06**
 Field ID : **DF/24-A/1026/R/06**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	104		74 123			
S2 - Toluene-d8	96		86 112			
S3 - 4-Bromofluorobenzene	98		81 115			
S4 - 1,2-Dichloroethane-d4	102		80 120			

05

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000035

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 132

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-07**
Field ID : **DF/24-A/1026/R/07**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	111		74 123			
S2 - Toluene-d8	97		86 112			
S3 - 4-Bromofluorobenzene	96		81 115			
S4 - 1,2-Dichloroethane-d4	106		80 120			

CS
Data Validator ND - Not Detected

Q - Recovery Outside QC Limits

000036

656 133

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-08**
Field ID : **DF/24-A/1026/R/08**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	112		74	123		
S2 - Toluene-d8	98		86	112		
S3 - 4-Bromofluorobenzene	97		81	115		
S4 - 1,2-Dichloroethane-d4	106		80	120		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000037

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-09**
 Field ID : **DF/24-A/1026/R/09**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	109		74	123		
S2 - Toluene-d8	99		86	112		
S3 - 4-Bromofluorobenzene	96		81	115		
S4 - 1,2-Dichloroethane-d4	102		80	120		

656 135

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-10**
Field ID : **DF/24-A/1026/R/010**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/29/01	TL 1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	109		74	123		
S2 - Toluene-d8	96		86	112		
S3 - 4-Bromofluorobenzene	96		81	115		
S4 - 1,2-Dichloroethane-d4	103		80	120		

Data Validator *C.S.*

ND - Not Detected

Q - Recovery Outside QC Limits

000039

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 136

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-11**
Field ID : **DF/24-A/1026/R/011**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/01/01	01/30/01	TL 1311 EM 8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	109		74 123			
S2 - Toluene-d8	97		86 112			
S3 - 4-Bromofluorobenzene	96		81 115			
S4 - 1,2-Dichloroethane-d4	98		80 120			

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000040

656 137

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-12**Matrix : **SOIL**Field ID : **DF/24-A/1026/R/012**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				TL	1311
TCLP Volatile Organics				02/01/01	EM	8260B 5030B
QC Batch	V402011					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	107		74	123		
S2 - Toluene-d8	98		86	112		
S3 - 4-Bromofluorobenzene	94		81	115		
S4 - 1,2-Dichloroethane-d4	105		80	120		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000041

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 138

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-13**
Field ID : **DF/24-A/1026/R/013**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/02/01	01/30/01	TL 1311 EM 8260B 5030B
QC Batch	V402021					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Dibromofluoromethane	112		74 123			
S2 - Toluene-d8	94		86 112			
S3 - 4-Bromofluorobenzene	97		81 115			
S4 - 1,2-Dichloroethane-d4	97		80 120			

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Data Validator ND - Not Detected

Q - Recovery Outside QC Limits

000042

656 139

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-14**
 Field ID : **DF/24-A/1026/R/014**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/02/01	EM	8260B 5030B
QC Batch	V402021					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			

Surrogate Standard	% Recovery	QC Limits
S1 - Dibromofluoromethane	106	74 123
S2 - Toluene-d8	99	86 112
S3 - 4-Bromofluorobenzene	95	81 115
S4 - 1,2-Dichloroethane-d4	94	80 120

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 Data Validator ND - Not Detected

Q - Recovery Outside QC Limits

000043

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-15**
Field ID : **DF/24-A/1026/R/015**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/02/01	EM	8260B 5030B
QC Batch	V402021					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	110		74	123		
S2 - Toluene-d8	104		86	112		
S3 - 4-Bromofluorobenzene	96		81	115		
S4 - 1,2-Dichloroethane-d4	97		80	120		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000044

656 141

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-16**Field ID : **DF/24-A/1026/R/016**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/02/01	EM	8260B 5030B
QC Batch	V402021					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	107		74	123		
S2 - Toluene-d8	99		86	112		
S3 - 4-Bromofluorobenzene	95		81	115		
S4 - 1,2-Dichloroethane-d4	94		80	120		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000045

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 142

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-17**
Field ID : **DF/24-A/1026/R/017**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/02/01	01/30/01	TL 1311 LS 8260B 5030B
QC Batch	V102021					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	122		74 123			
S2 - Toluene-d8	104		86 112			
S3 - 4-Bromofluorobenzene	106		81 115			
S4 - 1,2-Dichloroethane-d4	123 Q		80 120			

C S

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000046

656 143

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-18**
Field ID : **DF/24-A/1026/R/018**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				TL	1311
TCLP Volatile Organics				02/02/01	LS	8260B 5030B
QC Batch	V102021					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	122		74	123		
S2 - Toluene-d8	109		86	112		
S3 - 4-Bromofluorobenzene	112		81	115		
S4 - 1,2-Dichloroethane-d4	121 Q		80	120		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000047

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 144

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-19**
Field ID : **DF/24-A/1026/R/019**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				01/30/01	TL 1311
TCLP Volatile Organics				02/02/01	LS	8260B 5030B
QC Batch	V102021					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	117		74 123			
S2 - Toluene-d8	111		86 112			
S3 - 4-Bromofluorobenzene	112		81 115			
S4 - 1,2-Dichloroethane-d4	123 Q		80 120			

67
Data Validator ND - Not Detected

Q - Recovery Outside QC Limits

000048

656 145

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-01**
 Field ID : **DF/24-A/1026/R/01**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF	8270C
QC Batch	P06053				01/31/01	3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	42		29	110		
S2 - 2-Fluorobiphenyl	44		38	107		
S3 - 4-Terphenyl-d14	52		33	122		
S4 - Phenol-d6	12		7	58		
S5 - 2,4,6-Tribromophenol	35		16	138		
S6 - 2-Fluorophenol	20		8	88		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000049

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 146

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-02**Field ID : **DF/24-A/1026/R/02**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL	1311
TCLP Semivolatiles				02/01/01	PF	8270C
QC Batch	P06053					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			

Surrogate Standard	% Recovery	QC Limits
S1 - Nitrobenzene-d5	76	29 110
S2 - 2-Fluorobiphenyl	78	38 107
S3 - 4-Terphenyl-d14	100	33 122
S4 - Phenol-d6	22	7 58
S5 - 2,4,6-Tribromophenol	66	16 138
S6 - 2-Fluorophenol	33	8 88

656 147

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-03**
Field ID : **DF/24-A/1026/R/03**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL	1311
TCLP Semivolatiles				02/01/01	PF	8270C
QC Batch	P06053					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	79		29	110		
S2 - 2-Fluorobiphenyl	81		38	107		
S3 - 4-Terphenyl-d14	99		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	68		16	138		
S6 - 2-Fluorophenol	36		8	88		

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000051

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-04**Field ID : **DF/24-A/1026/R/04**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	01/31/01	PF 8270C 3510C
QC Batch	P06053					
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery			QC Limits		
S1 - Nitrobenzene-d5	75			29 110		
S2 - 2-Fluorobiphenyl	78			38 107		
S3 - 4-Terphenyl-d14	98			33 122		
S4 - Phenol-d6	22			7 58		
S5 - 2,4,6-Tribromophenol	64			16 138		
S6 - 2-Fluorophenol	34			8 88		

Data Validator CS ND - Not Detected

Q - Recovery Outside QC Limits

000052

656 149

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-05**
 Field ID : **DF/24-A/1026/R/05**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF 01/31/01	8270C 3510C
QC Batch	P06053					
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	77		29 110			
S2 - 2-Fluorobiphenyl	80		38 107			
S3 - 4-Terphenyl-d14	101		33 122			
S4 - Phenol-d6	24		7 58			
S5 - 2,4,6-Tribromophenol	69		16 138			
S6 - 2-Fluorophenol	35		8 88			

CS
 Data Validator ND - Not Detected

Q - Recovery Outside QC Limits

000053

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 150

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-06**
Field ID : **DF/24-A/1026/R/06**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF 8270C	3510C
QC Batch	P06053				01/31/01	
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	68		29			110
S2 - 2-Fluorobiphenyl	70		38			107
S3 - 4-Terphenyl-d14	93		33			122
S4 - Phenol-d6	22		7			58
S5 - 2,4,6-Tribromophenol	60		16			138
S6 - 2-Fluorophenol	34		8			88

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000054

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-07**Field ID : **DF/24-A/1026/R/07**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL	1311
TCLP Semivolatiles				02/01/01	PF	8270C
QC Batch	P06053					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	74		29	110		
S2 - 2-Fluorobiphenyl	76		38	107		
S3 - 4-Terphenyl-d14	96		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	67		16	138		
S6 - 2-Fluorophenol	35		8	88		

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-08**Field ID : **DF/24-A/1026/R/08**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF 8270C	3510C
QC Batch	P06053				01/31/01	
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	69		29			110
S2 - 2-Fluorobiphenyl	73		38			107
S3 - 4-Terphenyl-d14	84		33			122
S4 - Phenol-d6	22		7			58
S5 - 2,4,6-Tribromophenol	65		16			138
S6 - 2-Fluorophenol	33		8			88

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000056

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-09**Field ID : **DF/24-A/1026/R/09**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF	8270C
QC Batch	P06053				01/31/01	3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	80		29	110		
S2 - 2-Fluorobiphenyl	82		38	107		
S3 - 4-Terphenyl-d14	107		33	122		
S4 - Phenol-d6	23		7	58		
S5 - 2,4,6-Tribromophenol	71		16	138		
S6 - 2-Fluorophenol	36		8	88		

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 154

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-10**
Field ID : **DF/24-A/1026/R/010**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				01/29/01	RL 1311
TCLP Semivolatiles				02/01/01	PF 8270C	3510C
QC Batch	P06053				01/31/01	
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery			QC Limits		
S1 - Nitrobenzene-d5	73			29		110
S2 - 2-Fluorobiphenyl	75			38		107
S3 - 4-Terphenyl-d14	106			33		122
S4 - Phenol-d6	22			7		58
S5 - 2,4,6-Tribromophenol	63			16		138
S6 - 2-Fluorophenol	34			8		88

656 155

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-11**Field ID : **DF/24-A/1026/R/011**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL	1311
TCLP Semivolatiles				02/01/01	PF	8270C
QC Batch	P06053					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	75		29	110		
S2 - 2-Fluorobiphenyl	77		38	107		
S3 - 4-Terphenyl-d14	95		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	66		16	138		
S6 - 2-Fluorophenol	34		8	88		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000059

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 156

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-12**
Field ID : **DF/24-A/1026/R/012**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/01/01	01/30/01	RL 1311
					01/31/01	PF 8270C
QC Batch	P06053					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	73		29 110			
S2 - 2-Fluorobiphenyl	76		38 107			
S3 - 4-Terphenyl-d14	103		33 122			
S4 - Phenol-d6	22		7 58			
S5 - 2,4,6-Tribromophenol	68		16 138			
S6 - 2-Fluorophenol	35		8 88			

CS
Data Validator ND - Not Detected

Q - Recovery Outside QC Limits

000060

656 157

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-13**Field ID : **DF/24-A/1026/R/013**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL	1311
TCLP Semivolatiles				02/01/01	PF	8270C
QC Batch	P06053					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	76		29	110		
S2 - 2-Fluorobiphenyl	76		38	107		
S3 - 4-Terphenyl-d14	99		33	122		
S4 - Phenol-d6	23		7	58		
S5 - 2,4,6-Tribromophenol	69		16	138		
S6 - 2-Fluorophenol	35		8	88		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000061

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 158

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-14**
Field ID : **DF/24-A/1026/R/014**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/01/01	01/30/01	RL 1311
					01/31/01	PF 8270C
QC Batch	P06053					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	75		29			110
S2 - 2-Fluorobiphenyl	77		38			107
S3 - 4-Terphenyl-d14	104		33			122
S4 - Phenol-d6	23		7			58
S5 - 2,4,6-Tribromophenol	68		16			138
S6 - 2-Fluorophenol	35		8			88

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000062

656 159

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
 FID #

Date Arrived **01/29/01**
 ETC Order Number **0101689**

ETC Lab ID **0101689-15**
 Field ID : **DF/24-A/1026/R/015**

Matrix : **SOIL**
 Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL	1311
TCLP Semivolatiles				02/01/01	PF	8270C
QC Batch	P06053				01/31/01	3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	73		29	110		
S2 - 2-Fluorobiphenyl	75		38	107		
S3 - 4-Terphenyl-d14	106		33	122		
S4 - Phenol-d6	22		7	58		
S5 - 2,4,6-Tribromophenol	66		16	138		
S6 - 2-Fluorophenol	34		8	88		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000063

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 160

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-16**Field ID : **DF/24-A/1026/R/016**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/01/01	01/30/01	RL 1311
					01/31/01	PF 8270C
						3510C
QC Batch	P06053					
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
<u>Surrogate Standard</u>	<u>% Recovery</u>			<u>QC Limits</u>		
S1 - Nitrobenzene-d5	82			29		110
S2 - 2-Fluorobiphenyl	82			38		107
S3 - 4-Terphenyl-d14	106			33		122
S4 - Phenol-d6	24			7		58
S5 - 2,4,6-Tribromophenol	70			16		138
S6 - 2-Fluorophenol	38			8		88

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000064

656 161

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**ETC Lab ID **0101689-17**
Field ID : **DF/24-A/1026/R/017**Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL	1311
TCLP Semivolatiles				02/02/01	PF	8270C
QC Batch	P06053					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	77		29	110		
S2 - 2-Fluorobiphenyl	81		38	107		
S3 - 4-Terphenyl-d14	118		33	122		
S4 - Phenol-d6	24		7	58		
S5 - 2,4,6-Tribromophenol	69		16	138		
S6 - 2-Fluorophenol	37		8	88		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000065

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 162

Client Name **Innovative Waste Management**Site ID **Dunn Field
Memphis, TN****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **01/29/01**ETC Order Number **0101689**ETC Lab ID **0101689-18**Field ID : **DF/24-A/1026/R/018**Matrix : **SOIL**Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/02/01	01/30/01	RL 1311
					01/31/01	PF 8270C
QC Batch	P06053					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery			QC Limits		
S1 - Nitrobenzene-d5	81			29		110
S2 - 2-Fluorobiphenyl	85			38		107
S3 - 4-Terphenyl-d14	113			33		122
S4 - Phenol-d6	24			7		58
S5 - 2,4,6-Tribromophenol	74			16		138
S6 - 2-Fluorophenol	38			8		88

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000066

656 163

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**
P.O. Box 50397
Summerville, SC 29485-0397

Site ID **Dunn Field**
Memphis, TN
FID #

Date Arrived **01/29/01**
ETC Order Number **0101689**

ETC Lab ID **0101689-19**
Field ID : **DF/24-A/1026/R/019**

Matrix : **SOIL**
Sample Date : **01/26/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				RL 1311	
TCLP Semivolatiles				02/02/01	PF 8270C	
QC Batch	P06053				01/31/01	3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	68		29	110		
S2 - 2-Fluorobiphenyl	71		38	107		
S3 - 4-Terphenyl-d14	97		33	122		
S4 - Phenol-d6	21		7	58		
S5 - 2,4,6-Tribromophenol	64		16	138		
S6 - 2-Fluorophenol	33		8	88		

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000067

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
Metals (ICP/GFAA/CV)**

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
METALS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0101-689

HOLDING TIMES

QC Batch(s) for this order	ICP Metals	V24-AQ-37
	Mercury	V7-AQ-93
TCLP Extraction	All soils extracted within 180 days. (28 days for Mercury)	
Sample Preparation	All TCLP leachates prepared and analyzed within 180 days. (28 days for Mercury)	

CALIBRATION

Initial Calibration	All criteria met.
Continuing Calibration	All criteria met.

SAMPLE ANALYSIS

Instrumentation:	Thermo Jarrell Ash Enviro-I ICP CETAC M-6000A Mercury Analyzer
Dilutions Required	No dilutions required.

QUALITY CONTROL

0101-689.MQCBLANK

Method Blank

V24-AQ-37BLK	ICP Metals
V7-AQ-93BLK	Mercury

No analytes detected in the Method Blank

0101-689.MQCLCS

Laboratory Control Sample(s)

V24-AQ-37LCS	ICP Metals
V7-AQ-93LCS	Mercury

All criteria met.

0101-689.MQCMSMSD

Matrix Spike / Matrix Spike Dup - ICP Metals

0101-689-15	RPD	All analytes within QC limits.
DF/24-A/1026/R/015	Spike Recovery	All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

Matrix Spike / Matrix Spike Dup - Hg

0101-689-15	RPD	All analytes within QC limits.
DF/24-A/1026/R/015	Spike Recovery	All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
METALS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0101-689

QUALITY CONTROL

0101-689.MQCSample MS

Matrix Spike - ICP Metals

0101-689-05

DF/24-A/1026/R/05 Spike Recovery All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

Matrix Spike - Hg

0101-689-05

DF/24-A/1026/R/05 Spike Recovery All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

Dilution Test Dilution result must agree within 10% of original result when sample is diluted by a factor of 5.
Post Digestion Spike Recovery must be +/-25% of expected value for ICP.



Project Manager

656 167

FORM 3A
TCLP/SPLP METHOD BLANK
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID ICP/GFAA Metals
Laboratory ID MercuryV24-AQ-37 BLK
V7-AQ-93 BLKQC Batch
V24-AQ-37
V7-AQ-93

Date Sample Prepared

01/31/01
01/31/01ICP/GFAA Metals
Mercury

Metals	Concentration mg/L	Detection Limit mg/L	Date Analyzed	Method
Silver	ND	0.013	01/31/01	6010B
Arsenic	ND	0.625	01/31/01	6010B
Barium	ND	0.025	01/31/01	6010B
Cadmium	ND	0.032	01/31/01	6010B
Chromium	ND	0.013	01/31/01	6010B
Lead	ND	0.315	01/31/01	6010B
Selenium	ND	0.625	01/31/01	6010B
Mercury	ND	0.001	01/31/01	7470A

ND - Not Detected

Reviewed by CS

0101-689.mqc BLANK

000071

FORM 7
TCLP/SPLP LABORATORY CONTROL SAMPLE
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory Control ID	ICP/GFAA Metals	<u>V24-AQ-37</u>	LCS	QC Batch
	Mercury	<u>V7-AQ-93</u>	LCS	<u>V24-AQ-37</u>
				<u>V7-AQ-93</u>
 Date Prepared	 ICP/GFAA Metals	 <u>01/31/01</u>		
	Mercury	<u>01/31/01</u>		

Metals	Spike Added mg/L	Found mg/L	% R	#	QC Limits	
Silver	0.250	0.273	109		80	120
Arsenic	1.25	1.35	108		80	120
Barium	2.50	2.79	112		80	120
Cadmium	0.250	0.280	112		80	120
Chromium	0.500	0.553	111		80	120
Lead	1.25	1.41	113		80	120
Selenium	1.25	1.35	108		80	120
Mercury	0.0050	0.0054	108		85	115

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by CS

0101-689.mqc LCS

000072

FORM 6
SAMPLE MATRIX SPIKE
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID MS ICP/GFAA Metals	0101-689-05	QC Batch V24-AQ-37
Laboratory ID MS Mercury	0101-689-05	V7-AQ-93
Date Sample Prepared	01/31/01	ICP/GFAA Metals
	01/31/01	Mercury

Metals	SPIKE Added mg/L	SAMPLE Conc mg/L	MS Conc mg/L		MS % Rec	QC Limits	
						#	
Silver	0.250	ND	0.289		116	50	150
Arsenic	1.25	ND	1.45		116	50	150
Barium	2.50	1.23	3.92		108	50	150
Cadmium	0.250	ND	0.276		110	50	150
Chromium	0.500	ND	0.543		109	50	150
Lead	1.25	ND	1.41		113	50	150
Selenium	1.25	ND	1.55		124	50	150
Mercury	0.0050	ND	0.0053		106	50	150

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by CS

0101-689.mqc Sample MS
000073

FORM 6
TCLP/SPLP MATRIX SPIKE / MATRIX SPIKE DUPLICATE
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID MS ICP/GFAA Metals	0101-689-15	QC Batch V24-AQ-37
Laboratory ID MS Mercury	0101-689-15	V7-AQ-93
Date Sample Prepared	01/31/01	ICP/GFAA Metals
	<u>01/31/01</u>	Mercury

Metals	SPIKE Added mg/L	SAMPLE Conc mg/L	MS Conc mg/L	RPD <20% #	MS % Rec #	QC Limits	
Silver	0.250	ND	0.299	3	120	50	150
Arsenic	1.25	ND	1.51	1	121	50	150
Barium	2.50	1.62	4.33	1	108	50	150
Cadmium	0.250	ND	0.275	0	110	50	150
Chromium	0.500	ND	0.547	1	109	50	150
Lead	1.25	ND	1.44	1	115	50	150
Selenium	1.25	ND	1.57	2	126	50	150
Mercury	0.0050	ND	0.0054	2	108	50	150

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by CL

0101-689.MQC MSMSD

000074

656 171

FORM 6
TCLP/SPLP MATRIX SPIKE / MATRIX SPIKE DUPLICATE
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID MS ICP/GFAA Metals	0101-689-15	QC Batch V24-AQ-37
Laboratory ID MS Mercury	0101-689-15	V7-AQ-93
Date Sample Prepared	01/31/01	ICP/GFAA Metals
	01/31/01	Mercury

Metals	SPIKE Added mg/L	SAMPLE Conc mg/L	MSD Conc mg/L		MSD % Rec	#	QC Limits	
Silver	0.250	ND	0.291		116		50	150
Arsenic	1.25	ND	1.49		119		50	150
Barium	2.50	1.62	4.29		107		50	150
Cadmium	0.250	ND	0.274		110		50	150
Chromium	0.500	ND	0.541		108		50	150
Lead	1.25	ND	1.42		114		50	150
Selenium	1.25	ND	1.54		123		50	150
Mercury	0.0050	ND	0.0055		110		50	150

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by CS

0101-689.mqc MSMSD

000075

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
GC/MS Volatiles**

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
GC/MS VOLATILE COMPOUNDS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0101-689

HOLDING TIMES

TCLP Extraction All samples extracted within 14 days.
Sample Analysis All VOC extracts analyzed within 14 days.

METHOD

Preparation: SW-846 1311
Analysis: SW-846 8260B

QUALITY CONTROL

<u>QC Batch</u>	<u>Form 4 Summary</u>
V402011	V4020111LB
V402021	V4020211LB
V102021	V1020211LB

System Monitoring Compounds FORM 2

Surrogate recoveries within QC limits, except as listed below.

Surrogate Bromofluorobenzene was flagged for slightly low recovery (1%) in V4020111LCS.

Surrogate Dibromofluoromethane was flagged for slightly high recovery in V1020211LB. This slightly high recovery does not affect the data.

Surrogate 1,2-Dichloroethane-d4 was flagged for slightly high recovery in samples 0101-689-17 (DF/24-A/1026/R/017), 0101-689-18 (DF/24-A/1026/R/018), and 0101-689-19 (DF/24-A/1026/R/019). Analytes were not detected in this sample. These slightly high recoveries do not affect the data.

Method Blank FORM 4

V4020111LB
V4020211LB
V1020211LB

Target Analytes were not detected in the Method Blanks.

Laboratory Control Sample FORM 3

V4020111LCS
V4020211LCS
V1020211LCS

All acceptance criteria met.

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
GC/MS VOLATILE COMPOUNDS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0101-689

QUALITY CONTROL

Matrix Spike / Matrix Spike Dup FORM 3

Batch V402011

0102-013-01

Sample spiked for this QC Batch was not from this project. There is no effect on the data.

Refer to Laboratory Control Sample(s) for system verification.

Matrix Spike / Matrix Spike Dup FORM 3

Batch V402021

0101-598-02

Sample spiked for this QC Batch was not from this project. There is no effect on the data.

Refer to Laboratory Control Sample(s) for system verification.

Matrix Spike / Matrix Spike Dup FORM 3

Batch V102021

0101-595-01

Sample spiked for this QC Batch was not from this project. There is no effect on the data.

Refer to Laboratory Control Sample(s) for system verification.

CALIBRATION

BFB Daily 12-Hour Tune	All criteria met. FORM 5
Initial Calibration	All criteria met. FORM 6
Calibration Verification	All criteria met. FORM 7, Responses >30% do not affect the data.

Volatile Internal Standard Area and RT FORM 8

Daily Check Standard(s) Internal Standard Areas and Retention Times within QC limits.

SAMPLE ANALYSIS

Instrumentation	HP 5890 Series II GC, 5971MSD
Dilutions Required	Dilutions were performed on all samples to decrease matrix interferences as shown on the Sample Report Forms.



Project Manager

FORM 2
WATER VOA-GCMS SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

	CLIENT SAMPLE NO.	SMC1 (DCE) #	SMC2 (DFM) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	V4020111LCS	92	98	98	80*	1
02	V4020111LB	98	106	98	93	0
03	0101-689-1T	101	107	98	96	0
04	0101-689-2T	102	104	99	97	0
05	0101-689-3T	108	111	100	96	0
06	0101-689-4T	95	107	102	98	0
07	0101-689-5T	93	104	99	96	0
08	0101-689-6T	102	104	96	98	0
09	0101-689-7T	106	111	97	96	0
10	0101-689-8T	106	112	98	97	0
11	0101-689-9T	102	110	99	96	0
12	0101-689-10T	103	108	96	96	0
13	0101-689-11T	98	109	97	96	0
14	0101-689-12T	105	107	98	94	0
15	V4020211LCS	99	100	93	85	0
16	V4020211LB	89	104	94	95	0
17	V1020211LCS	109	120	110	94	0
18	0101-689-13T	97	112	94	97	0
19	0101-689-14T	94	106	99	95	0
20	0101-689-15T	97	110	104	96	0
21	V1020211LB	116	125*	103	109	1
22	0101-689-16T	94	107	99	95	0
23	0101-689-17T	123*	122	104	106	1
24	0101-689-18T	121*	122	109	112	1
25	0101-689-19T	123*	117	111	112	1
26						
27						
28						
29						
30						

QC LIMITS

SMC1 (DCE) = 1,2-Dichloroethane-d4 (80-120)
 SMC2 (DFM) = Dibromofluoromethane (74-123)
 SMC3 (TOL) = Toluene-d8 (86-112)
 OTHER (BFB) = Bromofluorobenzene (81-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 4
VOA-GCMS METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V4020111LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID: 0302005T

Lab Prep Batch: V402011

Date Analyzed: 02/01/01

Time Analyzed: 1400

GC Column:

ID: 2 (mm)

Heated Purge: (Y/N) Y

Instrument ID: VOC4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V4020111LCS	V402011	0201004TLCS	1253
02	0102-013-1	V402011	0401006	1431
03	0101-689-1T	V402011	0901011	1709
04	0101-689-2T	V402011	1001012	1740
05	0101-689-3T	V402011	1101013	1811
06	0101-689-4T	V402011	1201014	1843
07	0101-689-5T	V402011	1301015	1914
08	0101-689-6T	V402011	1401016	1945
09	0101-689-7T	V402011	1501017	2017
10	0101-689-8T	V402011	1601018	2048
11	0101-689-9T	V402011	1701019	2119
12	0101-689-10T	V402011	1801020	2150
13	0101-689-11T	V402011	1901021	2221
14	0101-689-12T	V402011	2001022	2253
15	0102-013-1MS	V402011	2101023T	2324
16	0102-013-1MS	V402011	2201024T	2355
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
VOA-GCMS ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V4020111LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix: (soil/water) WATER

Lab Prep Batch: V402011

Sample wt/vol: 10.00 (g/mL) ML

Lab File ID: 0302005T

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 02/01/01

GC Column: ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

71-43-2-----	Benzene	1.00	U
78-93-3-----	2-Butanone	20.00	U
56-23-5-----	Carbon Tetrachloride	1.00	U
108-90-7-----	Chlorobenzene	1.00	U
67-66-3-----	Chloroform	1.00	U
106-46-7-----	1,4-Dichlorobenzene	1.00	U
107-06-2-----	1,2-Dichloroethane	1.00	U
75-35-4-----	1,1-Dichloroethene	1.00	U
127-18-4-----	Tetrachloroethene	1.00	U
79-01-6-----	Trichloroethene	1.00	U
75-01-4-----	Vinyl Chloride	1.00	U

FORM 3
WATER VOA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: V402011

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix Spike - Sample No.: V4020111LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
Benzene	100.0		107.1	107	72-124
2-Butanone	100.0		102.3	102	55-151
Carbon Tetrachloride	100.0		94.86	95	64-123
Chlorobenzene	100.0		91.06	91	77-112
Chloroform	100.0		98.29	98	70-115
1,4-Dichlorobenzene	100.0		105.6	106	78-116
1,2-Dichloroethane	100.0		93.39	93	62-124
1,1-Dichloroethene	100.0		115.4	115	69-121
Tetrachloroethene	100.0		84.42	84	77-115
Trichloroethene	100.0		90.21	90	75-113
Vinyl Chloride	100.0		114.6	115	65-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM 3
WATER VOA-GCMS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: V402011

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix Spike - Sample No.: 0102-013-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Benzene	100.0	0.000	118.7	119	72-124
2-Butanone	100.0	0.000	103.5	104	55-151
Carbon Tetrachloride	100.0	0.000	105.5	106	64-123
Chlorobenzene	100.0	0.000	95.91	96	77-112
Chloroform	100.0	0.000	106.8	107	70-115
1,4-Dichlorobenzene	100.0	0.000	108.4	108	78-116
1,2-Dichloroethane	100.0	0.000	113.3	113	62-124
1,1-Dichloroethene	100.0	0.000	108.6	109	69-121
Tetrachloroethene	100.0	0.000	83.23	83	77-115
Trichloroethene	100.0	0.000	90.70	91	75-113
Vinyl Chloride	100.0	0.000	107.2	107	65-134

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Benzene	100.0	118.4	118	1	20	72-124
2-Butanone	100.0	101.1	101	3	20	55-151
Carbon Tetrachloride	100.0	100.5	100	6	20	64-123
Chlorobenzene	100.0	96.53	96	0	20	77-112
Chloroform	100.0	101.4	101	6	20	70-115
1,4-Dichlorobenzene	100.0	110.9	111	3	20	78-116
1,2-Dichloroethane	100.0	105.0	105	7	20	62-124
1,1-Dichloroethene	100.0	119.2	119	9	20	69-121
Tetrachloroethene	100.0	80.06	80	4	20	77-115
Trichloroethene	100.0	86.65	87	4	20	75-113
Vinyl Chloride	100.0	110.5	110	3	20	65-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

COMMENTS:

FORM 4
VOA-GCMS METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V4020211LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID: 0302003T

Lab Prep Batch: V402021

Date Analyzed: 02/02/01

Time Analyzed: 1315

GC Column:

ID: 2 (mm)

Heated Purge: (Y/N) Y

Instrument ID: VOC4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V4020211LCS	V402021	0201002TLCS	1204
02	0101-689-13T	V402021	0401004	1346
03	0101-689-14T	V402021	0501005	1415
04	0101-689-15T	V402021	0601006	1443
05	0101-689-16T	V402021	0701007	1511
06	0101-598-2	V402021	1101011	1706
07	0101-598-2MS	V402021	2201022T	2249
08	0101-598-2MS	V402021	2301023T	2320
09				
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COMMENTS:

FORM 1
VOA-GCMS ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V4020211LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix: (soil/water) WATER

Lab Prep Batch: V402021

Sample wt/vol: 10.00 (g/mL) ML

Lab File ID: 0302003T

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 02/02/01

GC Column: ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1.00	U
78-93-3	2-Butanone	20.00	U
56-23-5	Carbon Tetrachloride	1.00	U
108-90-7	Chlorobenzene	1.00	U
67-66-3	Chloroform	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	U
107-06-2	1,2-Dichloroethane	1.00	U
75-35-4	1,1-Dichloroethene	1.00	U
127-18-4	Tetrachloroethene	1.00	U
79-01-6	Trichloroethene	1.00	U
75-01-4	Vinyl Chloride	1.00	U

FORM 3
WATER VOA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: V402021

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix Spike - Sample No.: V4020211LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Benzene	100.0		111.7	112	72-124
2-Butanone	100.0		119.4	119	55-151
Carbon Tetrachloride	100.0		93.04	93	64-123
Chlorobenzene	100.0		97.02	97	77-112
Chloroform	100.0		100.7	101	70-115
1,4-Dichlorobenzene	100.0		109.7	110	78-116
1,2-Dichloroethane	100.0		96.46	96	62-124
1,1-Dichloroethene	100.0		105.1	105	69-121
Tetrachloroethene	100.0		80.30	80	77-115
Trichloroethene	100.0		88.22	88	75-113
Vinyl Chloride	100.0		92.70	93	65-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM 3
WATER VOA-GCMS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: V402021

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix Spike - Sample No.: 0101-598-2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Benzene	100.0	0.000	108.4	108	72-124
2-Butanone	100.0	0.000	94.93	95	55-151
Carbon Tetrachloride	100.0	0.000	89.78	90	64-123
Chlorobenzene	100.0	0.000	82.97	83	77-112
Chloroform	100.0	0.000	95.52	96	70-115
1,4-Dichlorobenzene	100.0	0.000	98.82	99	78-116
1,2-Dichloroethane	100.0	0.000	102.9	103	62-124
1,1-Dichloroethene	100.0	0.000	101.4	101	69-121
Tetrachloroethene	100.0	0.000	75.76	76*	77-115
Trichloroethene	100.0	0.000	80.30	80	75-113
Vinyl Chloride	100.0	0.000	102.5	102	65-134

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Benzene	100.0	121.4	121	11	20	72-124
2-Butanone	100.0	101.4	101	6	20	55-151
Carbon Tetrachloride	100.0	91.63	92	2	20	64-123
Chlorobenzene	100.0	90.18	90	8	20	77-112
Chloroform	100.0	101.1	101	5	20	70-115
1,4-Dichlorobenzene	100.0	104.8	105	6	20	78-116
1,2-Dichloroethane	100.0	104.1	104	1	20	62-124
1,1-Dichloroethene	100.0	118.8	119	16	20	69-121
Tetrachloroethene	100.0	77.80	78	2	20	77-115
Trichloroethene	100.0	83.02	83	4	20	75-113
Vinyl Chloride	100.0	113.9	114	11	20	65-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 1 out of 22 outside limits

COMMENTS:

FORM 4
VOA-GCMS METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1020211LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID: 0302005T

Lab Prep Batch: V102021

Date Analyzed: 02/02/01

Time Analyzed: 1450

GC Column:

ID: 2 (mm)

Heated Purge: (Y/N) Y

Instrument ID: VOC1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1020211LCS	V102021	0201003TLCS	1332
02	0101-689-17T	V102021	0401006	1518
03	0101-689-18T	V102021	0501007	1546
04	0101-689-19T	V102021	0601008	1612
05	0101-595-1	V102021	1001012	1806
06	0101-595-1MS	V102021	1701019T	2123
07	0101-595-1MS	V102021	1801020T	2151
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COMMENTS:

FORM 1
VOA-GCMS ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1020211LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix: (soil/water) WATER

Lab Prep Batch: V102021

Sample wt/vol: 10.00 (g/mL) ML

Lab File ID: 0302005T

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 02/02/01

GC Column: ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

71-43-2-----	Benzene	1.00	U
78-93-3-----	2-Butanone	20.00	U
56-23-5-----	Carbon Tetrachloride	1.00	U
108-90-7-----	Chlorobenzene	1.00	U
67-66-3-----	Chloroform	1.00	U
106-46-7-----	1,4-Dichlorobenzene	1.00	U
107-06-2-----	1,2-Dichloroethane	1.00	U
75-35-4-----	1,1-Dichloroethene	1.00	U
127-18-4-----	Tetrachloroethene	1.00	U
79-01-6-----	Trichloroethene	1.00	U
75-01-4-----	Vinyl Chloride	1.00	U

FORM 3
WATER VOA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: V102021

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix Spike - Sample No.: V1020211LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
Benzene	100.0		77.79	78	72-124
2-Butanone	100.0		97.61	98	55-151
Carbon Tetrachloride	100.0		84.77	85	64-123
Chlorobenzene	100.0		89.50	90	77-112
Chloroform	100.0		82.15	82	70-115
1,4-Dichlorobenzene	100.0		98.84	99	78-116
1,2-Dichloroethane	100.0		85.43	85	62-124
1,1-Dichloroethene	100.0		82.48	82	69-121
Tetrachloroethene	100.0		92.22	92	77-115
Trichloroethene	100.0		95.48	95	75-113
Vinyl Chloride	100.0		89.15	89	65-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III VOA-GCMS

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FORM 3
WATER VOA-GCMS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: V102021

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix Spike - Sample No.: 0101-595-1

COMPOUND	SPIKE ADDED ()	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION ()	MS % REC #	QC. LIMITS REC.
Benzene	100.0	0.000	108.4	108	72-124
2-Butanone	100.0	0.000	101.3	101	55-151
Carbon Tetrachloride	100.0	0.000	105.2	105	64-123
Chlorobenzene	100.0	0.000	115.1	115*	77-112
Chloroform	100.0	0.000	109.0	109	70-115
1,4-Dichlorobenzene	100.0	0.000	120.8	121*	78-116
1,2-Dichloroethane	100.0	0.000	112.2	112	62-124
1,1-Dichloroethene	100.0	10.17	117.4	107	69-121
Tetrachloroethene	100.0	0.000	106.2	106	77-115
Trichloroethene	100.0	45.92	151.8	106	75-113
Vinyl Chloride	100.0	0.000	128.6	129	65-134

COMPOUND	SPIKE ADDED ()	MSD CONCENTRATION ()	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Benzene	100.0	100.2	100	8	20	72-124
2-Butanone	100.0	97.76	98	3	20	55-151
Carbon Tetrachloride	100.0	101.6	102	3	20	64-123
Chlorobenzene	100.0	116.1	116*	1	20	77-112
Chloroform	100.0	100.8	101	8	20	70-115
1,4-Dichlorobenzene	100.0	120.0	120*	1	20	78-116
1,2-Dichloroethane	100.0	102.3	102	9	20	62-124
1,1-Dichloroethene	100.0	109.6	99	8	20	69-121
Tetrachloroethene	100.0	114.6	115	8	20	77-115
Trichloroethene	100.0	154.4	108	2	20	75-113
Vinyl Chloride	100.0	113.4	113	13	20	65-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 4 out of 22 outside limits

COMMENTS:

Environmental Testing & Consulting, Inc.

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**Quality Control Reports
Level III
GC/MS Semi-Volatiles**

0

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
GC/MS SEMI-VOLATILE COMPOUNDS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0101-689

HOLDING TIMES

TCLP Extraction	All samples extracted within 14 days.
Sample Extraction	All TCLP leachate/filtrates extracted within 7 days.
Sample Analysis	All Non-VOC extracts analyzed within 40 days.

METHOD

Preparation: SW-846 1311/3510C
Analysis: SW-846 8270C

QUALITY CONTROL

QC Batch Form 4 Summary
P06053 P06053LB

System Monitoring Compounds FORM 2
Surrogate recoveries within QC limits.

Method Blank FORM 4
P06053LB

Target Analytes were not detected in the Method Blank.

Laboratory Control Sample FORM 3
P06053LCS

All acceptance criteria met.

Matrix Spike / Matrix Spike Dup FORM 3

Batch P06053

0101-689-05	RPD	All analytes within QC limits, except as listed below.
DF/24-A/1026/R/05	Spike Recovery	All analytes within QC limits.

RPDs for Pentachlorophenol, 2,4,5-Trichlorophenol, and 2,4,6-Trichlorophenol were flagged for high recovery due to variances in the MS/MSD recoveries.

Refer to Laboratory Control Sample(s) for system verification.

Matrix Spike / Matrix Spike Dup FORM 3

Batch P06053

0101-689-15	RPD	All analytes within QC limits.
DF/24-A/1026/R/015	Spike Recovery	All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
GC/MS SEMI-VOLATILE COMPOUNDS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0101-689

CALIBRATION

DFTPP Daily 12-Hour Tune All criteria met. FORM 5
Initial Calibration All criteria met. FORM 6
Calibration Verification All criteria met. FORM 7 Responses >30% do not affect the data.

Semi-Volatile Internal Standard Area and RT FORM 8
Daily Check Standard(s) Internal Standard Areas and Retention Times within QC limits.

SAMPLE ANALYSIS

Instrumentation HP 5890 Series II GC, 5971MSD
Dilutions Required No dilutions required.

C)

Project Manager

FORM 2
WATER BNA-GCMS SURROGATE RECOVERY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (TBP) #	S6 (2FP) #	S7 #	S8 #	TOT OUT
01	P06053LB	76	76	93	22	66	36			0
02	P06053LCS	68	73	84	22	68	34			0
03	Q101-689-1	42	44	52	12	35	20			0
04	0101-689-2	76	78	100	22	66	33			0
05	0101-689-3	79	81	99	22	68	36			0
06	0101-689-4	75	78	98	22	64	34			0
07	0101-689-5	77	80	101	24	69	35			0
08	0101-689-6	68	70	93	22	60	34			0
09	0101-689-7	74	76	96	22	67	35			0
10	0101-689-8	69	73	84	22	65	33			0
11	0101-689-9	80	82	107	23	71	36			0
12	0101-689-10	73	75	106	22	63	34			0
13	0101-689-11	75	77	95	22	66	34			0
14	0101-689-12	73	76	103	22	68	35			0
15	0101-689-13	76	76	99	23	69	35			0
16	0101-689-14	75	77	104	23	68	35			0
17	0101-689-15	73	75	106	22	66	34			0
18	0101-689-16	82	82	106	24	70	38			0
19	0101-689-17	77	81	118	24	69	37			0
20	0101-689-18	81	85	113	24	74	38			0
21	0101-689-19	68	71	97	21	64	33			0
22	0101-689-5MS	64	66	97	18	46	21			0
23	0101-689-5MS	67	71	114	22	66	34			0
24	0101-689-15M	78	80	121	24	74	37			0
25	0101-689-15M	76	82	106	23	74	36			0
26										
27										
28										
29										
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QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (29-110)
 S2 (FBP) = 2-Fluorobiphenyl (38-107)
 S3 (TPH) = Terphenyl-d14 (33-122)
 S4 (PHL) = Phenol-d6 (7- 58)
 S5 (TBP) = 2,4,6-Tribromophenol (16-138)
 S6 (2FP) = 2-Fluorophenol (8- 88)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

FORM 4
BNA-GCMS METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

Lab Name: ETC, INC.

Contract:

P06053LB

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID: 0301003

Lab Prep Batch: P06053

Instrument ID: BNA2

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/01/01

Level: (low/med) LOW

Time Analyzed: 1437

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	P06053LCS	1510	0401004	02/01/01
02	0101-689-1	1543	0501005	02/01/01
03	0101-689-2	1616	0601006	02/01/01
04	0101-689-3	1649	0701007	02/01/01
05	0101-689-4	1723	0801008	02/01/01
06	0101-689-5	1757	0901009	02/01/01
07	0101-689-6	1831	1001010	02/01/01
08	0101-689-7	1904	1101011	02/01/01
09	0101-689-8	1938	1201012	02/01/01
10	0101-689-9	2012	1301013	02/01/01
11	0101-689-10	2046	1401014	02/01/01
12	0101-689-11	2120	1501015	02/01/01
13	0101-689-12	2154	1601016	02/01/01
14	0101-689-13	2227	1701017	02/01/01
15	0101-689-14	2301	1801018	02/01/01
16	0101-689-15	2335	1901019	02/01/01
17	0101-689-16	0009	2001020	02/02/01
18	0101-689-17	0043	2101021	02/02/01
19	0101-689-18	0117	2201022	02/02/01
20	0101-689-19	0844	2301003	02/02/01
21	0101-689-5MS	0917	2401004	02/02/01
22	0101-689-5MS	0950	2501005	02/02/01
23	0101-689-15M	1024	2601006	02/02/01
24	0101-689-15M	1058	2701007	02/02/01
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COMMENTS:

FORM 1
BNA-GCMS ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P06053LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix: (soil/water) WATER

Lab Prep Batch: P06053

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 0301003

Level: (low/med) LOW

Date Received: _____

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

Date Extracted: _____

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 02/01/01

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

106-46-7-----	1,4-Dichlorobenzene	5.00	U
121-14-2-----	2,4-Dinitrotoluene	5.00	U
118-74-1-----	Hexachlorobenzene	5.00	U
87-68-3-----	Hexachlorobutadiene	5.00	U
67-72-1-----	Hexachloroethane	5.00	U
95-48-7-----	2-Methylphenol	5.00	U
108-39-4-----	3&4-Methylphenol	5.00	U
98-95-3-----	Nitrobenzene	5.00	U
87-86-5-----	Pentachlorophenol	10.00	U
110-86-1-----	Pyridine	5.00	U
95-95-4-----	2,4,5-Trichlorophenol	5.00	U
88-06-2-----	2,4,6-Trichlorophenol	5.00	U

FORM 3
WATER BNA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P06053

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix Spike - Sample No.: P06053LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	100.0		71.68	72	31- 97
2,4-Dinitrotoluene	100.0		98.80	99	34-130
Hexachlorobenzene	100.0		84.88	85	65-133
Hexachlorobutadiene	100.0		68.83	69	50-112
Hexachloroethane	100.0		65.62	66	37-100
2-Methylphenol	160.0		77.02	48	40-117
3&4-Methylphenol	160.0		141.1	88	46- 99
Nitrobenzene	100.0		75.10	75	57-120
Pentachlorophenol	160.0		96.02	60	22-171
Pyridine	100.0		32.13	32	10- 82
2,4,5-Trichlorophenol	160.0		102.4	64	31-147
2,4,6-Trichlorophenol	160.0		100.4	63	30-163

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

FORM III BNA-GCMS

000098

FORM 3
WATER BNA-GCMS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: P06053

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix Spike - Sample No.: 0101-689-5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	400.0	0.000	267.5	67	31- 97
2,4-Dinitrotoluene	400.0	0.000	391.6	98	34-130
Hexachlorobenzene	400.0	0.000	303.1	76	65-133
Hexachlorobutadiene	400.0	0.000	252.2	63	50-112
Hexachloroethane	400.0	0.000	240.4	60	37-100
2-Methylphenol	640.0	0.000	285.3	44	40-117
3&4-Methylphenol	640.0	0.000	525.8	82	46- 99
Nitrobenzene	400.0	0.000	271.6	68	57-120
Pentachlorophenol	640.0	0.000	213.6	33	22-171
Pyridine	400.0	0.000	205.2	51	10- 82
2,4,5-Trichlorophenol	640.0	0.000	297.0	46	31-147
2,4,6-Trichlorophenol	640.0	0.000	236.7	37	30-163

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,4-Dichlorobenzene	400.0	293.4	73	8	20	31- 97
2,4-Dinitrotoluene	400.0	422.5	106	8	20	34-130
Hexachlorobenzene	400.0	322.6	81	6	20	65-133
Hexachlorobutadiene	400.0	268.2	67	6	20	50-112
Hexachloroethane	400.0	256.2	64	6	20	37-100
2-Methylphenol	640.0	321.7	50	13	20	40-117
3&4-Methylphenol	640.0	593.2	93	12	20	46- 99
Nitrobenzene	400.0	295.0	74	8	20	57-120
Pentachlorophenol	640.0	396.1	62	61*	20	22-171
Pyridine	400.0	223.1	56	9	20	10- 82
2,4,5-Trichlorophenol	640.0	444.5	69	40*	20	31-147
2,4,6-Trichlorophenol	640.0	388.1	61	49*	20	30-163

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

COMMENTS:

FORM 3
WATER BNA-GCMS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: P06053

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Matrix Spike - Sample No.: 0101-689-15

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	400.0	0.000	325.6	81	31- 97
2,4-Dinitrotoluene	400.0	0.000	459.3	115	34-130
Hexachlorobenzene	400.0	0.000	353.8	88	65-133
Hexachlorobutadiene	400.0	0.000	309.9	77	50-112
Hexachloroethane	400.0	0.000	296.2	74	37-100
2-Methylphenol	640.0	0.000	342.0	53	40-117
3&4-Methylphenol	640.0	0.000	628.9	98	46- 99
Nitrobenzene	400.0	0.000	330.6	83	57-120
Pentachlorophenol	640.0	0.000	436.4	68	22-171
Pyridine	400.0	0.000	207.0	52	10- 82
2,4,5-Trichlorophenol	640.0	0.000	483.3	76	31-147
2,4,6-Trichlorophenol	640.0	0.000	430.5	67	30-163

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,4-Dichlorobenzene	400.0	316.6	79	2	20 31- 97
2,4-Dinitrotoluene	400.0	446.7	112	3	20 34-130
Hexachlorobenzene	400.0	354.3	88	0	20 65-133
Hexachlorobutadiene	400.0	304.2	76	1	20 50-112
Hexachloroethane	400.0	292.6	73	1	20 37-100
2-Methylphenol	640.0	329.1	51	4	20 40-117
3&4-Methylphenol	640.0	618.1	96	2	20 46- 99
Nitrobenzene	400.0	322.4	81	2	20 57-120
Pentachlorophenol	640.0	414.4	65	4	20 22-171
Pyridine	400.0	210.9	53	2	20 10- 82
2,4,5-Trichlorophenol	640.0	477.6	75	1	20 31-147
2,4,6-Trichlorophenol	640.0	425.2	66	2	20 30-163

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

COMMENTS:

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
Metals (ICP/GFAA/CV)**

ENVIRONMENTAL TESTING & CONSULTING, INC
ICP Metals Sequence Check List

Sequence ID : 13101 System ID : ICP1 Date/Time: 1-31-01 1039

Analyst : [Signature]
Supervisor: JF

1. Instrument Profile Intensity Check (Manganese)
2. Initial Calibration
 - a. Initial Calibration Blank (STD1-Blank)
 - b. Initial Calibration Standard 1 (C1) 3 Exposures at less than 3% RSD
 - c. Initial Calibration Standard 2 (C2) 3 Exposures at less than 3% RSD
 - d. Initial Calibration Standard 3 (C3) 3 Exposures at less than 3% RSD
 - e. Initial Calibration Standard 4 (C4) 3 Exposures at less than 3% RSD
 - f. Standardization Report

8030

3. Initial Calibration Readback (+/- 5% Difference Check Table)

Failures

a. Initial Calibration Standard 1 (C1)	_____	✓	_____
b. Initial Calibration Standard 2 (C2)	_____	✓	_____
c. Initial Calibration Standard 3 (C3)	_____	✓	_____
d. Initial Calibration Standard 4 (C4)	_____	✓	_____

4. Initial Calibration Verification

e.	Initial Calibration Blank (ICB) – All elements below MDL/MQL	✓	
f.	Initial Calibration Verification (ICV1) – (5%) <u>OK AT 107.</u>	✓	52
g.	Low Level Check (LLC1) – (20%)	✓	52
h.	Low Level Check (LLC2) – (20%)	—	
i.	Interelement Correction Standard – Initial (ICSAB) – (20%)	✓	
j.	Interelement Correction Standard – Final (ICSAB) – (20%)	✓	5

Comments

Applicable ETC Order Nos. for this sequence:

U24-AQ-34	Q101-598			
Q101-659	689			
606	664			
608				
143				
619				
V13-50-29				
U24-AQ-98				
37				
Q101-539				
515				
555				

AutoSampler Report Table: PLASMA1

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page 1

Table Name: PLASMA1 Autosampler Type: TYPE TJA
 Sample Positions: 42/192 QC Positions: 19/19 # Sets: 1
 Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	19	10
2	Sample (16mm)	Samples	0	1
3	Sample (16mm)	Samples	0	1
4	Sample (16mm)	Samples	0	1
5	Sample (16mm)	Samples	42	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		ICPT	150	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor

No Samples Prepared.

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
(1...19	Not	Used)				

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	V24-AQ-34 S.B.	1	-NA-	Sample
2	1	2	V24-AQ-34 LC.	1	-NA-	Sample
3	1	3	0101-659-01	1	-NA-	Sample
4	1	4	0101-659-02	1	-NA-	Sample
5	1	5	0101-606-01	1	-NA-	Sample
6	1	6	0101-606-02	1	-NA-	Sample
7	1	7	0101-608-01	1	-NA-	Sample
8	1	8	0101-643-01	1	-NA-	Sample
9	1	9	0101-619-02	1	-NA-	Sample
10	1	10	0101-619-02 MS	1	-NA-	Sample
11	1	11	CCB1	1	-NA-	Sample
12	1	12	CCV1	1	-NA-	Sample
13	2	1	V13-SO-29 S.B.	1	-NA-	Sample
14	2	2	V24-AQ-38 S.B.	1	-NA-	Sample
15	2	3	V24-AQ-37 S.B.	1	-NA-	Sample
16	2	4	1-29-01 BLANK F1	1	-NA-	Sample
17	2	5	1-30-01 BLANK F1	1	-NA-	Sample
18	2	6	V13-SO-29 LC.	1	-NA-	Sample
19	2	7	V24-AQ-38 LC.	1	-NA-	Sample
20	2	8	V24-AQ-37 LC.	1	-NA-	Sample
21	2	9	0101-539-01	1	-NA-	Sample

AutoSampler Report Table: PLASMA1

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page 2

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
22	2	10	0101-515-07	1	-NA-	Sample
23	2	11	CCB2	1	-NA-	Sample
24	2	12	CCV2	1	-NA-	Sample
25	3	1	0101-515-08	1	-NA-	Sample
26	3	2	0101-555-01	1	-NA-	Sample
27	3	3	0101-555-02	1	-NA-	Sample
28	3	4	0101-555-04	1	-NA-	Sample
29	3	5	0101-555-05	1	-NA-	Sample
30	3	6	0101-555-06	1	-NA-	Sample
31	3	7	0101-555-07	1	-NA-	Sample
32	3	8	0101-598-01	1	-NA-	Sample
33	3	9	0101-598-02	1	-NA-	Sample
34	3	10	0101-598-02 5	1	-NA-	Sample
35	3	11	CCB3	1	-NA-	Sample
36	3	12	CCV3	1	-NA-	Sample
37	4	1	0101-598-02 PDS	1	-NA-	Sample
38	4	2	0101-598-02 MS	1	-NA-	Sample
39	4	3	0101-598-02 MSD	1	-NA-	Sample
40	4	4	0101-598-04	1	-NA-	Sample
41	4	5	0101-598-05	1	-NA-	Sample
42	4	6	0101-598-06	1	-NA-	Sample
43	4	7	0101-598-07	1	-NA-	Sample
44	4	8	0101-689-01	1	-NA-	Sample
45	4	9	0101-689-02	1	-NA-	Sample
46	4	10	0101-689-03	1	-NA-	Sample
47	4	11	CCB4	1	-NA-	Sample
48	4	12	CCV4	1	-NA-	Sample

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	0101-689-04	1	-NA-	Sample
2	1	2	0101-689-05	1	-NA-	Sample
3	1	3	0101-689-05 MS	1	-NA-	Sample
4	1	4	0101-689-06	1	-NA-	Sample
5	1	5	0101-689-07	1	-NA-	Sample
6	1	6	0101-689-08	1	-NA-	Sample
7	1	7	0101-689-09	1	-NA-	Sample
8	1	8	0101-689-10	1	-NA-	Sample
9	1	9	0101-689-11	1	-NA-	Sample
10	1	10	0101-689-12	1	-NA-	Sample
11	1	11	CCB5	1	-NA-	Sample
12	1	12	CCV5	1	-NA-	Sample
13	2	1	0101-689-13	1	-NA-	Sample
14	2	2	0101-689-14	1	-NA-	Sample
15	2	3	0101-689-15	1	-NA-	Sample
16	2	4	0101-689-15 MS	1	-NA-	Sample
17	2	5	0101-689-15 MSD	1	-NA-	Sample
18	2	6	0101-689-16	1	-NA-	Sample
19	2	7	0101-689-17	1	-NA-	Sample
20	2	8	0101-689-18	1	-NA-	Sample
21	2	9	0101-689-19	1	-NA-	Sample

rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
22	2	10	0101-664-04	1	-NA-	Sample
23	2	11	CCB6	1	-NA-	Sample
24	2	12	CCV6	1	-NA-	Sample
25	3	1	0101-664-05	1	-NA-	Sample
26	3	2	0101-664-05 5	1	-NA-	Sample
27	3	3	0101-664-05 PDS	1	-NA-	Sample
28	3	4	0101-664-05 MS	1	-NA-	Sample
29	3	5	0101-664-05 MSD	1	-NA-	Sample
30	3	6	0101-619-02 MSD	1	-NA-	Sample
31	3	7	CCB7	1	-NA-	Sample
32	3	8	CCV7	1	-NA-	Sample
33	3	9	ICSA	1	-NA-	Sample
34	3	10	ICSAB	1	-NA-	Sample
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-

FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
ICP METALS

Lab Name Environmental Testing and Consulting, Inc

Date/Time of Sequence 01/31/01 1039 Instrument ICPT

Initial Calibration Source C1 M5-22-12 C2 M5-22-14 C3 M5-20-05 C4 M5-10-17

Continuing Calibration Source ICP/CCV M5-20-09

Analyte	Initial Calibration Verification			Continuing CCV1			Continuing CCV2			Continuing CCV3		
	True	Found	%Diff(1)	Flag	True	Found	%Diff(1)	Flag	Found	%Diff(1)	Flag	Found
Silver	100	101	1	<5	100	100	0	<5	102	2	<5	102
Arsenic	500	494	1	<5	500	496	1	<5	503	1	<5	506
Barium	1000	1030	3	<5	1000	1040	4	<5	1050	5	<10	1050
Cadmium	100	101	1	<5	100	101	1	<5	104	4	<5	103
Chromium	200	203	2	<5	200	204	2	<5	205	3	<5	207
Lead	500	510	2	<5	500	514	3	<5	524	5	<10	526
Selenium	500	494	1	<5	500	496	1	<5	503	1	<5	501

Analyte	Continuing CCV4			Continuing CCV5			Continuing CCV6		
	True	Found	%Diff(1)	Flag	Found	%Diff(1)	Flag	Found	%Diff(1)
Silver	100	103	3	<5	103	3	<5	104	4
Arsenic	500	506	1	<5	506	1	<5	512	2
Barium	1000	1050	5	<10	1060	6	<10	1060	6
Cadmium	100	103	3	<5	104	4	<5	105	5
Chromium	200	207	4	<5	208	4	<5	211	6
Lead	500	527	5	<10	529	6	<10	534	7
Selenium	500	501	0	<5	504	1	<5	509	2

(1) Percent difference from true value. ICP Method 6010B - 10% ICP Method 200.7 - 5%

FORM 3
INITIAL AND CONTINUING CALIBRATION BLANKS
ICP METALS

Lab Name Environmental Testing and Consulting, Inc Date/Time of Sequence 01/31/01 1039 Instrument ICPT

Analyte	Initial Calibration Blank ug/L	Continuing Calibration Blank ug/L					
		CCB1	CCB2	CCB3	CCB4	CCB5	CCB6
Silver	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND
Barium	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND

000107

FORM 4
INTERFERENCE CHECK SAMPLE
ICP METALS

Lab Name Environmental Testing and Consulting, Inc

Date/Time of Sequence 01/31/01 1039 Instrument ICPT

Concentration Units: ug/L

Analyte	True	Initial Found		Final Found	
	Sol AB	Sol AB	%REC	Sol AB	%REC
Silver	200	214	107	224	112
Aluminum	250000	249000	100	256000	102
Arsenic	200	212	106	222	111
Barium	500	532	106	549	110
Calcium	250000	237000	95	244000	98
Cadmium	200	200	100	210	105
Chromium	200	195	98	202	101
Iron	100000	97900	98	101000	101
Magnesium	250000	256000	102	263000	105
Lead	200	207	104	216	108
Selenium	200	210	105	217	109

Concentration Units: ug/L

Analyte	True	Initial Found		Final Found	
	Sol A	Sol A	%REC	Sol A	%REC
Silver	0	ND	0	ND	0
Aluminum	250000	245000	98	250000	100
Arsenic	0	ND	0	ND	0
Barium	0	ND	0	ND	0
Calcium	250000	239000	96	246000	98
Cadmium	0	ND	0	ND	0
Chromium	0	ND	0	ND	0
Iron	100000	94800	95	97300	97
Magnesium	250000	248000	99	254000	102
Lead	0	ND	0	ND	0
Selenium	0	ND	0	ND	0

ENVIRONMENTAL TESTING & CONSULTING, INC **Mercury Sequence Check List**

Sequence ID : 01012800.DBDate/Time: 1/31/01 1531Analyst : JF
Supervisor: _____

Instrument ID: CETAC M-6000A

1. General Maintenance Check

Action Taken

- a. Lamp Warm-up ☒
- b. Pump Winding ☒
- c. Check GLS ☒
- d. Nafion Dryer ☒

2. Sequence Check List

Initial Calibration

- a. Initial Calibration Blank (STD1-Blank)
- b. Initial Calibration Standard 1 0.20 ug/L
- c. Initial Calibration Standard 2 1.0 ug/L
- d. Initial Calibration Standard 3 2.0 ug/L
- e. Initial Calibration Standard 4 5.0 ug/L
- f. Initial Calibration Standard 5 10.0 ug/L

☒

☒

☒

☒

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3. Regression coefficient (minimum = 0.995)

☒

4. Initial Calibration Blank (ICB) – All elements below MQL

Water = 0.20 ug/L Soil = 0.02 mg/Kg

☒5. Initial Calibration Verification (ICV) – 2nd Source SRN: M-5-27-14

Concentration 5.0 ug/L +/- 10%

Found: 5.09 %Difference: 2

6. Continuing Calibration Blank (CCB) – All elements below MQL indicate by ✓

Metal	CCB1	CCB2	CCB3	CCB4	CCB5	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	CCB12	CCB13	CCB14	CCB15
Hg	☒	☒	☒												

7. Continuing Calibration Verification (CCV) – Range: EPA 90-110% SW-846 80-120%

All elements within QC limits indicate by ✓ (Concentration same as ICV) SRN: M-5-27-14

Metal	CCV1	CCV2	CCV3	CCV4	CCV5	CCV6	CCV7	CCV8	CCV9	CCV10	CCV11	CCV12	CCV13	CCV14	CCV15
Hg	☒	☒	☒												

Applicable ETC Order Nos. for this sequence:

0101689

Sunday, January 28, 2001

Page: 1

Tube	Rack ID	Sample ID	Weight	Volume	Sample Type
1		ICB	1	1	Unknown
2		ICV	1	1	Unknown
3		BLK V07-AQ-93	1	1	Unknown
4		LCS V07-AQ-93	1	1	Unknown
5		0101-689-01	1	1	Unknown
6		0101-689-02	1	1	Unknown
7		0101-689-03	1	1	Unknown
8		0101-689-04	1	1	Unknown
9		0101-689-05	1	1	Unknown
10		0101-689-05 MS	1	1	Unknown
11		0101-689-06	1	1	Unknown
12		0101-689-07	1	1	Unknown
13		CCB1	1	1	Unknown
14		CCV1	1	1	Unknown
15		0101-689-08	1	1	Unknown
16		0101-689-09	1	1	Unknown
17		0101-689-10	1	1	Unknown
18		0101-689-11	1	1	Unknown
19		0101-689-12	1	1	Unknown
20		0101-689-13	1	1	Unknown
21		0101-689-14	1	1	Unknown
22		0101-689-15	1	1	Unknown
23		0101-689-15 MS	1	1	Unknown
24		0101-689-15 MSD	1	1	Unknown
25		CCB2	1	1	Unknown
26		CCV2	1	1	Unknown
27		0101-689-16	1	1	Unknown
28		0101-689-17	1	1	Unknown
29		0101-689-18	1	1	Unknown
30		0101-689-19	1	1	Unknown
31		0101-689-15 PDS	1	1	Unknown
32		CCB3	1	1	Unknown
33		CCV3	1	1	Unknown

000110

FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
MERCURY

Lab Name Environmental Testing and Consulting, Inc

Date/Time of Sequence 01/31/01 1531 Instrument M6000

Initial Calibration Source C1 M5-27-13

Continuing Calibration Source ICV/CCV M5-27-14

Analyte	Initial Calibration Verification			Continuing CCV1			Continuing CCV2			Continuing CCV3		
	True	Found	%Diff(1)	Flag	True	Found	%Diff(1)	Flag	Found	%Diff(1)	Flag	Flag
Mercury	5.00	5.09	1.8	<5	5.00	5.1	2.0	<5	5.11	2.2	<5	<5

000111

FORM 3
INITIAL AND CONTINUING CALIBRATION BLANKS
ICP METALS

Lab Name Environmental Testing and Consulting, Inc Date/Time of Sequence 01/31/01 1531 Instrument M6000

Analyte	MDL ug/L	Initial Cal Blank (ICB) ug/L	CCB1	CCB2	CCB3	Continuing Calibration Blank ug/L						
Mercury	0.06	ND	ND	ND	ND							

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
GC/MS Volatiles**

ENVIRONMENTAL TESTING & CONSULTING, INC.
GC/MS VOC Method 8260B Sequence Check List (SW-846)

Sequence ID V102021 Matrix: H₂O/Soil
Date 1-5-01 Analyst ES
Applicable ETC Order Nos. for this sequence:
0101-689-17-19 0101-600-1-5
0101-595-1-4 0102-056-1-3

Validated

1. BFB Daily 12-Hour Tune Meets Criteria. No analyses begins until criteria are met. (SOP) ☒
2. Initial Calibration Verification Criteria - Method: V101091.8260m
 - a. SPCC - Mean RF ≥ 0.10 (≥ 0.30 for Chlorobenzene / 1122-Tetrachloroethene) ☒
 - b. CCC - RSD of RF for CCCs and Target Analytes MUST BE $\leq 30\%$ ☒
 - c. RSD of analytes $\leq 15\%$ may use Average RF for quantitation ☒
 - d. Analytes w/RSD $> 15\%$ use Linear Regression - correlation coefficient ≥ 0.99 ☒

3. Calibration Verification - Each 12-Hour Shift

- a. SPCC - Mean RF ≥ 0.10 (≥ 0.30 for Chlorobenzene / 1122-Tetrachloroethene) ☒
- b. CCC - % Difference for Average RF Calibration - $\leq 20\%$ ☒
- c. CCC - % Drift for Linear Regression Calibration - $\leq 20\%$ ☒
- d. % Difference/% Drift for all other Target Analytes - $\leq 30\%$ ☒
Vinyl Acetate
- e. Internal Standards - Retention Times within ± 30 seconds from Mid-Point ICAL STD ☒
- f. Internal Standards - Areas within $(-50\% \text{ to } +100\%)$ from Mid-Point ICAL STD ☒

4. Method Blanks included in this sequence:

Analyze daily or for each analytical batch (20 samples):
List compounds identified in Method Blank w/concentration.
Flag final result "B-Detected in Blank"

Method Blank BDL

5. Matrix Spike/Matrix Spike Duplicates included in this sequence:

Analyze daily or for each matrix (ms/msd per 20 samples of same matrix):
List MS/MSD(s) performed with any failures:

* 4 out of 10 recoveries exceed QC limits
0101-595-1ms, msd
0102-056-1ms, msd 5 out of 10 recoveries

6. Laboratory Control Samples included in this sequence:

Must contain all Target Analytes.

7. Surrogate Recoveries within QC Limits

8. All positive compounds within calibration range

Narrative/Notes:

8260B Revision 3 December 1996
Form 17 de 06/03/97

WASTE, HAZARDOUS WASTE, PACKAGING, HAZARDOUS WASTE

000114

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID: 0101001

BFB Injection Date: 02/02/01

Instrument ID: VOC1

BFB Injection Time: 1231

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.2
75	30.0 - 60.0% of mass 95	55.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	87.1
175	5.0 - 9.0% of mass 174	7.3 (8.4)1
176	95.0 - 101.0% of mass 174	83.0 (95.2)1
177	5.0 - 9.0% of mass 176	6.2 (7.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V1020211LCS		0201003TLCS	02/02/01	1332
02	DCS100		0201003	02/02/01	1332
03	V1020211LB		0302005T	02/02/01	1450
04	0101-689-17T		0401006	02/02/01	1518
05	0101-689-18T		0501007	02/02/01	1546
06	0101-689-19T		0601008	02/02/01	1612
07	0101-595-4		1201014	02/02/01	1902
08	0101-595-1MS		1701019T	02/02/01	2123
09	0101-595-1MS		1801020T	02/02/01	2151
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: VOC1

Calibration Date: 02/02/01

Time: 1332

Lab File ID: 0201003

Init. Calib. Date(s): 01/09/01 01/09/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1311 1754

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
Acetone	92.46	100.0	AVRG	7.5	30.0
Acetonitrile	974.6	1000	AVRG	2.5	30.0
Acrolein	101.9	100.0	AVRG	1.9	30.0
Acrylonitrile	92.00	100.0	AVRG	8.0	30.0
Allyl chloride	80.63	100.0	AVRG	19.4	30.0
Benzene	77.79	100.0	AVRG	22.2	30.0
Bromobenzene	95.92	100.0	AVRG	4.1	30.0
Bromochloromethane	88.29	100.0	AVRG	11.7	30.0
Bromodichloromethane	95.96	100.0	AVRG	4.0	30.0
Bromoform	113.3	100.0	AVRG	13.3	30.0
2-Butanone	97.61	100.0	AVRG	2.4	30.0
Bromomethane	92.71	100.0	AVRG	7.3	30.0
n-Butylbenzene	102.1	100.0	AVRG	2.1	30.0
sec-Butylbenzene	91.48	100.0	AVRG	8.5	30.0
tert-Butylbenzene	89.50	100.0	AVRG	10.5	30.0
Carbon Disulfide	74.61	100.0	AVRG	25.4	30.0
Carbon Tetrachloride	84.77	100.0	AVRG	15.2	30.0
Chlorobenzene	89.50	100.0	AVRG	10.5	30.0
Chlorodibromomethane	102.2	100.0	AVRG	2.2	30.0
Chloroethane	91.02	100.0	AVRG	9.0	30.0
2-Chloroethyl vinyl ether	106.0	100.0	AVRG	6.0	30.0
Chloroform	82.15	100.0	AVRG	17.8	20.0
Chloromethane	98.19	100.0	AVRG	1.8	30.0
Chloroprene	82.40	100.0	AVRG	17.6	30.0
2-Chlorotoluene	94.55	100.0	AVRG	5.4	30.0
4-Chlorotoluene	90.27	100.0	AVRG	9.7	30.0
1,2-Dibromo-3-chloropropane	102.2	100.0	AVRG	2.2	30.0
1,2-Dibromoethane	103.9	100.0	AVRG	3.9	30.0
Dibromomethane	104.0	100.0	AVRG	4.0	30.0
1,2-Dichlorobenzene	97.46	100.0	AVRG	2.5	30.0
1,3-Dichlorobenzene	95.90	100.0	AVRG	4.1	30.0
1,4-Dichlorobenzene	98.84	100.0	AVRG	1.2	30.0
trans-1,4-Dichloro-2-butene	106.9	100.0	AVRG	6.9	30.0
Dichlorodifluoromethane	73.47	100.0	AVRG	26.5	30.0
1,1-Dichloroethane	84.57	100.0	AVRG	15.4	30.0
1,2-Dichloroethane	85.43	100.0	AVRG	14.6	30.0
1,1-Dichloroethene	82.48	100.0	AVRG	17.5	20.0

FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: VOC1

Calibration Date: 02/02/01

Time: 1332

Lab File ID: 0201003

Init. Calib. Date(s): 01/09/01 01/09/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1311

1754

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
cis-1,2-Dichloroethene	84.46	100.0	AVRG	15.5	30.0
trans-1,2-Dichloroethene	83.25	100.0	AVRG	16.8	30.0
1,2-Dichloropropane	97.74	100.0	AVRG	2.3	20.0
1,3-Dichloropropane	101.7	100.0	AVRG	1.7	30.0
2,2-Dichloropropane	95.14	100.0	LINR	4.9	30.0
1,1-Dichloropropene	81.53	100.0	AVRG	18.5	30.0
cis-1,3-Dichloropropene	100.7	100.0	AVRG	0.7	30.0
trans-1,3-Dichloropropene	100.2	100.0	AVRG	0.2	30.0
Di isopropyl ether	84.67	100.0	AVRG	15.3	30.0
1,4-Dioxane	2020	2000	AVRG	1.0	30.0
Ethyl Acetate	92.10	100.0	AVRG	7.9	30.0
Ethylbenzene	89.67	100.0	AVRG	10.3	20.0
Ethyl methacrylate	209.4	200.0	AVRG	4.7	30.0
Furan	136.2	153.0	AVRG	11.0	30.0
Hexachlorobutadiene	108.4	100.0	AVRG	8.4	30.0
Hexane	96.44	117.0	LINR	17.6	30.0
2-Hexanone	107.0	100.0	AVRG	7.0	30.0
Iodomethane	96.43	100.0	LINR	3.6	30.0
Isobutyl Alcohol	1834	2000	AVRG	8.3	30.0
Isopropylbenzene	91.28	100.0	AVRG	8.7	30.0
4-Isopropyltoluene	79.96	100.0	AVRG	20.0	30.0
Methacrylonitrile	870.2	1000	AVRG	13.0	30.0
Methylene Chloride	94.29	100.0	LINR	5.7	30.0
Methyl methacrylate	205.9	200.0	AVRG	3.0	30.0
4-Methyl-2-Pentanone	106.7	100.0	AVRG	6.7	30.0
Methyl-tertbutyl-Ether	83.58	100.0	AVRG	16.4	30.0
Naphthalene	99.36	100.0	AVRG	0.6	30.0
Pentachloroethane	122.2	100.0	AVRG	22.2	30.0
Propionitrile	911.8	1000	AVRG	8.8	30.0
n-Propyl Acetate	157.6	151.0	AVRG	4.4	30.0
n-Propylbenzene	92.85	100.0	AVRG	7.2	30.0
Styrene	92.15	100.0	AVRG	7.8	30.0
1,1,1,2-Tetrachloroethane	96.88	100.0	AVRG	3.1	30.0
1,1,2,2-Tetrachloroethane	104.5	100.0	AVRG	4.5	30.0
Tetrachloroethene	92.22	100.0	AVRG	7.8	30.0
Tetrahydrofuran	84.47	91.50	AVRG	7.7	30.0
1,2,3-Trichlorobenzene	105.4	100.0	AVRG	5.4	30.0

FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

656 214

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: VOC1

Calibration Date: 02/02/01 Time: 1332

Lab File ID: 0201003

Init. Calib. Date(s): 01/09/01 01/09/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1311 1754

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Toluene	95.76	100.0	AVRG	4.2	20.0
1,1,1-Trichloroethane	85.23	100.0	AVRG	14.8	30.0
1,1,2-Trichloroethane	104.3	100.0	AVRG	4.3	30.0
1,1,2-trichloro-1,2,2-triflu	86.17	100.0	AVRG	13.8	30.0
Trichloroethene	95.48	100.0	AVRG	4.5	30.0
Trichlorofluoromethane	84.44	100.0	AVRG	15.6	30.0
1,2,3-Trichloropropane	101.9	100.0	AVRG	1.9	30.0
1,2,4-Trichlorobenzene	106.1	100.0	AVRG	6.1	30.0
1,2,4-Trimethylbenzene	90.63	100.0	AVRG	9.4	30.0
1,3,5-Trimethylbenzene	92.41	100.0	AVRG	7.6	30.0
Vinyl Acetate	69.96	100.0	AVRG	30.0	30.0
Vinyl Chloride	89.15	100.0	AVRG	10.8	20.0
Xylene-mp	174.5	200.0	AVRG	12.8	30.0
Xylene-o	89.25	100.0	AVRG	10.8	30.0
cis-1,4-Dichloro-2-butene	105.4	100.0	AVRG	5.4	30.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4	37.49	34.50	AVRG	8.7	30.0
Dibromofluoromethane	38.98	32.50	AVRG	19.9	30.0
Toluene-d8	44.35	40.20	AVRG	10.3	30.0
Bromofluorobenzene	41.99	44.40	AVRG	5.4	30.0

<- 11

FORM 8
VOA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201003

Date Analyzed: 02/02/01

Instrument ID: VOC1

Time Analyzed: 1332

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	123875	8.34	1098949	9.09	1289535	11.88
UPPER LIMIT	247750	8.84	2197898	9.59	2579070	12.38
LOWER LIMIT	61938	7.84	549475	8.59	644768	11.38
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 V1020211LB	82890	8.34	757761	9.09	793136	11.89
02 0101-689-17T	85783	8.34	774257	9.09	817625	11.88
03 0101-689-18T	77678	8.34	676964	9.10	717428	11.89
04 0101-689-19T	79606	8.33	685185	9.09	745546	11.89
05 0101-595-4	69013	8.34	576422	9.09	656571	11.88
06 0101-595-1MS	81424	8.34	786982	9.09	899029	11.89
07 0101-595-1MS	96565	8.34	848778	9.09	979993	11.89
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM 8
VOA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201003

Date Analyzed: 02/02/01

Instrument ID: VOC1

Time Analyzed: 1332

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) Y

	IS4 (DCB)					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	583787	14.23				
UPPER LIMIT	1167574	14.73				
LOWER LIMIT	291894	13.73				
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 V1020211LB	420051	14.23				
02 0101-689-17T	413269	14.22				
03 0101-689-18T	409578	14.23				
04 0101-689-19T	389853	14.23				
05 0101-595-4	345340	14.23				
06 0101-595-1MS	446708	14.23				
07 0101-595-1MS	463947	14.23				
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Report Date : 18-Jan-2001 14:27

Page 1

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

QC REVIEWED

Start Cal Date : 09-JAN-2001 13:11
End Cal Date : 09-JAN-2001 17:54
Quant Method : ISTD
Target Version : 4.00
Integrator : HP RTE
Method file : \\ETCBDC\DD\chem\voc1.i\101111.B\101091.8260.m
Cal Date : 18-Jan-2001 14:27 1isa

Calibration File Names:

Level 1: \\ETCBDC\DD\chem\voc1.i\101091.B\0301005.D
Level 2: \\ETCBDC\DD\chem\voc1.i\101091.B\0401006.D
Level 3: \\ETCBDC\DD\chem\voc1.i\101091.B\0501008.D
Level 4: \\ETCBDC\DD\chem\voc1.i\101091.B\0601009.D
Level 5: \\ETCBDC\DD\chem\voc1.i\101091.B\0701010.D
Level 6: \\ETCBDC\DD\chem\voc1.i\101091.B\0801011.D
Level 7: \\ETCBDC\DD\chem\voc1.i\101091.B\0901012.D
Level 8: \\ETCBDC\DD\chem\voc1.i\101091.B\1001013.D
Level 9: \\ETCBDC\DD\chem\voc1.i\101091.B\1101014.D
Level 10: \\ETCBDC\DD\chem\voc1.i\101091.B\1201015.D

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	MSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2
	Level 7	Level 8	Level 9	Level 10						
1 Dichlorodifluoromethane	+++++	2.12914	2.88545	3.08205	2.82163	2.43600	AVRG		2.71739	12.80607
	3.04265	2.43799	2.51909	3.10247						

Sue Savage
1-19-01
121000

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : 1STD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\vol1.1\VI01111.B\VI01091.8260.m
 Cal Date : 18-Jan-2001 14:27 1isa

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	%RSD or R ²
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
120.0000	150.0000	170.0000	200.0000								
Level 7	Level 8	Level 9	Level 10								
7 Acetone	+++++	+++++	+++++	1.23348	1.09044	1.20163	AVRG		1.08792		9.90221
	1.05905	1.11533	0.95392	0.96156							
8 Furan	+++++	+++++	6.39213	6.13277	6.13085	6.49176	AVRG		5.84235		9.07959
	5.78442	5.22783	5.08227	5.49674							
9 1,1-Dichloroethene	3.97405	3.72865	3.59214	3.04497	3.00312	3.33350	AVRG		3.21681		13.24861
	3.08995	2.70221	2.75168	2.94782							
10 Acrylonitrile	+++++	+++++	0.92051	0.89549	0.88239	0.92652	AVRG		0.88712		5.94699
	0.90223	0.95099	0.79630	0.82257							
11 Iodomethane	1818	3363	21756	88517	237277	551954	LNIR	0.03116	3.01263		0.99060
	654783	+++++	+++++	+++++							

Report Date : 18-Jan-2001 14:27

Page 4

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 Lisa

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	RSD or R^2
12 Methylene Chloride	24009	24283	49811	148769	347170	672548	LINR	-0.10408	3.42931		0.99567
	877698	985747	1135872	1416413							
13 1,1,2-trichloro-1,2,2-trifluoroethane	++++	3.27353	3.39741	2.85617	2.72756	2.85837	AVRG		2.79017		13.62972
	2.82498	2.23333	2.35720	2.58299							
14 Acetonitrile	++++	0.28948	0.28895	0.28097	0.29184	0.32408	AVRG				7.44768
	0.28529	0.33259	0.27214	0.26851					0.29265		
15 Allyl chloride	++++	6.27974	5.88297	5.24003	5.04111	5.21620	AVRG		5.27305		12.16605
	4.93181	4.31947	++++	++++							
16 Carbon Disulfide	10.86664	12.18636	10.68404	8.96046	8.69929	9.93247	AVRG		9.99382		13.33724
	8.62748	++++	++++	++++							

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCBDC\DD\chem\vol1.i\VI01111.B\VI01091.8260.m
 Cal Date : 18-Jan-2001 14:27 1isa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	ml	ml2	TRSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						OR R ²
17 trans-1,2-Dichloroethene	4.19303	4.31963	3.52431	3.41439	3.31949	3.60073						11.76830
	3.42340	3.04684	3.16715	3.30224			AVRG		3.53112			
18 Methyl-terbutyl-Ether	+++++	9.44997	8.52010	8.22866	7.83478	7.57320						10.77397
	7.85230	7.16246	6.94591	6.74566			AVRG		7.80145			
19 Propionitrile	0.34538	0.45268	0.39079	0.37199	0.35880	0.39857						5.67984
	0.36485	0.42643	0.34981	0.34214			AVRG		0.38014			
20 Chloroprene	+++++	7.13991	6.27788	5.72592	5.73929	5.70030						13.44574
	5.51956	4.71782	4.88850	4.94983			AVRG		5.62878			
21 1,1-Dichloroethane	6.66087	6.99216	6.25832	6.18044	5.99343	6.55023						7.76583
	5.88623	5.66314	5.61118	5.61768			AVRG		6.14137			

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INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\voct.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 11sa

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients		%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	or R ²
22 Vinyl Acetate	++++	++++	7 11384	6 34866	6 52982	6 49664	AVRG		6 26438		7 98156
	6.42358	5 81531	5.78932	5 59790							
23 2-Butanone	++++	++++	0.35494	0.40363	0.38568	0.40811	AVRG		0.39086		6.39220
	0.39718	0.43199	0.38269	0.36268							
24 Acrolein	++++	++++	0.22615	0.22063	0.24159	0.23192	AVRG		0.22927		6.32060
	0.21704	0.25801	0.22470	0.21410							
25 Hexane	++++	12607	52206	171194	428937	880299	LINR	-0.01200	4.20325		0.99716
	1117903	++++	++++	++++							
26 Di Isopropyl ether	++++	12 45305	11.22659	10.98515	10.42186	9.85039	AVRG		10 08252		13.57905
	10.14406	8.49571	8.76227	8 40359							

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\vol1.1\VI01111.B\VI01091.8260.m
 Cal Date : 18-Jan-2001 14:27 11sa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	RRSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	120.0000	150.0000	170.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
27 Methacrylonitrile	1.96316	1.83584	1.74812	1.57805	1.65492	1.58907	AVRG		1.60468		12.80529
	1.53170	1.49599	1.3895	1.31097							
28 cis-1,2-Dichloroethene	4.58464	4.66019	4.23929	3.84811	3.75289	4.06435	AVRG		3.99408		9.72011
	3.91755	3.5961	3.67666	3.59751							
29 Ethyl Acetate	+++++	+++++	2.84169	2.78058	2.99752	2.92506	AVRG		2.83000		6.32784
	2.88847	3.05573	2.55456	2.59641							
30 Bromochloromethane	2.09246	1.88436	1.94870	1.93619	1.87396	1.88706	AVRG		1.89529		4.56414
	1.90151	1.78770	1.80470	1.83628							
31 Chloroform	7.67003	8.03701	7.03035	6.42536	6.58110	6.49181	AVRG		6.74523		9.47260
	6.55476	6.29871	6.13404	6.22913							

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INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\BD\chem\volc1.i\vl01111.B\vl01091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0 5000000	1 0000	5.0000	20 0000	50.0000	100 0000	Curve	b	Coefficients m1	m2	TRSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	120.0000	150.0000	170.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
32 Isobutyl Alcohol	++++	++++	0.15970	0.14092	0.13827	0.16630	AVRG		0.15318		10.74685
	0.14856	0.18597	0.14346	0.14229							
33 2,2-Dichloropropane	7231	11413	49961	188535	490892	915682	LINR	-0.06188	4.75488		0.99195
	1240711	1287757	1586031	1920172							
35 Tetrahydrofuran	++++	++++	1.13384	1.51919	1.44891	1.57215	AVRG		1.45436		9.90066
	1.52296	1.58727	1.41459	1.43595							
38 1,2-Dichloroethane	5.35396	5.54790	5.05465	4.69093	4.96326	4.73316	AVRG		4.84179		8.07534
	4.78198	4.51668	4.35269	4.42572							
39 1,1,1-Trichloroethane	6.33994	6.56646	6.12288	5.83306	5.95206	5.84495	AVRG		5.78233		8.95535
	5.74179	4.91040	5.15583	5.35591							

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

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 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\voct.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 Lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficient m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
40 1,1-Dichloropropene	120.0000	150.0000	170.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
	6.20901	5.99677	5.34065	5.28827	5.06937	5.01616			5.16283		11.52511
	5.15224	4.29777	4.64642	4.61167							
41 Carbon Tetrachloride	6.12907	6.32105	5.42972	5.24426	5.46183	5.21465					
	5.27953	4.46747	4.81261	4.60854					5.29687		11.24393
42 Benzene	17.53331	15.38476	14.60086	13.76122	13.99770	12.89420			14.00625		13.80631
	12.84388	11.03409	+++++	+++++							
44 1,4-Dioxane	+++++	+++++	0.00384	0.00322	0.00366	0.00404					
	0.00342	0.00450	0.00368	0.00380					0.00377		10.35773
45 Dibromomethane	0.17077	0.21205	0.22950	0.22323	0.23413	0.22619					
	0.22730	0.23068	0.21821	0.22931					0.22014		8.40682
									AVRG		

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INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\vol1.i\101111.B\101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
46 1,2-Dichloropropane	120.0000	150.0000	170.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
	0.38515	0.43549	0.38185	0.35887	0.36154	0.34298			0.36122		8.94328
	0.33770	0.34240	0.32811	0.33808			AVRG				
47 Trichloroethene	0.58365	0.67104	0.62448	0.58654	0.59575	0.57366					
	0.57491	0.55346	0.54799	0.57611			AVRG		0.58876		6.10115
48 n-Propyl Acetate	+++++	0.57749	0.54839	0.50396	0.55692	0.54282					
	0.50668	0.59016	0.50980	0.51728			AVRG		0.53994		5.75587
49 Bromodichloromethane	0.57001	0.54293	0.55678	0.52266	0.50690	0.50368					
	0.51877	0.51433	0.50716	0.51725			AVRG		0.52605		4.32796
50 Ethyl methacrylate	+++++	0.27909	0.24618	0.23397	0.23781	0.24213					
	0.22542	0.27242	0.23510	0.24065			AVRG		0.24586		7.31847

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 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\vol1.1\VI01111.B\VI01091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	ml	m2	HRSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	Level 7	Level 8	Level 9	Level 10								
51 Methyl methacrylate	0.18693	0.22486	0.21119	0.21847	0.21347	0.21879	AVRG		0.21534			5.96927
	0.20918	0.23765	0.21441	0.21846								
52 2-Chloroethyl vinyl ether	++++	0.15544	0.18857	0.19095	0.19073	0.20258	AVRG		0.19574			7.95518
	0.19573	0.22318	0.19790	0.20659								
53 4-Methyl-2-Pentanone	++++	++++	0.34846	0.35402	0.36345	0.38447	AVRG		0.36437			8.00262
	0.33998	0.42601	0.33631	0.36226								
54 trans-1,3-Dichloropropene	0.63700	0.66363	0.64138	0.61769	0.64560	0.63579	AVRG		0.63666			2.52793
	0.62339	0.65474	0.61141	0.63597								
55 cis-1,3-Dichloropropene	0.52170	0.56480	0.55837	0.53353	0.54372	0.58201	AVRG		0.56030			3.78686
	0.56981	0.57951	0.56493	0.58467								

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INITIAL CALIBRATION DATA

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 Quant Method : ISTD
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 Integrator : HP RTE
 Method File : \\ETC\BDC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 Lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	120.0000	150.0000	170.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
56 1,1,2-Trichloroethane	0.30664	0.28089	0.28931	0.27874	0.28019	0.27948	AVRG		0.28570		3.85684
	0.26931	0.29342	0.28105	0.29798							
58 Toluene	1.17334	1.23866	1.06543	0.96291	0.96313	0.98098	AVRG		1.00459		11.64297
	0.91428	0.91544	0.90384	0.92786							
59 1,3-Dichloropropane	0.56196	0.63972	0.59085	0.56584	0.55468	0.58443	AVRG		0.57754		5.04762
	0.54060	0.60766	0.55932	0.57030							
60 2-Hexanone	+++++	+++++	0.27490	0.26033	0.26275	0.29373					
	0.26473	0.33628	0.26153	0.28164			AVRG		0.27949		9.21317
61 Chlorodibromomethane	0.40629	0.41592	0.41520	0.39763	0.42286	0.44609					
	0.44455	0.47567	0.44431	0.46765			AVRG		0.43362		6.01680

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INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
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 Quant Method : ISTD
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 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\vol1.i\101111.B\101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients		RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	or R ²
68 Xylene-mp	0.90526	0.82649	0.78593	0.68030	0.66388	0.71355	AVRG		0.72200		13.57590
	0.66218	0.59382	0.66656	++++							
69 cis-1,4-Dichloro-2-butene	++++	0.13568	0.13190	0.12638	0.13607	0.15143	AVRG		0.13791		6.35986
	0.14199	0.14770	0.14298	0.12710							
70 Bromoform	0.23436	0.19937	0.22308	0.22204	0.24719	0.28106	AVRG		0.24480		12.34193
	0.27665	0.27466	++++	++++							
71 Styrene	1.15528	1.27447	1.24700	1.13329	1.13626	1.18851	AVRG		1.14639		6.65010
	1.14691	1.03936	1.10514	1.04366							
72 Xylene-o	0.84813	0.80213	0.76610	0.67070	0.67721	0.70773	AVRG		0.70305		11.16442
	0.66766	0.60357	0.66176	0.62547							

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 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
73 1,1,2,2-Tetrachloroethane	0.87529	0.86880	0.81638	0.81846	0.85084	0.83200	AVRG		0.84018			3.84875
	0.87098	0.87656	0.79844	0.79406								
74 1,2,3-Trichloropropene	0.14696	0.12163	0.12614	0.11565	0.12017	0.13059	AVRG		0.12621			7.24732
	0.12654	0.13016	0.12864	0.11561								
75 trans-1,4-Dichloro-2-butene	0.14083	0.12018	0.12128	0.13351	0.14207	0.15773	AVRG		0.14096			9.52831
	0.14694	0.15908	0.15048	0.13748								
76 Isopropylbenzene	2.08578	2.14147	1.95094	1.74238	1.73727	1.84126	AVRG		1.77869			12.38355
	1.68178	1.49871	1.65624	1.48050								
78 Bromobenzene	0.59007	0.52395	0.48588	0.45479	0.44963	0.48745	AVRG		0.47449			10.71790
	0.45118	0.41319	0.44955	0.43921								

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INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients ml	m2	NRSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	120.0000	150.0000	170.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
79 n-Propylbenzene	++++	2.45597	2.40926	2.13532	2.06270	2.09819			2.05656		12.47360
	1.94964	1.75759	1.92461	1.71552							
80 2-Chlorotoluene											
	1.60886	1.57309	1.47179	1.31228	1.24036	1.38427					
	1.25128	1.04523	1.21322	1.15594					1.32563		13.75623
81 4-Chlorotoluene											
	0.60848	0.51301	0.50462	0.46736	0.45019	0.48560					
	0.45110	0.40907	0.43709	0.41420					0.47407		12.37354
82 1,3,5-Trimethylbenzene	++++	1.72685	1.63528	1.45751	1.38119	1.41878					
	1.34376	1.23129	1.32556	1.24591					1.41846		11.79812
83 Pentachloroethane	++++	0.54683	0.48866	0.51697	0.54616	0.53640					
	0.54632	0.46460	0.47899	++++					0.51561		6.53800
									AVRG		

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

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 End Cal Date : 09-JAN-2001 17:54
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 Integrator : HP RTE
 Method File : \\ETCBDC\DD\chem\voc1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 Lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	ml	m2	\$RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
84 tert-Butylbenzene	1.52083	1.60126	1.50222	1.36811	1.29133	1.41009	AVRG		1.35467			11.24540
	1.27939	1.16821	1.25145	1.15386								
85 1,2,4-Trimethylbenzene	++++	1.73109	1.60612	1.52362	1.38666	1.51463	AVRG		1.44673			10.98013
	1.36345	1.25518	1.37316	1.26663								
86 sec-Butylbenzene	2.27416	2.21019	2.21316	2.00380	1.85835	2.03869	AVRG		1.94548			12.33312
	1.85663	1.65469	1.73281	1.61229								
87 1,3-Dichlorobenzene	2.11906	2.13311	1.97172	1.89198	1.74109	1.70353	AVRG		1.83806			9.95622
	1.75136	1.59529	1.72859	1.74489								
88 4-Isopropyltoluene	++++	1.84676	1.78375	1.56307	1.44636	1.56613	AVRG		1.51633			13.07026
	1.46051	1.27717	1.42008	1.28312								

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INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
End Cal Date : 09-JAN-2001 17:54
Quant Method : ISTD
Target Version : 4.00
Integrator : HP RTE
Method file : \\ETC\BDC\DD\chem\vol1.1\VI01111.B\VI01091.8260.m
Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	SRSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
90 1,4-Dichlorobenzene	2.43586	2.18988	1.91543	1.85218	1.80884	1.73582				1.87384		13.88966
	1.67789	1.53265	1.81921	1.77065								
91 n-Butylbenzene	3.33012	3.27810	3.29184	3.28744	3.04710	2.99485				3.02564		8.84555
	2.94778	2.61514	2.74614	2.71790								
92 1,2-Dichlorobenzene	1.71645	1.92383	1.69141	1.67215	1.59559	1.54998				1.62837		8.01398
	1.59268	1.46300	1.53714	1.53948								
93 1,2-Dibromo-3-chloropropane	+++++	0.20159	0.12704	0.15946	0.16596	0.17813				0.16944		11.89693
	0.17205	0.18243	0.17446	0.16386								
94 1,2,4-Trichlorobenzene	1.38652	1.22887	1.11503	1.14495	1.06601	1.07372				1.13447		9.36516
	1.15189	1.01567	1.07236	1.08966								

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INITIAL CALIBRATION DATA

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 Cal Date : 18-Jan-2001 14:27 Lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
95 Naphthalene	++++	2.58016	2.48742	2.48953	2.25851	2.42563	AVRG		2.40977			4.30773
	2.42133	2.37956	2.37538	2.27040								
96 Hexachlorobutadiene	++++	0.57746	0.58954	0.62366	0.54646	0.57976	AVRG		0.57881			5.33776
	0.61721	0.52479	0.57977	0.57061								
97 1,2,3-Trichlorobenzene	++++	1.19142	1.04585	1.08115	0.94831	1.00533	AVRG					7.61155
	1.02449	0.92744	1.00170	0.99304					1.02430			
34 Dibromofluoromethane	++++	4.41159	3.93448	3.75650	3.81916	4.08262	AVRG		3.93036			5.33414
	3.95930	3.84983	3.75122	3.80856								
37 1,2-Dichloroethane-d4	++++	5.28422	4.67788	4.40604	4.36811	4.60597	AVRG		4.45998			9.16468
	4.60048	4.21733	4.15788	3.82188								

Report Date : 18-Jan-2001 14:27

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\voc1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 Lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R^2
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
\$ 57 Toluene-d8	++++	++++	1.54737	1.42091	1.38864	1.47199						
	1.39585	1.41168	1.43682	1.43770			AVRG			1.43887		3.55459
\$ 77 Bromofluorobenzene	++++	++++	0.61718	0.52434	0.51178	0.51961						
	0.51292	0.47784	0.49729	0.45936			AVRG			0.51504		9.09326

Curve	Formula	Units
Averaged	Amt = Resp/ml	Response
Linear	Amt = b + Resp/ml	Response

ENVIRONMENTAL TESTING & CONSULTING, INC
GC/MS VOC Method 8260B Sequence Check List (SW-846)

Sequence ID V402011 Matrix: H₂O
 Date 2/2/01 Analyst ESM
 Applicable ETC Order Nos. for this sequence:
0102-013-1-2 0101-605-1T
0101-689-1T-12T

Validated

1. BFB Daily 12-Hour Tune Meets Criteria. No analyses begins until criteria are met. (SOP) ✓
2. Initial Calibration Verification Criteria - Method: V401221.0260.m
 - a. SPCC - Mean RF ≥ 0.10 (≥ 0.30 for Chlorobenzene / 1122-Tetrachloroethene) ✓
 - b. CCC - RSD of RF for CCCs and Target Analytes MUST BE $\leq 30\%$ ✓
 - c. RSD of analytes $\leq 15\%$ may use Average RF for quantitation ✓
 - d. Analytes w/RSD $> 15\%$ use Linear Regression - correlation coefficient ≥ 0.99 ✓
3. Calibration Verification - Each 12-Hour Shift
 - a. SPCC - Mean RF ≥ 0.10 (≥ 0.30 for Chlorobenzene / 1122-Tetrachloroethene) ✓
 - b. CCC - % Difference for Average RF Calibration - $\leq 20\%$ ✓
 - c. CCC - % Drift for Linear Regression Calibration - $\leq 20\%$ ✓
 - d. % Difference/% Drift for all other Target Analytes - $\leq 30\%$ ✓
- e. Internal Standards - Retention Times within ± 30 seconds from Mid-Point ICAL STD ✓
- f. Internal Standards - Areas within $(-50\%$ to $+100\%)$ from Mid-Point ICAL STD ✓
4. Method Blanks included in this sequence : ✓

Analyze daily or for each analytical batch (20 samples):
 List compounds identified in Method Blank w/concentration.
 Flag final result "B-Detected in Blank"
Met 4.08
5. Matrix Spike/Matrix Spike Duplicates included in this sequence : ✓

Analyze daily or for each matrix (ms/msd per 20 samples of same matrix)
 List MS/MSD(s) performed with any failures:
0102-013-1MS & MSD
6. Laboratory Control Samples included in this sequence : ✓
 Must contain all Target Analytes.
7. Surrogate Recoveries within QC Limits ✓
8. All positive compounds within calibration range ✓

Narrative/Notes :

8270C Revision 1 December 1996
 Form ETC 06/03/99

USE FOLLOWING INFORMATION FOR TESTING PURPOSES

000141

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID: 0101003

BFB Injection Date: 02/01/01

Instrument ID: VOC4

BFB Injection Time: 1239

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 60.0% of mass 95	58.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	52.5
175	5.0 - 9.0% of mass 174	3.9 (7.5)1
176	95.0 - 101.0% of mass 174	52.8 (100.6)1
177	5.0 - 9.0% of mass 176	3.4 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V4020111LCS		0201004TLCS	02/01/01	1253
02	DCS100		0201004	02/01/01	1253
03	V402011LB		0302005T	02/01/01	1400
04	0102-013-1		0401006	02/01/01	1431
05	0101-689-1T		0901011	02/01/01	1709
06	0101-689-2T		1001012	02/01/01	1740
07	0101-689-3T		1101013	02/01/01	1811
08	0101-689-4T		1201014	02/01/01	1843
09	0101-689-5T		1301015	02/01/01	1914
10	0101-689-6T		1401016	02/01/01	1945
11	0101-689-7T		1501017	02/01/01	2017
12	0101-689-8T		1601018	02/01/01	2048
13	0101-689-9T		1701019	02/01/01	2119
14	0101-689-10T		1801020	02/01/01	2150
15	0101-689-11T		1901021	02/01/01	2221
16	0101-689-12T		2001022	02/01/01	2253
17	0102-013-1MS		2101023T	02/01/01	2324
18	0102-013-1MS		2201024T	02/01/01	2355
19					
20					
21					
22					

FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: VOC4

Calibration Date: 02/01/01 Time: 1253

Lab File ID: 0201004

Init. Calib. Date(s): 01/22/01 01/22/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1832 2347

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
Acetone	96.29	100.0	AVRG	3.7	30.0
Acetonitrile	1120	1000	AVRG	12.0	30.0
Acrolein	85.75	100.0	AVRG	14.2	30.0
Acrylonitrile	101.3	100.0	AVRG	1.3	30.0
Allyl chloride	102.4	100.0	AVRG	2.4	30.0
Benzene	107.1	100.0	AVRG	7.1	30.0
Bromobenzene	87.77	100.0	AVRG	12.2	30.0
Bromochloromethane	115.0	100.0	AVRG	15.0	30.0
Bromodichloromethane	88.25	100.0	AVRG	11.8	30.0
Bromoform	81.49	100.0	AVRG	18.5	30.0
2-Butanone	102.3	100.0	AVRG	2.3	30.0
Bromomethane	115.0	100.0	AVRG	15.0	30.0
n-Butylbenzene	107.8	100.0	AVRG	7.8	30.0
sec-Butylbenzene	87.39	100.0	AVRG	12.6	30.0
tert-Butylbenzene	86.23	100.0	AVRG	13.8	30.0
Carbon Disulfide	107.7	100.0	AVRG	7.7	30.0
Carbon Tetrachloride	94.86	100.0	AVRG	5.1	30.0
Chlorobenzene	91.06	100.0	AVRG	8.9	30.0
Chlorodibromomethane	94.57	100.0	AVRG	5.4	30.0
Chloroethane	118.3	100.0	AVRG	18.3	30.0
2-Chloroethyl vinyl ether	107.8	100.0	AVRG	7.8	30.0
Chloroform	98.29	100.0	AVRG	1.7	20.0
Chloromethane	109.7	100.0	AVRG	9.7	30.0
Chloroprene	96.08	100.0	AVRG	3.9	30.0
2-Chlorotoluene	73.22	100.0	AVRG	26.8	30.0
4-Chlorotoluene	89.44	100.0	AVRG	10.6	30.0
1,2-Dibromo-3-chloropropane	89.21	100.0	AVRG	10.8	30.0
1,2-Dibromoethane	99.50	100.0	AVRG	0.5	30.0
Dibromomethane	89.96	100.0	AVRG	10.0	30.0
1,2-Dichlorobenzene	105.5	100.0	AVRG	5.5	30.0
1,3-Dichlorobenzene	108.4	100.0	AVRG	8.4	30.0
1,4-Dichlorobenzene	105.6	100.0	AVRG	5.6	30.0
trans-1,4-Dichloro-2-butene	90.61	100.0	AVRG	9.4	30.0
Dichlorodifluoromethane	114.1	100.0	AVRG	14.1	30.0
1,1-Dichloroethane	105.0	100.0	AVRG	5.0	30.0
1,2-Dichloroethane	93.39	100.0	AVRG	6.6	30.0
1,1-Dichloroethene	115.4	100.0	AVRG	15.4	20.0

FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: VOC4

Calibration Date: 02/01/01 Time: 1253

Lab File ID: 0201004

Init. Calib. Date(s): 01/22/01 01/22/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1832 2347

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
cis-1,2-Dichloroethene	111.3	100.0	AVRG	11.3	30.0
trans-1,2-Dichloroethene	115.1	100.0	AVRG	15.1	30.0
1,2-Dichloropropane	91.55	100.0	AVRG	8.4	20.0
1,3-Dichloropropane	97.74	100.0	AVRG	2.3	30.0
2,2-Dichloropropane	102.4	100.0	AVRG	2.4	30.0
1,1-Dichloropropene	105.8	100.0	AVRG	5.8	30.0
cis-1,3-Dichloropropene	93.83	100.0	AVRG	6.2	30.0
trans-1,3-Dichloropropene	103.2	100.0	AVRG	3.2	30.0
Di isopropyl ether	100.5	100.0	AVRG	0.5	30.0
1,4-Dioxane	2340	2000	AVRG	17.0	30.0
Ethyl Acetate	101.8	100.0	AVRG	1.8	30.0
Ethylbenzene	82.85	100.0	AVRG	17.2	20.0
Ethyl methacrylate	190.4	200.0	AVRG	4.8	30.0
Furan	154.8	153.0	AVRG	1.2	30.0
Hexachlorobutadiene	100.6	100.0	AVRG	0.6	30.0
Hexane	121.4	117.0	AVRG	3.8	30.0
2-Hexanone	98.48	100.0	AVRG	1.5	30.0
Iodomethane	116.8	100.0	AVRG	16.8	30.0
Isobutyl Alcohol	2126	2000	AVRG	6.3	30.0
Isopropylbenzene	84.76	100.0	AVRG	15.2	30.0
4-Isopropyltoluene	74.85	100.0	AVRG	25.2	30.0
Methacrylonitrile	990.4	1000	AVRG	1.0	30.0
Methylene Chloride	107.5	100.0	LINR	7.5	30.0
Methyl methacrylate	181.9	200.0	AVRG	9.0	30.0
4-Methyl-2-Pentanone	98.32	100.0	AVRG	1.7	30.0
Methyl-tertbutyl-Ether	90.65	100.0	AVRG	9.4	30.0
Naphthalene	109.3	100.0	AVRG	9.3	30.0
Pentachloroethane	126.0	100.0	AVRG	26.0	30.0
Propionitrile	1060	1000	AVRG	6.0	30.0
n-Propyl Acetate	144.0	151.0	AVRG	4.6	30.0
n-Propylbenzene	86.43	100.0	AVRG	13.6	30.0
Styrene	88.88	100.0	AVRG	11.1	30.0
1,1,1,2-Tetrachloroethane	78.00	100.0	AVRG	22.0	30.0
1,1,2,2-Tetrachloroethane	104.1	100.0	AVRG	4.1	30.0
Tetrachloroethene	84.42	100.0	AVRG	15.6	30.0
Tetrahydrofuran	96.27	91.50	AVRG	5.2	30.0
1,2,3-Trichlorobenzene	115.7	100.0	AVRG	15.7	30.0

FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: VOC4

Calibration Date: 02/01/01

Time: 1253

Lab File ID: 0201004

Init. Calib. Date(s): 01/22/01

01/22/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1832

2347

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
Toluene	97.04	100.0	AVRG	3.0	20.0
1,1,1-Trichloroethane	92.36	100.0	AVRG	7.6	30.0
1,1,2-Trichloroethane	102.2	100.0	AVRG	2.2	30.0
1,1,2-trichloro-1,2,2-triflu Trichloroethene	116.8	100.0	AVRG	16.8	30.0
Trichloroethene	90.21	100.0	AVRG	9.8	30.0
Trichlorofluoromethane	95.38	100.0	AVRG	4.6	30.0
1,2,3-Trichloropropane	84.30	100.0	AVRG	15.7	30.0
1,2,4-Trichlorobenzene	118.8	100.0	AVRG	18.8	30.0
1,2,4-Trimethylbenzene	79.91	100.0	AVRG	20.1	30.0
1,3,5-Trimethylbenzene	83.58	100.0	AVRG	16.4	30.0
Vinyl Acetate	95.47	100.0	AVRG	4.5	30.0
Vinyl Chloride	114.6	100.0	AVRG	14.6	20.0
Xylene-mp	174.3	200.0	AVRG	12.8	30.0
Xylene-o	86.93	100.0	AVRG	13.1	30.0
cis-1,4-Dichloro-2-butene	85.22	100.0	AVRG	14.8	30.0
1,2-Dichloroethane-d4	41.91	45.30	AVRG	7.5	30.0
Dibromofluoromethane	45.36	46.40	AVRG	2.2	30.0
Toluene-d8	47.50	48.30	AVRG	1.6	30.0
Bromofluorobenzene	41.27	51.30	AVRG	19.6	30.0

FORM 8
VOA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201004

Date Analyzed: 02/01/01

Instrument ID: VOC4

Time Analyzed: 1253

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	88854	7.73	601670	8.33	624173	10.56
UPPER LIMIT	177708	8.23	1203340	8.83	1248346	11.06
LOWER LIMIT	44427	7.23	300835	7.83	312087	10.06
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 V402011LB	86657	7.73	633957	8.33	573353	10.56
02 0102-013-1	84922	7.73	620845	8.33	556145	10.56
03 0101-689-1T	84131	7.73	592594	8.33	533310	10.56
04 0101-689-2T	79823	7.73	560900	8.33	514485	10.56
05 0101-689-3T	79056	7.73	572520	8.33	526389	10.56
06 0101-689-4T	81743	7.73	554754	8.33	511429	10.56
07 0101-689-5T	83496	7.73	581046	8.33	524581	10.56
08 0101-689-6T	80707	7.73	570092	8.33	504722	10.56
09 0101-689-7T	79828	7.73	575802	8.33	522221	10.56
10 0101-689-8T	80595	7.73	580358	8.33	525243	10.56
11 0101-689-9T	81294	7.73	583834	8.33	524410	10.56
12 0101-689-10T	81864	7.73	592006	8.33	529094	10.56
13 0101-689-11T	81223	7.73	583220	8.33	529502	10.56
14 0101-689-12T	80761	7.73	586071	8.33	531689	10.56
15 0102-013-1MS	80810	7.73	590461	8.33	609909	10.55
16 0102-013-1MS	88798	7.73	656130	8.33	646566	10.55
17						
18						
19						
20						
21						
22						

IS1 = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM 8
VOA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201004

Date Analyzed: 02/01/01

Instrument ID: VOC4

Time Analyzed: 1253

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) Y

	IS4 (DCB)					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	208765	12.45				
UPPER LIMIT	417530	12.95				
LOWER LIMIT	104383	11.95				
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 V402011LB	235149	12.46				
02 0102-013-1	230069	12.45				
03 0101-689-1T	219505	12.45				
04 0101-689-2T	220804	12.45				
05 0101-689-3T	224096	12.45				
06 0101-689-4T	227206	12.45				
07 0101-689-5T	221112	12.45				
08 0101-689-6T	218481	12.45				
09 0101-689-7T	218402	12.45				
10 0101-689-8T	219122	12.45				
11 0101-689-9T	217956	12.45				
12 0101-689-10T	224024	12.45				
13 0101-689-11T	225180	12.45				
14 0101-689-12T	215829	12.45				
15 0102-013-1MS	209757	12.45				
16 0102-013-1MS	212896	12.46				
17						
18						
19						
20						
21						
22						

IS4 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

ENVIRONMENTAL TESTING & CONSULTING, INC
GC/MS VOC Method 8260B Sequence Check List (SW-846)

Sequence ID V402021

Matrix : 1720

Date 2/5/01

Analyst ESM

Applicable ETC Order Nos. for this sequence:

0101-68913-16T 0101-688-1-6

0101-598-1-9

Validated

1. BFB Daily 12-Hour Tune Meets Criteria. No analyses begins until criteria are met. (SOP)
2. Initial Calibration Verification Criteria - Method : V401221-8760.m
- a. SPCC - Mean RF > 0.10 (> 0.30 for Chlorobenzene / 1122-Tetrachloroethene)
 - b. CCC - RSD of RF for CCCs and Target Analytes MUST BE $\leq 30\%$
 - c. RSD of analytes $\leq 15\%$ may use Average RF for quantitation
 - d. Analytes w/RSD $> 15\%$ use Linear Regression - correlation coefficient > 0.99

3. Calibration Verification - Each 12-Hour Shift
- a. SPCC - Mean RF ≥ 0.10 (≥ 0.30 for Chlorobenzene / 1122-Tetrachloroethene)
 - b. CCC - % Difference for Average RF Calibration - $\leq 20\%$
 - c. CCC - % Drift for Linear Regression Calibration - $\leq 20\%$
 - d. % Difference / % Drift for all other Target Analytes - $\leq 30\%$
- DCDEM, PTCE
-
- e. Internal Standards - Retention Times within ± 30 seconds from Mid-Point ICAL STD
 - f. Internal Standards - Areas within (-50% to +100%) from Mid-Point ICAL STD

4. Method Blanks included in this sequence :
Analyze daily or for each analytical batch (20 samples):
List compounds identified in Method Blank w/concentration.
Flag final result "B-Detected in Blank"
MALHA 2.32 BDL

5. Matrix Spike/Matrix Spike Duplicates included in this sequence :
Analyze daily or for each matrix (ms/msd per 20 samples of same matrix)
List MS/MSD(s) performed with any failures :
0101-598-2 MS + MSD

- 6. Laboratory Control Samples included in this sequence :**
Must contain all Target Analytes.

- ## 7. Surrogate Recoveries within QC Limits

8. All positive compounds within calibration range

Narrative/Notes :

8270X Received 11 December 1976
 Issued as OGI/OSR/77

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID: 0101001

BFB Injection Date: 02/02/01

Instrument ID: VOC4

BFB Injection Time: 1149

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	52.2
175	5.0 - 9.0% of mass 174	4.0 (7.6)1
176	95.0 - 101.0% of mass 174	51.2 (98.0)1
177	5.0 - 9.0% of mass 176	3.6 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V4020211LCS		0201002TLCS	02/02/01	1204
02	DCS100		0201002	02/02/01	1204
03	V4020211LB		0302003T	02/02/01	1315
04	0101-689-13T		0401004	02/02/01	1346
05	0101-689-14T		0501005	02/02/01	1415
06	0101-689-15T		0601006	02/02/01	1443
07	0101-689-16T		0701007	02/02/01	1511
08	0101-598-2		1101011	02/02/01	1706
09	0101-598-2MS		2201022T	02/02/01	2249
10	0101-598-2MS		2301023T	02/02/01	2320
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: VOC4

Calibration Date: 02/02/01

Time: 1204

Lab File ID: 0201002

Init. Calib. Date(s): 01/22/01 01/22/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1832 2347

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Acetone	113.0	100.0	AVRG	13.0	30.0
Acetonitrile	1232	1000	AVRG	23.2	30.0
Acrolein	107.6	100.0	AVRG	7.6	30.0
Acrylonitrile	120.0	100.0	AVRG	20.0	30.0
Allyl chloride	106.6	100.0	AVRG	6.6	30.0
Benzene	111.7	100.0	AVRG	11.7	30.0
Bromobenzene	96.62	100.0	AVRG	3.4	30.0
Bromochloromethane	109.8	100.0	AVRG	9.8	30.0
Bromodichloromethane	83.42	100.0	AVRG	16.6	30.0
Bromoform	90.76	100.0	AVRG	9.2	30.0
2-Butanone	119.4	100.0	AVRG	19.4	30.0
Bromomethane	97.58	100.0	AVRG	2.4	30.0
n-Butylbenzene	108.3	100.0	AVRG	8.3	30.0
sec-Butylbenzene	91.63	100.0	AVRG	8.4	30.0
tert-Butylbenzene	91.56	100.0	AVRG	8.4	30.0
Carbon Disulfide	104.1	100.0	AVRG	4.1	30.0
Carbon Tetrachloride	93.04	100.0	AVRG	7.0	30.0
Chlorobenzene	97.02	100.0	AVRG	3.0	30.0
Chlorodibromomethane	93.29	100.0	AVRG	6.7	30.0
Chloroethane	103.9	100.0	AVRG	3.9	30.0
2-Chloroethyl vinyl ether	86.23	100.0	AVRG	13.8	30.0
Chloroform	100.7	100.0	AVRG	0.7	20.0
Chloromethane	82.30	100.0	AVRG	17.7	30.0
Chloroprene	95.96	100.0	AVRG	4.0	30.0
2-Chlorotoluene	81.47	100.0	AVRG	18.5	30.0
4-Chlorotoluene	96.07	100.0	AVRG	3.9	30.0
1,2-Dibromo-3-chloropropane	103.1	100.0	AVRG	3.1	30.0
1,2-Dibromoethane	96.36	100.0	AVRG	3.6	30.0
Dibromomethane	85.86	100.0	AVRG	14.1	30.0
1,2-Dichlorobenzene	106.1	100.0	AVRG	6.1	30.0
1,3-Dichlorobenzene	112.8	100.0	AVRG	12.8	30.0
1,4-Dichlorobenzene	109.7	100.0	AVRG	9.7	30.0
trans-1,4-Dichloro-2-butene	109.8	100.0	AVRG	9.8	30.0
Dichlorodifluoromethane	61.85	100.0	AVRG	38.2	30.0
1,1-Dichloroethane	102.1	100.0	AVRG	2.1	30.0
1,2-Dichloroethane	96.46	100.0	AVRG	3.5	30.0
1,1-Dichloroethene	105.1	100.0	AVRG	5.1	20.0

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FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: VOC4

Calibration Date: 02/02/01

Time: 1204

Lab File ID: 0201002

Init. Calib. Date(s): 01/22/01 01/22/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1832

2347

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
cis-1,2-Dichloroethene	108.7	100.0	AVRG	8.7	30.0
trans-1,2-Dichloroethene	108.8	100.0	AVRG	8.8	30.0
1,2-Dichloropropane	90.93	100.0	AVRG	9.1	20.0
1,3-Dichloropropane	92.16	100.0	AVRG	7.8	30.0
2,2-Dichloropropane	104.7	100.0	AVRG	4.7	30.0
1,1-Dichloropropene	108.7	100.0	AVRG	8.7	30.0
cis-1,3-Dichloropropene	84.26	100.0	AVRG	15.7	30.0
trans-1,3-Dichloropropene	85.71	100.0	AVRG	14.3	30.0
Di isopropyl ether	108.3	100.0	AVRG	8.3	30.0
1,4-Dioxane	2216	2000	AVRG	10.8	30.0
Ethyl Acetate	124.9	100.0	AVRG	24.9	30.0
Ethylbenzene	88.10	100.0	AVRG	11.9	20.0
Ethyl methacrylate	203.5	200.0	AVRG	1.8	30.0
Furan	152.5	153.0	AVRG	0.3	30.0
Hexachlorobutadiene	100.1	100.0	AVRG	0.1	30.0
Hexane	117.2	117.0	AVRG	0.2	30.0
2-Hexanone	109.6	100.0	AVRG	9.6	30.0
Iodomethane	105.3	100.0	AVRG	5.3	30.0
Isobutyl Alcohol	2421	2000	AVRG	21.0	30.0
Isopropylbenzene	89.83	100.0	AVRG	10.2	30.0
4-Isopropyltoluene	79.48	100.0	AVRG	20.5	30.0
Methacrylonitrile	1169	1000	AVRG	16.9	30.0
Methylene Chloride	106.8	100.0	LINR	6.8	30.0
Methyl methacrylate	175.7	200.0	AVRG	12.2	30.0
4-Methyl-2-Pentanone	106.6	100.0	AVRG	6.6	30.0
Methyl-tertbutyl-Ether	102.6	100.0	AVRG	2.6	30.0
Naphthalene	120.6	100.0	AVRG	20.6	30.0
Pentachloroethane	139.5	100.0	AVRG	39.5	30.0
Propionitrile	1230	1000	AVRG	23.0	30.0
n-Propyl Acetate	158.9	151.0	AVRG	5.2	30.0
n-Propylbenzene	90.85	100.0	AVRG	9.2	30.0
Styrene	94.56	100.0	AVRG	5.4	30.0
1,1,1,2-Tetrachloroethane	83.25	100.0	AVRG	16.8	30.0
1,1,2,2-Tetrachloroethane	119.7	100.0	AVRG	19.7	30.0
Tetrachloroethene	80.30	100.0	AVRG	19.7	30.0
Tetrahydrofuran	112.9	91.50	AVRG	23.4	30.0
1,2,3-Trichlorobenzene	121.1	100.0	AVRG	21.1	30.0

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FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: VOC4

Calibration Date: 02/02/01 Time: 1204

Lab File ID: 0201002

Init. Calib. Date(s): 01/22/01 01/22/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1832 2347

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Toluene	92.76	100.0	AVRG	7.2	20.0
1,1,1-Trichloroethane	94.39	100.0	AVRG	5.6	30.0
1,1,2-Trichloroethane	100.5	100.0	AVRG	0.5	30.0
1,1,2-trichloro-1,2,2-triflu	98.38	100.0	AVRG	1.6	30.0
Trichloroethene	88.22	100.0	AVRG	11.8	30.0
Trichlorofluoromethane	88.07	100.0	AVRG	11.9	30.0
1,2,3-Trichloropropane	99.76	100.0	AVRG	0.2	30.0
1,2,4-Trichlorobenzene	120.0	100.0	AVRG	20.0	30.0
1,2,4-Trimethylbenzene	83.13	100.0	AVRG	16.9	30.0
1,3,5-Trimethylbenzene	85.86	100.0	AVRG	14.1	30.0
Vinyl Acetate	119.7	100.0	AVRG	19.7	30.0
Vinyl Chloride	92.70	100.0	AVRG	7.3	20.0
Xylene-mp	181.7	200.0	AVRG	9.2	30.0
Xylene-o	82.55	100.0	AVRG	17.4	30.0
cis-1,4-Dichloro-2-butene	101.2	100.0	AVRG	1.2	30.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4	44.92	45.30	AVRG	0.8	30.0
Dibromofluoromethane	46.17	46.40	AVRG	0.5	30.0
Toluene-d8	44.73	48.30	AVRG	7.4	30.0
Bromofluorobenzene	43.79	51.30	AVRG	14.6	30.0

FORM 8
VOA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201002

Date Analyzed: 02/02/01

Instrument ID: VOC4

Time Analyzed: 1204

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	88653	7.71	625267	8.32	595500	10.55
UPPER LIMIT	177306	8.21	1250534	8.82	1191000	11.05
LOWER LIMIT	44327	7.21	312634	7.82	297750	10.05
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 V4020211LB	92965	7.72	647933	8.32	598053	10.55
02 0101-689-13T	86562	7.72	620433	8.32	574619	10.55
03 0101-689-14T	86589	7.72	600083	8.32	568172	10.55
04 0101-689-15T	80421	7.72	562509	8.32	537051	10.55
05 0101-689-16T	84182	7.72	612659	8.32	563619	10.55
06 0101-598-2	81789	7.72	585486	8.32	532792	10.55
07 0101-598-2MS	95939	7.72	701555	8.32	749953	10.55
08 0101-598-2MS	92642	7.72	700986	8.32	711033	10.56
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM 8
VOA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201002

Date Analyzed: 02/02/01

Instrument ID: VOC4

Time Analyzed: 1204

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) Y

	IS4 (DCB)					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	201604	12.44				
UPPER LIMIT	403208	12.94				
LOWER LIMIT	100802	11.94				
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 V4020211LB	252136	12.45				
02 0101-689-13T	247332	12.45				
03 0101-689-14T	236987	12.45				
04 0101-689-15T	235034	12.44				
05 0101-689-16T	232390	12.44				
06 0101-598-2	221315	12.45				
07 0101-598-2MS	243380	12.44				
08 0101-598-2MS	224265	12.45				
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

```

Start Cal Date      : 22-JAN-2001 18:32
End Cal Date       : 22-JAN-2001 23:47
Quant Method       : ISTD
Target Version     : 4.00
Integrator         : HP RTE
Method File        : \\ETCDBC\CHEM\VOC4.i\V401231.B\V401221.8260.m
Cal Date           : 24-Jan-2001 08:47 erica

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Level 1:	ETCBDC/CHEM/voc4.i/V401221.B/0401005.D
Level 2:	ETCBDC/CHEM/voc4.i/V401221.B/0601007.D
Level 3:	ETCBDC/CHEM/voc4.i/V401221.B/0701008.D
Level 4:	ETCBDC/CHEM/voc4.i/V401221.B/0801009.D
Level 5:	ETCBDC/CHEM/voc4.i/V401221.B/0901010.D
Level 6:	ETCBDC/CHEM/voc4.i/V401221.B/1001011.D
Level 7:	ETCBDC/CHEM/voc4.i/V401221.B/1101012.D
Level 8:	ETCBDC/CHEM/voc4.i/V401221.B/1201013.D
Level 9:	ETCBDC/CHEM/voc4.i/V401221.B/1301014.D
Level 10:	ETCBDC/CHEM/voc4.i/V401221.B/1401015.D

Compound	Coefficients										b	m1	m2	RSD or R^2
	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve							
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6								
	Level 7	Level 8	Level 9	Level 10										
	120.0000	150.0000	170.0000	200.0000										
	Level 7	Level 8	Level 9	Level 10										
	Level 7	Level 8	Level 9	Level 10										
	Level 7	Level 8	Level 9	Level 10										
	Level 7	Level 8	Level 9	Level 10										
1 Dichlorodifluoromethane	++++	3 23162	3.43338	3 80833	4.25903	4 51424								
	4 44248	3 87244	3.73964	4.78570					AVRG	4.00965	13.00723			

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Winkler 1/24/01
 1/1/24/01
 Page 1
 201/24/01

Report Date : 24-Jan-2001 11:09

Page 2

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCBDC\CHEM\VOCA.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	%RSD or R ²
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
120.0000	150.0000	170.0000	200.0000								
Level 7	Level 8	Level 9	Level 10								
2 Chloromethane	+++++	2.40684	2.14639	1.65289	1.95770	2.11914	AVRG		2.02711		11.44454
	2.02503	1.81002	1.87694	2.24895							
3 Vinyl Chloride	+++++	1.60989	2.23536	1.92006	2.24765	2.37266	AVRG		2.11559		11.94934
	2.22470	1.99860	2.02361	2.40778							
4 Bromomethane	+++++	1.43937	1.67397	1.40760	1.74777	1.92978	AVRG		1.71894		11.85740
	1.82212	1.70017	1.71617	2.03349							
5 Chloroethane	+++++	0.41274	0.32051	0.41632	0.46662	0.49182	AVRG		0.43669		12.51003
	0.47042	0.42603	0.42526	0.50050							
6 Trichlorofluoromethane	6.32427	6.52449	8.09844	6.69986	7.53805	7.73501	AVRG		7.14308		9.02823
	7.56232	6.69140	6.53936	7.71762							

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\CHEM\VOCA.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
7 Acetone	++++	++++	1.56407	1.32565	1.34354	1.38321						
	1.27852	1.19071	1.10637	1.28047			AVRG			1.30907		10.36342
8 Furan	++++	++++	7.39766	6.02032	6.54602	6.91831						
	6.78000	6.16667	6.07345	6.95503			AVRG			6.60718		7.45772
9 1,1-Dichloroethane	++++	1.26188	1.68487	1.52363	1.73184	1.84741						
	1.86394	1.70056	1.65379	1.96299			AVRG			1.69232		12.24735
10 Acrylonitrile	++++	++++	0.70113	0.54430	0.60266	0.65225						
	0.63169	0.59704	0.57270	0.64324			AVRG			0.61812		7.98841
11 Iodomethane	++++	1.93702	2.67567	2.23867	2.50417	2.64090						
	2.50006	2.36684	2.27763	2.62306			AVRG			2.41823		9.89559

Report Date : 24-Jan-2001 11:09

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCBDC\CHEM\VOCA.i\VA01231.B\VA01221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients ml	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	Level 7	Level 8	Level 9	Level 10							
12 Methylene Chloride	++++	13147	26084	81727	197819	391506	LINR	-0.02263	2.46234		0.99188
	472995	555111	667207	788054							
13 1,1,2-trichloro-1,2,2-trifluoroethane	++++	1.55978	2.18274	1.94172	2.23732	2.26481	AVRG		2.04170		11.55919
	2.16358	1.94313	1.85292	2.22930							
14 Acetonitrile	++++	0.17818	0.16252	0.15638	0.17941	0.19406	AVRG		0.17653		7.53876
	0.18709	0.17008	0.16803	0.19297							
15 Allyl chloride	++++	4.65011	4.36634	3.66856	4.02680	4.26466	AVRG		4.10902		7.82570
	4.15264	3.79786	3.77109	4.28312							
16 Carbon Disulfide	5.78196	6.69154	6.76605	5.53118	6.30120	6.84763	AVRG		6.42149		8.36020
	6.79865	6.18024	6.06998	7.24641							

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\CHEM\VOCA.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0 5000000	1.0000	5 0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						of R ²
	120 0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
17 trans-1,2-Dichloroethene	++++	2 02124	2 06818	1.77407	1.94882	2.13000						
	2 15950	1 99528	1.92659	2.27776			AVRG			2.03349		7 24346
18 Methyl-terbutyl-Ether	12.21522	11.16416	12.34809	10 55315	11.26269	12 19879						
	11.72636	10.83461	10.36163	11 28637			AVRG			11.39511		6.21240
19 Propionitrile	0.23633	0.28773	0.26083	0 21949	0 22964	0 25152						
	0.24860	0 23297	0.22112	0 24918			AVRG			0.24374		8.44210
20 Chloroprene	++++	7.72791	8.53267	6.90091	7 44691	7 77776						
	7.72170	6.94387	6.46340	7.24343			AVRG			7.41762		8.24871
21 1,1-Dichloroethane	6.05046	5.58278	6.25658	5.21107	5.50687	5.71548						
	5.75206	5.16544	5.04710	5.92102			AVRG			5 62089		7 07650

Report Date : 24-Jan-2001 11:09

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\CHEM\VOCA.I\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	CURVE	b	Coefficients	m1	m2	*RSD or R^2
22 Vinyl Acetate	++++	++++	5.74300	4.86923	5.18364	5.68412	AVRG		5.25040			6.94155
23 2-Butanone	++++	++++	0.32164	0.26730	0.30167	0.32454	AVRG		0.30160			7.25143
24 Acrolein	++++	++++	0.25700	0.23195	0.20269	0.21112	AVRG		0.21443			12.21313
25 Hexane	++++	++++	3.86489	3.01334	3.45323	3.78854	AVRG		3.55184			8.97741
26 Di isopropyl ether	++++	10.69783	10.65559	9.22396	9.73555	10.52071	AVRG		10.07988			5.57234

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method File : \\ETCBDC\CHEM\VOC4.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
27 Methacrylonitrile	1.86232	1.77896	1.68122	1.43013	1.51901	1.57090	AVRG			1.57478		9.91206
	1.54611	1.45239	1.36894	1.53781								
28 cis-1,2-Dichloroethene	2.26626	2.24675	2.25559	1.95990	2.10526	2.24752	AVRG					5.52958
	2.24159	2.07297	2.02015	2.29618						2.17122		
29 Ethyl Acetate	++++	++++	2.88076	2.42141	2.56313	2.79331	AVRG			2.62857		6.59247
	2.74743	2.59079	2.39076	2.64094								
30 Bromochloromethane	++++	0.62572	0.96308	0.77187	0.86652	0.93408	AVRG					13.00988
	0.93683	0.87457	0.85970	0.99552						0.86977		
31 Chloroform	8.72478	8.01050	8.32419	7.05242	7.46036	7.81726	AVRG			7.62180		8.17371
	7.68472	7.01965	6.70824	7.41592								

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\CHEM\VOCA.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	Level 7	Level 8	Level 9	Level 10							
32 Isobutyl Alcohol	++++	++++	0.1143	0.09534	0.09554	0.10508	AVRG		0.09932		7.85011
	0.10123	0.09581	0.08847	0.09867							
33 2,2-Dichloropropane	++++	7.94159	8.28359	6.67274	6.90630	6.93279	AVRG		6.88103		11.84259
	6.95626	6.15474	5.70298	6.37828							
35 Tetrahydrofuran	++++	++++	0.97995	0.88119	1.01805	1.09393	AVRG		0.98462		7.59465
	1.06153	0.96147	0.89043	0.99044							
38 1,2-Dichloroethane	7.47003	7.83579	8.58091	7.40644	7.78013	8.31392	AVRG		7.70051		6.84105
	8.07584	7.20455	6.82991	7.50759							
39 1,1,1-Trichloroethane	7.84087	7.80099	9.02843	7.57475	8.04389	8.20487	AVRG		7.83893		7.57611
	8.13093	7.24737	6.80946	7.70774							

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCBDC\CHEM\VOG4.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
40 1,1-Dichloropropene	4.80501	4.64663	5.67256	4.74740	5.17821	5.55190				5.11759		7.53724
	5.53233	4.99970	4.72303	5.31916			AVRG					
41 Carbon Tetrachloride	6.51966	6.66857	8.12588	6.84018	7.34550	7.42741				6.95294		8.80837
	7.35455	6.53213	5.97529	6.74026			AVRG					
42 Benzene	9.67249	9.21879	10.03890	8.24267	9.04912	9.60780				9.25674		6.16877
	9.64028	9.00553	8.47371	9.61807			AVRG					
44 1,4-Dioxane	++++	++++	0.00332	0.00275	0.00304	0.00342				0.00309		8.84467
	0.00336	0.00309	0.00268	0.00309			AVRG					
45 Dibromomethane	0.32949	0.37302	0.34683	0.29623	0.30525	0.31457				0.30987		10.68397
	0.30869	0.27693	0.26346	0.28427			AVRG					

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INITIAL CALIBRATION DATA

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End Cal Date : 22-JAN-2001 23:47
Quant Method : ISTD
Target Version : 4.00
Integrator : HP RTE
Method file : \\ETC\BDC\CHEM\VOCA.1\VA01231.B\VA01221.8260.m
Cal Date : 24-Jan-2001 08:47 erica

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients ml	m2	RSR or R^2
46 1,2-Dichloropropane	++++ 0.45740	0.47716 0.42020	0.48595 0.40429	0.42065 0.44133	0.43284	0.46431	AVRG		0.44490		6.28966
47 Trichloroethene	++++ 0.83245	0.88142 0.75356	0.89698 0.70488	0.74822 0.78007	0.78817	0.83241	AVRG		0.80202		7.95023
48 n-Propyl Acetate	++++ 0.72790	0.84463 0.66803	0.81975 0.61721	0.68742 0.67497	0.70864	0.73967	AVRG		0.72091		10.09959
49 Bromodichloromethane	1.16026 1.03278	1.20011 0.91289	1.21785 0.86411	0.95689 0.92202	1.03628	1.05587	AVRG		1.03591		12.03129
50 Ethyl methacrylate	++++ 0.29819	0.32967 0.27303	0.34061 0.25179	0.27445 0.28098	0.28861	0.30928	AVRG		0.29407		9.69180

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\CHEM\VOIC4.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	ml	m2	*RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
51 Methyl methacrylate	0.44039	0.39197	0.36410	0.31164	0.33315	0.34434						
	0.32563	0.30578	0.28415	0.30436			AVRG			0.34055		13.83983
52 2-Chloroethyl vinyl ether	++++	0.06186	0.04965	0.05638	0.07032	0.07810						
	0.07763	0.07119	0.06966	0.07553			AVRG			0.06781		14.54846
53 4-Methyl-2-Pentanone	++++	++++	0.56518	0.42636	0.48362	0.51500						
	0.47939	0.45093	0.41032	0.45809			AVRG			0.47369		10.44939
54 trans-1,3-Dichloropropene	1.07387	0.98380	1.00412	0.84551	0.91581	0.95923						
	0.92218	0.84930	0.80706	0.84027			AVRG			0.92011		9.30993
55 cis-1,3-Dichloropropene	1.06075	1.02684	1.10556	0.97073	1.03303	1.09424						
	1.02982	0.95268	0.87870	0.95523			AVRG			1.01076		7.00155

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INITIAL CALIBRATION DATA

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 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\CHEM\VOCA.1\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	120.0000	150.0000	170.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
56 1,1,2-Trichloroethane	0.30548	0.30376	0.31767	0.28598	0.31029	0.32436	AVRG		0.30076		5.59663
	0.31274	0.28880	0.27045	0.28807							
58 Toluene	1.14219	1.13625	0.99561	0.85314	0.90144	0.93878	AVRG		0.94598		12.07604
	0.92460	0.85719	0.80608	0.90451							
59 1,3-Dichloropropane	0.85380	0.87314	0.85633	0.73654	0.77494	0.80482	AVRG		0.77378		9.44858
	0.76922	0.70113	0.65914	0.70878							
60 2-Hexanone	+++++	+++++	0.40434	0.33054	0.35368	0.37796	AVRG		0.34751		9.63861
	0.36185	0.32759	0.30075	0.32339							
61 Chlorodibromomethane	0.56293	0.62157	0.62413	0.54501	0.60477	0.64503	AVRG		0.59276		6.21874
	0.62798	0.57101	0.54217	0.58303							

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INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCBDC\CHEM\VOCA.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	ml	m2	RSR
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
62 1,2-Dibromoethane	++++	0.42371	0.39469	0.36504	0.39322	0.41526				0.38610		6.78651
	0.40168	0.36590	0.34362	0.37179			AVRG					
63 Tetrachloroethane	++++	0.31706	0.37840	0.33673	0.37828	0.38679				0.36697		7.75427
	0.38832	0.36070	0.34928	0.40714			AVRG					
64 1,1,1,2-Tetrachloroethane	0.58098	0.61729	0.59557	0.53078	0.58527	0.58338				0.56954		5.48478
	0.58533	0.55295	0.51776	0.54615			AVRG					
66 Chlorobenzene	0.89148	0.84229	0.96020	0.83473	0.90964	0.91064				0.88734		4.88027
	0.93426	0.87072	0.83047	0.88893			AVRG					
67 Ethylbenzene	2.68257	2.80567	2.75906	2.35655	2.56949	2.50006						
	2.54230	2.35023	2.18708	2.30685			AVRG			2.50599		8.18202

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INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCBDC\CHEM\VOC4.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
68 Xylene-mp	0.66189	0.69468	0.65510	0.56247	0.61245	0.60214	AVRG		0.61955			6.79413
	0.63078	0.59104	0.56769	0.61728								
69 cis-1,4-Dichloro-2-butene	+++++	0.74903	0.78223	0.66672	0.71884	0.68685	AVRG		0.65891			11.32031
	0.66962	0.61025	0.56055	0.57613								
70 Bromoform	+++++	0.39636	0.41270	0.36231	0.40735	0.41245	AVRG		0.39071			5.49207
	0.40707	0.38600	0.35869	0.37348								
71 Styrene	1.09672	1.08050	1.13852	0.94015	1.01579	0.98437	AVRG		1.00430			8.23895
	1.02665	0.93615	0.87701	0.94716								
72 Xylene-o	0.60562	0.65619	0.64170	0.54392	0.58526	0.55492	AVRG		0.57734			8.76248
	0.57527	0.52781	0.50540	+++++								

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCBDC\CHEM\VOC4.1\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%SD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
73 1,1,2,2-Tetrachloroethane	1.12120	0.94371	1.16895	1.04197	1.09551	1.11750	AVRG		1	0.0548		7.11713
	1.08963	1.00001	0.95527	1.02107								
74 1,2,3-Trichloropropene	0.73469	0.74692	0.79094	0.66672	0.71884	0.68685	AVRG			0.67618		11.17006
	0.66962	0.61025	0.56055	0.57638								
75 trans-1,4-Dichloro-2-butene	0.14867	0.18357	0.20041	0.16869	0.18390	0.17855	AVRG			0.16919		10.78192
	0.17457	0.15861	0.14609	0.14884								
76 Isopropylbenzene	2.42386	2.42701	2.33661	2.03425	2.19103	2.06981	AVRG			2.11136		10.94525
	2.08752	1.88927	1.77583	1.87640								
78 Bromobenzene	0.34075	0.40324	0.41644	0.35722	0.39633	0.38286	AVRG			0.37250		7.60045
	0.38626	0.35585	0.33262	0.35341								

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method File : \\ETCBDC\CHEM\VOCA.I\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
95 Naphthalene	2.08304	1.93011	1.75876	1.66756	1.81869	1.97911	AVRG		1.86990			8.47412
	2.11143	1.89152	1.65592	1.80286								
96 Hexachlorobutadiene	1.00908	1.25312	1.29041	1.22578	1.28774	1.33590	AVRG		1.21595			9.33374
	1.35966	1.17968	1.07956	1.13852								
97 1,2,3-Trichlorobenzene	+++++	0.84000	0.99296	0.90620	1.01956	1.11143	AVRG		0.98616			9.85905
	1.13346	1.01906	0.90317	0.94957								
34 Dibromofluoromethane	3.77688	3.62418	3.55541	3.01616	3.20415	3.36533	AVRG		3.36615			7.24593
	3.33342	3.35268	3.03216	3.41119								
37 1,2-Dichloroethane-d4	7.25284	7.08451	7.06545	6.06245	6.38278	6.68407	AVRG		6.69310			6.15211
	6.80477	6.76605	6.05825	6.76979								

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INITIAL CALIBRATION DATA

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 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\CHEM\VOCA.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
79 n-Propylbenzene	++++	3.27492	3.10841	2.67468	2.91419	2.71389				2.72056		12.18932
	2.69591	2.41773	2.29554	2.38977								
80 2-Chlorotoluene	2.15759	2.54977	2.21735	1.82112	1.98985	1.96344				2.06958		11.42743
	2.00737	1.85017	++++	++++								
81 4-Chlorotoluene	++++	0.42557	0.34884	0.30230	0.32963	0.31045				0.32365		13.76058
	0.33244	0.29855	0.27563	0.28949								
82 1,3,5-Trimethylbenzene	++++	2.19457	2.05409	1.75235	1.86453	1.75610				1.77182		13.36580
	1.73544	1.56725	1.48066	1.54138								
83 Pentachloroethane	0.70744	0.62456	0.65762	0.59046	0.60945	0.64131				0.60221		10.79052
	0.62843	0.54779	0.51297	0.50207								

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Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\CHEM\VOC4.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0 5000000	1.0000	5.0000	20 0000	50.0000	100 0000	Curve	b	Coefficients	m1	m2	RSR
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R^2
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
84 tert-Butylbenzene	+++++	1.48739	1.53473	1.31301	1.41453	1.33499	AVRG		1.32687			10.09590
	1.32022	1.19314	1.15335	1.19046								
85 1,2,4-Trimethylbenzene	+++++	2.22252	2.11176	1.76429	1.89732	1.77736	AVRG		1.87881			11.53669
	1.77236	1.60604	+++++	+++++								
86 sec-Butylbenzene	+++++	2.43123	2.34631	2.02867	2.19804	1.99404	AVRG		2.02601			12.83734
	1.99924	1.80794	1.69040	1.73820								
87 1,3-Dichlorobenzene	1.49683	1.46398	1.53807	1.47190	1.54954	1.64018	AVRG		1.51749			4.60891
	1.59301	1.45559	1.41140	1.55438								
88 4-Isopropyltoluene	1.77653	1.83669	1.68812	1.48554	1.56326	1.49709	AVRG		1.52855			12.35666
	1.47872	1.33988	1.28374	1.33591								

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INITIAL CALIBRATION DATA

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 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\CHEM\VOC4.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	ml	m2	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
90 1,4-Dichlorobenzene	1.71936	1.43275	1.57500	1.37328	1.50824	1.51923	AVRG		1.47535			8.28896
	1.54457	1.37783	1.30177	1.40150								
91 n-Butylbenzene	++++	4.68818	4.83556	4.55052	4.87224	4.85576	AVRG		4.54627			7.33627
	4.71536	4.22687	3.96424	4.20765								
92 1,2-Dichlorobenzene	1.14852	1.38233	1.44519	1.25888	1.37673	1.43086	AVRG		1.35528			7.48668
	1.46928	1.35954	1.26268	1.41881								
93 1,2-Dibromo-3-chloropropane	++++	0.46154	0.39319	0.36957	0.41381	0.44184	AVRG		0.40456			9.30767
	0.44104	0.39424	0.34952	0.37627								
94 1,2,4-Trichlorobenzene	++++	1.00244	1.13991	1.03470	1.18757	1.22078	AVRG		1.11483			8.74049
	1.27256	1.10465	1.00250	1.06835								

Report Date : 24-Jan-2001 11:09

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 22-JAN-2001 18:32
 End Cal Date : 22-JAN-2001 23:47
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method File : \\ETCDBC\CHEM\VOG4.i\V401231.B\V401221.8260.m
 Cal Date : 24-Jan-2001 08:47 erica

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients ml	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	120.0000	150.0000	170.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
\$ 57 Toluene-d8	1.63142	1.55174	1.45878	1.21767	1.31389	1.37587	AVRG		1.37568		10.05519
	1.28011	1.34911	1.20168	1.37638							
\$ 77 Bromofluorobenzene	+++++	0.94996	0.94411	0.75969	0.83596	0.80549	AVRG		0.80558		11.22900
	0.75072	0.78020	0.68712	0.73696							

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
GC/MS Semi-Volatiles**

ENVIRONMENTAL TESTING & CONSULTING, INC
GC/MS BNA Sequence Check List (SW-846)

Sequence ID B2020101System ID BNA2Date 2/2/01Analyst RF

Applicable ETC Order Nos. for this sequence:

0101-689

Validated

1. DFTPP Daily 12-Hour Tune Meets Criteria. No analysis begins until criteria are met. (SOP) /2. Degradation/Peak Tailing Check (may be combined with DFTPP Tune): /a. DDT to DDE/DDD $\leq 20\%$ Benzidine/PCP - Normal Response with no visible peak tailing. /2. Initial Calibration Verification Criteria - Method : B2012601.ma. SPCC - Mean RF ≥ 0.050 /b. CCC - RSD of RF for CCCs and Target Analytes MUST BE $\leq 30\%$ /c. RSD of analytes $\leq 15\%$ may use Average RF for quantitation /d. Analytes w/RSD $> 15\%$ use Linear Regression - correlation coefficient ≥ 0.99 /3. Calibration Verification - Each 12-Hour Shift TCL onlya. SPCC - RF ≥ 0.050 /b. CCC - % Difference for Average RF Calibration - $\leq 20\%$ /c. CCC - % Drift for Linear Regression Calibration - $\leq 20\%$ /d. % Difference/% Drift for all other Target Analytes - $\leq 30\%$ /e. Internal Standards - Retention Times within ± 30 seconds from Mid-Point ICAL STD /f. Internal Standards - Areas within (-50% to +100%) from Mid-Point ICAL STD /

3. Method Blanks included in this sequence :

Analyze for each analytical batch (20 samples): /

List compounds identified in Method Blank w/concentration.

Flag final result "B-Detected in Blank"

P06033104. Matrix Spike/Matrix Spike Duplicates included in this sequence: /Analyze for each analytical batch (20 samples) . List MS/MSD(s) performed with any failures : /P0 0101-689-5ms/msd0101-689-15ms/msd5. Laboratory Control Samples included in this sequence : /

Must contain all Target Analytes.

P06035LCS P06053LCS6. Surrogate Recoveries within QC Limits /7. All positive compounds within calibration range /

Narrative/Notes :

DFTPP TUNE/TAILING FACTOR/DEGRADATION SUMMARY RESULTS

DFTPP Ion Abundance/Ratio Criteria Chart

Ion	Abundance Criteria	Base Peak	Other	Test
198	Base Peak, 100% relative abundance	100.00		PASS
51	30 - 60% of mass 198	45.18		PASS
68	Less than 2% of mass 69	0.00	(0.00)	PASS
69	Mass 69 relative abundance	67.55		PASS
70	Less than 2% of mass 69	0.23	(0.34)	PASS
127	40 - 60% of mass 198	51.52		PASS
197	0 - 1% of mass 198	0.00		PASS
199	5 - 9% of mass 198	6.47		PASS
275	10 - 30% of mass 198	16.81		PASS
365	Greater than 1% of mass 198	1.48		PASS
441	Present, but less than mass 443	7.41	(75.73)	PASS
442	Greater than 40% of mass 198	51.79		PASS
443	17 - 23% of mass 442	9.78	(18.89)	PASS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.3105882	5.000	PASS
Benzidine	0.0000000	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	641373			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	0	0.0	15.0	PASS
4,4-DDD + DDE	0	0.0	15.0	PASS

Tuning Sample, //ETCBDC/DD/chem/bna2.i/B2020101.B/0101001.D/0101001.D, *** PASSED **

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID: 0101001

DFTPP Injection Date: 02/01/01

Instrument ID: BNA2

DFTPP Injection Time: 1349

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	67.5
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	51.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	16.8
365	Greater than 1.0% of mass 198	1.48
441	Present, but less than mass 443	7.4
442	Greater than 40.0% of mass 198	51.8
443	17.0 - 23.0% of mass 442	9.8 (18.9)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DCS 50.0 NG/		0201002	02/01/01	1403
02	P06053LB		0301003	02/01/01	1437
03	P06053LCS		0401004	02/01/01	1510
04	0101-689-1		0501005	02/01/01	1543
05	0101-689-2		0601006	02/01/01	1616
06	0101-689-3		0701007	02/01/01	1649
07	0101-689-4		0801008	02/01/01	1723
08	0101-689-5		0901009	02/01/01	1757
09	0101-689-6		1001010	02/01/01	1831
10	0101-689-7		1101011	02/01/01	1904
11	0101-689-8		1201012	02/01/01	1938
12	0101-689-9		1301013	02/01/01	2012
13	0101-689-10		1401014	02/01/01	2046
14	0101-689-11		1501015	02/01/01	2120
15	0101-689-12		1601016	02/01/01	2154
16	0101-689-13		1701017	02/01/01	2227
17	0101-689-14		1801018	02/01/01	2301
18	0101-689-15		1901019	02/01/01	2335
19	0101-689-16		2001020	02/02/01	0009
20	0101-689-17		2101021	02/02/01	0043
21	0101-689-18		2201022	02/02/01	0117
22					

FORM 7
BNA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: BNA2

Calibration Date: 02/01/01 Time: 1403

Lab File ID: 0201002

Init. Calib. Date(s): 01/26/01 01/26/01

Init. Calib. Times: 1722 2209

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene	49.66	50.00	AVRG	0.7	20.0
2,4-Dinitrotoluene	57.55	50.00	AVRG	15.1	30.0
Hexachlorobenzene	41.92	50.00	AVRG	16.2	30.0
Hexachlorobutadiene	44.77	50.00	AVRG	10.5	20.0
Hexachloroethane	47.73	50.00	AVRG	4.5	30.0
2-Methylphenol	54.44	50.00	AVRG	8.9	30.0
3&4-Methylphenol	55.46	50.00	AVRG	10.9	30.0
Nitrobenzene	48.61	50.00	AVRG	2.8	30.0
Pentachlorophenol	59.91	50.00	LINR	19.8	20.0
Pyridine	52.94	50.00	AVRG	5.9	30.0
2,4,5-Trichlorophenol	61.32	50.00	AVRG	22.6	30.0
2,4,6-Trichlorophenol	58.40	50.00	AVRG	16.8	20.0
=====	=====	=====	=====	=====	=====
Nitrobenzene-d5	46.44	50.00	AVRG	7.1	30.0
2-Fluorobiphenyl	46.76	50.00	AVRG	6.5	30.0
Terphenyl-d14	77.13	50.00	AVRG	54.3	30.0
Phenol-d6	51.99	50.00	AVRG	4.0	30.0
2,4,6-Tribromophenol	55.91	50.00	AVRG	11.8	30.0
2-Fluorophenol	54.63	50.00	AVRG	9.3	30.0

<-

FORM 8
BNA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201002

Date Analyzed: 02/01/01

Instrument ID: BNA2

Time Analyzed: 1403

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	1044817	5.51	3993436	6.76	1860107	9.29
UPPER LIMIT	2089634	6.01	7986872	7.26	3720214	9.79
LOWER LIMIT	522409	5.01	1996718	6.26	930054	8.79
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 P06053LB	807793	5.50	3066817	6.76	1465017	9.28
02 P06053LCS	1088657	5.51	4243091	6.76	2001559	9.29
03 0101-689-1	982125	5.50	3747796	6.76	1787202	9.28
04 0101-689-2	1025946	5.51	4009233	6.76	1919904	9.28
05 0101-689-3	1070231	5.51	4163500	6.76	1947240	9.29
06 0101-689-4	1133235	5.51	4353578	6.76	2046879	9.29
07 0101-689-5	830984	5.51	3250063	6.76	1549017	9.28
08 0101-689-6	812800	5.51	3265606	6.76	1603819	9.28
09 0101-689-7	1014286	5.51	3919797	6.76	1870138	9.29
10 0101-689-8	963021	5.51	3829168	6.76	1786093	9.28
11 0101-689-9	911285	5.51	3525081	6.76	1687947	9.29
12 0101-689-10	1121131	5.51	4321107	6.76	2023747	9.29
13 0101-689-11	1181864	5.51	4555699	6.76	2131304	9.29
14 0101-689-12	1110036	5.51	4366701	6.76	2037777	9.28
15 0101-689-13	1015130	5.51	3957924	6.76	1850640	9.29
16 0101-689-14	1100190	5.51	4284671	6.76	2042565	9.29
17 0101-689-15	871512	5.51	3426103	6.76	1611761	9.28
18 0101-689-16	1009451	5.51	3963138	6.76	1875402	9.29
19 0101-689-17	1000066	5.51	3995430	6.76	1867723	9.29
20 0101-689-18	965738	5.51	3769783	6.76	1743181	9.28
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
BNA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201002

Date Analyzed: 02/01/01

Instrument ID: BNA2

Time Analyzed: 1403

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	2696759	12.00	329837	17.19	99134	19.93
	UPPER LIMIT	5393518	12.50	659674	17.69	198268	20.43
	LOWER LIMIT	1348380	11.50	164919	16.69	49567	19.43
	=====	=====	=====	=====	=====	=====	=====
	CLIENT SAMPLE NO.						
	=====	=====	=====	=====	=====	=====	=====
01	P06053LB	2098553	11.99	742650*	17.19	242822*	19.93
02	P06053LCS	2701059	11.99	962881*	17.19	373734*	19.93
03	0101-689-1	2675630	11.99	981199*	17.20	297869*	19.93
04	0101-689-2	2705130	11.99	848427*	17.19	285213*	19.93
05	0101-689-3	2586017	11.99	862418*	17.19	300176*	19.93
06	0101-689-4	2944354	11.99	901545*	17.20	301655*	19.94
07	0101-689-5	2107103	11.98	653308	17.20	197852	19.93
08	0101-689-6	2380893	11.98	720783*	17.20	225595*	19.93
09	0101-689-7	2777039	11.99	844168*	17.20	324727*	19.93
10	0101-689-8	2315290	11.99	818205*	17.19	338176*	19.93
11	0101-689-9	2376957	11.99	694620*	17.20	237925*	19.93
12	0101-689-10	2865207	11.99	718050*	17.19	212788*	19.93
13	0101-689-11	2892296	11.99	865390*	17.19	335133*	19.93
14	0101-689-12	2850401	11.99	777823*	17.19	234903*	19.93
15	0101-689-13	2479833	11.99	777667*	17.20	280311*	19.94
16	0101-689-14	2879553	11.99	784838*	17.20	255619*	19.94
17	0101-689-15	2267465	11.98	612181	17.19	172345	19.93
18	0101-689-16	2513908	11.99	682679*	17.20	227752*	19.93
19	0101-689-17	2635503	11.99	643296	17.19	184901	19.93
20	0101-689-18	2331005	11.99	642983	17.20	182625	19.93
21							
22							

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

ENVIRONMENTAL TESTING & CONSULTING, INC
GC/MS BNA Sequence Check List (SW-846)

Sequence ID B2020201.bSystem ID BNA 2Date 2/2/01Analyst JP

Applicable ETC Order Nos. for this sequence:

0101-689

Validated

1. DFTPP Daily 12-Hour Tune Meets Criteria. No analysis begins until criteria are met. (SOP) ✓2. Degradation/Peak Tailing Check (may be combined with DFTPP Tune): ✓a. DDT to DDE/DDD $\leq 20\%$ Benzidine/PCP - Normal Response with no visible peak tailing. ✓2. Initial Calibration Verification Criteria - Method : B2012601.ma. SPCC - Mean RF ≥ 0.050 ✓b. CCC - RSD of RF for CCCs and Target Analytes MUST BE $\leq 30\%$ ✓c. RSD of analytes $\leq 15\%$ may use Average RF for quantitation ✓d. Analytes w/RSD $> 15\%$ use Linear Regression - correlation coefficient ≥ 0.99 ✓

3. Calibration Verification - Each 12-Hour Shift

a. SPCC - RF ≥ 0.050 ✓b. CCC - % Difference for Average RF Calibration - $\leq 20\%$ ✓c. CCC - % Drift for Linear Regression Calibration - $\leq 20\%$ ✓d. % Difference/ % Drift for all other Target Analytes - $\leq 30\%$ ✓e. Internal Standards - Retention Times within ± 30 seconds from Mid-Point ICAL STD ✓f. Internal Standards - Areas within (-50% to +100%) from Mid-Point ICAL STD ✓

3. Method Blanks included in this sequence :

Analyze for each analytical batch (20 samples): NA

List compounds identified in Method Blank w/concentration.

Flag final result "B-Detected in Blank"

----- 4. Matrix Spike/Matrix Spike Duplicates included in this sequence: -----

Analyze for each analytical batch (20 samples) . List MS/MSD(s) performed with any failures : ✓0101 - 689 - 5ms/msD0101 - 689 - 15ms/msD5. Laboratory Control Samples included in this sequence : NA

Must contain all Target Analytes.

6. Surrogate Recoveries within QC Limits ✓7. All positive compounds within calibration range ✓

Narrative/Notes :

DFTPP TUNE/TAILING FACTOR/DEGRADATION SUMMARY RESULTS

DFTPP Ion Abundance/Ratio Criteria Chart

Ion	Abundance Criteria	Base Peak	Other	Test
198	Base Peak, 100% relative abundance	100.00		PASS
51	30 - 60% of mass 198	39.02		PASS
68	Less than 2% of mass 69	0.01	(0.02)	PASS
69	Mass 69 relative abundance	61.05		PASS
70	Less than 2% of mass 69	0.10	(0.16)	PASS
127	40 - 60% of mass 198	49.87		PASS
197	0 - 1% of mass 198	0.00		PASS
199	5 - 9% of mass 198	6.79		PASS
275	10 - 30% of mass 198	17.56		PASS
365	Greater than 1% of mass 198	1.29		PASS
441	Present, but less than mass 443	7.62	(73.25)	PASS
442	Greater than 40% of mass 198	53.66		PASS
443	17 - 23% of mass 442	10.41	(19.39)	PASS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.0577125	5.000	PASS
Benzidine	0.7049180	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1591745			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	0	0.0	15.0	PASS
4,4-DDD + DDE	0	0.0	15.0	PASS

Tuning Sample, //ETCBDC/DD/chem/bna2.i/B2020201.B/0101001.D/0101001.D,*** PASSED **

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID: 0101001

DFTPP Injection Date: 02/02/01

Instrument ID: BNA2

DFTPP Injection Time: 0755

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	61.0
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	49.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	17.6
365	Greater than 1.0% of mass 198	1.29
441	Present, but less than mass 443	7.6
442	Greater than 40.0% of mass 198	53.7
443	17.0 - 23.0% of mass 442	10.4 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DCS 50.0 NG/		0201002	02/02/01	0810
02	0101-689-19		2301003	02/02/01	0844
03	0101-689-5MS		2401004	02/02/01	0917
04	0101-689-5MS		2501005	02/02/01	0950
05	0101-689-15M		2601006	02/02/01	1024
06	0101-689-15M		2701007	02/02/01	1058
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7
BNA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Instrument ID: BNA2

Calibration Date: 02/02/01

Time: 0810

Lab File ID: 0201002

Init. Calib. Date(s): 01/26/01

01/26/01

Init. Calib. Times: 1722

2209

GC Column: DB-5MS

ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene	49.98	50.00	AVRG	0.0	20.0
2,4-Dinitrotoluene	58.84	50.00	AVRG	17.7	30.0
Hexachlorobenzene	41.96	50.00	AVRG	16.1	30.0
Hexachlorobutadiene	45.56	50.00	AVRG	8.9	20.0
Hexachloroethane	45.71	50.00	AVRG	8.6	30.0
2-Methylphenol	53.82	50.00	AVRG	7.6	30.0
3&4-Methylphenol	55.24	50.00	AVRG	10.5	30.0
Nitrobenzene	45.95	50.00	AVRG	8.1	30.0
Pentachlorophenol	58.95	50.00	LINR	17.9	20.0
Pyridine	51.16	50.00	AVRG	2.3	30.0
2,4,5-Trichlorophenol	61.88	50.00	AVRG	23.8	30.0
2,4,6-Trichlorophenol	58.08	50.00	AVRG	16.2	20.0
=====	=====	=====	=====	=====	=====
Nitrobenzene-d5	45.44	50.00	AVRG	9.1	30.0
2-Fluorobiphenyl	47.88	50.00	AVRG	4.2	30.0
Terphenyl-d14	77.38	50.00	AVRG	54.8	30.0
Phenol-d6	52.12	50.00	AVRG	4.2	30.0
2,4,6-Tribromophenol	57.28	50.00	AVRG	14.6	30.0
2-Fluorophenol	53.74	50.00	AVRG	7.5	30.0

<-

FORM 8
BNA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201002

Date Analyzed: 02/02/01

Instrument ID: BNA2

Time Analyzed: 0810

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	821011	5.50	3260512	6.76	1479546	9.28
UPPER LIMIT	1642022	6.00	6521024	7.26	2959092	9.78
LOWER LIMIT	410506	5.00	1630256	6.26	739773	8.78
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 0101-689-19	1086777	5.50	4236255	6.75	2000729	9.27
02 0101-689-5MS	1138688	5.51	4592722	6.75	2232823	9.27
03 0101-689-5MS	1077957	5.50	4517182	6.75	2120340	9.27
04 0101-689-15M	970777	5.50	3891280	6.75	1810288	9.27
05 0101-689-15M	1024817	5.51	4071877	6.75	1890324	9.28
06						
07						
08						
09						
10						
11						
12						
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14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
BNA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0101-689

Lab File ID (Standard): 0201002

Date Analyzed: 02/02/01

Instrument ID: BNA2

Time Analyzed: 0810

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	2102009	11.98	267476	17.18	86401	19.92
UPPER LIMIT	4204018	12.48	534952	17.68	172802	20.42
LOWER LIMIT	1051005	11.48	133738	16.68	43201	19.42
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 0101-689-19	2874452	11.98	776427*	17.18	286159*	19.92
02 0101-689-5MS	3119023	11.98	807759*	17.19	229874*	19.92
03 0101-689-5MS	2995929	11.99	698728*	17.18	195775*	19.92
04 0101-689-15M	2559571	11.98	640600*	17.18	200494*	19.92
05 0101-689-15M	2586691	11.98	723597*	17.18	282703*	19.92
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

656 284

2/21/01
ML 2/21/01FORM 6
BNA-GCMS INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: B2012601

Instrument ID: BNA2

Calibration Date(s): 01/26/01 01/26/01

Column: DB-5MS

ID: 0.25 (mm)

Calibration Time(s): 1722 2209

LAB FILE ID: RF2: 0301004
RF20: 0601007

RF5: 0401005

RF10: 0501006

RF50: 0202003

COMPOUND	RF2	RF5	RF10	RF20	RF50
=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene	1.655	1.700	1.658	1.625	1.563
2,4-Dinitrotoluene	0.215	0.256	0.287	0.296	0.314
Hexachlorobenzene	0.303	0.288	0.271	0.269	0.254
Hexachlorobutadiene	0.194	0.197	0.181	0.178	0.182
Hexachloroethane	0.207	0.209	0.194	0.192	0.192
2-Methylphenol	0.992	1.063	1.030	1.036	1.064
3&4-Methylphenol	1.246	1.250	1.222	1.210	1.309
Nitrobenzene	0.487	0.495	0.467	0.471	0.460
Pentachlorophenol		0.057	0.066	0.081	0.124
Pyridine	1.805	1.698	1.870	1.871	1.764
2,4,5-Trichlorophenol	0.246	0.313	0.330	0.339	0.387
2,4,6-Trichlorophenol	0.266	0.330	0.351	0.369	0.420
=====	=====	=====	=====	=====	=====
Nitrobenzene-d5	0.492	0.485	0.462	0.470	0.457
2-Fluorobiphenyl	1.464	1.371	1.331	1.361	1.301
Terphenyl-d14	1.399	1.447	1.516	1.411	1.415
Phenol-d6	1.920	1.937	1.909	1.924	1.987
2,4,6-Tribromophenol		0.038	0.040	0.045	0.054
2-Fluorophenol	1.468	1.497	1.453	1.489	1.547

FORM VI BNA-GCMS

000188

FORM 6
BNA-GCMS INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: B2012601

Instrument ID: BNA2

Calibration Date(s): 01/26/01 01/26/01

Column: DB-5MS

ID: 0.25 (mm)

Calibration Time(s): 1722

2209

LAB FILE ID:

RF80: 0701008

RF100: 0801009

RF120: 0901010

RF160: 1001011

COMPOUND	RF80	RF100	RF120	RF160
=====	=====	=====	=====	=====
1,4-Dichlorobenzene	1.630	1.602	1.629	1.553
2,4-Dinitrotoluene	0.300	0.295	0.317	
Hexachlorobenzene	0.255	0.257	0.254	0.263
Hexachlorobutadiene	0.175	0.172	0.176	
Hexachloroethane	0.189	0.186	0.187	0.180
2-Methylphenol	0.980	1.009	0.952	0.995
3&4-Methylphenol	1.239	1.224	1.279	0.790
Nitrobenzene	0.456	0.456	0.459	0.455
Pentachlorophenol	0.117	0.122	0.121	0.131
Pyridine	1.718	1.692	1.685	1.602
2,4,5-Trichlorophenol	0.365	0.358	0.364	0.354
2,4,6-Trichlorophenol	0.398	0.426	0.411	
=====	=====	=====	=====	=====
Nitrobenzene-d5	0.458	0.460	0.450	0.438
2-Fluorobiphenyl	1.293	1.324	1.297	1.279
Terphenyl-d14	1.669	1.692	1.643	1.320
Phenol-d6	1.858	1.873	1.857	1.748
2,4,6-Tribromophenol	0.050	0.052	0.050	0.058
2-Fluorophenol	1.421	1.411	1.403	1.460
=====	=====	=====	=====	=====

FORM 6
BNA-GCMS INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: B2012601

Instrument ID: BNA2

Calibration Date(s): 01/26/01 01/26/01

Column: DB-5MS

ID: 0.25 (mm)

Calibration Time(s): 1722

2209

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		A0	A1	
=====	=====	=====	=====	=====
1,4-Dichlorobenzene	AVRG		1.62393008	2.8
2,4-Dinitrotoluene	AVRG		0.28488679	11.9
Hexachlorobenzene	AVRG		0.26823858	6.4
Hexachlorobutadiene	AVRG		0.18181672	5.1
Hexachloroethane	AVRG		0.19289018	4.9
2-Methylphenol	AVRG		1.01334006	3.7
3&4-Methylphenol	AVRG		1.19664366	13.0
Nitrobenzene	AVRG		0.46742860	3.2
* Pentachlorophenol	LINR	0.14373909	7.58524572	0.997
Pyridine	AVRG		1.74515668	5.2
2,4,5-Trichlorophenol	AVRG		0.33966286	12.1
2,4,6-Trichlorophenol	AVRG		0.37145727	14.7
=====	=====	=====	=====	=====
Nitrobenzene-d5	AVRG		0.46371125	3.6
2-Fluorobiphenyl	AVRG		1.33593948	4.3
Terphenyl-d14	AVRG		1.50135420	9.0
Phenol-d6	AVRG		1.89044559	3.6
2,4,6-Tribromophenol	AVRG		4.845e-002	14.4
2-Fluorophenol	AVRG		1.46107771	3.2

* 90 ESD = 28.8



ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road • Memphis, TN 38111 • (901) 327-2750 • FAX (901) 327-6334
Founded 1972

March 2, 2001

Mr Jerry Girardea
Innovative Waste Management
P.O. Box 50397
Summerville, SC 29485-0397

Ref: Analytical Testing
ETC Order # 0102218
Project Description Dunn Field

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and/or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration was performed in accordance with guidelines established by the USPEA.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact our office if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads 'Chet Scheibel'.

Chet Scheibel
Laboratory Project Manager

rt
Attachment

INNOVWASTE

Certifications

Tennessee
Arkansas
Kentucky

#TN02027
#40730
#90047

Mississippi
Oklahoma
Virginia

#9311
#00106

Environmental Testing & Consulting, Inc.
Data Qualifiers for Organic Reporting

Within the attached report, some analytical data may be reported as "Qualified Data" as indicated by a "Data Qualifier" next to the result. This table summarizes the possible "Data Qualifiers" that may be associated with this report. These qualifiers do not apply for TIC reports.

Q	Surrogate Recovery Outside QC Limits
J	Estimated Value. Presence of the compound was confirmed but less than the reported detection limit.
E	Concentration exceeds the established method calibration range but is within the working range of the instrument.
B	Analyte detected in the associated Method Blank.
U	Reported result was unconfirmed. Refer to Case Narrative.
N	Non-Compliance Report associated with this sample or project.
C	Result reported from GC/MS confirmation analysis.
M	Result reported represents a minimum value. Refer to Case Narrative.
NC	Result reported from Primary Column. Result did not confirm.
*	QC Data (percent recovery/RPD for a particular analyte was outside QC Limits)

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **Dunn Field**

ETC Order #0102218

<u>ETC</u> <u>Sample ID</u>	<u>Field</u> <u>ID</u>	<u>Matrix</u>	<u>Method</u>	<u>Method Description</u>
010221801	DF/24-A/1038/SDC/009	SOIL	7.3.3	Reactive Cyanide
010221801	DF/24-A/1038/SDC/009	SOIL	1010	Ignitability/Flashpoint
010221801	DF/24-A/1038/SDC/009	SOIL	9045C	pH - Corrosivity
010221801	DF/24-A/1038/SDC/009	SOIL	7.3.4	Reactive Sulfide
010221801	DF/24-A/1038/SDC/009	SOIL	1311	TCLP Extraction
010221801	DF/24-A/1038/SDC/009	SOIL	6010B	Silver - TCLP
010221801	DF/24-A/1038/SDC/009	SOIL	6010B	Arsenic - TCLP
010221801	DF/24-A/1038/SDC/009	SOIL	6010B	Arsenic
010221801	DF/24-A/1038/SDC/009	SOIL	6010B	Barium - TCLP
010221801	DF/24-A/1038/SDC/009	SOIL	6010B	Cadmium - TCLP
010221801	DF/24-A/1038/SDC/009	SOIL	6010B	Chromium - TCLP
010221801	DF/24-A/1038/SDC/009	SOIL	7470A	Mercury - TCLP
010221801	DF/24-A/1038/SDC/009	SOIL	6010B	Lead - TCLP
010221801	DF/24-A/1038/SDC/009	SOIL	6010B	Selenium - TCLP
010221801	DF/24-A/1038/SDC/009	SOIL	8270C	TCLP Semivolatiles
010221801	DF/24-A/1038/SDC/009	SOIL	8151A	TCLP Herbicides
010221801	DF/24-A/1038/SDC/009	SOIL	8081A	TCLP Pesticides
010221801	DF/24-A/1038/SDC/009	SOIL	1311	TCLP Extraction Organics
010221801	DF/24-A/1038/SDC/009	SOIL	1311	TCLP Extraction ZHE
010221801	DF/24-A/1038/SDC/009	SOIL	8260B	TCLP Volatile Organics
010221802	DF/24-A/1038/SDC/010	SOIL	7.3.3	Reactive Cyanide
010221802	DF/24-A/1038/SDC/010	SOIL	1010	Ignitability/Flashpoint
010221802	DF/24-A/1038/SDC/010	SOIL	9045C	pH - Corrosivity
010221802	DF/24-A/1038/SDC/010	SOIL	7.3.4	Reactive Sulfide
010221802	DF/24-A/1038/SDC/010	SOIL	1311	TCLP Extraction
010221802	DF/24-A/1038/SDC/010	SOIL	6010B	Silver - TCLP
010221802	DF/24-A/1038/SDC/010	SOIL	6010B	Arsenic - TCLP
010221802	DF/24-A/1038/SDC/010	SOIL	6010B	Arsenic
010221802	DF/24-A/1038/SDC/010	SOIL	6010B	Barium - TCLP
010221802	DF/24-A/1038/SDC/010	SOIL	6010B	Cadmium - TCLP
010221802	DF/24-A/1038/SDC/010	SOIL	6010B	Chromium - TCLP
010221802	DF/24-A/1038/SDC/010	SOIL	7470A	Mercury - TCLP
010221802	DF/24-A/1038/SDC/010	SOIL	6010B	Lead - TCLP
010221802	DF/24-A/1038/SDC/010	SOIL	6010B	Selenium - TCLP
010221802	DF/24-A/1038/SDC/010	SOIL	8270C	TCLP Semivolatiles
010221802	DF/24-A/1038/SDC/010	SOIL	8151A	TCLP Herbicides
010221802	DF/24-A/1038/SDC/010	SOIL	8081A	TCLP Pesticides
010221802	DF/24-A/1038/SDC/010	SOIL	1311	TCLP Extraction Organics
010221802	DF/24-A/1038/SDC/010	SOIL	1311	TCLP Extraction ZHE
010221802	DF/24-A/1038/SDC/010	SOIL	8260B	TCLP Volatile Organics
010221803	DF/24-A/1038/SDC/011	SOIL	7.3.3	Reactive Cyanide
010221803	DF/24-A/1038/SDC/011	SOIL	1010	Ignitability/Flashpoint
010221803	DF/24-A/1038/SDC/011	SOIL	9045C	pH - Corrosivity
010221803	DF/24-A/1038/SDC/011	SOIL	7.3.4	Reactive Sulfide
010221803	DF/24-A/1038/SDC/011	SOIL	1311	TCLP Extraction
010221803	DF/24-A/1038/SDC/011	SOIL	6010B	Silver - TCLP
010221803	DF/24-A/1038/SDC/011	SOIL	6010B	Arsenic - TCLP
010221803	DF/24-A/1038/SDC/011	SOIL	6010B	Arsenic
010221803	DF/24-A/1038/SDC/011	SOIL	6010B	Barium - TCLP
010221803	DF/24-A/1038/SDC/011	SOIL	6010B	Cadmium - TCLP
010221803	DF/24-A/1038/SDC/011	SOIL	6010B	Chromium - TCLP
010221803	DF/24-A/1038/SDC/011	SOIL	7470A	Mercury - TCLP
010221803	DF/24-A/1038/SDC/011	SOIL	6010B	Lead - TCLP
010221803	DF/24-A/1038/SDC/011	SOIL	6010B	Selenium - TCLP
010221803	DF/24-A/1038/SDC/011	SOIL	8270C	TCLP Semivolatiles

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **Dunn Field**

ETC Order #0102218

<u>ETC Sample ID</u>	<u>Field ID</u>	<u>Matrix</u>	<u>Method</u>	<u>Method Description</u>
010221803	DF/24-A/1038/SDC/011	SOIL	8151A	TCLP Herbicides
010221803	DF/24-A/1038/SDC/011	SOIL	8081A	TCLP Pesticides
010221803	DF/24-A/1038/SDC/011	SOIL	1311	TCLP Extraction Organics
010221803	DF/24-A/1038/SDC/011	SOIL	1311	TCLP Extraction ZHE
010221803	DF/24-A/1038/SDC/011	SOIL	8260B	TCLP Volatile Organics
010221804	DF/24-A/1038/SDC/012	SOIL	7.3.3	Reactive Cyanide
010221804	DF/24-A/1038/SDC/012	SOIL	1010	Ignitability/Flashpoint
010221804	DF/24-A/1038/SDC/012	SOIL	9045C	pH - Corrosivity
010221804	DF/24-A/1038/SDC/012	SOIL	7.3.4	Reactive Sulfide
010221804	DF/24-A/1038/SDC/012	SOIL	1311	TCLP Extraction
010221804	DF/24-A/1038/SDC/012	SOIL	6010B	Silver - TCLP
010221804	DF/24-A/1038/SDC/012	SOIL	6010B	Arsenic - TCLP
010221804	DF/24-A/1038/SDC/012	SOIL	6010B	Arsenic
010221804	DF/24-A/1038/SDC/012	SOIL	6010B	Barium - TCLP
010221804	DF/24-A/1038/SDC/012	SOIL	6010B	Cadmium - TCLP
010221804	DF/24-A/1038/SDC/012	SOIL	6010B	Chromium - TCLP
010221804	DF/24-A/1038/SDC/012	SOIL	7470A	Mercury - TCLP
010221804	DF/24-A/1038/SDC/012	SOIL	6010B	Lead - TCLP
010221804	DF/24-A/1038/SDC/012	SOIL	6010B	Selenium - TCLP
010221804	DF/24-A/1038/SDC/012	SOIL	8270C	TCLP Semivolatiles
010221804	DF/24-A/1038/SDC/012	SOIL	8151A	TCLP Herbicides
010221804	DF/24-A/1038/SDC/012	SOIL	8081A	TCLP Pesticides
010221804	DF/24-A/1038/SDC/012	SOIL	1311	TCLP Extraction Organics
010221804	DF/24-A/1038/SDC/012	SOIL	1311	TCLP Extraction ZHE
010221804	DF/24-A/1038/SDC/012	SOIL	8260B	TCLP Volatile Organics
010221805	DF/24-A/1038/SDC/013	SOIL	7.3.3	Reactive Cyanide
010221805	DF/24-A/1038/SDC/013	SOIL	1010	Ignitability/Flashpoint
010221805	DF/24-A/1038/SDC/013	SOIL	9045C	pH - Corrosivity
010221805	DF/24-A/1038/SDC/013	SOIL	7.3.4	Reactive Sulfide
010221805	DF/24-A/1038/SDC/013	SOIL	1311	TCLP Extraction
010221805	DF/24-A/1038/SDC/013	SOIL	6010B	Silver - TCLP
010221805	DF/24-A/1038/SDC/013	SOIL	6010B	Arsenic - TCLP
010221805	DF/24-A/1038/SDC/013	SOIL	6010B	Arsenic
010221805	DF/24-A/1038/SDC/013	SOIL	6010B	Barium - TCLP
010221805	DF/24-A/1038/SDC/013	SOIL	6010B	Cadmium - TCLP
010221805	DF/24-A/1038/SDC/013	SOIL	6010B	Chromium - TCLP
010221805	DF/24-A/1038/SDC/013	SOIL	7470A	Mercury - TCLP
010221805	DF/24-A/1038/SDC/013	SOIL	6010B	Lead - TCLP
010221805	DF/24-A/1038/SDC/013	SOIL	6010B	Selenium - TCLP
010221805	DF/24-A/1038/SDC/013	SOIL	8270C	TCLP Semivolatiles
010221805	DF/24-A/1038/SDC/013	SOIL	8151A	TCLP Herbicides
010221805	DF/24-A/1038/SDC/013	SOIL	8081A	TCLP Pesticides
010221805	DF/24-A/1038/SDC/013	SOIL	1311	TCLP Extraction Organics
010221805	DF/24-A/1038/SDC/013	SOIL	1311	TCLP Extraction ZHE
010221805	DF/24-A/1038/SDC/013	SOIL	8260B	TCLP Volatile Organics
010221806	DF/24-A/1038/SDC/014	SOIL	7.3.3	Reactive Cyanide
010221806	DF/24-A/1038/SDC/014	SOIL	1010	Ignitability/Flashpoint
010221806	DF/24-A/1038/SDC/014	SOIL	9045C	pH - Corrosivity
010221806	DF/24-A/1038/SDC/014	SOIL	7.3.4	Reactive Sulfide
010221806	DF/24-A/1038/SDC/014	SOIL	1311	TCLP Extraction
010221806	DF/24-A/1038/SDC/014	SOIL	6010B	Silver - TCLP
010221806	DF/24-A/1038/SDC/014	SOIL	6010B	Arsenic - TCLP
010221806	DF/24-A/1038/SDC/014	SOIL	6010B	Arsenic
010221806	DF/24-A/1038/SDC/014	SOIL	6010B	Barium - TCLP
010221806	DF/24-A/1038/SDC/014	SOIL	6010B	Cadmium - TCLP

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **Dunn Field**

ETC Order #0102218

<u>ETC</u> <u>Sample ID</u>	<u>Field</u> <u>ID</u>	<u>Matrix</u>	<u>Method</u>	<u>Method Description</u>
010221806	DF/24-A/1038/SDC/014	SOIL	6010B	Chromium - TCLP
010221806	DF/24-A/1038/SDC/014	SOIL	7470A	Mercury - TCLP
010221806	DF/24-A/1038/SDC/014	SOIL	6010B	Lead - TCLP
010221806	DF/24-A/1038/SDC/014	SOIL	6010B	Selenium - TCLP
010221806	DF/24-A/1038/SDC/014	SOIL	8270C	TCLP Semivolatiles
010221806	DF/24-A/1038/SDC/014	SOIL	8151A	TCLP Herbicides
010221806	DF/24-A/1038/SDC/014	SOIL	8081A	TCLP Pesticides
010221806	DF/24-A/1038/SDC/014	SOIL	1311	TCLP Extraction Organics
010221806	DF/24-A/1038/SDC/014	SOIL	1311	TCLP Extraction ZHE
010221806	DF/24-A/1038/SDC/014	SOIL	8260B	TCLP Volatile Organics
010221807	DF/24-A/1038/SDC/015	SOIL	7.3.3	Reactive Cyanide
010221807	DF/24-A/1038/SDC/015	SOIL	1010	Ignitability/Flashpoint
010221807	DF/24-A/1038/SDC/015	SOIL	9045C	pH - Corrosivity
010221807	DF/24-A/1038/SDC/015	SOIL	7.3.4	Reactive Sulfide
010221807	DF/24-A/1038/SDC/015	SOIL	1311	TCLP Extraction
010221807	DF/24-A/1038/SDC/015	SOIL	6010B	Silver - TCLP
010221807	DF/24-A/1038/SDC/015	SOIL	6010B	Arsenic - TCLP
010221807	DF/24-A/1038/SDC/015	SOIL	6010B	Arsenic
010221807	DF/24-A/1038/SDC/015	SOIL	6010B	Barium - TCLP
010221807	DF/24-A/1038/SDC/015	SOIL	6010B	Cadmium - TCLP
010221807	DF/24-A/1038/SDC/015	SOIL	6010B	Chromium - TCLP
010221807	DF/24-A/1038/SDC/015	SOIL	7470A	Mercury - TCLP
010221807	DF/24-A/1038/SDC/015	SOIL	6010B	Lead - TCLP
010221807	DF/24-A/1038/SDC/015	SOIL	6010B	Selenium - TCLP
010221807	DF/24-A/1038/SDC/015	SOIL	8270C	TCLP Semivolatiles
010221807	DF/24-A/1038/SDC/015	SOIL	8151A	TCLP Herbicides
010221807	DF/24-A/1038/SDC/015	SOIL	8081A	TCLP Pesticides
010221807	DF/24-A/1038/SDC/015	SOIL	1311	TCLP Extraction Organics
010221807	DF/24-A/1038/SDC/015	SOIL	1311	TCLP Extraction ZHE
010221807	DF/24-A/1038/SDC/015	SOIL	8260B	TCLP Volatile Organics
010221808	DF/24-A/1038/SDC/016	SOIL	7.3.3	Reactive Cyanide
010221808	DF/24-A/1038/SDC/016	SOIL	1010	Ignitability/Flashpoint
010221808	DF/24-A/1038/SDC/016	SOIL	9045C	pH - Corrosivity
010221808	DF/24-A/1038/SDC/016	SOIL	7.3.4	Reactive Sulfide
010221808	DF/24-A/1038/SDC/016	SOIL	1311	TCLP Extraction
010221808	DF/24-A/1038/SDC/016	SOIL	6010B	Silver - TCLP
010221808	DF/24-A/1038/SDC/016	SOIL	6010B	Arsenic - TCLP
010221808	DF/24-A/1038/SDC/016	SOIL	6010B	Arsenic
010221808	DF/24-A/1038/SDC/016	SOIL	6010B	Barium - TCLP
010221808	DF/24-A/1038/SDC/016	SOIL	6010B	Cadmium - TCLP
010221808	DF/24-A/1038/SDC/016	SOIL	6010B	Chromium - TCLP
010221808	DF/24-A/1038/SDC/016	SOIL	7470A	Mercury - TCLP
010221808	DF/24-A/1038/SDC/016	SOIL	6010B	Lead - TCLP
010221808	DF/24-A/1038/SDC/016	SOIL	6010B	Selenium - TCLP
010221808	DF/24-A/1038/SDC/016	SOIL	8270C	TCLP Semivolatiles
010221808	DF/24-A/1038/SDC/016	SOIL	8151A	TCLP Herbicides
010221808	DF/24-A/1038/SDC/016	SOIL	8081A	TCLP Pesticides
010221808	DF/24-A/1038/SDC/016	SOIL	1311	TCLP Extraction Organics
010221808	DF/24-A/1038/SDC/016	SOIL	1311	TCLP Extraction ZHE
010221808	DF/24-A/1038/SDC/016	SOIL	8260B	TCLP Volatile Organics
010221809	DF/24-A/1038/Grab/055	SOIL	7.3.3	Reactive Cyanide
010221809	DF/24-A/1038/Grab/055	SOIL	1010	Ignitability/Flashpoint
010221809	DF/24-A/1038/Grab/055	SOIL	9045C	pH - Corrosivity
010221809	DF/24-A/1038/Grab/055	SOIL	7.3.4	Reactive Sulfide
010221809	DF/24-A/1038/Grab/055	SOIL	1311	TCLP Extraction

ENVIRONMENTAL TESTING & CONSULTING, INC.
 2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750
ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **Dunn Field**

ETC Order #0102218

ETC	Field	Matrix	Method	Method Description
<u>Sample ID</u>	<u>ID</u>			
010221809	DF/24-A/1038/Grab/055	SOIL	6010B	Silver - TCLP
010221809	DF/24-A/1038/Grab/055	SOIL	6010B	Arsenic - TCLP
010221809	DF/24-A/1038/Grab/055	SOIL	6010B	Arsenic
010221809	DF/24-A/1038/Grab/055	SOIL	6010B	Barium - TCLP
010221809	DF/24-A/1038/Grab/055	SOIL	6010B	Cadmium - TCLP
010221809	DF/24-A/1038/Grab/055	SOIL	6010B	Chromium - TCLP
010221809	DF/24-A/1038/Grab/055	SOIL	7470A	Mercury - TCLP
010221809	DF/24-A/1038/Grab/055	SOIL	6010B	Lead - TCLP
010221809	DF/24-A/1038/Grab/055	SOIL	6010B	Selenium - TCLP
010221809	DF/24-A/1038/Grab/055	SOIL	8270C	TCLP Semivolatiles
010221809	DF/24-A/1038/Grab/055	SOIL	8151A	TCLP Herbicides
010221809	DF/24-A/1038/Grab/055	SOIL	8081A	TCLP Pesticides
010221809	DF/24-A/1038/Grab/055	SOIL	1311	TCLP Extraction Organics
010221809	DF/24-A/1038/Grab/055	SOIL	1311	TCLP Extraction ZHE
010221809	DF/24-A/1038/Grab/055	SOIL	8260B	TCLP Volatile Organics

000005

Environmental Testing & Consulting, Inc.

Login
Chain-of-Custody



Environmental Testing & Consulting, Inc.
2924 Walnut Grove Rd.
Memphis, TN 38111
(901)327-2750 FAX (901)327-6334

CHAIN OF CUSTODY RECORD

ETC Work Order :

0102218
Refer to 155.0

Company Name UAB Int.		Phone # : Fax # :		Fax Results RUSH		Analysis Requested (Note special detection limits or methods)										
Project/Site Duan Field		FID # : PO # :		loc												
Project #		Matrix		1 Wastewater		4 Sludge		5 Oil/Solvent		6 Other						
Project Manager/Contact Jim Dunkle		2 Aqueous		3 Soil/Sediment												
# of cont.	Sample ID/ Number	Depth	Sample Date	Sample Time	Matrix	Type Grab/Comp										
1	DF/24-A/1038/SDC/009		2/7/01		3	Comp	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1	DF/24-A/1038/SDC/010		2/7/01		3	Comp	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1	DF/24-A/1038/SDC/011		2/7/01		3	Comp	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1	DF/24-A/1038/SDC/012		2/7/01		3	Comp	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1	DF/24-A/1038/SDC/013		2/7/01		3	Comp	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1	DF/24-A/1038/SDC/014		2/7/01		3	Comp	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1	DF/24-A/1038/SDC/015		2/7/01		3	Comp	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1	DF/24-A/1038/SDC/016		2/7/01		3	Comp	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1	DF/24-A/1038/SDC/017															
1	DF/24-A/1038/SDC/055		2/7/01		3	Grab	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Sampled By Chris Rose		Method of Shipment Hand		Blank/Cooler Temp 4°C		Remarks										
RELINQUISHED BY (sign) Chris Rose		DATE 2/7/01		TIME 1645		RECEIVED BY (sign)		DATE		TIME		Sample Delivery Group ID				
RELINQUISHED BY (sign)		DATE		TIME		RECEIVED BY (sign)		DATE		TIME						
RELINQUISHED BY (sign)		DATE		TIME		RECEIVED BY LAB (print/sign) Rose		DATE 2/7/01		TIME 1645						

Distribution : Original and Yellow accompany samples to the laboratory. Pink copy for Field Crew.
Original copy returned with results. Yellow copy for ETC, Inc. files.



Environmental Testing & Consulting, Inc.
2924 Walnut Grove Rd.
Memphis, TN 38111
(901)327-2750 FAX (901)327-6334

CHAIN OF CUSTODY RECORD

ETC Work Order : 0102218

Company Name UAB Int		Phone # :		Fax Results		Analysis Requested											
Project/Site Dunn Field		Fax # :		RUSH		(Note special detection limits or methods)											
Project #		FID # :		Ice													
Matrix		PO # :															
		1 Wastewater		4 Sludge													
		2 Aqueous		5 Oil/Solvent													
		3 Soil/Sediment		6 Other													
# of Cont.	Sample ID/Number	Depth	Sample Date	Sample Time	Matrix	Type	Grab/Comp	Comments									
	DF/24-A/1053/SDC/009		2/22/01	1315	Soil	Comp		No Sample									
	DF/24-A/1053/SDC/010		2/22/01	1340	Soil	Comp		No Sample									
	DF/24-A/1053/SDC/011		2/22/01	1343	Soil	Comp		No Sample									
	DF/24-A/1053/GRAB/055		2/22/01	1346	Soil	Comp		No Sample									
	DF/24-A/1053/SDC/012		2/22/01	1353	Soil	Comp		No Sample									
	DF/24-A/1053/SDC/013		2/22/01	1356	Soil	Comp		No Sample									
	DF/24-A/1053/SDC/014		2/22/01	1405	Soil	Comp		No Sample									
	DF/24-A/1053/SDC/015		2/22/01	1409	Soil	Comp		No Sample									
	DF/24-A/1053/SDC/016		2/22/01	1412	Soil	Comp		No Sample									
Sampled By		Method of Shipment		Blank/Cooler Temp		Remarks											
RELINQUISHED BY (sign)		DATE		TIME		RECEIVED BY (sign)		DATE		TIME		Sample Delivery Group ID					
RELINQUISHED BY (sign)		DATE		TIME		RECEIVED BY (sign)		DATE		TIME							
RELINQUISHED BY (sign)		DATE		TIME		RECEIVED BY LAB (print/sign)		DATE		TIME							

Distribution : Original and Yellow accompany samples to the laboratory. Pink copy for Field Crew.

Original copy returned with results. Yellow copy for ETC, Inc. files.

Environmental Testing & Consulting, Inc.
Cooler Receipt Form

Date Received 2/7/01 LIMS# 0102-218
 Date/Time Checked In 2/7/01-16:45 Project Dunn Field
 Carrier/Bill# Hand-Delivered By Rebekah Barger

1. Custody Seals?/Location-	No
2. Samples are non-radioactive?	Yes
3. Chain of Custody in plastic?	Yes
4. Temperature at receipt (ok = 4 ± 2 °C) <40C	OK
5. Ice & Packing-bags, ice, bubble wrap	Yes
6. Chain of Custody filled out properly?	Yes
7. All containers in separate bags?	Yes
8. Sample containers intact?	Yes
9. Label(s) complete and in good condition?	Yes
10. Label(s) agree with Chain of Custody?	Yes
11. Correct containers used?	Yes
12. Sufficient sample?	Yes
13. VOA vials bubble-free (H ₂ O) or no head space (soil)?	Yes
14. Preservation OK? TM pH____; TRPH pH____; TOC pH____; TOX pH____; CN pH____; N/P pH____; Other pH____	Yes

Comments _____

 2/20/01-Added TCLP-Pest, TCLP-Herb, RCI, & Arsenic per client. _____
 2/22/01-Received re-samples for Reactive Cyanide & Reactive Sulfide and
 Ignitability. _____

*Validated Date and Time of Sample Receipt (VDTSR)

Environmental Testing & Consulting, Inc.

Sample Reports

656 298

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

**P.O. Box 50397
Summerville, SC 29485-0397**

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID : **0102218-01**

Matrix : **SOIL**

Field ID : **DF/24-A/1038/SDC/009**

Sample Date : **02/22/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/26/01	TL	7.3.3	RC022611
Ignitability/Flashpoint	>96	oC		02/27/01	GD	1010	IG022711
pH - Corrosivity	7.1	SU		02/26/01	TL	9045C	PH022611
Reactive Sulfide	ND	mg/Kg	25	02/26/01	TL	7.3.4	RS022611

000011

Data Validator CS

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 299

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-02**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/010**Sample Date : **02/22/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/26/01	TL	7.3.3	RC022611
Ignitability/Flashpoint	>96	oC		02/27/01	GD	1010	IG022711
pH - Corrosivity	6.9	SU		02/26/01	TL	9045C	PH022611
Reactive Sulfide	ND	mg/Kg	25	02/26/01	TL	7.3.4	RS022611

CS
Data Validator

ND - Not Detected

000012

656 300

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-03**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/011**Sample Date : **02/22/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/26/01	TL	7.3.3	RC022611
Ignitability/Flashpoint	>96	oC		02/27/01	GD	1010	IG022711
pH - Corrosivity	7.5	SU		02/26/01	TL	9045C	PH022611
Reactive Sulfide	ND	mg/Kg	25	02/26/01	TL	7.3.4	RS022611

CS
Data Validator

ND - Not Detected

000012A

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 301

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID : **0102218-04**

Matrix : **SOIL**

Field ID : **DF/24-A/1038/SDC/012**

Sample Date : **02/22/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/26/01	TL	7.3.3	RC022611
Ignitability/Flashpoint	>96	oC		02/27/01	GD	1010	IG022711
pH - Corrosivity	7.4	SU		02/26/01	TL	9045C	PH022611
Reactive Sulfide	ND	mg/Kg	25	02/26/01	TL	7.3.4	RS022611

CS
Data Validator

ND - Not Detected

000013

656 302

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-05**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/013**Sample Date : **02/22/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/26/01	TL	7.3.3	RC022611
Ignitability/Flashpoint	>96	oC		02/27/01	GD	1010	IG022711
pH - Corrosivity	7.4	SU		02/26/01	TL	9045C	PH022611
Reactive Sulfide	ND	mg/Kg	25	02/26/01	TL	7.3.4	RS022611

000014

Data Validator 

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-06**Matrix : **AOIL**Field ID : **DF/24-A/1038/SDC/014**Sample Date : **02/22/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/26/01	TL	7.3.3	RC022611
Ignitability/Flashpoint	>96	oC		02/27/01	GD	1010	IG022711
pH - Corrosivity	6.3	SU		02/26/01	TL	9045C	PH022611
Reactive Sulfide	ND	mg/Kg	25	02/26/01	TL	7.3.4	RS022611

CS
Data Validator

ND - Not Detected

000015

656 304

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397****Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-07**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/015**Sample Date : **02/22/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/26/01	TL	7.3.3	RC022611
Ignitability/Flashpoint	>96	oC		02/27/01	GD	1010	IG022711
pH - Corrosivity	7.4	SU		02/26/01	TL	9045C	PH022611
Reactive Sulfide	ND	mg/Kg	25	02/26/01	TL	7.3.4	RS022611

CS
Data Validator

ND - Not Detected

000016

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 305

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-08**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/016**Sample Date : **02/22/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/26/01	TL	7.3.3	RC022611
Ignitability/Flashpoint	>96	oC		02/27/01	GD	1010	IG022711
pH - Corrosivity	7.0	SU		02/26/01	TL	9045C	PH022611
Reactive Sulfide	ND	mg/Kg	25	02/26/01	TL	7.3.4	RS022611

000017

CS
Data Validator

ND - Not Detected

656 306

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**
ETC Order Number **0102218**ETC Lab ID : **0102218-09**
Field ID : **DF/24-A/1038/Grab/055**Matrix : **SOIL**
Sample Date : **02/22/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/26/01	TL	7.3.3	RC022611
Ignitability/Flashpoint	>96	oC		02/27/01	GD	1010	IG022711
pH - Corrosivity	7.3	SU		02/26/01	TL	9045C	PH022611
Reactive Sulfide	ND	mg/Kg	25	02/26/01	TL	7.3.4	RS022611

Data Validator CS

ND - Not Detected

000018

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 307

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID : **0102218-01**

Matrix : **SOIL**

Field ID : **DF/24-A/1038/SDC/009**

Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-41						
Arsenic	7.47	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B

CS
Data Validator

ND - Not Detected

000019

656 308

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID : **0102218-02**

Matrix : **SOIL**

Field ID : **DF/24-A/1038/SDC/010**

Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-41				02/22/01	NR	3051
Arsenic	7.69	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B

CS
Data Validator

ND - Not Detected

000020

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397**
Summerville, SC 29485-0397Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-03**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/011**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-41						
Arsenic	9.52	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B

CS
Data Validator

ND - Not Detected

000021

656 310

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

**P.O. Box 50397
Summerville, SC 29485-0397**

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID : **0102218-04**

Matrix : **SOIL**

Field ID : **DF/24-A/1038/SDC/012**

Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-41				02/22/01	NR	3051
Arsenic	10.2	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B

CS
Data Validator

ND - Not Detected

000022

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 311

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-05**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/013**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-41						
Arsenic	7.44	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B

C >
Data Validator

ND - Not Detected

000023

656 312

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397**
Summerville, SC 29485-0397Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-06**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/014**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-41				02/22/01	NR	3051
Arsenic	7.67	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B

000024


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 313

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID : **0102218-07**

Matrix : **SOIL**

Field ID : **DF/24-A/1038/SDC/015**

Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-41						
Arsenic	9.98	mg/Kg	0 500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B

CS
Data Validator

ND - Not Detected

000025

656 314

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-08**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/016**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-41				02/22/01	NR	3051
Arsenic	11.5	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B

000026

Data Validator 

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 315

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-09**Matrix : **SOIL**Field ID : **DF/24-A/1038/Grab/055**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-41				02/22/01	NR	3051
Arsenic	7.88	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B

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Data Validator

ND - Not Detected

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656 316

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID : **0102218-01**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/009**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				02/08/01	TL 1311
Metals Digestion Batch	V24-AQ-56				02/12/01	NR 3015A
Mercury Digestion Batch	V7-AQ-97				02/12/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Barium - TCLP	1.45	mg/L	0.025	02/13/01	02/12/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	02/12/01	02/12/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B

CS
Data Validator

ND - Not Detected

000028

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 317

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

Date Arrived **02/20/01**
ETC Order Number **0102218**

ETC Lab ID : **0102218-02**
Field ID : **DF/24-A/1038/SDC/010**

Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
TCLP Extraction	Leachate				02/08/01	TL	1311
Metals Digestion Batch	V24-AQ-56				02/12/01	NR	3015A
Mercury Digestion Batch	V7-AQ-97				02/12/01	JF	7470
Silver - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B
Barium - TCLP	1.41	mg/L	0.025	02/13/01	02/12/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	02/12/01	02/12/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B

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Data Validator

ND - Not Detected

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656 318

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/20/01**ETC Order Number **0102218**ETC Lab ID : **0102218-03**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/011**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
TCLP Extraction	Leachate				02/08/01	TL	1311
Metals Digestion Batch	V24-AQ-56				02/12/01	NR	3015A
Mercury Digestion Batch	V7-AQ-97				02/12/01	JF	7470
Silver - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B
Barium - TCLP	1.37	mg/L	0.025	02/13/01	02/12/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	02/12/01	02/12/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B

000030

CS
Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 319

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

Date Arrived **02/20/01**
ETC Order Number **0102218**

ETC Lab ID : **0102218-04**
Field ID : **DF/24-A/1038/SDC/012**

Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				02/08/01	TL 1311
Metals Digestion Batch	V24-AQ-56				02/12/01	NR 3015A
Mercury Digestion Batch	V7-AQ-97				02/12/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Barium - TCLP	1.65	mg/L	0.025	02/13/01	02/12/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	02/12/01	02/12/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B

000031

05
Data Validator

ND - Not Detected

656 320

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/20/01**ETC Order Number **0102218**ETC Lab ID : **0102218-05**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/013**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
TCLP Extraction	Leachate				02/08/01	TL	1311
Metals Digestion Batch	V24-AQ-56				02/12/01	NR	3015A
Mercury Digestion Batch	V7-AQ-97				02/12/01	JF	7470
Silver - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B
Barium - TCLP	1.27	mg/L	0.025	02/13/01	02/12/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	02/12/01	02/12/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B

000032

Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/20/01**
ETC Order Number **0102218**ETC Lab ID : **0102218-06**
Field ID : **DF/24-A/1038/SDC/014**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				02/08/01	TL 1311
Metals Digestion Batch	V24-AQ-56				02/12/01	NR 3015A
Mercury Digestion Batch	V7-AQ-97				02/12/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Barium - TCLP	1.22	mg/L	0.025	02/13/01	02/12/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	02/12/01	02/12/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B


 Data Validator

ND - Not Detected

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656 322

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/20/01**ETC Order Number **0102218**ETC Lab ID : **0102218-07**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/015**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				02/08/01	TL 1311
Metals Digestion Batch	V24-AQ-56				02/12/01	NR 3015A
Mercury Digestion Batch	V7-AQ-97				02/12/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Barium - TCLP	1.09	mg/L	0.025	02/13/01	02/12/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	02/12/01	02/12/01	JF 7470A
Lead - TCLP	0.251	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B

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Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/20/01**ETC Order Number **0102218**ETC Lab ID : **0102218-08**Field ID : **DF/24-A/1038/SDC/016**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED BY	METHOD
TCLP Extraction	Leachate				02/08/01	TL 1311
Metals Digestion Batch	V24-AQ-56				02/12/01	NR 3015A
Mercury Digestion Batch	V7-AQ-97				02/12/01	JF 7470
Silver - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Arsenic - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Barium - TCLP	1.31	mg/L	0.025	02/13/01	02/12/01	SH 6010B
Cadmium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Chromium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH 6010B
Mercury - TCLP	ND	mg/L	0.001	02/12/01	02/12/01	JF 7470A
Lead - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B
Selenium - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH 6010B

000035

Data Validator

ND - Not Detected

656 324

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/20/01**ETC Order Number **0102218**ETC Lab ID : **0102218-09**Matrix : **SOIL**Field ID : **DF/24-A/1038/Grab/055**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
TCLP Extraction	Leachate				02/08/01	TL	1311
Metals Digestion Batch	V24-AQ-56				02/12/01	NR	3015A
Mercury Digestion Batch	V7-AQ-97				02/12/01	JF	7470
Silver - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Arsenic - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B
Barium - TCLP	1.28	mg/L	0.025	02/13/01	02/12/01	SH	6010B
Cadmium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Chromium - TCLP	ND	mg/L	0.010	02/13/01	02/12/01	SH	6010B
Mercury - TCLP	ND	mg/L	0.001	02/12/01	02/12/01	JF	7470A
Lead - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B
Selenium - TCLP	ND	mg/L	0.100	02/13/01	02/12/01	SH	6010B

000036

Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/20/01**ETC Order Number **0102218**ETC Lab ID **0102218-01**Field ID : **DF/24-A/1038/SDC/009**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED	BY	METHOD
TCLP Extraction ZHE	Leachate						
TCLP Volatile Organics				02/13/01	02/08/01	TL LS	1311 8260B 5030B
QC Batch	V102131						
Dilution Factor	10						
Benzene	ND	mg/L	0.010				
Carbon Tetrachloride	ND	mg/L	0.010				
Chlorobenzene	ND	mg/L	0.010				
Chloroform	ND	mg/L	0.010				
1,4-Dichlorobenzene	ND	mg/L	0.010				
1,2-Dichloroethane	ND	mg/L	0.010				
1,1-Dichloroethene	ND	mg/L	0.010				
2-Butanone (MEK)	ND	mg/L	1.00				
Tetrachloroethene	ND	mg/L	0.010				
Trichloroethene	ND	mg/L	0.010				
Vinyl Chloride	ND	mg/L	0.010				
Surrogate Standard	% Recovery		QC Limits				
S1 - Dibromofluoromethane	95		74 123				
S2 - Toluene-d8	109		86 112				
S3 - 4-Bromofluorobenzene	104		81 115				
S4 - 1,2-Dichloroethane-d4	111		80 120				

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000037

656 326

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/20/01**
ETC Order Number **0102218**ETC Lab ID **0102218-02**
Field ID : **DF/24-A/1038/SDC/010**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				02/08/01	TL 1311
TCLP Volatile Organics				02/13/01	LS	8260B 5030B
QC Batch	V102131					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	100		74	123		
S2 - Toluene-d8	110		86	112		
S3 - 4-Bromofluorobenzene	114		81	115		
S4 - 1,2-Dichloroethane-d4	119		80	120		

000038

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 327

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/20/01**
ETC Order Number **0102218**

ETC Lab ID **0102218-03**
Field ID : **DF/24-A/1038/SDC/011**

Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/13/01	02/08/01	TL 1311 LS 8260B 5030B
QC Batch	V102131					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	93		74 123			
S2 - Toluene-d8	109		86 112			
S3 - 4-Bromofluorobenzene	106		81 115			
S4 - 1,2-Dichloroethane-d4	111		80 120			


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000039

656 328

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/20/01**
ETC Order Number **0102218**ETC Lab ID **0102218-04**
Field ID : **DF/24-A/1038/SDC/012**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				02/08/01	TL 1311
TCLP Volatile Organics				02/13/01	LS	8260B 5030B
QC Batch	V102131					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	102		74	123		
S2 - Toluene-d8	108		86	112		
S3 - 4-Bromofluorobenzene	109		81	115		
S4 - 1,2-Dichloroethane-d4	116		80	120		

000040

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 329

Client Name **Innovative Waste Management** Site ID **Dunn Field**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/20/01**
ETC Order Number **0102218**ETC Lab ID **0102218-05**
Field ID : **DF/24-A/1038/SDC/013**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/13/01	02/08/01	TL 1311 LS 8260B 5030B
QC Batch	V102131					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	97		74 123			
S2 - Toluene-d8	112		86 112			
S3 - 4-Bromofluorobenzene	102		81 115			
S4 - 1,2-Dichloroethane-d4	110		80 120			

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000041

656 330

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/20/01**ETC Order Number **0102218**ETC Lab ID **0102218-06**Field ID : **DF/24-A/1038/SDC/014**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				02/08/01	TL 1311
TCLP Volatile Organics				02/13/01	LS	8260B 5030B
QC Batch	V102131					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	98		74	123		
S2 - Toluene-d8	102		86	112		
S3 - 4-Bromofluorobenzene	112		81	115		
S4 - 1,2-Dichloroethane-d4	111		80	120		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000042

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 331

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/20/01**

ETC Order Number **0102218**

ETC Lab ID **0102218-07**

Field ID : **DF/24-A/1038/SDC/015**

Matrix : **SOIL**

Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED	BY	METHOD
TCLP Extraction ZHE	Leachate						
TCLP Volatile Organics				02/13/01	02/08/01	TL LS	1311 8260B 5030B
QC Batch	V102131						
Dilution Factor	10						
Benzene	ND	mg/L	0.010				
Carbon Tetrachloride	ND	mg/L	0.010				
Chlorobenzene	ND	mg/L	0.010				
Chloroform	ND	mg/L	0.010				
1,4-Dichlorobenzene	ND	mg/L	0.010				
1,2-Dichloroethane	ND	mg/L	0.010				
1,1-Dichloroethene	ND	mg/L	0.010				
2-Butanone (MEK)	ND	mg/L	1.00				
Tetrachloroethene	ND	mg/L	0.010				
Trichloroethene	ND	mg/L	0.010				
Vinyl Chloride	ND	mg/L	0.010				
Surrogate Standard	% Recovery		QC Limits				
S1 - Dibromofluoromethane	100		74	123			
S2 - Toluene-d8	109		86	112			
S3 - 4-Bromofluorobenzene	106		81	115			
S4 - 1,2-Dichloroethane-d4	123 Q		80	120			

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000043

656 332

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/20/01**ETC Order Number **0102218**ETC Lab ID **0102218-08**Field ID : **DF/24-A/1038/SDC/016**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate				02/08/01	TL 1311
TCLP Volatile Organics				02/13/01	LS	8260B 5030B
QC Batch	V102131					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	99		74	123		
S2 - Toluene-d8	110		86	112		
S3 - 4-Bromofluorobenzene	103		81	115		
S4 - 1,2-Dichloroethane-d4	117		80	120		

Data Validator

CS

ND - Not Detected

Q - Recovery Outside QC Limits

000044

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 333

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/20/01**
ETC Order Number **0102218**

ETC Lab ID **0102218-09**
Field ID : **DF/24-A/1038/Grab/055**

Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction ZHE	Leachate					
TCLP Volatile Organics				02/13/01	02/08/01	TL 1311 LS 8260B 5030B
QC Batch	V102131					
Dilution Factor	10					
Benzene	ND	mg/L	0.010			
Carbon Tetrachloride	ND	mg/L	0.010			
Chlorobenzene	ND	mg/L	0.010			
Chloroform	ND	mg/L	0.010			
1,4-Dichlorobenzene	ND	mg/L	0.010			
1,2-Dichloroethane	ND	mg/L	0.010			
1,1-Dichloroethene	ND	mg/L	0.010			
2-Butanone (MEK)	ND	mg/L	1.00			
Tetrachloroethene	ND	mg/L	0.010			
Trichloroethene	ND	mg/L	0.010			
Vinyl Chloride	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
S1 - Dibromofluoromethane	101		74 123			
S2 - Toluene-d8	110		86 112			
S3 - 4-Bromofluorobenzene	116 Q		81 115			
S4 - 1,2-Dichloroethane-d4	116		80 120			

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000045

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/23/01**
ETC Order Number **0102218**ETC Lab ID **0102218-01**
Field ID : **DF/24-A/1038/SDC/009**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Semivolatiles				02/25/01	MK 8270C	3510C
QC Batch	P06062					
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	73		29	110		
S2 - 2-Fluorobiphenyl	70		38	107		
S3 - 4-Terphenyl-d14	87		33	122		
S4 - Phenol-d6	18		7	58		
S5 - 2,4,6-Tribromophenol	48		16	138		
S6 - 2-Fluorophenol	25		8	88		

CS

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000046

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 335

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID **0102218-02**

Field ID : **DF/24-A/1038/SDC/010**

Matrix : **SOIL**

Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/25/01	02/08/01	TL 1311
					02/13/01	MK 8270C
QC Batch	P06062					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	73		29			110
S2 - 2-Fluorobiphenyl	65		38			107
S3 - 4-Terphenyl-d14	91		33			122
S4 - Phenol-d6	19		7			58
S5 - 2,4,6-Tribromophenol	50		16			138
S6 - 2-Fluorophenol	26		8			88

5
Data Validator ND - Not Detected

Q - Recovery Outside QC Limits

000047

656 336

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**
ETC Order Number **0102218**ETC Lab ID **0102218-03**
Field ID : **DF/24-A/1038/SDC/011**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Semivolatiles				02/25/01	MK	8270C
QC Batch	P06062				02/13/01	3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	77		29	110		
S2 - 2-Fluorobiphenyl	70		38	107		
S3 - 4-Terphenyl-d14	86		33	122		
S4 - Phenol-d6	18		7	58		
S5 - 2,4,6-Tribromophenol	50		16	138		
S6 - 2-Fluorophenol	25		8	88		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000048

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 337

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

**P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID **0102218-04**

Field ID : **DF/24-A/1038/SDC/012**

Matrix : **SOIL**

Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Semivolatiles				02/25/01	MK 8270C	3510C
QC Batch	P06062				02/13/01	
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			

Surrogate Standard	% Recovery	QC Limits
S1 - Nitrobenzene-d5	76	29 110
S2 - 2-Fluorobiphenyl	69	38 107
S3 - 4-Terphenyl-d14	89	33 122
S4 - Phenol-d6	19	7 58
S5 - 2,4,6-Tribromophenol	53	16 138
S6 - 2-Fluorophenol	28	8 88

000049

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 338

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**
ETC Order Number **0102218**ETC Lab ID **0102218-05**
Field ID : **DF/24-A/1038/SDC/013**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Semivolatiles				02/25/01	02/13/01	MK 8270C 3510C
QC Batch	P06062					
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	78		29 110			
S2 - 2-Fluorobiphenyl	71		38 107			
S3 - 4-Terphenyl-d14	82		33 122			
S4 - Phenol-d6	19		7 58			
S5 - 2,4,6-Tribromophenol	50		16 138			
S6 - 2-Fluorophenol	28		8 88			

000050

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 339

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/23/01**
ETC Order Number **0102218**

ETC Lab ID **0102218-06**
Field ID : **DF/24-A/1038/SDC/014**

Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Semivolatiles				02/25/01	MK	8270C
QC Batch	P06062					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			

Surrogate Standard	% Recovery	QC Limits
S1 - Nitrobenzene-d5	78	29 110
S2 - 2-Fluorobiphenyl	72	38 107
S3 - 4-Terphenyl-d14	77	33 122
S4 - Phenol-d6	20	7 58
S5 - 2,4,6-Tribromophenol	55	16 138
S6 - 2-Fluorophenol	28	8 88

656 340

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**
ETC Order Number **0102218**ETC Lab ID **0102218-07**
Field ID : **DF/24-A/1038/SDC/015**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Semivolatiles				02/25/01	MK 8270C	3510C
QC Batch	P06062					
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	73		29	110		
S2 - 2-Fluorobiphenyl	66		38	107		
S3 - 4-Terphenyl-d14	74		33	122		
S4 - Phenol-d6	19		7	58		
S5 - 2,4,6-Tribromophenol	54		16	138		
S6 - 2-Fluorophenol	28		8	88		

C J
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000052

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 341

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

**P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID **0102218-08**

Field ID : **DF/24-A/1038/SDC/016**

Matrix : **SOIL**

Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Semivolatiles				02/25/01	02/08/01	TL 1311
					02/13/01	MK 8270C
QC Batch	P06062					3510C
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	58		29			110
S2 - 2-Fluorobiphenyl	52		38			107
S3 - 4-Terphenyl-d14	56		33			122
S4 - Phenol-d6	15		7			58
S5 - 2,4,6-Tribromophenol	42		16			138
S6 - 2-Fluorophenol	23		8			88

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000053

656 342

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**
ETC Order Number **0102218**ETC Lab ID **0102218-09**
Field ID : **DF/24-A/1038/Grab/055**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Semivolatiles				02/25/01	MK 8270C	3510C
QC Batch	P06062					
Dilution Factor	1					
1,4-Dichlorobenzene	ND	mg/L	0.020			
2,4-Dinitrotoluene	ND	mg/L	0.020			
Hexachlorobenzene	ND	mg/L	0.020			
Hexachlorobutadiene	ND	mg/L	0.020			
Hexachloroethane	ND	mg/L	0.020			
2-Methylphenol	ND	mg/L	0.020			
3-Methylphenol	ND	mg/L	0.020			
4-Methylphenol	ND	mg/L	0.020			
Nitrobenzene	ND	mg/L	0.020			
Pentachlorophenol	ND	mg/L	0.040			
Pyridine	ND	mg/L	0.020			
2,4,5-Trichlorophenol	ND	mg/L	0.020			
2,4,6-Trichlorophenol	ND	mg/L	0.020			
Surrogate Standard	% Recovery		QC Limits			
S1 - Nitrobenzene-d5	78		29	110		
S2 - 2-Fluorobiphenyl	72		38	107		
S3 - 4-Terphenyl-d14	89		33	122		
S4 - Phenol-d6	20		7	58		
S5 - 2,4,6-Tribromophenol	54		16	138		
S6 - 2-Fluorophenol	27		8	88		

000054

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-01**Field ID : **DF/24-A/1038/SDC/009**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Pesticides				02/22/01	RG 8081A	3510C
QC Batch	P08018				02/21/01	
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	70		34 115			
S2 - Tetrachloro-m-xylene	60		31 96			

C S

000055

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 344

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-02**Field ID : **DF/24-A/1038/SDC/010**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Pesticides				02/22/01	RG	8081A
QC Batch	P08018				02/21/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	57		34	115		
S2 - Tetrachloro-m-xylene	54		31	96		

CS

000056

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 345

Client Name **Innovative Waste Management**

Site ID **Dunn Field**

**P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**

ETC Order Number **0102218**

ETC Lab ID **0102218-03**

Field ID : **DF/24-A/1038/SDC/011**

Matrix : **SOIL**

Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Pesticides				02/22/01	02/08/01	TL 1311
QC Batch	P08018				02/21/01	RG 8081A
Dilution Factor	10					3510C
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	64		34	115		
S2 - Tetrachloro-m-xylene	52		31	96		

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000057

656 346

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**
ETC Order Number **0102218**ETC Lab ID **0102218-04**
Field ID : **DF/24-A/1038/SDC/012**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Pesticides				02/22/01	RG	8081A 3510C
QC Batch	P08018					
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	73		34	115		
S2 - Tetrachloro-m-xylene	58		31	96		

000058

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 347

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-05**Field ID : **DF/24-A/1038/SDC/013**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Pesticides				02/22/01	RG	8081A
QC Batch	P08018					3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	65		34	115		
S2 - Tetrachloro-m-xylene	64		31	96		

Data Validator CS

ND - Not Detected

Q - Recovery Outside QC Limits

000059

656 348

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-06**Field ID : **DF/24-A/1038/SDC/014**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Pesticides				02/22/01	RG	8081A 3510C
QC Batch	P08018					
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	61		34	115		
S2 - Tetrachloro-m-xylene	62		31	96		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000060

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 349

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397**
Summerville, SC 29485-0397

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-07**Field ID : **DF/24-A/1038/SDC/015**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Pesticides				02/22/01	RG 8081A	3510C
QC Batch	P08018				02/21/01	
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	61		34 115			
S2 - Tetrachloro-m-xylene	59		31 96			

C
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000061

656 350

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**
ETC Order Number **0102218**ETC Lab ID **0102218-08**
Field ID : **DF/24-A/1038/SDC/016**Matrix : **SOIL**
Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Pesticides				02/22/01	RG	8081A
QC Batch	P08018					3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	66		34	115		
S2 - Tetrachloro-m-xylene	52		31	96		

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000062

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-09**Field ID : **DF/24-A/1038/Grab/055**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate					
TCLP Pesticides				02/22/01	02/08/01	TL 1311
					02/21/01	RG 8081A
QC Batch	P08018					3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	63		34	115		
S2 - Tetrachloro-m-xylene	54		31	96		

000063

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 352

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-01**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/009**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Herbicides				02/22/01	PF	8151A
QC Batch	P11084				02/21/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>			<u>QC Limits</u>		
SI - 2,4,5-T	76			20 150		

CS

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000064

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-02**Field ID : **DF/24-A/1038/SDC/010**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Herbicides				02/22/01	PF	8151A
QC Batch	P11084				02/21/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - 2,4,5-T	39		20	150		

CS

000065

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 354

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-03**Field ID : **DF/24-A/1038/SDC/011**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Herbicides				02/22/01	PF	8151A
QC Batch	P11084				02/21/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - 2,4,5-T	85			20		150

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000066

ENVIRONMENTAL TESTING & CONSULTING, INC. 656 355
 2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management** Site ID **Dunn Field**
 P.O. Box 50397 FID #
 Summerville, SC 29485-0397

Date Arrived **02/23/01**
 ETC Order Number **0102218**

ETC Lab ID **0102218-04**
 Field ID : **DF/24-A/1038/SDC/012**

Matrix : **SOIL**
 Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Herbicides				02/22/01	PF 8151A	8151A
QC Batch	P11084				02/21/01	
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - 2,4,5-T	72		20 150			

CS

000067

656 356

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-05**Matrix : **SOIL**Field ID : **DF/24-A/1038/SDC/013**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Herbicides				02/22/01	PF	8151A
QC Batch	P11084					8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>				<u>QC Limits</u>	
SI - 2,4,5-T	71				20	150

C J
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000068

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-06**Field ID : **DF/24-A/1038/SDC/014**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED	BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL	1311
TCLP Herbicides				02/22/01	02/21/01	PF	8151A 8151A
QC Batch	P11084						
Dilution Factor	5						
2,4-D	ND	mg/L	0.010				
Silvex	ND	mg/L	0.010				
Surrogate Standard	% Recovery		QC Limits				
S1 - 2,4,5-T	80				20		150

000069

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 358

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-07**Field ID : **DF/24-A/1038/SDC/015**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Herbicides				02/22/01	PF	8151A
QC Batch	P11084				02/21/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
SI - 2,4,5-T	65		20 150			

000070

CS
Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 359

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-08**Field ID : **DF/24-A/1038/SDC/016**Matrix : **SOIL**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/08/01	TL 1311
TCLP Herbicides				02/23/01	PF	8151A
QC Batch	P11084				02/21/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>			<u>QC Limits</u>		
S1 - 2,4,5-T	78			20 150		

C 5

000071

Data Validator ND - Not Detected

Q - Recovery Outside QC Limits

656 360

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/23/01**ETC Order Number **0102218**ETC Lab ID **0102218-09**Matrix : **SOIL**Field ID : **DF/24-A/1038/Grab/055**Sample Date : **02/07/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Herbicides				02/23/01	PF	8151A
QC Batch	P11084					8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - 2,4,5-T	76		20	150		

Data Validator C

ND - Not Detected

Q - Recovery Outside QC Limits

000072

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
Inorganics**

656 362

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
INORGANICS – SOIL

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

HOLDING TIMES

Sample Analysis All samples analyzed within Method Specified Holding Times.

METHOD

Preparation/Analysis: 7.3.3
1010
9045C
7.3.4

QUALITY CONTROL

QC Batch
RC022611
IG022711
PH022611
RS022611

Method Blank
No Target Analytes detected above Detection Limit.

Laboratory Control Sample
Spike Recovery All analytes within QC limits

Duplicates
RPD All analytes within QC limits

CALIBRATION

All acceptance criteria met.

SAMPLE ANALYSIS

Dilutions Required No dilutions required.

CS
Project Manager

000074

METHOD BLANK
INORGANICS

Lab Name: Environmental Testing and Consulting, Inc.

Analyte	QC Sample No.	QC Batch	Result	Detection Limit	Units	Date Analyzed	Method
Reactive Cyanide	RC0226111 BLK	RC022611	ND	0.125	mg/Kg	2/26/01	7.3.3
Reactive Sulfide	RS0226111 BLK	RS022611	ND	25	mg/Kg	2/26/01	7.3.4

NA - Not Applicable per Method

ND - Not Detected

Reviewed by: CS

INORG BLANK 0102-2001-000075

656 364

LABORATORY CONTROL SAMPLE
INORGANICS

Lab Name: Environmental Testing and Consulting, Inc.

Analyte	QC Sample No.	QC Batch	Spike Added	Found	Units	% Rec	#	QC Limits	
Reactive Cyanide	RC0226111 LCS	RC022611	1000	260	mg/Kg	26		0	48
Reactive Sulfide	RS0226111 LCS	RS022611	285	234	mg/Kg	82		14	128
Ignitability	IG0227111 LCS	IG022711	27	28	deg C	104		96	104

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by: CS

INORG LCS 0102-218.iqc

000076

656 365

DUPLICATE
INORGANICS

Lab Name: Environmental Testing and Consulting, Inc.

Analyte	QC Sample No.		QC Batch	SAMPLE Result	DUP Result	Units	% RPD	#	QC Limits		Method
Ignitability	0102-218-06	DUP	IG022711	>96	>96	deg C	0		0	20	1010

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by: CS

INORG DUP 0102-218.lqc

000077

656 366

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
Metals (ICP/GFAA/CV)**

000078

656 367

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
METALS – SOIL

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

HOLDING TIMES

QC Batch(s) for this order ICP Metals V13-SO-41
Sample Preparation/Analysis All samples digested/ analyzed within holding time.

METHOD

Preparation: SW-846 3051
Analysis: SW-846 6010B

CALIBRATION

Initial Calibration All criteria met.
Continuing Calibration All criteria met.

SAMPLE ANALYSIS

Instrumentation Thermo Jarrell Ash Enviro-I ICP
CETAC M-6000A Mercury Analyzer
Dilutions Required No dilutions required.

% Solids Adjustment Sample results were adjusted for % solids.

QUALITY CONTROL

0102-218.MQ1BLANK

Method Blank

V13-SO-41BLK ICP Metals

No analytes detected in the Method Blank.

0102-218.MQ1LCS

Laboratory Control Sample(s)

V13-SO-41LCS ICP Metals

All acceptance criteria met.

0102-218.MQ1MSMSD

Matrix Spike / Matrix Spike Dup - ICP Metals

0102-436-02	RPD	All analytes within QC limits.
	Spike Recovery	All analytes within QC limits, except as listed below.

Arsenic was flagged as outside QC Limits in the Matrix Spike and Matrix Spike Duplicate. A Post Digestion Spike was performed for verification.

000079

656 368

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
METALS – SOIL

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

QUALITY CONTROL

Arsenic was flagged as outside QC Limits due to the level of this analyte present relative to the spike amount. A Dilution Test was performed for verification.

Refer to Form 9 Serial Dilutions and Form 5B for Post Digestion Spikes. All acceptance criteria met. Refer to Laboratory Control Sample(s) for system verification.

Dilution Test	Dilution result must agree within 10% of original result when sample is diluted by a factor of 5.
Post Digestion Spike	Recovery must be +/-25% of expected value for ICP.

CS
Project Manager

000080

FORM 3A
SOLID METHOD BLANK
METALS

656 369

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID ICP/GFAA Metals

V13-SO-41 BLK

QC Batch
V13-SO-41

Date Sample Prepared

02/22/01 ICP/GFAA Metals

Metals	Concentration mg/Kg	Detection Limit mg/Kg	Date Analyzed	Method
Arsenic	ND	0.500	02/23/01	6010B

ND - Not Detected

Reviewed by CS

0102-218.mq1 BLANK

000081

656 370

FORM 7
SOLID LABORATORY CONTROL SAMPLE
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory Control ID

ICP/GFAA Metals V13-SO-41 LCS

QC Batch
V13-SO-41

Date Prepared

ICP/GFAA Metals 02/22/01

Metals	Spike Added mg/Kg	Found mg/Kg	% R	#	QC Limits	
Arsenic	8.00	8.03	100		80	120

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by CS

0102-218.mg1 LCS

000082

FORM 6
SOLID MATRIX SPIKE / MATRIX SPIKE DUPLICATE
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID MS ICP/GFAA Metals 0102-436-02 QC Batch
V13-SO-41

Date Sample Prepared 02/22/01 ICP/GFAA Metals

Metals	SPIKE Added mg/Kg	SAMPLE Conc mg/Kg	MS Conc mg/Kg	RPD < 20% #	MS % Rec #	QC Limits	
Arsenic	9.16	3.99	10.3	3	69 *	75	125

Metals	SPIKE Added mg/Kg	SAMPLE Conc mg/Kg	MSD Conc mg/Kg		MSD % Rec #	QC Limits	
Arsenic	9.52	3.99	10.0		63 *	75	125

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by CS

0102-218.mq1 MSMSD

000083

FORM 5B
POST DIGESTION SPIKE
METALS

Lab Name: Environmental Testing and Consulting, Inc

QC Batch ICP/GFAA Metals V13-SO-41Date Sample Prepared 02/22/01 ICP/GFAA Metals

Metals	Spike Expected ug/L	Spike Found ug/L	% Recovery	QC Limits	
Arsenic	66.8	66.6	100	75	125

Post Digestion Spikes (PDS) were performed on those analytes with recoveries outside QC limits for both the MS and MSD that are less than 25 times the method detection limit.

Reviewed by CS

PDS 0102-218 mq1

000084

656 373

FORM 9
SERIAL DILUTIONS
METALS

Lab Name: Environmental Testing and Consulting, Inc.

QC Batch ICP/GFAA Metals V13-SO-41Date Prepared 02/22/01 ICP/GFAA Metals

Analyte	Initial Sample Result	Serial Dilution Result	Serial Dilution	% Difference
Arsenic	3.99	4.23	1:5	6

ND - Not Detected

% Difference should be within 10% of the undiluted/lowest dilution result.

Reviewed by CS

Serial Dilution 0102-218.mq1

000085

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
METALS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

HOLDING TIMES

QC Batch(s) for this order	ICP Metals V24-AQ-56 Mercury V7-AQ-97
TCLP Extraction	All soils extracted within 180 days. (28 days for Mercury)
Sample Preparation	All TCLP leachates prepared and analyzed within 180 days. (28 days for Mercury)

CALIBRATION

Initial Calibration	All criteria met.
Continuing Calibration	All criteria met.

SAMPLE ANALYSIS

Instrumentation: Thermo Jarrell Ash Enviro-I ICP
CETAC M-6000A Mercury Analyzer
Dilutions Required No dilutions required.

QUALITY CONTROL

0102-218.MQCBLANK

Method Blank

V24-AQ-56BLK	ICP Metals
V7-AQ-97BLK	Mercury

No analytes detected in the Method Blank

0102-218.MQCLCS

Laboratory Control Sample(s)

V24-AQ-56LCS	ICP Metals
V7-AQ-97LCS	Mercury

All criteria met.

0102-218.MQCMSMSD

Matrix Spike / Matrix Spike Dup - ICP Metals

0102-218-03	RPD	All analytes within QC limits.
DF/24-A/1038/SDC/011	Spike Recovery	All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

Matrix Spike / Matrix Spike Dup - Hg

0102-218-03	RPD	All analytes within QC limits.
DF/24-A/1038/SDC/011	Spike Recovery	All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
METALS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

Dilution Test Dilution result must agree within 10% of original result when sample is diluted by a factor of 5.

Post Digestion Spike Recovery must be +/-25% of expected value for ICP.



Project Manager

656 376

FORM 3A
TCLP/SPLP METHOD BLANK
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID ICP/GFAA Metals
Laboratory ID MercuryV24-AQ-56 BLK
V7-AQ-97 BLKQC Batch
V24-AQ-56
V7-AQ-97

Date Sample Prepared

02/12/01
02/12/01ICP/GFAA Metals
Mercury

Metals	Concentration mg/L	Detection Limit mg/L	Date Analyzed	Method
Silver	ND	0.013	02/13/01	6010B
Arsenic	ND	0.625	02/13/01	6010B
Barium	ND	0.025	02/13/01	6010B
Cadmium	ND	0.032	02/13/01	6010B
Chromium	ND	0.013	02/13/01	6010B
Lead	ND	0.315	02/13/01	6010B
Selenium	ND	0.625	02/13/01	6010B
Mercury	ND	0.001	02/12/01	7470A

ND - Not Detected

Reviewed by CS

0102-218.mqc BLANK

000088

656 377

FORM 7
TCLP/SPLP LABORATORY CONTROL SAMPLE
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory Control ID	ICP/GFAA Metals	<u>V24-AQ-56</u>	LCS	QC Batch
	Mercury	<u>V7-AQ-97</u>	LCS	<u>V24-AQ-56</u>
				<u>V7-AQ-97</u>
 Date Prepared	 ICP/GFAA Metals	 <u>02/12/01</u>		
	Mercury	<u>02/12/01</u>		

Metals	Spike Added mg/L	Found mg/L	% R	#	QC Limits	
Silver	0.250	0.269	108		80	120
Arsenic	1.25	1.37	110		80	120
Barium	2.50	2.87	115		80	120
Cadmium	0.250	0.282	113		80	120
Chromium	0.500	0.568	114		80	120
Lead	1.25	1.41	113		80	120
Selenium	1.25	1.37	110		80	120
Mercury	0.0050	0.0053	106		85	115

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by CS

0102-218.mqc LCS

000089

FORM 6
TCLP/SPLP MATRIX SPIKE / MATRIX SPIKE DUPLICATE
METALS

Lab Name: Environmental Testing and Consulting, Inc

	QC Batch	
Laboratory ID MS ICP/GFAA Metals	0102-218-03	V24-AQ-56
Laboratory ID MS Mercury	0102-218-03	V7-AQ-97
Date Sample Prepared	02/12/01	ICP/GFAA Metals
	02/12/01	Mercury

Metals	SPIKE Added mg/L	SAMPLE Conc mg/L	MS Conc mg/L	RPD <20% #	MS % Rec #	QC Limits	
Silver	0.250	ND	0.291	0	116	50	150
Arsenic	1.25	ND	1.48	1	118	50	150
Barium	2.50	1.37	4.16	0	112	50	150
Cadmium	0.250	ND	0.284	1	114	50	150
Chromium	0.500	ND	0.561	0	112	50	150
Lead	1.25	ND	1.44	1	115	50	150
Selenium	1.25	ND	1.60	4	128	50	150
Mercury	0.0050	ND	0.0053	0	106	50	150

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by CS

0102-218.mqc MSMSD

000090

FORM 6
TCLP/SPLP MATRIX SPIKE / MATRIX SPIKE DUPLICATE
METALS

656 379

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID MS ICP/GFAA Metals	0102-218-03	QC Batch V24-AQ-56
Laboratory ID MS Mercury	0102-218-03	V7-AQ-97
Date Sample Prepared	02/12/01	ICP/GFAA Metals
	02/12/01	Mercury

Metals	SPIKE Added mg/L	SAMPLE Conc mg/L	MSD Conc mg/L		MSD % Rec	QC Limits	
						#	
Silver	0.250	ND	0.290		116	50	150
Arsenic	1.25	ND	1.46		117	50	150
Barium	2.50	1.37	4.14		111	50	150
Cadmium	0.250	ND	0.282		113	50	150
Chromium	0.500	ND	0.560		112	50	150
Lead	1.25	ND	1.42		114	50	150
Selenium	1.25	ND	1.54		123	50	150
Mercury	0.0050	ND	0.0053		106	50	150

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by C)

0102-218.mqc MSMSD

000091

656 380

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
GC/MS Volatiles**

000092

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
GC/MS VOLATILE COMPOUNDS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

HOLDING TIMES

TCLP Extraction All samples extracted within 14 days.
 Sample Analysis All VOC extracts analyzed within 14days.

METHOD

Preparation: SW-846 1311
 Analysis: SW-846 8260B

QUALITY CONTROL

QC Batch Form 4 Summary
 V102131 V102131LB

System Monitoring Compounds FORM 2

Surrogate recoveries within QC limits, except as listed below.

Surrogate 1,2-Dichloroethane-d4 was flagged for slightly high recovery in sample 0102-218-07 (DF/24-A/1038/SDC/015). Analytes were not detected in this sample. This slightly high recovery does not affect the data.

Surrogate Bromofluorobenzene was flagged for slightly high recovery (1%) in sample 0102-218-09 (DF/24-A/1038/Grab/055). Analytes were not detected in this sample. This slightly high recovery does not affect the data.

Surrogate Toluene-d8 was flagged for slightly high recovery in sample 0102-218-03MS/MSD (DF/24-A/1038/SDC/011). These slightly high recoveries do not affect the data.

Method Blank FORM 4
 V102131LB

Target Analytes were not detected in the Method Blank.

Laboratory Control Sample FORM 3
 V102131LCS

All acceptance criteria met.

Matrix Spike / Matrix Spike Dup FORM 3

Batch V102131

0102-218-03

RPD

All analytes within QC limits.

DF/24-A/1038/SDC/011

Spike Recovery

All analytes within QC limits, except as listed below.

Recoveries for 2 analytes were flagged for high recovery in the MS/MSD. Recovery of two additional analytes was flagged for a high recovery in the MSD. Analytes were not detected in the associated project samples.

Refer to Laboratory Control Sample(s) for system verification.

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
GC/MS VOLATILE COMPOUNDS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

CALIBRATION

BFB Daily 12-Hour Tune	All criteria met. FORM 5
Initial Calibration	All criteria met. FORM 6
Calibration Verification	All criteria met. FORM 7, Responses > 30% do not affect the data.

Volatile Internal Standard Area and RT FORM 8

Daily Check Standard(s) Internal Standard Areas and Retention Times within QC limits.

SAMPLE ANALYSIS

Instrumentation	HP 5890 Series II GC, 5971MSD
Dilutions Required	Dilutions were performed on all samples to decrease matrix interferences as shown on the Sample Report Forms.

CS

Project Manager

FORM 2
WATER VOA-GCMS SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

	CLIENT SAMPLE NO.	SMC1 (DCE) #	SMC2 (DFM) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	V1021311LCS	102	102	110	99	0
02	V1021311LB	107	100	102	112	0
03	0102-218-1T	111	95	109	104	0
04	0102-218-2T	119	100	110	114	0
05	0102-218-3T	111	93	109	106	0
06	0102-218-4T	116	102	108	108	0
07	0102-218-5T	110	97	112	102	0
08	0102-218-6T	111	98	102	112	0
09	0102-218-7T	123*	100	109	106	1
10	0102-218-8T	117	99	110	103	0
11	0102-218-9T	116	101	110	116*	1
12	0102-218-3TM	105	96	116*	103	1
13	0102-218-3TM	105	102	117*	107	1
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 (DCE) = 1,2-Dichloroethane-d4 (80-120)
 SMC2 (DFM) = Dibromofluoromethane (74-123)
 SMC3 (TOL) = Toluene-d8 (86-112)
 OTHER (BFB) = Bromofluorobenzene (81-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 4
VOA-GCMS METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

V1021311LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID: 0303004T

Lab Prep Batch: V102131

Date Analyzed: 02/13/01

Time Analyzed: 1606

GC Column: ID: 2 (mm)

Heated Purge: (Y/N) Y

Instrument ID: VOC1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1021311LCS	V102131	0201002TLCS	1408
02	0102-218-1T	V102131	0801009	1827
03	0102-218-2T	V102131	0901010	1855
04	0102-218-3T	V102131	1001011	1923
05	0102-218-4T	V102131	1101012	1951
06	0102-218-5T	V102131	1201013	2019
07	0102-218-6T	V102131	1301014	2047
08	0102-218-7T	V102131	1401015	2115
09	0102-218-8T	V102131	1501016	2143
10	0102-218-9T	V102131	1601017	2211
11	0102-218-3TM	V102131	1901020	2336
12	0102-218-3TM	V102131	2001021	0004
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
VOA-GCMS ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V1021311LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix: (soil/water) WATER

Lab Prep Batch: V102131

Sample wt/vol: 10.00 (g/mL) ML

Lab File ID: 0303004T

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 02/13/01

GC Column: ID: 2.00 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2-----	Benzene	1.00 U	
78-93-3-----	2-Butanone	20.00 U	
56-23-5-----	Carbon Tetrachloride	1.00 U	
108-90-7-----	Chlorobenzene	1.00 U	
67-66-3-----	Chloroform	1.00 U	
106-46-7-----	1,4-Dichlorobenzene	1.00 U	
107-06-2-----	1,2-Dichloroethane	1.00 U	
75-35-4-----	1,1-Dichloroethene	1.00 U	
127-18-4-----	Tetrachloroethene	1.00 U	
79-01-6-----	Trichloroethene	1.00 U	
75-01-4-----	Vinyl Chloride	1.00 U	

FORM 3
WATER VOA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: V102131

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: V1021311LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
Benzene	100.0		82.41	82	72-124
2-Butanone	100.0		102.0	102	55-151
Carbon Tetrachloride	100.0		81.51	82	64-123
Chlorobenzene	100.0		91.24	91	77-112
Chloroform	100.0		93.10	93	70-115
1,4-Dichlorobenzene	100.0		99.70	100	78-116
1,2-Dichloroethane	100.0		92.31	92	62-124
1,1-Dichloroethene	100.0		84.18	84	69-121
Tetrachloroethene	100.0		102.0	102	77-115
Trichloroethene	100.0		93.92	94	75-113
Vinyl Chloride	100.0		81.38	81	65-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

WATER VOA-GCMS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: V102131

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: 0102-218-3T

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Benzene	100.0	0.000	97.98	98	72-124
2-Butanone	100.0	0.000	106.7	107	55-151
Carbon Tetrachloride	100.0	0.000	106.4	106	64-123
Chlorobenzene	100.0	0.000	118.7	119*	77-112
Chloroform	100.0	0.000	106.9	107	70-115
1,4-Dichlorobenzene	100.0	0.000	105.7	106	78-116
1,2-Dichloroethane	100.0	0.000	113.5	114	62-124
1,1-Dichloroethene	100.0	0.000	85.15	85	69-121
Tetrachloroethene	100.0	0.000	113.3	113	77-115
Trichloroethene	100.0	0.000	130.1	130*	75-113
Vinyl Chloride	100.0	0.000	80.24	80	65-134

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Benzene	100.0	96.66	97	1	20	72-124
2-Butanone	100.0	107.3	107	0	20	55-151
Carbon Tetrachloride	100.0	106.2	106	0	20	64-123
Chlorobenzene	100.0	122.4	122*	2	20	77-112
Chloroform	100.0	106.9	107	0	20	70-115
1,4-Dichlorobenzene	100.0	122.4	122*	14	20	78-116
1,2-Dichloroethane	100.0	120.4	120	5	20	62-124
1,1-Dichloroethene	100.0	92.81	93	9	20	69-121
Tetrachloroethene	100.0	117.9	118*	4	20	77-115
Trichloroethene	100.0	122.2	122*	6	20	75-113
Vinyl Chloride	100.0	88.65	89	11	20	65-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 6 out of 22 outside limits

COMMENTS:

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
GC/MS Semi-Volatiles**

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
GC/MS SEMI-VOLATILE COMPOUNDS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

SAMPLE PRESERVATION

All soil samples maintained at 4 degrees C until extraction.

HOLDING TIMES

Sample Extraction All soil samples extracted within 14 days.
Sample Analysis All samples analyzed within 40 days of extraction.

METHOD

Preparation: SW-846 3510C
Analysis: SW-846 8270C

QUALITY CONTROL

QC Batch Form 4 Summary
P06062 P06062LB

System Monitoring Compounds FORM 2
Surrogate recoveries within QC limits.

Method Blank FORM 4
P06062LB

Target analytes were not detected in the Method Blank.

Laboratory Control Sample FORM 3
P06062LCS/LCSD

All acceptance criteria met, except as listed below.

Non-target analytes were flagged for low recovery in the MS/MSD. There is no effect on the data.

RPDs for Pyridine and two non-target analytes were flagged for high recovery due to variances in the LCS/LCSD recoveries.

Matrix Spike / Matrix Spike Dup FORM 3

Batch P06062

0102-218-03

DF/24-A/1038/SDC/011

RPD

Spike Recovery

All analytes within QC limits.

All analytes within QC limits, except as listed below.

2-Methylphenol was flagged for low recovery in the MS. MSD recovery was within control limits.

Refer to Laboratory Control Sample(s) for system verification.

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
GC/MS SEMI-VOLATILE COMPOUNDS - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

CALIBRATION

DFTPP Daily 12-Hour Tune All criteria met. FORM 5
Initial Calibration All criteria met. FORM 6
Calibration Verification All criteria met. FORM 7

Semi-Volatile Internal Standard Area and RT FORM 8

Daily Check Standard(s) Internal Standard Areas and Retention Times within QC limits.

SAMPLE ANALYSIS

Instrumentation HP 5890 Series II GC, 5971MSD
Dilutions Required No dilutions required.



Project Manager

FORM 2
WATER BNA-GCMS SURROGATE RECOVERY

656 391

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (TBP) #	S6 (2FP) #	S7 #	S8 #	TOT OUT
01	P06062LB	65	58	80	16	46	25			0
02	P06062LCS	74	63	112	17	52	25			0
03	P06062LCSD	70	60	100	17	49	24			0
04	0102-218-1	73	70	87	18	48	25			0
05	0102-218-2	73	65	91	19	50	26			0
06	0102-218-3	77	70	86	18	50	25			0
07	0102-218-4	76	69	89	19	53	28			0
08	0102-218-5	78	71	82	19	50	28			0
09	0102-218-6	78	72	77	20	55	28			0
10	0102-218-7	73	66	74	19	54	28			0
11	0102-218-8	58	52	56	15	42	23			0
12	0102-218-9	78	72	89	20	54	27			0
13	0102-218-3MS	61	58	98	15	44	21			0
14	0102-218-3MS	66	64	94	17	46	23			0
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (29-110)
 S2 (FBP) = 2-Fluorobiphenyl (38-107)
 S3 (TPH) = Terphenyl-d14 (33-122)
 S4 (PHL) = Phenol-d6 (7- 58)
 S5 (TBP) = 2,4,6-Tribromophenol (16-138)
 S6 (2FP) = 2-Fluorophenol (8- 88)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

FORM 4
BNA-GCMS METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

P06062LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID: 0301003

Lab Prep Batch: P06062

Instrument ID: BNA2

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/25/01

Level: (low/med) LOW

Time Analyzed: 1531

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	P06062LCS	1604	0401004	02/25/01
02	P06062LCSD	1638	0501005	02/25/01
03	0102-218-1	1711	0601006	02/25/01
04	0102-218-2	1744	0701007	02/25/01
05	0102-218-3	1817	0801008	02/25/01
06	0102-218-4	1851	0901009	02/25/01
07	0102-218-5	1924	1001010	02/25/01
08	0102-218-6	1958	1101011	02/25/01
09	0102-218-7	2032	1201012	02/25/01
10	0102-218-8	2105	1301013	02/25/01
11	0102-218-9	2139	1401014	02/25/01
12	0102-218-3MS	0133	2101021	02/26/01
13	0102-218-3MS	0206	2201022	02/26/01
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
BNA-GCMS ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P06062LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix: (soil/water) WATER

Lab Prep Batch: P06062

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 0301003

Level: (low/med) LOW

Date Received: _____

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

Date Extracted: _____

Concentrated Extract Volume: 1 (mL)

Date Analyzed: 02/25/01

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-46-7-----	1,4-Dichlorobenzene	5.00	U
121-14-2-----	2,4-Dinitrotoluene	5.00	U
118-74-1-----	Hexachlorobenzene	5.00	U
87-68-3-----	Hexachlorobutadiene	5.00	U
67-72-1-----	Hexachloroethane	5.00	U
95-48-7-----	2-Methylphenol	5.00	U
108-39-4-----	3&4-Methylphenol	5.00	U
98-95-3-----	Nitrobenzene	5.00	U
87-86-5-----	Pentachlorophenol	10.00	U
110-86-1-----	Pyridine	5.00	U
95-95-4-----	2,4,5-Trichlorophenol	5.00	U
88-06-2-----	2,4,6-Trichlorophenol	5.00	U

FORM 3
WATER BNA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P06062

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: P06062LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
Acenaphthene	50.00		36.76	74	38-117
Acenaphthylene	50.00		39.98	80	37-114
Acetophenone	50.00		34.62	69	32-108
Aniline	50.00		30.70	61	16-133
Anthracene	50.00		38.72	77	34-128
Benzidine	50.00		6.57	13*	22-176
Benz (a) Anthracene	50.00		43.43	87	36-127
Benzo (b) fluoranthene	50.00		41.87	84	36-131
Benzo (k) fluoranthene	50.00		42.16	84	32-132
Benzo (ghi) perylene	50.00		43.23	86	26-123
Benzo (a) pyrene	50.00		40.08	80	34-131
Benzoic acid	50.00		18.34	37	11- 58
Benzyl alcohol	50.00		33.88	68	20-109
Bis (2-chloroethoxy) meth	50.00		34.10	68	20-126
Bis (2-chloroethyl) ether	50.00		34.71	69	16-122
Bis (2-chloroisopropyl) e	50.00		34.47	69	28-108
Bis (2-ethylhexyl) phthal	50.00		48.90	98	21-162
4-Bromophenyl phenyl et	50.00		38.59	77	31-124
Butyl benzyl phthalate	50.00		51.93	104	33-142
Carbazole	50.00		35.42	71	20-147
4-Chloroaniline	50.00		35.73	71	24-127
Chlorobenzilate	50.00		49.79	100	35-118
4-Chloro-3-methylphenol	50.00		39.42	79	35-117
2-Chloronaphthalene	50.00		38.19	76	29-137
2-Chlorophenol	50.00		33.41	67	27-102
4-Chlorophenyl phenyl e	50.00		39.74	79	39-110
Chrysene	50.00		42.36	85	30-124
Dibenz (a, h) anthracene	50.00		42.09	84	27-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER BNA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P06062

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: P06062LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dibenzofuran	50.00		37.50	75	40-108
Di-n-butyl phthalate	50.00		37.20	74	19-158
1,2-Dichlorobenzene	50.00		32.73	65	26-100
1,3-Dichlorobenzene	50.00		32.41	65	21-102
1,4-Dichlorobenzene	50.00		32.96	66	24- 99
3,3'-Dichlorobenzidine	50.00		33.97	68	6-192
2,4-Dichlorophenol	50.00		33.56	67	32-110
2,6-Dichlorophenol	50.00		33.78	68	31-112
Diethyl phthalate	50.00		42.58	85	36-130
3,3-Dimethylbenzidine	50.00		0.621	1*	6-192
2,4-Dimethyphenol	50.00		25.11	50	34-105
Dimethyl phthalate	50.00		39.70	79	34-123
4,6-Dinitro-2-methylphe	50.00		41.56	83	27-128
2,4-Dinitrophenol	50.00		44.78	90	10-132
2,4-Dinitrotoluene	50.00		48.17	96	24-147
2,6-Dinitrotoluene	50.00		44.86	90	36-125
N-NitrsdiphyllAm/Dipheny	100.0		70.96	71	35-116
Di-n-octyl phthalate	50.00		44.95	90	29-136
Ethyl methanesulfonate	50.00		34.37	69	20-121
Fluoranthene	50.00		35.28	70	28-127
Fluorene	50.00		39.56	79	41-116
Hexachlorobenzene	50.00		38.81	78	18-136
Hexachlorobutadiene	50.00		30.59	61	22-109
Hexachlorocyclopentadie	50.00		25.91	52	10-102
Hexachloroethane	50.00		31.33	63	16-107
Indeno (1,2,3-cd) pyrene	50.00		41.46	83	22-126
Isophorone	50.00		34.37	69	31-116
Methyl methanesulfonate	50.00		26.94	54	15- 82

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER BNA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P06062

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: P06062LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
2-Methylnaphthalene	50.00		35.26	70	34-108
2-Methylphenol	50.00		31.83	64	22- 97
3&4-Methylphenol	50.00		28.93	58	21- 96
Naphthalene	50.00		33.46	67	33-108
2-Nitroaniline	50.00		40.71	81	32-127
3-Nitroaniline	50.00		42.10	84	28-142
4-Nitroaniline	50.00		40.36	81	23-139
Nitrobenzene	50.00		33.99	68	27-117
2-Nitrophenol	50.00		34.99	70	25-114
4-Nitrophenol	50.00		16.09	32	1- 76
N-Nitrosodibutylamine	50.00		39.23	78	31-126
N-Nitrosodiethylamine	50.00		29.92	60	28-107
N-Nitrosodimethylamine	50.00		26.03	52	14- 84
N-Nitrosodi-n-propylami	50.00		37.22	74	29-114
Pentachloronitrobenzene	50.00		43.90	88	34-135
Pentachlorophenol	50.00		36.87	74	17-142
Phenacetin	50.00		38.20	76	29-141
Phenanthrene	50.00		37.91	76	40-120
Phenol	50.00		14.55	29	11- 55
Pyrene	50.00		59.35	119	20-154
Pyridine	50.00		13.65	27	10- 71
1,2,4,5-Tetrachlorobenz	50.00		31.64	63	28-110
2,3,4,6-Tetrachlorophen	50.00		42.67	85	28-118
1,2,4-Trichlorobenzene	50.00		31.87	64	23-106
2,4,5-Trichlorophenol	50.00		37.50	75	26-118
2,4,6-Trichlorophenol	50.00		34.71	69	26-115
1,2-Dphnylhydrzine/Azob	50.00		38.70	77	45-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER BNA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P06062

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: P06062LCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Acenaphthene	50.00	34.46	69	7	20	38-117
Acenaphthylene	50.00	36.79	74	8	20	37-114
Acetophenone	50.00	32.04	64	8	20	32-108
Aniline	50.00	29.87	60	2	20	16-133
Anthracene	50.00	36.45	73	5	20	34-128
Benzidine	50.00	2.62	5*	89*	20	22-176
Benz(a)Anthracene	50.00	40.32	81	7	20	36-127
Benzo(b)fluoranthene	50.00	37.52	75	11	20	36-131
Benzo(k)fluoranthene	50.00	37.68	75	11	20	32-132
Benzo(ghi)perylene	50.00	40.32	81	6	20	26-123
Benzo(a)pyrene	50.00	36.10	72	10	20	34-131
Benzoic acid	50.00	19.11	38	3	20	11- 58
Benzyl alcohol	50.00	31.80	64	6	20	20-109
Bis(2-chloroethoxy)meth	50.00	31.04	62	9	20	20-126
Bis(2-chloroethyl)ether	50.00	32.77	66	4	20	16-122
Bis(2-chloroisopropyl)e	50.00	32.14	64	8	20	28-108
Bis(2-ethylhexyl)phthal	50.00	46.32	93	5	20	21-162
4-Bromophenyl phenyl et	50.00	34.70	69	11	20	31-124
Butyl benzyl phthalate	50.00	47.37	95	9	20	33-142
Carbazole	50.00	34.52	69	3	20	20-147
4-Chloroaniline	50.00	31.40	63	12	20	24-127
Chlorobenzilate	50.00	45.48	91	9	20	35-118
4-Chloro-3-methylphenol	50.00	33.70	67	16	20	35-117
2-Chloronaphthalene	50.00	36.20	72	5	20	29-137
2-Chlorophenol	50.00	30.83	62	8	20	27-102
4-Chlorophenyl phenyl e	50.00	36.70	73	8	20	39-110
Chrysene	50.00	39.93	80	6	20	30-124
Dibenz(a,h)anthracene	50.00	39.95	80	5	20	27-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER BNA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P06062

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: P06062LCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dibenzofuran	50.00	34.63	69	8	20	40-108
Di-n-butyl phthalate	50.00	36.20	72	3	20	19-158
1,2-Dichlorobenzene	50.00	30.97	62	5	20	26-100
1,3-Dichlorobenzene	50.00	30.76	62	5	20	21-102
1,4-Dichlorobenzene	50.00	30.36	61	8	20	24- 99
3,3'-Dichlorobenzidine	50.00	33.56	67	1	20	6-192
2,4-Dichlorophenol	50.00	30.64	61	9	20	32-110
2,6-Dichlorophenol	50.00	30.58	61	11	20	31-112
Diethyl phthalate	50.00	39.35	79	7	20	36-130
3,3-Dimethylbenzidine	50.00	5.42	11	167*	20	6-192
2,4-Dimethylphenol	50.00	29.76	60	18	20	34-105
Dimethyl phthalate	50.00	36.85	74	6	20	34-123
4,6-Dinitro-2-methylphe	50.00	40.71	81	2	20	27-128
2,4-Dinitrophenol	50.00	45.80	92	2	20	10-132
2,4-Dinitrotoluene	50.00	46.48	93	3	20	24-147
2,6-Dinitrotoluene	50.00	41.59	83	8	20	36-125
N-NitrsdiphyllAm/Dipheny	100.0	63.42	63	12	20	35-116
Di-n-octyl phthalate	50.00	39.69	79	13	20	29-136
Ethyl methanesulfonate	50.00	31.86	64	8	20	20-121
Fluoranthene	50.00	35.12	70	0	20	28-127
Fluorene	50.00	37.44	75	5	20	41-116
Hexachlorobenzene	50.00	35.84	72	8	20	18-136
Hexachlorobutadiene	50.00	29.22	58	5	20	22-109
Hexachlorocyclopentadie	50.00	25.09	50	4	20	10-102
Hexachloroethane	50.00	29.99	60	5	20	16-107
Indeno (1,2,3-cd) pyrene	50.00	39.84	80	4	20	22-126
Isophorone	50.00	30.39	61	12	20	31-116
Methyl methanesulfonate	50.00	25.73	51	6	20	15- 82

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER BNA-GCMS LAB CONTROL SAMPLE

Lab Name: ETC, INC. Lab Prep Batch: P06062
 Lab Code: Case No.: SAS No.: SDG No.: 0102-218
 Matrix Spike - Sample No.: P06062LCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
2-Methylnaphthalene	50.00	30.81	62	12	20	34-108
2-Methylphenol	50.00	29.98	60	6	20	22- 97
3&4-Methylphenol	50.00	27.60	55	5	20	21- 96
Naphthalene	50.00	30.89	62	8	20	33-108
2-Nitroaniline	50.00	37.74	75	8	20	32-127
3-Nitroaniline	50.00	40.53	81	4	20	28-142
4-Nitroaniline	50.00	40.42	81	0	20	23-139
Nitrobenzene	50.00	31.84	64	6	20	27-117
2-Nitrophenol	50.00	32.62	65	7	20	25-114
4-Nitrophenol	50.00	16.70	33	3	20	1- 76
N-Nitrosodibutylamine	50.00	32.85	66	17	20	31-126
N-Nitrosodiethylamine	50.00	28.48	57	5	20	28-107
N-Nitrosodimethylamine	50.00	25.03	50	4	20	14- 84
N-Nitrosodi-n-propylami	50.00	33.62	67	10	20	29-114
Pentachloronitrobenzene	50.00	42.02	84	5	20	34-135
Pentachlorophenol	50.00	37.78	76	3	20	17-142
Phenacetin	50.00	37.44	75	1	20	29-141
Phenanthrene	50.00	35.20	70	8	20	40-120
Phenol	50.00	14.37	29	0	20	11- 55
Pyrene	50.00	52.89	106	12	20	20-154
Pyridine	50.00	10.15	20	30*	20	10- 71
1,2,4,5-Tetrachlorobenz	50.00	30.48	61	3	20	28-110
2,3,4,6-Tetrachlorophen	50.00	40.63	81	5	20	28-118
1,2,4-Trichlorobenzene	50.00	30.04	60	6	20	23-106
2,4,5-Trichlorophenol	50.00	35.81	72	4	20	26-118
2,4,6-Trichlorophenol	50.00	33.18	66	4	20	26-115
1,2-Dphnylhydrazine/Azob	50.00	34.31	69	11	20	45-135

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 3 out of 83 outside limits
 Spike Recovery: 3 out of 166 outside limits

COMMENTS:

FORM 3
WATER BNA-GCMS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: P06062

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: 0102-218-3

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	100.0	0.000	53.55	54	31- 97
2,4-Dinitrotoluene	100.0	0.000	90.08	90	34-130
Hexachlorobenzene	100.0	0.000	75.39	75	65-133
Hexachlorobutadiene	100.0	0.000	58.91	59	50-112
Hexachloroethane	100.0	0.000	51.98	52	37-100
2-Methylphenol	160.0	0.000	56.32	35*	40-117
3&4-Methylphenol	160.0	0.000	104.0	65	46- 99
Nitrobenzene	100.0	0.000	66.71	67	57-120
Pentachlorophenol	160.0	0.000	73.80	46	22-171
Pyridine	100.0	0.000	35.88	36	10- 82
2,4,5-Trichlorophenol	160.0	0.000	67.14	42	31-147
2,4,6-Trichlorophenol	160.0	0.000	68.76	43	30-163

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,4-Dichlorobenzene	100.0	62.17	62	14	20	31- 97
2,4-Dinitrotoluene	100.0	103.1	103	13	20	34-130
Hexachlorobenzene	100.0	81.59	82	9	20	65-133
Hexachlorobutadiene	100.0	67.70	68	14	20	50-112
Hexachloroethane	100.0	57.72	58	11	20	37-100
2-Methylphenol	160.0	66.54	42	18	20	40-117
3&4-Methylphenol	160.0	120.2	75	14	20	46- 99
Nitrobenzene	100.0	73.15	73	8	20	57-120
Pentachlorophenol	160.0	86.79	54	16	20	22-171
Pyridine	100.0	34.95	35	3	20	10- 82
2,4,5-Trichlorophenol	160.0	77.25	48	13	20	31-147
2,4,6-Trichlorophenol	160.0	76.93	48	11	20	30-163

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 12 outside limits

Spike Recovery: 1 out of 24 outside limits

COMMENTS:

656 401

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
GC Pesticides**

000113

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
PESTICIDE - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

HOLDING TIMES

TCLP Extraction	All samples extracted within 14 days.
Sample Extraction	All TCLP leachate/filtrates extracted within 7 days.
Sample Analysis	All Non-VOC extracts analyzed within 40 days.

METHOD

Preparation: SW-846 1311
Analysis: SW-846 8081A

QUALITY CONTROL

QC Batch Form 4 Summary
P08018 P08018LB

System Monitoring Compounds FORM 2
Surrogate recoveries within QC limits.

Method Blank FORM 4
P08018LB
P08018LB2

Target analytes were not detected in the Method Blanks.

Laboratory Control Sample FORM 3
P08018LCS

All acceptance criteria met.

Matrix Spike/Matrix Spike Dup FORM 3
Batch P08018

0102-218-03	RPD	All analytes within QC limits.
DF/24-A/1038/SDC/011	Spike Recovery	All analytes within QC limits, except as listed below.

Refer to Laboratory Control Sample(s) for system verification.

CALIBRATION

Initial Calibration	All criteria met FORM 6
Calibration Verification	All criteria met FORM 7, except as listed below.

Calibration Verification (CV). Date 02/22/01 Time: 1739

<u>Analyte</u>	<u>%Diff(15% Max)</u>	<u>Response</u>
Endrin	-26.0	Low

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
PESTICIDE - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

CALIBRATION

Samples affected by this CV include P08018LB, P08018LB2, 0102-218-03MS/MSD, 0102-218-01 through 0102-218-09. Low response indicates that reported levels for this analyte may be biased low. This analyte was not identified in associated project samples. There is no effect on the data.

Calibration Verification (CV): Date 02/22/01 Time: 1840

Analyte	%Diff(15% Max)	Response
Endrin	-30.5	Low

Samples affected by this CV include P08018LCS, 0102-218-01 through 0102-218-09. Low response indicates that reported levels for this analyte may be biased low. This analyte was not identified in associated project samples. There is no effect on the data.

SAMPLE ANALYSIS

Instrumentation HP 5890 Series II GC
Dilutions Required Dilutions were performed on all samples to decrease matrix interferences as shown on the Sample Report Forms.

CS
Project Manager

FORM 2
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

	CLIENT SAMPLE NO.	S1 (DCB) #	S2 (TCX) #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	P08018LB	67	50							0
02	P08018LB2	75	57							0
03	P08018LCS	72	55							0
04	0102-218-3MS	69	60							0
05	0102-218-3MS	82	58							0
06	0102-218-1	70	60							0
07	0102-218-2	57	54							0
08	0102-218-3	64	52							0
09	0102-218-4	73	58							0
10	0102-218-5	65	64							0
11	0102-218-6	61	62							0
12	0102-218-7	61	59							0
13	0102-218-8	66	52							0
14	0102-218-9	63	54							0
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QC LIMITS

S1 (DCB) = Decachlorobiphenyl (34-115)

S2 (TCX) = Tetrachloro-m-xylene (31- 96)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

FORM 4
PESTICIDE METHOD BLANK SUMMARY

656 405
CLIENT SAMPLE NO.

Lab Name: ETC, INC.

Contract:

P08018LB

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID: P302221A-18R

Lab Prep Batch: P08018

Instrument ID: PEST3A

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/22/01

Level: (low/med) LOW

Time Analyzed: 1711

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	P08018LCS	1722	P302221A-20R	02/22/01
02	0102-218-3MS	1728	P302221A-21R	02/22/01
03	0102-218-3MS	1733	P302221A-22R	02/22/01
04	0102-218-1	1750	P302221A-25R	02/22/01
05	0102-218-2	1755	P302221A-26R	02/22/01
06	0102-218-3	1801	P302221A-27R	02/22/01
07	0102-218-4	1807	P302221A-28R	02/22/01
08	0102-218-5	1812	P302221A-29R	02/22/01
09	0102-218-6	1818	P302221A-30R	02/22/01
10	0102-218-7	1823	P302221A-31R	02/22/01
11	0102-218-8	1829	P302221A-32R	02/22/01
12	0102-218-9	1834	P302221A-33R	02/22/01
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COMMENTS:

656 406

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P08018LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix: (soil/water) WATER

Lab Prep Batch: P08018

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: P302221A-18R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted:

Concentrated Extract Volume: 10 (mL)

Date Analyzed: 02/22/01

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

309-00-2-----	Aldrin	0.0400	U
319-84-6-----	alpha-BHC	0.0400	U
319-85-7-----	beta-BHC	0.0400	U
319-86-8-----	delta-BHC	0.0400	U
58-89-9-----	gamma-BHC (Lindane)	0.0400	U
5103-71-9-----	alpha-chlordane	0.0400	U
5103-74-2-----	gamma-chlordane	0.0400	U
57-74-9-----	Chlordane	0.250	U
2921-88-2-----	Chlorpyrifos	0.0400	U
72-54-8-----	4,4'-DDD	0.0400	U
72-55-9-----	4,4'-DDE/endosulfan I	0.0400	U
50-29-3-----	4,4'-DDT	0.0400	U
60-57-1-----	Dieldrin	0.0400	U
33213-65-9-----	Endosulfan II	0.0400	U
1031-07-8-----	Endosulfan sulfate	0.0400	U
72-20-8-----	Endrin	0.0400	U
7421-93-4-----	Endrin aldehyde	0.0400	U
53494-70-5-----	Endrin ketone	0.0400	U
76-44-8-----	Heptachlor	0.0400	U
1024-57-3-----	Heptachlor epoxide	0.0400	U
72-43-5-----	Methoxychlor	0.0400	U
8001-35-2-----	Toxaphene	2.50	U

FORM I PESTICIDE

000118

FORM 4
PESTICIDE METHOD BLANK SUMMARY

656 407
CLIENT SAMPLE NO.

Lab Name: ETC, INC.

Contract:

P08018LB2

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID: P302221A-19R

Lab Prep Batch: P08018

Instrument ID: PEST3A

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/22/01

Level: (low/med) LOW

Time Analyzed: 1716

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	P08018LCS	1722	P302221A-20R	02/22/01
02	0102-218-3MS	1728	P302221A-21R	02/22/01
03	0102-218-3MS	1733	P302221A-22R	02/22/01
04	0102-218-1	1750	P302221A-25R	02/22/01
05	0102-218-2	1755	P302221A-26R	02/22/01
06	0102-218-3	1801	P302221A-27R	02/22/01
07	0102-218-4	1807	P302221A-28R	02/22/01
08	0102-218-5	1812	P302221A-29R	02/22/01
09	0102-218-6	1818	P302221A-30R	02/22/01
10	0102-218-7	1823	P302221A-31R	02/22/01
11	0102-218-8	1829	P302221A-32R	02/22/01
12	0102-218-9	1834	P302221A-33R	02/22/01
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COMMENTS:

656 408

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P08018LB2

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix: (soil/water) WATER

Lab Prep Batch: P08018

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: P302221A-19R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted:

Concentrated Extract Volume: 10 (mL)

Date Analyzed: 02/22/01

Injection Volume: 1.0 (uL)

Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

309-00-2-----	Aldrin	1.60	U
319-84-6-----	alpha-BHC	1.60	U
319-85-7-----	beta-BHC	1.60	U
319-86-8-----	delta-BHC	1.60	U
58-89-9-----	gamma-BHC (Lindane)	1.60	U
5103-71-9-----	alpha-chlordane	1.60	U
5103-74-2-----	gamma-chlordane	1.60	U
57-74-9-----	Chlordane	10.00	U
2921-88-2-----	Chlorpyrifos	1.60	U
72-54-8-----	4,4'-DDD	1.60	U
72-55-9-----	4,4'-DDE/endosulfan I	1.60	U
50-29-3-----	4,4'-DDT	1.60	U
60-57-1-----	Dieldrin	1.60	U
33213-65-9-----	Endosulfan II	1.60	U
1031-07-8-----	Endosulfan sulfate	1.60	U
72-20-8-----	Endrin	1.60	U
7421-93-4-----	Endrin aldehyde	1.60	U
53494-70-5-----	Endrin ketone	1.60	U
76-44-8-----	Heptachlor	1.60	U
1024-57-3-----	Heptachlor epoxide	1.60	U
72-43-5-----	Methoxychlor	1.60	U
8001-35-2-----	Toxaphene	100.0	U

FORM I PESTICIDE

000120

FORM 3
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P08018

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: P08018LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	1.00		0.805	80	41-102
Endrin	1.00		0.842	84	45-117
Heptachlor	1.00		0.749	75	43-114
Methoxychlor	1.00		0.885	88	39-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III PESTICIDE

000121

FORM 3
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: P08018

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: 0102-218-3

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	4.00	0.000	2.36	59	41-102
Endrin	4.00	0.000	2.75	69	45-117
Heptachlor	4.00	0.000	2.33	58	43-114
Methoxychlor	4.00	0.000	2.88	72	39-140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
gamma-BHC (Lindane)	4.00	1.94	48	20	20 41-102
Endrin	4.00	2.65	66	4	20 45-117
Heptachlor	4.00	2.22	56	4	20 43-114
Methoxychlor	4.00	3.24	81	12	20 39-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 4 outside limits

Spike Recovery: 0 out of 8 outside limits

COMMENTS:

Environmental Testing & Consulting, Inc.

1.02 010

**Quality Control Reports
Level III
GC Herbicides**

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
HERBICIDE - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

HOLDING TIMES

TCLP Extraction	All samples extracted within 14 days.
Sample Extraction	All TCLP leachate/filtrates extracted within 7 days.
Sample Analysis	All Non-VOC extracts analyzed within 40 days.

METHOD

Preparation: SW-846 1311
Analysis: SW-846 8151A

QUALITY CONTROL

<u>QC Batch</u>	<u>Form 4 Summary</u>
P11084	P11084LB

System Monitoring Compounds FORM 2
Surrogate recoveries within QC limits.

Method Blank FORM 4
P11084LB
BLANK F1 2/19
BLANK F1 2/20

Target analytes were not detected in the Method Blanks.

Laboratory Control Sample FORM 3
P11084LCS

All acceptance criteria met.

Matrix Spike / Matrix Spike Dup FORM 3
Batch P11084

0102-218-03	RPD	All analytes within QC limits.
DF/24-A/1038/SDC/011	Spike Recovery	All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

CALIBRATION

Initial Calibration	All criteria met. FORM 6
Calibration Verification	All criteria met. FORM 7

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
HERBICIDE - TCLP

Client Name Innovative Waste Management
Project Name Dunn Field

ETC Order # 0102-218

SAMPLE ANALYSIS

Instrumentation HP 5890 Series II GC
Dilutions Required Dilutions were performed on all samples to decrease matrix interferences as shown on the Sample Report Forms.

CS
Project Manager

656 414

FORM 2
WATER HERBICIDE SURROGATE RECOVERY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

	EPA GC SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	P11084LB	109								0
02	BLANK F1 2/1	86								0
03	BLANK F1 2/2	69								0
04	0102-218-1	76								0
05	0102-218-2	39								0
06	0102-218-3	85								0
07	0102-218-4	72								0
08	0102-218-5	71								0
09	0102-218-6	80								0
10	0102-218-7	65								0
11	0102-218-8	78								0
12	0102-218-9	76								0
13	P11084LCS	99								0
14	0102-218-3MS	88								0
15	0102-218-3MS	88								0
16										
17										
18										
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29										
30										

S1 = 2,4,5-T

QC LIMITS
(20-150)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

FORM 4
HERBICIDE METHOD BLANK SUMMARY

EPA GC SAMPLE NO.

Lab Name: ETC, INC.

Contract:

BLANK F1 2/19

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID: H202221B-04R

Lab Prep Batch: P11084

Instrument ID: PEST2B

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/22/01

Level: (low/med) LOW

Time Analyzed: 1812

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA GC SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	0102-218-1	2107	H202221B-11R	02/22/01
02	0102-218-2	2132	H202221B-12R	02/22/01
03	0102-218-3	2157	H202221B-13R	02/22/01
04	0102-218-4	2222	H202221B-14R	02/22/01
05	0102-218-5	2247	H202221B-15R	02/22/01
06	0102-218-6	2312	H202221B-16R	02/22/01
07	0102-218-7	2337	H202221B-17R	02/22/01
08	0102-218-8	0002	H202221B-18R	02/23/01
09	0102-218-9	0028	H202221B-19R	02/23/01
10	P11084LCS	2135	H202231A-18R	02/23/01
11	0102-218-3MS	2250	H202231A-21R	02/23/01
12	0102-218-3MS	2315	H202231A-22R	02/23/01
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COMMENTS:

656 416

FORM 1
HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA GC SAMPLE NO.

BLANK F1 2/19

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix: (soil/water) WATER

Lab Prep Batch: P11084

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: H202221B-04R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted:

Concentrated Extract Volume: 5 (mL)

Date Analyzed: 02/22/01

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

94-75-7-----	2,4-D	1.00	U
93-72-1-----	Silvex	0.100	U

FORM I HERBICIDE

000128

FORM 4
HERBICIDE METHOD BLANK SUMMARY

EPA GC SAMPLE NO.

Lab Name: ETC, INC.

Contract:

BLANK F1 2/20

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID: H202221B-05R

Lab Prep Batch: P11084

Instrument ID: PEST2B

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/22/01

Level: (low/med) LOW

Time Analyzed: 1837

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA GC SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	0102-218-1	2107	H202221B-11R	02/22/01
02	0102-218-2	2132	H202221B-12R	02/22/01
03	0102-218-3	2157	H202221B-13R	02/22/01
04	0102-218-4	2222	H202221B-14R	02/22/01
05	0102-218-5	2247	H202221B-15R	02/22/01
06	0102-218-6	2312	H202221B-16R	02/22/01
07	0102-218-7	2337	H202221B-17R	02/22/01
08	0102-218-8	0002	H202221B-18R	02/23/01
09	0102-218-9	0028	H202221B-19R	02/23/01
10	P11084LCS	2135	H202231A-18R	02/23/01
11	0102-218-3MS	2250	H202231A-21R	02/23/01
12	0102-218-3MS	2315	H202231A-22R	02/23/01
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA GC SAMPLE NO.

BLANK F1 2/20

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix: (soil/water) WATER

Lab Prep Batch: P11084

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: H202221B-05R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted:

Concentrated Extract Volume: 5 (mL)

Date Analyzed: 02/22/01

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

94-75-7-----	2,4-D	1.00	U
93-72-1-----	Silvex	0.100	U

FORM I HERBICIDE

000130

FORM 4
HERBICIDE METHOD BLANK SUMMARY

656 419
EPA GC SAMPLE NO.

Lab Name: ETC, INC.

Contract:

P11084LB

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID: H202221B-03R

Lab Prep Batch: P11084

Instrument ID: PEST2B

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/22/01

Level: (low/med) LOW

Time Analyzed: 1747

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA GC SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	0102-218-1	2107	H202221B-11R	02/22/01
02	0102-218-2	2132	H202221B-12R	02/22/01
03	0102-218-3	2157	H202221B-13R	02/22/01
04	0102-218-4	2222	H202221B-14R	02/22/01
05	0102-218-5	2247	H202221B-15R	02/22/01
06	0102-218-6	2312	H202221B-16R	02/22/01
07	0102-218-7	2337	H202221B-17R	02/22/01
08	0102-218-8	0002	H202221B-18R	02/23/01
09	0102-218-9	0028	H202221B-19R	02/23/01
10	P11084LCS	2135	H202231A-18R	02/23/01
11	0102-218-3MS	2250	H202231A-21R	02/23/01
12	0102-218-3MS	2315	H202231A-22R	02/23/01
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

656 420

FORM 1
HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA GC SAMPLE NO.

P11084LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix: (soil/water) WATER

Lab Prep Batch: P11084

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: H202221B-03R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted:

Concentrated Extract Volume: 5 (mL)

Date Analyzed: 02/22/01

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

94-75-7-----	2,4-D	0.0500	U
93-72-1-----	Silvex	0.00500	U

FORM I HERBICIDE

000132

FORM 3
WATER HERBICIDE LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P11084

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: P11084LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
2,4-D	5.00		4.71	94	20-150
Silvex	5.00		4.15	83	20-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III HERBICIDE

000133

FORM 3
WATER HERBICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: P11084

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Matrix Spike - Sample No.: 0102-218-3

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
2,4-D	20.00		16.71	84	20-150
Silvex	20.00		13.86	69	20-150

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
2,4-D	20.00	16.18	81	4	20	20-150
Silvex	20.00	13.95	70	1	20	20-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III HERBICIDE

000134

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
Inorganics**

656 424

Environmental Testing and Consulting, Inc
Reactivity

Pg# _____

RC022611

RS 022611

Analyst Date Time	ETC Sample ID	Samp Size	S- Abs	CNR Abs	S- ppm	CNR ppm	Observations
TC	Sulfide LCS	10 mL	21.0/15.5	-	234	-	82 %Rec
2-26-01	Cyanide LCS	10 mL	-	1.000/0.359	-	260	26 %Rec
10:00	BLANK	100 mL	11.0/11.0	0.000	<25	<0.125	
	INDUWASTE 0102-218-01	10.4	11.0/11.0	-	<25	-	
	01	10.2	-	0.000	-	<0.125	
	02	10.3	11.0/10.7	-	<25	-	
	02	10.2	-	0.000	-	<0.125	
	03	10.2	11.0/10.9	-	<25	-	
	03	10.3	-	0.000	-	<0.125	
	04	10.5	11.0/10.6	-	<25	-	
	04	10.4	-	0.000	-	<0.125	
	05	10.4	11.0/10.7	-	<25	-	
	05	10.3	-	0.000	-	<0.125	

S- LCS Concentration: 285 mg/LS- LCS SRN: W-5-90-2CN- LCS Concentration: 1000 mg/LCN- LCS SRN: W-5-77-23

Reac CN % REC

UCL: 48

LCL: 0

Reac S- % REC

UCL: 128

LCL: 14

Method Detection Limit = 0.125 mg/L Reactive Cyanide
 Method Detection Limit = 25 mg/L Reactive Sulfide

NOTES: _____

Analyst (Date/Sign): TL/gd 2/27/01Supervisor (Date/Sign): gtd 2/27/01

QAO: _____

SLOP\reac.wks

000136

Environmental Testing and Consulting, Inc
Reactivity

RC022611 (cont.)

Pg# _____

RS022611 (cont.)

Analyst Date Time	ETC Sample ID	Samp Size	S- Abs	CNR Abs	S- ppm	CNR ppm	Observations
TV	Sulfide LCS						%Rec
2-21-01	Cyanide LCS		See Previous Pg				%Rec
	BLANK						
	INNOV WASTE 0102-212-06	10.2	11.0/10.6	-	<25	-	
	06	10.4	-	0.000	-	<0.125	
	07	10.3	11.0/10.6	-	<25	-	
	07	10.2	-	0.004	-	<0.125	
	08	10.4	11.0/10.7	-	<25	-	
	08	10.3	-	0.000	-	<0.125	
	09	10.2	11.0/10.6	-	<25	-	
	09	10.3	-	0.0010	-	<0.125	

S- LCS Concentration: _____ mg/L

S- LCS SRN: _____

CN- LCS Concentration: _____ mg/L

CN- LCS SRN: _____

Reac CN % REC

UCL: 48

LCL: 0

Reac S- % REC

UCL: 128

LCL: 14

Method Detection Limit = 0.125 mg/L Reactive Cyanide
 Method Detection Limit = 25 mg/L Reactive Sulfide

NOTES: _____

Analyst (Date/Sign): TL/d 2/27/01Supervisor (Date/Sign): gld 2/27/01

QAO: _____

SLOP\reac.wks

656 426

CN⁺

1/17/0

578 nm gD

CY-C-011701

std	abs
0.000	0.000
0.010	0.014, 0.016
0.020	0.029, 0.033
0.040	0.057, 0.063
0.100	0.136, 0.143
0.200	0.276, 0.280
0.400	0.548, 0.551

46 1320
ABSK&E
0 X 10 TO 1/8 INCH 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

0.600

0.500

0.400

0.300

0.200

0.100

0.100

0.200

0.300

0.400

mg/L

r = 0.9999

abs = 1.0038

1.370

000138

Environmental Testing and Consulting, Inc.
Ignitability

Batch: 16022711Analyst: gtDate: 2/27/01Time: 1145Page of

ETC Sample ID	Result 1 oC	Result 2 oC	Average Result oC	QC Data	Observations
p-Xylene Std ¹	28		28		
0102-218-01	>96		>96		
02	>96		>96		
03	>96		>96		
04	>96		>96		
05	>96		>96		
06	>96		>96		
07	>96		>96		
08	>96		>96		
↓ 09	>96		>96		
0102-491-01	>96		>96		
0102-218-06 Duplicate	>96		>96		

1: p-Xylene Standard Ignition Point = 27oC

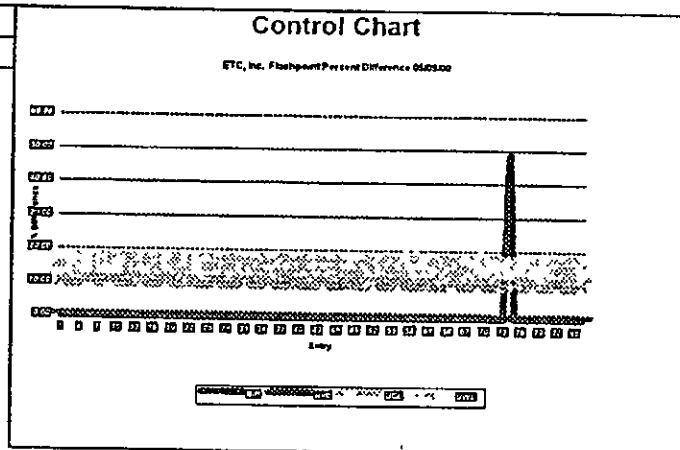
Acceptance Range = +/- 1oC.

If any samples ignite at >90oC then acceptable range = +/- 0.5oC

Standards Verification
p-Xylene SRN 18-5-15

QC Limits	
UCL:	15
UWL:	9.79
AVE:	0.45

Notes:



Data Validation

Analyst: gt 2/27/01Supervisor: gt 2/27/01QAO:

656 428

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
Metals (ICP/GFAA/CV)**

000140

Analyst : SH
Supervisor: IF

7900

1. Instrument Profile Intensity Check

2. Initial Calibration

- a. Initial Calibration Blank (STD1-Blank)
- b. Initial Calibration Standard 1 (C1) 3 Exposures at less than 3% RSD
- c. Initial Calibration Standard 2 (C2) 3 Exposures at less than 3% RSD
- d. Initial Calibration Standard 3 (C3) 3 Exposures at less than 3% RSD
- e. Initial Calibration Standard 4 (C4) 3 Exposures at less than 3% RSD
- f. Standardization Report

3. Initial Calibration Readback (+/- 5% Difference Check Table)

Failures

Initial Calibration		Failures
a. Initial Calibration Standard 1 (C1)	✓	
b. Initial Calibration Standard 2 (C2)	✓	
c. Initial Calibration Standard 3 (C3)	✓	
d. Initial Calibration Standard 4 (C4)	✓	

4. Initial Calibration Verification

e.	Initial Calibration Blank (ICB) – All elements below MDL/MQL	✓	
f.	Initial Calibration Verification (ICV1) – (5%) <u>Na OUTSIDE 10%</u>	✓	Na
g.	Low Level Check (LLC1) – (20%)	✓	
h.	Low Level Check (LLC2) – (20%)	—	
i.	Interelement Correction Standard – Initial (ICSAB) – (20%)	✓	
j.	Interelement Correction Standard – Final (ICSAB) – (20%)	✓	

Comments

Applicable ETC Order Nos. for this sequence:

V13-50-34	0102-166		
V24-AQ-55	172		
56	204		
0102-093	207		
094	213		
095	218		
096	036		
097	066		
0102-412			
146			
121			
134			

11/16/02 2/17/01 1045

ENVIRONMENTAL TESTING & CONSULTING, INC

ICP Metals Sequence Check List

5. Continuing Calibration Blanks

↑

Metal	CCB1	CCB2	CCB3	CCB4	CCB5	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	CCB12	CCB13	CCB14	CCB15
	As	As	-	As	BT	As	-								
						DT									

6. Continuing Calibration Verification Exception Table

L

Metal	200.7 (5%) Values above 5%	6010B (10%) Values above 10%
CCV1	Fe, Mg, Na	Na
CCV2	Fe, Mg, Na, Sb, Ti, Zr	Na
CCV3	Fe, Mg, Na	
CCV4	Fe, Mg, Na	Na
CCV5	B, Fe, Mn, Na	B, Na
CCV6	As, Bi, B, Ca, Fe, K, Na, Mo, Na, Sr, Ti, Te	As, Fe, Mg, Na
CCV7	Ba, Fe, Mn, V	
CCV8		
CCV9		
CCV10		
CCV11		
CCV12		
CCV13		
CCV14		
CCV15		

Comments

200.7 - ✓

AutoSampler Report Table: PLASMA1 02/16/01 10:00:39 AM

page 1

Table Name: PLASMA1 Autosampler Type: TYPE TJA
 Sample Positions: 42/192 QC Positions: 19/19 # Sets: 1
 Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	19	10
2	Sample (16mm)	Samples	0	1
3	Sample (16mm)	Samples	0	1
4	Sample (16mm)	Samples	0	1
5	Sample (16mm)	Samples	42	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		ICPT	150	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor
No Samples Prepared.				

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
(1...19 Not Used)						

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	DISS. BLANK	1	-NA-	Sample
2	1	2	V13-SO-34 S.B.	1	-NA-	Sample
3	1	3	V24-AQ-55 S.B.	1	-NA-	Sample
4	1	4	V24-AQ-56 S.B.	1	-NA-	Sample
5	1	5	2-06-01 BLANK F2	1	-NA-	Sample
6	1	6	2-06-01 BLANK F1	1	-NA-	Sample
7	1	7	V13-SO-34 LC.	1	-NA-	Sample
8	1	8	V24-AQ-55 LC.	1	-NA-	Sample
9	1	9	V24-AQ-56 LC.	1	-NA-	Sample
10	1	10	0102-093-01 10	1	-NA-	Sample
11	1	11	CCB1	1	-NA-	Sample
12	1	12	CCV1	1	-NA-	Sample
13	2	1	0102-093-02 10	1	-NA-	Sample
14	2	2	0102-093-03 10	1	-NA-	Sample
15	2	3	0102-093-04 5	1	-NA-	Sample
16	2	4	0102-094-01 5	1	-NA-	Sample
17	2	5	0102-094-01 25	1	-NA-	Sample
18	2	6	0102-094-02 5	1	-NA-	Sample
19	2	7	0102-094-02 25	1	-NA-	Sample
20	2	8	0102-094-03 5	1	-NA-	Sample
21	2	9	0102-094-03 25	1	-NA-	Sample

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
22	2	10	0102-094-04 5	1	-NA-	Sample
23	2	11	CCB2	1	-NA-	Sample
24	2	12	CCV2	1	-NA-	Sample
25	3	1	0102-094-04 25	1	-NA-	Sample
26	3	2	0102-095-01 25	1	-NA-	Sample
27	3	3	0102-095-02 25	1	-NA-	Sample
28	3	4	0102-095-03 25	1	-NA-	Sample
29	3	5	0102-095-04 25	1	-NA-	Sample
30	3	6	0102-095-05 10	1	-NA-	Sample
31	3	7	0102-096-01 25	1	-NA-	Sample
32	3	8	0102-096-02 25	1	-NA-	Sample
33	3	9	0102-097-01 25	1	-NA-	Sample
34	3	10	0102-097-02 25	1	-NA-	Sample
35	3	11	CCB3	1	-NA-	Sample
36	3	12	CCV3	1	-NA-	Sample
37	4	1	0102-097-03 10	1	-NA-	Sample
38	4	2	0102-097-04 10	1	-NA-	Sample
39	4	3	0102-097-05 25	1	-NA-	Sample
40	4	4	0102-097-06 25	1	-NA-	Sample
41	4	5	0102-097-07 25	1	-NA-	Sample
42	4	6	0102-097-08 25	1	-NA-	Sample
43	4	7	0102-097-09 10	1	-NA-	Sample
44	4	8	0102-097-10 10	1	-NA-	Sample
45	4	9	0102-097-11 5	1	-NA-	Sample
46	4	10	0102-097-11 25	1	-NA-	Sample
47	4	11	CCB4	1	-NA-	Sample
48	4	12	CCV4	1	-NA-	Sample

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	0102-097-12 5	1	-NA-	Sample
2	1	2	0102-097-12 25	1	-NA-	Sample
3	1	3	0102-412-27	1	-NA-	Sample
4	1	4	0102-412-27 MS	1	-NA-	Sample
5	1	5	0102-412-27 MSD	1	-NA-	Sample
6	1	6	0102-146-01	1	-NA-	Sample
7	1	7	0102-146-01 MS	1	-NA-	Sample
8	1	8	0102-121-01	1	-NA-	Sample
9	1	9	0102-134-01	1	-NA-	Sample
10	1	10	0102-166-01 DIS.	1	-NA-	Sample
11	1	11	CCB5	1	-NA-	Sample
12	1	12	CCV5	1	-NA-	Sample
13	2	1	0102-166-01	1	-NA-	Sample
14	2	2	0102-166-01 MS	1	-NA-	Sample
15	2	3	0102-166-01 MSD	1	-NA-	Sample
16	2	4	0102-172-01	1	-NA-	Sample
17	2	5	0102-204-02	1	-NA-	Sample
18	2	6	0102-207-02	1	-NA-	Sample
19	2	7	0102-213-01	1	-NA-	Sample
20	2	8	0102-218-01	1	-NA-	Sample
21	2	9	0102-218-02	1	-NA-	Sample

AutoSampler Report Table: PLASMA1

02/16/01 10:00:39 AM

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Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
22	2	10	0102-218-03	1	-NA-	Sample
23	2	11	CCB6	1	-NA-	Sample
24	2	12	CCV6	1	-NA-	Sample
25	3	1	0102-218-03 MS	1	-NA-	Sample
26	3	2	0102-218-03 MSD	1	-NA-	Sample
27	3	3	0102-218-04	1	-NA-	Sample
28	3	4	0102-218-05	1	-NA-	Sample
29	3	5	0102-218-06	1	-NA-	Sample
30	3	6	0102-218-07	1	-NA-	Sample
31	3	7	0102-218-08	1	-NA-	Sample
32	3	8	0102-218-09	1	-NA-	Sample
33	3	9	0102-036-01 5	1	-NA-	Sample
34	3	10	0102-066-01 100	1	-NA-	Sample
35	3	11	CCB7	1	-NA-	Sample
36	3	12	CCV7	1	-NA-	Sample
37	4	1	ICSA	1	-NA-	Sample
38	4	2	ICSAB	1	-NA-	Sample
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-

FORM 3
INITIAL AND CONTINUING CALIBRATION BLANKS
ICP METALS

Lab Name Environmental Testing and Consulting, Inc Instrument ICPT

Date/Time of Sequence 02/13/01 1045

Analyte	Initial Calibration Blank ug/L	CCB1	CCB5	CCB6	CCB7	Continuing Calibration Blank ug/L				
Silver	ND	ND	ND	ND	ND					
Arsenic	ND	ND	ND	ND	ND					
Barium	ND	ND	ND	ND	ND					
Cadmium	ND	ND	ND	ND	ND					
Chromium	ND	ND	ND	ND	ND					
Lead	ND	ND	ND	ND	ND					
Selenium	ND	ND	ND	ND	ND					

000147

FORM 4
INTERFERENCE CHECK SAMPLE
ICP METALS

Lab Name Environmental Testing and Consulting, Inc

Date/Time of Sequence 02/13/01 1045 Instrument ICPT

Concentration Units: ug/L

Analyte	True Sol	Initial Found		Final Found	
	AB	Sol AB	%REC	Sol AB	%REC
Silver	200	217	109	215	108
Aluminum	250000	249000	100	246000	98
Arsenic	200	215	108	215	108
Barium	500	548	110	548	110
Calcium	250000	237000	95	236000	94
Cadmium	200	205	103	207	104
Chromium	200	199	100	200	100
Iron	100000	97600	98	956300	956
Magnesium	250000	257000	103	254000	102
Lead	200	211	106	209	105
Selenium	200	214	107	214	107

Concentration Units: ug/L

Analyte	True Sol	Initial Found		Final Found	
	A	Sol A	%REC	Sol A	%REC
Silver	0	ND	0	ND	0
Aluminum	250000	252000	101	248000	99
Arsenic	0	ND	0	ND	0
Barium	0	ND	0	ND	0
Calcium	250000	246000	98	242000	97
Cadmium	0	ND	0	ND	0
Chromium	0	ND	0	ND	0
Iron	100000	96500	97	93800	94
Magnesium	250000	256000	102	252000	101
Lead	0	ND	0	ND	0
Selenium	0	ND	0	ND	0

ENVIRONMENTAL TESTING & CONSULTING, INC **ICP Metals Sequence Check List**

Sequence ID : 22301 System ID : ICP/ICPT Date/Time: 2-23-01 1240 Analyst : JH
 Supervisor: JF

1. Instrument Profile Intensity Check 8326
2. Initial Calibration
 - a. Initial Calibration Blank (STD1-Blank)
 - b. Initial Calibration Standard 1 (C1) 3 Exposures at less than 3% RSD
 - c. Initial Calibration Standard 2 (C2) 3 Exposures at less than 3% RSD
 - d. Initial Calibration Standard 3 (C3) 3 Exposures at less than 3% RSD
 - e. Initial Calibration Standard 4 (C4) 3 Exposures at less than 3% RSD
 - f. Standardization Report
3. Initial Calibration Readback (+/- 5% Difference Check Table)

		Failures
a. Initial Calibration Standard 1 (C1) _____	✓	_____
b. Initial Calibration Standard 2 (C2) _____	✓	_____
c. Initial Calibration Standard 3 (C3) _____	✓	_____
d. Initial Calibration Standard 4 (C4) _____	✓	_____
4. Initial Calibration Verification

e. Initial Calibration Blank (ICB) – All elements below MDL/MQL _____	✓	_____
f. Initial Calibration Verification (ICV1) – (5%) _____	✓	_____
g. Low Level Check (LLC1) – (20%) _____	✓	_____
h. Low Level Check (LLC2) – (20%) _____	—	_____
i. Interelement Correction Standard – Initial (ICSAB) – (20%) _____	✓	_____
j. Interelement Correction Standard – Final (ICSAB) – (20%) _____	✓	_____

Comments _____

Applicable ETC Order Nos. for this sequence:

<u>V13-50-41</u>	<u>0102-456</u>			
<u>42</u>	<u>471</u>			
<u>V24-AQ-72</u>	<u>489</u>			
<u>0102-359</u>	<u>491</u>			
<u>436</u>	<u>459</u>			
<u>594</u>				
<u>622</u>				
<u>218</u>				
<u>614</u>				
<u>503</u>				
<u>594</u>				
<u>533</u>				

ENVIRONMENTAL TESTING & CONSULTING, INC
ICP Metals Sequence Check List

5. Continuing Calibration Blanks

Metal	CCB1	CCB2	CCB3	CCB4	CCB5	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	CCB12	CCB13	CCB14	CCB15
	21	—	20	—	20	20	20								
			20			20									

6. Continuing Calibration Verification Exception Table

Metal	200.7 (5%) Values above 5%	6010B (10%) Values above 10%
CCV1	As,	
CCV2	As,	
CCV3	—	
CCV4	As, V,	
CCV5	As, Al, Ag, Cu, Fe, V, Mn, V	
CCV6	As, Al, Ag, Cu, Fe, V, Mn, V, Zn, Pb, Sn	
CCV7	As, Al, Ag, Cu, Fe, V, Mn, V, Zn, Pb, Sn	As
CCV8		
CCV9		
CCV10		
CCV11		
CCV12		
CCV13		
CCV14		
CCV15		

Comments

LCAD - K

Table Name: PLASMA1

Autosampler Type: TYPE TJA

Sample Positions: 42/192

QC Positions: 19/19

Sets: 1

Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	19	10
2	Sample (16mm)	Samples	0	1
3	Sample (16mm)	Samples	0	1
4	Sample (16mm)	Samples	0	1
5	Sample (16mm)	Samples	42	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		ICPT	150	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor
No Samples Prepared.				

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
(1...19			Not Used)			

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	V13-SO-41 S.B.	1	-NA-	Sample
2	1	2	V13-SO-42 S.B.	1	-NA-	Sample
3	1	3	V24-AQ-72 S.B.	1	-NA-	Sample
4	1	4	V13-SO-41 LC.	1	-NA-	Sample
5	1	5	V13-SO-42 LC.	1	-NA-	Sample
6	1	6	V24-AQ-72 LC.	1	-NA-	Sample
7	1	7	0102-359-03 5	1	-NA-	Sample
8	1	8	0102-436-02	1	-NA-	Sample
9	1	9	0102-436-02 5	1	-NA-	Sample
10	1	10	0102-436-02 PDS	1	-NA-	Sample
11	1	11	CCB1	1	-NA-	Sample
12	1	12	CCV1	1	-NA-	Sample
13	2	1	0102-436-02 MS	1	-NA-	Sample
14	2	2	0102-436-02 MSD	1	-NA-	Sample
15	2	3	0102-594-01	1	-NA-	Sample
16	2	4	0102-622-01	1	-NA-	Sample
17	2	5	0102-218-01	1	-NA-	Sample
18	2	6	0102-218-02	1	-NA-	Sample
19	2	7	0102-218-03	1	-NA-	Sample
20	2	8	0102-218-04	1	-NA-	Sample
21	2	9	0102-218-05	1	-NA-	Sample

AutoSampler Report Table: PLASMA1

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Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
22	2	10	0102-218-06	1	-NA-	Sample
23	2	11	CCB2	1	-NA-	Sample
24	2	12	CCV2	1	-NA-	Sample
25	3	1	0102-218-07	1	-NA-	Sample
26	3	2	0102-218-08	1	-NA-	Sample
27	3	3	0102-218-09	1	-NA-	Sample
28	3	4	0102-614-01	1	-NA-	Sample
29	3	5	0102-614-02	1	-NA-	Sample
30	3	6	0102-614-03	1	-NA-	Sample
31	3	7	0102-614-04	1	-NA-	Sample
32	3	8	0102-614-05	1	-NA-	Sample
33	3	9	0102-614-06	1	-NA-	Sample
34	3	10	0102-614-07	1	-NA-	Sample
35	3	11	CCB3	1	-NA-	Sample
36	3	12	CCV3	1	-NA-	Sample
37	4	1	0102-614-08	1	-NA-	Sample
38	4	2	0102-614-09	1	-NA-	Sample
39	4	3	0102-614-10	1	-NA-	Sample
40	4	4	0102-614-11	1	-NA-	Sample
41	4	5	0102-614-12	1	-NA-	Sample
42	4	6	0102-614-13	1	-NA-	Sample
43	4	7	0102-614-14	1	-NA-	Sample
44	4	8	0102-614-15	1	-NA-	Sample
45	4	9	0102-614-16	1	-NA-	Sample
46	4	10	0102-614-17	1	-NA-	Sample
47	4	11	CCB4	1	-NA-	Sample
48	4	12	CCV4	1	-NA-	Sample

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	0102-614-18	1	-NA-	Sample
2	1	2	0102-614-19	1	-NA-	Sample
3	1	3	0102-614-19 5	1	-NA-	Sample
4	1	4	0102-614-19 PDS	1	-NA-	Sample
5	1	5	0102-614-19 MS	1	-NA-	Sample
6	1	6	0102-614-19 MSD	1	-NA-	Sample
7	1	7	0102-503-01	1	-NA-	Sample
8	1	8	0102-503-01 MS	1	-NA-	Sample
9	1	9	0102-503-01 MSD	1	-NA-	Sample
10	1	10	0102-594-01	1	-NA-	Sample
11	1	11	CCB5	1	-NA-	Sample
12	1	12	CCV5	1	-NA-	Sample
13	2	1	0102-594-01 MS	1	-NA-	Sample
14	2	2	0102-533-01	1	-NA-	Sample
15	2	3	0102-533-01 MS	1	-NA-	Sample
16	2	4	0102-456-01	1	-NA-	Sample
17	2	5	0102-456-01 MS	1	-NA-	Sample
18	2	6	0102-471-05	1	-NA-	Sample
19	2	7	0102-471-05 MS	1	-NA-	Sample
20	2	8	0102-471-05 MSD	1	-NA-	Sample
21	2	9	0102-489-01	1	-NA-	Sample

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AutoSampler Report Table: PLASMA1

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Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
22	2	10	0102-489-01 MS	1	-NA-	Sample
23	2	11	CCB6	1	-NA-	Sample
24	2	12	CCV6	1	-NA-	Sample
25	3	1	0102-491-01	1	-NA-	Sample
26	3	2	0102-491-01 MS	1	-NA-	Sample
27	3	3	0102-459-01	1	-NA-	Sample
28	3	4	0102-459-01 MS	1	-NA-	Sample
29	3	5	CCB7	1	-NA-	Sample
30	3	6	CCV7	1	-NA-	Sample
31	3	7	ICSA	1	-NA-	Sample
32	3	8	ICSAB	1	-NA-	Sample
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-

000153

FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
ICP METALS

Lab Name Environmental Testing and Consulting, Inc

Date/Time of Sequence 02/23/01 1240 Instrument ICPT

Initial Calibration Source C1 M5-30-21 C2 M5-22-14 C3 M5-20-05 C4 M5-18-04

Continuing Calibration Source ICP/CCV M5-29-18

Analyte	Initial Calibration Verification			Continuing CCV1			Continuing CCV2			Continuing CCV3		
	True	Found	%Diff(1)	Flag	True	Found	%Diff(1)	Flag	Found	%Diff(1)	Flag	Found
Arsenic	500	497	1	<5	500	490	2	<5	498	0	<5	496
												1
												<5

Analyte	Continuing CCV4			Continuing CCV5			Continuing CCV6		
	True	Found	%Diff(1)	Flag	Found	%Diff(1)	Flag	Found	%Diff(1)
Arsenic	500	502	0	<5	508	2	<5		

(1) Percent difference from true value. ICP Method 6010B - 10% ICP Method 200.7 - 5%

FORM 3
INITIAL AND CONTINUING CALIBRATION BLANKS
ICP METALS

Lab Name: Environmental Testing and Consulting, Inc. Date/Time of Sequence: 02/23/01 1240 Instrument: ICPT

Analyte	Initial Calibration Blank ug/L	Continuing Calibration Blank ug/L				
		CCB1	CCB2	CCB3	CCB4	CCB5
Arsenic	ND	ND	ND	ND	ND	ND

FORM 4
INTERFERENCE CHECK SAMPLE
ICP METALS

Lab Name Environmental Testing and Consulting, Inc

Date/Time of Sequence 02/23/01 1240 Instrument ICPT

Concentration Units: ug/L

Analyte	True Sol	Initial Found		Final Found	
	AB	Sol AB	%REC	Sol AB	%REC
Aluminum	250000	253000	101	268000	107
Arsenic	200	210	105	220	110
Calcium	250000	247000	99	255000	102
Iron	100000	99100	99	104000	104
Magnesium	250000	259000	104	270000	108

Concentration Units: ug/L

Analyte	True Sol	Initial Found		Final Found	
	A	Sol A	%REC	Sol A	%REC
Aluminum	250000	254000	102	271000	108
Arsenic	0	ND	0	ND	0
Calcium	250000	255000	102	264000	106
Iron	100000	97200	97	102000	102
Magnesium	250000	256000	102	268000	107

ENVIRONMENTAL TESTING & CONSULTING, INC

Mercury Sequence Check List

Sequence ID : 01021200.D8Date/Time: 2/12/01 1327Analyst : JF

Instrument ID: CETAC M-6000A

Supervisor: MJ

1. General Maintenance Check

Action Taken

- a. Lamp Warm-up ☒
- b. Pump Winding ☒
- c. Check GLS ☒
- d. Nafion Dryer ☒

2. Sequence Check List

Initial Calibration

- a. Initial Calibration Blank (STD1-Blank)
- b. Initial Calibration Standard 1 0.20 ug/L
- c. Initial Calibration Standard 2 1.0 ug/L
- d. Initial Calibration Standard 3 2.0 ug/L
- e. Initial Calibration Standard 4 5.0 ug/L
- f. Initial Calibration Standard 5 10.0 ug/L

✓

✓

✓

✓

✓

✓

3. Regression coefficient (minimum = 0.995)

✓

4. Initial Calibration Blank (ICB) - All elements below MQL

Water = 0.20 ug/L Soil = 0.02 mg/Kg

✓

5. Initial Calibration Verification (ICV) - 2nd Source SRN: M5-29-07

Concentration 5.0 ug/L +/- 10%

Found: 5.19 %Difference: 4

6. Continuing Calibration Blank (CCB) - All elements below MQL indicate by ✓

Metal	CCB1	CCB2	CCB3	CCB4	CCB5	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	CCB12	CCB13	CCB14	CCB15
Hg	✓	✓	✓	✓											

7. Continuing Calibration Verification (CCV) - Range: EPA 90-110% SW-846 80-120%

All elements within QC limits indicate by ✓ (Concentration same as ICV) SRN: M5-29-07

Metal	CCV1	CCV2	CCV3	CCV4	CCV5	CCV6	CCV7	CCV8	CCV9	CCV10	CCV11	CCV12	CCV13	CCV14	CCV15
Hg	✓	✓	✓	✓											

Applicable ETC Order Nos. for this sequence:

0102218010205301021720102270

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Monday, February 12, 2001

Page: 1

Tube	Rack ID	Sample ID	Weight	Volume	Sample Type
1		ICB	1	1	Unknown
2		ICV	1	1	Unknown
3		BLK V07-AQ-97	1	1	Unknown
4		LCS V07-AQ-97	1	1	Unknown
5		0102-218-01	1	1	Unknown
6		0102-218-02	1	1	Unknown
7		0102-218-03	1	1	Unknown
8		0102-218-03 MS	1	1	Unknown
9		0102-218-03 MSD	1	1	Unknown
10		0102-218-04	1	1	Unknown
11		0102-218-05	1	1	Unknown
12		0102-218-06	1	1	Unknown
13		CCB1	1	1	Unknown
14		CCV1	1	1	Unknown
15		0102-218-07	1	1	Unknown
16		0102-218-08	1	1	Unknown
17		0102-218-09	1	1	Unknown
18		0102-172-01	1	1	Unknown
19		0102-270-01	1	1	Unknown
20		0102-270-02	1	1	Unknown
21		0102-270-02 MS	1	1	Unknown
22		0102-270-02 MSD	1	1	Unknown
23		0102-053-01	1	1	Unknown
24		0102-053-02	1	1	Unknown
25		CCB2	1	1	Unknown
26		CCV2	1	1	Unknown
27		0102-270-02 PDS	1	1	Unknown
28		CCB3	1	1	Unknown
29		CCV3	1	1	Unknown

650 446

FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
MERCURY

Lab Name Environmental Testing and Consulting, Inc
Date/Time of Sequence 02/12/01 1327 Instrument M6000
Initial Calibration Source C1 M5-29-06
Continuing Calibration Source ICV/CCV M5-29-07

Analyte	Initial Calibration Verification			Continuing CCV1			Continuing CCV2			Continuing CCV3		
	True	Found	%Diff(1)	True	Found	%Diff(1)	Found	%Diff(1)	Flag	Found	%Diff(1)	Flag
Mercury	5.00	5.19	3.8	5.00	5.2	4.0	5.16	3.2	<5	5.14	2.8	<5

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FORM 3

Environmental Testing and Consulting, Inc

Continuing Calibration Blank ug/L

000160

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
GC/MS Volatiles**

ENVIRONMENTAL TESTING & CONSULTING, INC.
GC/MS VOC Method 8260B Sequence Check List (SW-846)

Sequence ID V102131
Date 2-14-01

Matrix: H₂O

Analyst ES

Applicable ETC Order Nos. for this sequence:

0102-164-1 0102-265-1-3
0102-218-1-9 0102-161-2

Validated

1. BFB Daily 12-Hour Tune Meets Criteria. No analyses begins until criteria are met. (SOP) ☒
2. Initial Calibration Verification Criteria - Method 101091.8260M
 - a. SPCC - Mean RF ≥ 0.10 (≥ 0.30 for Chlorobenzene / 1122-Tetrachloroethene) ☒
 - b. CCC - RSD of RF for CCCs and Target Analytes MUST BE $\leq 30\%$ ☒
 - c. RSD of analytes $\leq 15\%$ may use Average RF for quantitation ☒
 - d. Analytes w/RSD $> 15\%$ use Linear Regression - correlation coefficient > 0.99 ☒

3. Calibration Verification - Each 12-Hour Shift

- a. SPCC - Mean RF ≥ 0.10 (≥ 0.30 for Chlorobenzene / 1122-Tetrachloroethene) ☒
- b. CCC - % Difference for Average RF Calibration - $\leq 20\%$ ☒
- c. CCC - % Drift for Linear Regression Calibration - $\leq 20\%$ ☒
- d. % Difference/% Drift for all other Target Analytes - $\leq 30\%$ ☒

- e. Internal Standards - Retention Times within ± 30 seconds from Mid-Point ICAL STD ☒
- f. Internal Standards - Areas within $(-50\% \text{ to } +100\%)$ from Mid-Point ICAL STD ☒

4. Method Blanks included in this sequence:

Analyze daily or for each analytical batch (20 samples):

List compounds identified in Method Blank w/concentration.

Flag final result "B-Detected in Blank"

MEC12 = DDL

5. Matrix Spike/Matrix Spike Duplicates included in this sequence:

Analyze daily or for each matrix (ms/msd per 20 samples of same matrix)

List MS/MSD(s) performed with any failures:

* 0102-218-3 Tms, MSD
6 out of 22 recoveries exceed QC limits.

6. Laboratory Control Samples included in this sequence:

Must contain all Target Analytes.

7. Surrogate Recoveries within QC Limits

8. All positive compounds within calibration range

Narrative/Notes:

656 450

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID: 0101001

BFB Injection Date: 02/13/01

Instrument ID: VOC1

BFB Injection Time: 1349

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.0
75	30.0 - 60.0% of mass 95	51.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	93.1
175	5.0 - 9.0% of mass 174	7.6 (8.2)1
176	95.0 - 101.0% of mass 174	89.2 (95.9)1
177	5.0 - 9.0% of mass 176	5.6 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DCS100		0201002	02/13/01	1408
02	V1021311LCS		0201002TLCS	02/13/01	1408
03	DCS100		0202002	02/13/01	1453
04	V1021311LB		0303004T	02/13/01	1606
05	0102-218-1T		0801009	02/13/01	1827
06	0102-218-2T		0901010	02/13/01	1855
07	0102-218-3T		1001011	02/13/01	1923
08	0102-218-4T		1101012	02/13/01	1951
09	0102-218-5T		1201013	02/13/01	2019
10	0102-218-6T		1301014	02/13/01	2047
11	0102-218-7T		1401015	02/13/01	2115
12	0102-218-8T		1501016	02/13/01	2143
13	0102-218-9T		1601017	02/13/01	2211
14	0102-218-3TM		1901020	02/13/01	2336
15	0102-218-3TM		2001021	02/14/01	0004
16					
17					
18					
19					
20					
21					
22					

FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: VOC1

Calibration Date: 02/13/01 Time: 1408

Lab File ID: 0201002

Init. Calib. Date(s): 01/09/01 01/09/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1311 1754

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Acetone	81.12	100.0	AVRG	18.9	30.0
Acetonitrile	1254	1000	AVRG	25.4	30.0
Acrolein	61.28	100.0	AVRG	38.7	30.0
Acrylonitrile	107.6	100.0	AVRG	7.6	30.0
Allyl chloride	82.94	100.0	AVRG	17.1	30.0
Benzene	82.41	100.0	AVRG	17.6	30.0
Bromobenzene	101.8	100.0	AVRG	1.8	30.0
Bromochloromethane	91.58	100.0	AVRG	8.4	30.0
Bromodichloromethane	103.3	100.0	AVRG	3.3	30.0
Bromoform	121.2	100.0	AVRG	21.2	30.0
2-Butanone	102.0	100.0	AVRG	2.0	30.0
Bromomethane	53.46	100.0	AVRG	46.5	30.0
n-Butylbenzene	105.5	100.0	AVRG	5.5	30.0
sec-Butylbenzene	101.8	100.0	AVRG	1.8	30.0
tert-Butylbenzene	98.48	100.0	AVRG	1.5	30.0
Carbon Disulfide	71.02	100.0	AVRG	29.0	30.0
Carbon Tetrachloride	81.51	100.0	AVRG	18.5	30.0
Chlorobenzene	91.24	100.0	AVRG	8.8	30.0
Chlorodibromomethane	119.6	100.0	AVRG	19.6	30.0
Chloroethane	99.25	100.0	AVRG	0.8	30.0
2-Chloroethyl vinyl ether	81.96	100.0	AVRG	18.0	30.0
Chloroform	93.10	100.0	AVRG	6.9	20.0
Chloromethane	60.44	100.0	AVRG	39.6	30.0
Chloroprene	80.66	100.0	AVRG	19.3	30.0
2-Chlorotoluene	102.8	100.0	AVRG	2.8	30.0
4-Chlorotoluene	102.0	100.0	AVRG	2.0	30.0
1,2-Dibromo-3-chloropropane	108.6	100.0	AVRG	8.6	30.0
1,2-Dibromoethane	120.4	100.0	AVRG	20.4	30.0
Dibromomethane	104.9	100.0	AVRG	4.9	30.0
1,2-Dichlorobenzene	102.8	100.0	AVRG	2.8	30.0
1,3-Dichlorobenzene	98.98	100.0	AVRG	1.0	30.0
1,4-Dichlorobenzene	99.70	100.0	AVRG	0.3	30.0
trans-1,4-Dichloro-2-butene	112.3	100.0	AVRG	12.3	30.0
Dichlorodifluoromethane	48.94	100.0	AVRG	51.1	30.0
1,1-Dichloroethane	94.12	100.0	AVRG	5.9	30.0
1,2-Dichloroethane	92.31	100.0	AVRG	7.7	30.0
1,1-Dichloroethene	84.18	100.0	AVRG	15.8	20.0

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FORM 7
 VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: VOC1

Calibration Date: 02/13/01 Time: 1408

Lab File ID: 0201002

Init. Calib. Date(s): 01/09/01 01/09/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1311 1754

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
cis-1,2-Dichloroethene	90.73	100.0	AVRG	9.3	30.0
trans-1,2-Dichloroethene	83.55	100.0	AVRG	16.4	30.0
1,2-Dichloropropane	93.95	100.0	AVRG	6.0	20.0
1,3-Dichloropropane	115.8	100.0	AVRG	15.8	30.0
2,2-Dichloropropane	95.82	100.0	LINR	4.2	30.0
1,1-Dichloropropene	81.41	100.0	AVRG	18.6	30.0
cis-1,3-Dichloropropene	114.8	100.0	AVRG	14.8	30.0
trans-1,3-Dichloropropene	104.9	100.0	AVRG	4.9	30.0
Di isopropyl ether	87.37	100.0	AVRG	12.6	30.0
1,4-Dioxane	2320	2000	AVRG	16.0	30.0
Ethyl Acetate	103.2	100.0	AVRG	3.2	30.0
Ethylbenzene	95.65	100.0	AVRG	4.4	20.0
Ethyl methacrylate	231.2	200.0	AVRG	15.6	30.0
Furan	134.3	153.0	AVRG	12.2	30.0
Hexachlorobutadiene	117.6	100.0	AVRG	17.6	30.0
Hexane	82.40	117.0	LINR	29.6	30.0
2-Hexanone	114.7	100.0	AVRG	14.7	30.0
Iodomethane	57.06	100.0	LINR	42.9	30.0
Isobutyl Alcohol	2047	2000	AVRG	2.4	30.0
Isopropylbenzene	102.2	100.0	AVRG	2.2	30.0
4-Isopropyltoluene	104.2	100.0	AVRG	4.2	30.0
Methacrylonitrile	970.0	1000	AVRG	3.0	30.0
Methylene Chloride	106.7	100.0	LINR	6.7	30.0
Methyl methacrylate	213.5	200.0	AVRG	6.8	30.0
4-Methyl-2-Pentanone	107.7	100.0	AVRG	7.7	30.0
Methyl-tertbutyl-Ether	87.18	100.0	AVRG	12.8	30.0
Naphthalene	101.4	100.0	AVRG	1.4	30.0
Pentachloroethane	119.9	100.0	AVRG	19.9	30.0
Propionitrile	1130	1000	AVRG	13.0	30.0
n-Propyl Acetate	154.2	151.0	AVRG	2.1	30.0
n-Propylbenzene	104.0	100.0	AVRG	4.0	30.0
Styrene	100.4	100.0	AVRG	0.4	30.0
1,1,1,2-Tetrachloroethane	104.0	100.0	AVRG	4.0	30.0
1,1,2,2-Tetrachloroethane	99.56	100.0	AVRG	0.4	30.0
Tetrachloroethene	102.0	100.0	AVRG	2.0	30.0
Tetrahydrofuran	85.53	91.50	AVRG	6.5	30.0
1,2,3-Trichlorobenzene	111.1	100.0	AVRG	11.1	30.0

FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: VOC1

Calibration Date: 02/13/01 Time: 1408

Lab File ID: 0201002

Init. Calib. Date(s): 01/09/01 01/09/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1311 1754

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Toluene	104.8	100.0	AVRG	4.8	20.0
1,1,1-Trichloroethane	87.52	100.0	AVRG	12.5	30.0
1,1,2-Trichloroethane	110.0	100.0	AVRG	10.0	30.0
1,1,2-trichloro-1,2,2-triflu	77.86	100.0	AVRG	22.1	30.0
Trichloroethene	93.92	100.0	AVRG	6.1	30.0
Trichlorofluoromethane	83.81	100.0	AVRG	16.2	30.0
1,2,3-Trichloropropane	111.9	100.0	AVRG	11.9	30.0
1,2,4-Trichlorobenzene	115.9	100.0	AVRG	15.9	30.0
1,2,4-Trimethylbenzene	102.0	100.0	AVRG	2.0	30.0
1,3,5-Trimethylbenzene	104.0	100.0	AVRG	4.0	30.0
Vinyl Acetate	62.12	100.0	AVRG	37.9	30.0
Vinyl Chloride	81.38	100.0	AVRG	18.6	20.0
Xylene-mp	181.2	200.0	AVRG	9.4	30.0
Xylene-o	97.70	100.0	AVRG	2.3	30.0
cis-1,4-Dichloro-2-butene	115.7	100.0	AVRG	15.7	30.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4	39.30	38.60	AVRG	1.8	30.0
Dibromofluoromethane	41.22	40.20	AVRG	2.5	30.0
Toluene-d8	47.22	43.00	AVRG	9.8	30.0
Bromofluorobenzene	47.16	47.70	AVRG	1.1	30.0

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FORM 7
VOA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: VOC1

Calibration Date: 02/13/01 Time: 1453

Lab File ID: 0202002

Init. Calib. Date(s): 01/09/01 01/09/01

Heated Purge: (Y/N) Y

Init. Calib. Times: 1311 1754

GC Column:

ID: 2.00 (mm)

COMPOUND	SAMPLE AMOUNT	CAL100 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Acrolein	70.61	100.0	AVRG	29.4	30.0
Bromomethane	101.1	100.0	AVRG	1.1	30.0
Chloromethane	122.7	100.0	AVRG	22.7	30.0
Dichlorodifluoromethane	119.0	100.0	AVRG	19.0	30.0
Iodomethane	110.3	100.0	LINR	10.3	30.0
Vinyl Acetate	79.46	100.0	AVRG	20.5	30.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4	39.73	38.60	AVRG	2.9	30.0
Dibromofluoromethane	38.61	40.20	AVRG	4.0	30.0
Toluene-d8	48.11	43.00	AVRG	11.9	30.0
Bromofluorobenzene	49.70	47.70	AVRG	4.2	30.0

FORM 8
VOA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

656 455

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID (Standard): 0202002

Date Analyzed: 02/13/01

Instrument ID: VOC1

Time Analyzed: 1453

GC Column: ID: 2.00 (mm)

Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	92850	8.28	845812	9.03	1012465	11.82
UPPER LIMIT	185700	8.78	1691624	9.53	2024930	12.32
LOWER LIMIT	46425	7.78	422906	8.53	506233	11.32
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 V1021311LB	66149	8.28	601092	9.04	703266	11.82
02 0102-218-1T	62394	8.29	553441	9.04	676709	11.82
03 0102-218-2T	56970	8.29	515285	9.04	637530	11.82
04 0102-218-3T	65390	8.29	547357	9.05	633934	11.82
05 0102-218-4T	60422	8.29	522916	9.04	614512	11.82
06 0102-218-5T	69377	8.29	579092	9.04	714579	11.82
07 0102-218-6T	62770	8.29	550847	9.04	592965	11.83
08 0102-218-7T	61125	8.29	526666	9.05	659128	11.82
09 0102-218-8T	62689	8.29	516678	9.04	622243	11.83
10 0102-218-9T	53950	8.29	459447	9.05	559271	11.83
11 0102-218-3TM	69020	8.29	580223	9.04	725078	11.83
12 0102-218-3TM	69912	8.29	610563	9.04	735455	11.83
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID (Standard): 0202002

Date Analyzed: 02/13/01

Instrument ID: VOC1

Time Analyzed: 1453

GC Column:

ID: 2.00 (mm)

Heated Purge: (Y/N) Y

	IS4 (DCB)					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	516871	14.15				
UPPER LIMIT	1033742	14.65				
LOWER LIMIT	258436	13.65				
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 V1021311LB	414972	14.15				
02 0102-218-1T	367722	14.16				
03 0102-218-2T	372166	14.16				
04 0102-218-3T	342590	14.16				
05 0102-218-4T	339446	14.16				
06 0102-218-5T	364255	14.16				
07 0102-218-6T	333190	14.17				
08 0102-218-7T	359764	14.16				
09 0102-218-8T	321970	14.16				
10 0102-218-9T	333275	14.17				
11 0102-218-3TM	359023	14.17				
12 0102-218-3TM	371536	14.16				
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Report Date : 18-Jan-2001 14:27

Page 1

Gina Savage 1-19-01
ML 1/22/01

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
End Cal Date : 09-JAN-2001 17:54
Quant Method : ISTD
Target Version : 4.00
Integrator : HP RTE
Method file : \\ETCBDC\DD\chem\voc1.i\101091.B\101091.8260.m
Cal Date : 18-Jan-2001 14:27 lisa

QC REVIEWED

Calibration File Names:

Level 1: \\ETCBDC\DD\chem\voc1.i\101091.B\0301005.D
Level 2: \\ETCBDC\DD\chem\voc1.i\101091.B\0401006.D
Level 3: \\ETCBDC\DD\chem\voc1.i\101091.B\0501008.D
Level 4: \\ETCBDC\DD\chem\voc1.i\101091.B\0601009.D
Level 5: \\ETCBDC\DD\chem\voc1.i\101091.B\0701010.D
Level 6: \\ETCBDC\DD\chem\voc1.i\101091.B\0801011.D
Level 7: \\ETCBDC\DD\chem\voc1.i\101091.B\0901012.D
Level 8: \\ETCBDC\DD\chem\voc1.i\101091.B\1001013.D
Level 9: \\ETCBDC\DD\chem\voc1.i\101091.B\1101014.D
Level 10: \\ETCBDC\DD\chem\voc1.i\101091.B\1201015.D

Compound	0.500000		1.0000		5.0000		20.0000		50.0000		100.0000		Curve		Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	b	m1	m2		
1 Dichlorodifluoromethane	+++	2.12914	2.88545	3.08205	2.82163	2.43600											
	3 04265	2.43799	2.51909	3.10247		AVRG									2.71739		12.80607

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656 457

Report Date : 18-Jan-2001 14:27

Page 2

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\volc1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 Lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m2	SRSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					or R^2
2 Chloromethane	0.72413	0.92465	0.95727	0.7338	0.74132	0.84599	AVRG		0.84063		12.67559
	0.73025	0.95849	0.80954	0.98028							
3 Vinyl Chloride	2.94404	2.87600	3.15762	2.29484	2.61572	2.93138	AVRG		2.71103		11.19374
	2.83531	2.34442	2.31180	2.79923							
4 Bromomethane	2.33577	1.85994	1.92296	1.50640	1.57541	1.68732	AVRG		1.80626		13.96882
	1.85938	1.55368	1.73771	2.02399							
5 Chloroethane	1.86189	2.36515	1.90185	1.96380	1.75577	2.08798	AVRG		1.86977		12.80074
	1.77233	1.58418	1.54032	1.86436							
6 Trichlorofluoromethane	5.42231	6.02181	5.60725	4.84098	4.57189	5.47348	AVRG		4.96747		12.85628
	4.74981	4.13541	4.11468	4.73712							

000171

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\voc1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000 Level 1	1.0000 Level 2	5.0000 Level 3	20.0000 Level 4	50.0000 Level 5	100.0000 Level 6	Curve	b	Coefficients ml	m2	RSD or R ²
7 Acetone	++++ 1.05905	++++ 1.11533	++++ 0.95392	1.23348 0.96156	1.09044	1.20163	AVRG	.	1.08792		9.90221
8 Furan	++++ 5.78442	++++ 5.22783	6.39213 5.08227	6.13277 5.49674	6.13085	6.49176	AVRG		5.84235		9.07959
9 1,1-Dichloroethene	3.97405 3.08995	3.72865 2.70221	3.59214 2.75168	3.04497 2.94782	3.00312	3.33350	AVRG		3.21681		13.24861
10 Acrylonitrile	++++ 0.90223	++++ 0.95099	6.92051 0.79630	0.89549 0.82257	0.88239	0.92652	AVRG		0.88712		5.94699
11 Iodomethane	1818 654783	3363 ++++	21756 ++++	88517 ++++	237277	551954	LINE	0.03116	3.01263		0.99060

Report Date : 18-Jan-2001 14:27

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
12 Methylene Chloride	24009	24283	49811	148769	347170	672548	LINEAR	-0.10408	3.42931			0.99567
	877698	985747	1135872	1416413								
13 1,1,2-trichloro-1,2,2-trifluoroethane	++++	3.27353	3.39741	2.85617	2.72756	2.85837						
	2.82498	2.23333	2.35720	2.58299			AVRG		2.79017			13.62972
14 Acetonitrile	++++	0.28948	0.28895	0.28097	0.29184	0.32408						
	0.28529	0.33259	0.27214	0.26851			AVRG		0.29265			7.44768
15 Allyl chloride	++++	6.27974	5.88297	5.24003	5.04111	5.21620						
	4.93181	4.31947	++++	++++			AVRG		5.27305			12.16605
16 Carbon Disulfide	10.86664	12.18636	10.68404	8.96046	8.69929	9.93247						
	8.62748	++++	++++	++++			AVRG		9.99382			13.33724

0006173

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDDC\DD\chem\vol1.i\101111.B\101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000		1.0000		5.0000		20.0000		50.0000		100.0000		Curve		Coefficients		b	ml		m2	RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	Level 13	Level 14	Level 15	Level 16	Level 17	Level 18	Level 19	Level 20	Level 21
17 trans-1,2-Dichloroethene	4 19303	4.31963	3.52431	3.41439	3.31949	3.60073							AVRG					3 53112			11.76830
18 Methyl-tertbutyl-Ether	7 85230	7.16246	6.94591	6.74566									AVRG					7.80145			10.77397
19 Propionitrile	0.34538	0.45268	0.39079	0.37139	0.35880	0.39857							AVRG					0 38014			9 67984
20 Chloroprene	5.51956	4.71782	4.88850	4.94983									AVRG					5.62878			13 44574
21 1,1-Dichloroethane	6.66087	6.99216	6.25832	6.18044	5.99343	6.55023							AVRG					6.14137			7.76583

Report Date : 18-Jan-2001 14:27

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
22 Vinyl Acetate	++++ 6 42358	++++ 5.81531	7 11384 5.78932	6.34866 5.59790	6.52982	6.49664	AVRG		6.26438		7.98156
23 2-Butanone	++++ 0.39718	++++ 0.43199	0.35494 0.38269	0.40363 0.36268	0.38568	0.40811	AVRG		0.39086		6.39220
24 Acrolein	++++ 0.21704	++++ 0.25801	0.22615 0.22470	0.22063 0.21410	0.24159	0.23192	AVRG		0.22927		6.32060
25 Hexane	++++ 1117903	12607 ++++	52206 ++++	171194 ++++	428937	880299	LINR	-0.01200	4.20325		0.99776
26 Di Isopropyl ether	++++ 10.14406	12 45305 8.49571	11.22659 8.76227	10.98515 8.40359	10 42186	9.85039	AVRG		10.08252		13.57905

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\voc1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
27 Methylacrylonitrile	1.96316	1.83584	1.74812	1.57805	1.65492	1.58907	AVRG		1.60468		12.80529
	1.53170	1.49599	1.33895	1.31097							
28 cis-1,2-Dichloroethene	4.58464	4.66019	4.23929	3.84811	3.75289	4.06435	AVRG		3.99408		9.72011
	3.91755	3.59961	3.67666	3.59751							
29 Ethyl Acetate	++++	++++	2.84169	2.78058	2.99752	2.92506	AVRG		2.83000		6.32784
	2.88847	3.05573	2.55456	2.59641							
30 Bromochloromethane	2.09246	1.88436	1.94870	1.93619	1.87396	1.88706	AVRG		1.89529		4.56414
	1.90151	1.78770	1.80470	1.83628							
31 Chloroform	7.67003	8.03701	7.03035	6.42536	6.58110	6.49181	AVRG		6.74523		9.47260
	6.55476	6.29871	6.13404	6.22913							

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
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 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
32 Isobutyl Alcohol	120.0000	150.0000	170.0000	200.0000								
	Level 7	Level 8	Level 9	Level 10								
	++++	++++	0.15970	0.14092	0.13827	0.16630	AVRG			0.15318		10.74685
	0.14856	0.18597	0.14346	0.14229								
33 2,2-Dichloropropane	7231	11413	49961	188535	490892	915682	LINR	-0.06188	4.75488			0.99195
	1240711	1287757	1586031	1920172								
35 Tetrahydrofuran	++++	++++	1.13384	1.51919	1.44891	1.57215	AVRG			1.45436		9.90066
	1.52296	1.58727	1.41459	1.43595								
38 1,2-Dichloroethane	5.35396	5.54790	5.05165	4.69093	4.96326	4.73316	AVRG			4.84179		8.07534
	4.78198	4.51668	4.35269	4.42572								
39 1,1,1-Trichloroethane	6.33994	6.56646	6.12288	5.83306	5.95206	5.84495	AVRG			5.78233		8.95535
	5.74179	4.91040	5.15583	5.35591								

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 Method file : \\ETCDBC\DD\chem\voc1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
40 1,1-Dichloropropene	6 20901	5.99677	5.34065	5.28827	5.06937	5 01616	AVRG		5.16283		11.52511
	5 15224	4.29777	4.64642	4.61167							
41 Carbon Tetrachloride	6 12907	6.32105	5.42972	5.24426	5.46183	5.21465	AVRG		5.29687		11.24393
	5.27953	4 46747	4.81261	4.60854							
42 Benzene	17.53331	15 38476	14.60088	13 76122	13.99770	12 89420	AVRG		14.00625		13.80631
	12 84388	11.03409	++++	++++							
44 1,4-Dioxane	++++	++++	0.00384	0 00322	0.00366	0 00404	AVRG		0.00377		10.35773
	0.00342	0.00450	0.00368	0.00380							
45 Dibromomethane	0.17077	0.21205	0.22950	0.22323	0.23413	0.22619	AVRG		0.22014		8.40682
	0.22730	0.23068	0.21821	0.22931							

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INITIAL CALIBRATION DATA

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 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000 Level 1	1.0000 Level 2	5.0000 Level 3	20.0000 Level 4	50.0000 Level 5	100.0000 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
46 1,2-Dichloropropane	0.38515 0.33770	0.43549 0.34240	0.38185 0.32811	0.35887 0.33808	0.36154	0.34298	AVRG	-	0.36122	-	8.94328
47 Trichloroethene	0.58365 0.57491	0.67104 0.55346	0.62448 0.54799	0.58654 0.57611	0.59575	0.57366	AVRG	-	0.58876	-	6.10115
48 n-Propyl Acetate	++++ 0.50668	0.57749 0.59016	0.54839 0.50980	0.50996 0.51728	0.55692	0.54282	AVRG	-	0.53994	-	5.75587
49 Bromodichloromethane	0.57001 0.51877	0.54293 0.51433	0.55678 0.50716	0.52266 0.51725	0.50690	0.50368	AVRG	-	0.52605	-	4.32796
50 Ethyl methacrylate	++++ 0.22542	0.27909 0.27242	0.24618 0.23510	0.23397 0.24065	0.23781	0.24213	AVRG	-	0.24586	-	7.31847

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 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\vol1.i\101111.B\101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m2	WRSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
51 Methyl methacrylate	0.18593	0.22488	0.21119	0.21847	0.21347	0.21879	AVRG		0.21534		5.95927
	0.20918	0.23765	0.21441	0.21846							
52 2-Chloroethyl vinyl ether	++++	0.16544	0.18857	0.19095	0.19073	0.20258	AVRG		0.19574		7.95518
	0.19573	0.22318	0.19790	0.20659							
53 4-Methyl-2-Pentanone	++++	++++	0.34846	0.35402	0.36345	0.38447	AVRG		0.36437		8.00262
	0.33998	0.42601	0.33631	0.36226							
54 trans-1,3-Dichloropropene	0.63700	0.66363	0.64138	0.61769	0.64560	0.63579	AVRG		0.63666		2.52793
	0.62339	0.65474	0.61141	0.63597							
55 cis-1,3-Dichloropropene	0.52170	0.56480	0.55837	0.53353	0.54372	0.58201	AVRG		0.56030		3.78686
	0.56981	0.57951	0.56493	0.58467							

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 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients m1	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
56 1,1,2-Trichloroethane	0.30664	0.28089	0.28931	0.27874	0.28019	0.27948	AVRG		0.28570		3.85684
	0.26931	0.29342	0.28105	0.29798							
58 Toluene	1.17334	1.23866	1.06543	0.96291	0.96313	0.98098	AVRG		1.00459		11.64297
	0.91428	0.91544	0.90384	0.92786							
59 1,3-Dichloropropane	0.56196	0.63972	0.59085	0.56584	0.55468	0.58443	AVRG		0.57754		5.04762
	0.54060	0.60766	0.55932	0.57030							
60 2-Hexanone	+++++	+++++	0.27490	0.26033	0.26275	0.29373	AVRG		0.27949		9.21317
	0.26473	0.33628	0.26153	0.28164							
61 Chlorodibromomethane	0.40629	0.41592	0.41520	0.39763	0.42286	0.44609	AVRG		0.43362		6.01680
	0.44455	0.47567	0.44431	0.46765							

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INITIAL CALIBRATION DATA

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 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	SRSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
62 1,2-Dibromoethane	++++ 0.34852	0.34612 0.39358	0.35662 0.35762	0.33495 0.36628	0.34802	0.37099	AVRG		0.35808			4.80361
63 Tetrachloroethene	0.47003 0.40234	0.43929 0.43572	0.44648 0.43783	0.44102 0.45511	0.41799	0.44325	AVRG		0.43891			4.22757
64 1,1,1,2-Tetrachloroethane	0.42914 0.41908	0.38659 0.39200	0.38293 0.42998	0.35889 0.41487	0.39485	0.42508	AVRG		0.40354			5.86380
66 Chlorobenzene	1.26415 1.02889	1.12956 0.96362	1.06463 1.02579	0.95685 0.97808	1.00306	1.07304	AVRG		1.04877			8.84615
67 Ethylbenzene	2.04329 1.70348	2.08739 1.52843	1.87447 1.61131	1.70445 1.50287	1.69054	1.75244	AVRG		1.74985			11.31189

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 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\volc1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0 500000	1 0000	Level 2	5 0000	Level 3	20 0000	Level 4	50 0000	Level 5	100 0000	Level 6	Curve	b	mi	Coefficients	m2	or R^2
68 Xylene-mp	0.90526	0.82649	0.78593	0.68030	0.66388	0.71355	AVRG							0.72200			13 57590
69 cis-1,4-Dichloro-2-butene	0.14193	0.13568	0.13190	0.12638	0.13607	0.15143	AVRG							0.13791			6.35986
70 Bromoform	0.23436	0.19937	0.22308	0.22204	0.24719	0.28106	AVRG							0.24480			12.34193
71 Styrene	1.15528	1.27447	1.24700	1.13329	1.13626	1.18851	AVRG							1.14699			6.65010
72 Xylene-o	0.84813	0.80213	0.76610	0.67070	0.67721	0.70773	AVRG							0.70305			11.16442

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INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.d\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000 Level 1	1.0000 Level 2	5.0000 Level 3	20.0000 Level 4	50.0000 Level 5	100.0000 Level 6	Curve	b	Coefficients ml	m2	SRSD or R^2
73 1,1,2,2-Tetrachloroethane	0.87529 0.87098	0.86880 0.87656	0.81638 0.79844	0.81846 0.79406	0.85084	0.83200	AVRG		0.84018		3.84875
74 1,2,3-Trichloropropane	0.14696 0.12654	0.12163 0.13016	0.12614 0.12864	0.11565 0.11561	0.12017	0.13059	AVRG		0.12621		7.24732
75 trans-1,4-Dichloro-2-butene	0.14083 0.14694	0.12018 0.15908	0.12128 0.15048	0.13351 0.13748	0.14207	0.15773	AVRG		0.14096		9.52831
76 Isopropylbenzene	2.05578 1.68178	2.14147 1.49871	1.95094 1.65624	1.74298 1.48050	1.73727	1.84126	AVRG		1.77869		12.38355
78 Bromobenzene	0.59007 0.45118	0.52395 0.41319	0.48588 0.44955	0.45479 0.43921	0.44963	0.48745	AVRG		0.47449		10.71790

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INITIAL CALIBRATION DATA

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 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 Lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	RSR	or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6							
79 n-Propylbenzene	++++	2.45597	2.40926	2.13532	2.06270	2.09839	AVRG			2.05656		12.47360	
	1.94964	1.75759	1.92461	1.71552									
80 2-Chlorotoluene	1.60886	1.57309	1.47179	1.31228	1.24036	1.38427	AVRG			1.32563		13.75623	
	1.25128	1.04523	1.21322	1.15594									
81 4-Chlorotoluene	0.60848	0.51301	0.50462	0.46736	0.45019	0.48560	AVRG			0.47407		12.37354	
	0.45110	0.40907	0.43709	0.41420									
82 1,3,5-Trimethylbenzene	++++	1.72685	1.63528	1.45751	1.38119	1.41878	AVRG			1.41846		11.79812	
	1.34376	1.23129	1.32556	1.24591									
83 Pentachloroethane	++++	0.54683	0.48866	0.51697	0.54616	0.53640	AVRG			0.51561		6.53600	
	0.54632	0.46460	0.47899	++++									

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 Integrator : HP RTE
 Method File : \\ETCDBC\DD\chem\vol1.i\VL01111.B\VL01091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m2	TRSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1		
84 tert-Butylbenzene	1.52083	1.60126	1.50222	1.36811	1.29133	1.41009	AVRG		1.35467		11.24540
	1.27939	1.16821	1.25145	1.15386							
85 1,2,4-Trimethylbenzene	++++	1.73109	1.60612	1.52362	1.38666	1.51463	AVRG		1.44673		10.98013
	1.36345	1.25518	1.37316	1.26663							
86 sec-Butylbenzene	2.27416	2.21019	2.21316	2.00380	1.85035	2.03869	AVRG		1.94548		12.33312
	1.85663	1.65469	1.73281	1.61229							
87 1,3-Dichlorobenzene	2.11906	2.13311	1.97172	1.89198	1.74109	1.70353	AVRG		1.83806		9.95622
	1.75136	1.59529	1.72859	1.74489							
88 4-Isopropyltoluene	++++	1.84676	1.78378	1.56307	1.44636	1.56613	AVRG				
	1.46051	1.27717	1.42008	1.28112					1.51633		13.07026

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 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0 500000	1.0000	5 0000	20 0000	50.0000	100 0000	Curve	b	Coefficients	m1	m2	TRSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	120.0000	150.0000	170.0000	200 0000								
	Level 7	Level 8	Level 9	Level 10								
90 1,4-Dichlorobenzene	2 43586	2.18988	1.91543	1.85218	1 80884	1.73582	AVRG			1.07384		13.88966
	1.67789	1 53265	1.81921	1 77055								
91 n-Butylbenzene	3 33012	3 27810	3.29184	3.28744	3 04710	2 99485	AVRG			3 02564		8.84555
	2 94778	2 61514	2.74614	2.71790								
92 1,2-Dichlorobenzene	1 71645	1.92383	1.69341	1.67215	1.59559	1.54998	AVRG					
	1.59268	1 46300	1.53714	1.53948						1 62837		8 01398
93 1,2-Dibromo-3-chloropropane	++++	0.20159	0.12704	0.15946	0.16596	0 17813	AVRG					
	0 17205	0.18243	0 17446	0 16386						0.16944		11 89693
94 1,2,4-Trichlorobenzene	1 38652	1.22887	1.11503	1.14495	1.06601	1.07372	AVRG					
	1.15189	1.01567	1.07236	1.08966						1.13447		9 36516

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 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0	5000000	1.0000	Level 2	5.0000	Level 3	20.0000	Level 4	50.0000	100.0000	Level 6	Curve	b	Coefficients	m1	m2	\$RSD or R^2
95 Naphthalene	++++	2.58016	2.48742	2.48953	2.25851	2.42563	AVRG								2.40977		4.30773
96 Hexachlorobutadiene	++++	0.57746	0.58954	0.62366	0.54646	0.57976	AVRG								0.57881		5.33776
97 1,2,3-Trichlorobenzene	++++	1.19142	1.04585	1.08115	0.94831	1.00533	AVRG								1.02430		7.61155
34 Dibromofluoromethane	++++	4.41159	3.93448	3.75650	3.81916	4.08262	AVRG								3.93036		5.33414
37 1,2-Dichloroethane-d4	++++	5.28422	4.67788	4.40604	4.36811	4.60597	AVRG								4.45998		9.16468

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 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 Lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
	120.0000	150.0000	170.0000	200.0000							
	Level 7	Level 8	Level 9	Level 10							
\$ 57 Toluene-d8	++++	++++	1.54737	1.42091	1.38864	1.47199	AVRG				
	1.39585	1.41168	1.43682	1.43770				1.43887			3.55459
\$ 77 Bromofluorobenzene	++++	++++	0.61718	0.52434	0.51178	0.51961	AVRG				
	0.51292	0.47784	0.49729	0.45936				0.51504			9.09326

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

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 Method file : \\ETCDBC\DD\chem\voc1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000 Level 1	1.0000 Level 2	5.0000 Level 3	20.0000 Level 4	50.0000 Level 5	100.0000 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
79 n-Propylbenzene	++++ 1.94964	2.45597 1.75759	2.40926 1.92461	2.13532 1.71552	2.06270	2.09839	AVRG		2.05656		12.47360
80 2-Chlorotoluene	1.60886 1.25128	1.57309 1.04523	1.47179 1.21322	1.31228 1.15594	1.24036	1.38427	AVRG		1.32563		13.75623
81 4-Chlorotoluene	0.60848 0.45110	0.51301 0.40907	0.50462 0.43709	0.46736 0.41420	0.45019	0.48560	AVRG		0.47407		12.37354
82 1,3,5-Trimethylbenzene	++++ 1.34376	1.72685 1.23129	1.63528 1.32556	1.45751 1.24591	1.38119	1.41878	AVRG		1.41846		11.79812
83 Pentachloroethane	++++ 0.54632	0.54683 0.46460	0.48866 0.47899	0.51697 ++++	0.54616	0.53640	AVRG		0.51561		6.53800

Report Date : 18-Jan-2001 14:27

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0	5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	ml	m2	RSR
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
84 tert-Butylbenzene	1.52083	1.60126	1.50222	1.36811	1.29133	1.41009		AVRG	1.35467			11 24540
	1.27939	1.16821	1.25145	1.15386								
85 1,2,4-Trimethylbenzene	++++	1.73109	1.60612	1.52362	1.38666	1.51463		AVRG	1.44673			10.98013
	1.36345	1.25518	1.37316	1.26663								
86 sec-Butylbenzene	2.27416	2.21019	2.21316	2.00380	1.85835	2.03869		AVRG	1.94548			12.33312
	1.85663	1.65469	1.73281	1.61229								
87 1,3-Dichlorobenzene	2.11906	2.13311	1.97172	1.89198	1.74109	1.70353		AVRG	1.83806			9.95622
	1.75136	1.59529	1.72859	1.74489								
88 4-Isopropyltoluene	++++	1.84676	1.78375	1.56307	1.44636	1.56513		AVRG	1.51633			13.07026
	1.46051	1.27717	1.42008	1.28312								

000186

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.500000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
90 1,4-Dichlorobenzene	2.43586	2.18988	1.91543	1.85218	1.80884	1.73582	AVRG			1.87384		13.88966
	1.67789	1.53265	1.81921	1.77065								
91 n-Butylbenzene	3.33012	3.27810	3.29184	3.28744	3.04710	2.99485	AVRG			3.02564		8.84555
	2.94778	2.61514	2.74614	2.71790								
92 1,2-Dichlorobenzene	1.71645	1.92383	1.69341	1.67215	1.59559	1.54998	AVRG			1.62837		8.01398
	1.59268	1.46300	1.53714	1.53948								
93 1,2-Dibromo-3-chloropropane	++++	0.20159	0.12704	0.15946	0.16596	0.17813	AVRG			0.16944		11.89693
	0.17205	0.18243	0.17446	0.16386								
94 1,2,4-Trichlorobenzene	1.38652	1.22887	1.11503	1.14495	1.06601	1.07372	AVRG			1.13447		9.36516
	1.15189	1.01567	1.07236	1.08966								

Report Date : 18-Jan-2001 14:27

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.5000000	1.0000	5.0000	20.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	WSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
120.0000	150.0000	170.0000	200.0000									
Level 7	Level 8	Level 9	Level 10									
95 Naphthalene	++++ 2.42133	2.58016 2.37956	2.48742 2.37538	2.48953 2.27040	2.25851	2.42563	AVRG			2.40977		4.30773
96 Hexachlorobutadiene	++++ 0.61721	0.57746 0.52479	0.58954 0.57977	0.62366 0.57063	0.54646	0.57976	AVRG			0.57881		5.33776
97 1,2,3-Trichlorobenzene	++++ 1.02449	1.19142 0.92744	1.04585 1.00170	1.08115 0.99104	0.94831	1.00533	AVRG			1.02430		7.61155
§ 34 Dibromofluoromethane	++++ 3.95930	4.41159 3.84983	3.93448 3.75122	3.75650 3.80856	3.81916	4.08262	AVRG			3.93036		5.33414
§ 37 1,2-Dichloroethane-d4	++++ 4.60048	5.28422 4.21733	4.67788 4.15788	4.40604 3.82188	4.36811	4.60597	AVRG			4.45998		9.16468

000188

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-2001 13:11
 End Cal Date : 09-JAN-2001 17:54
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\vol1.i\V101111.B\V101091.8260.m
 Cal Date : 18-Jan-2001 14:27 lisa

Compound	0.5000000	1.0000	Level 2	5.0000	Level 3	20.0000	Level 4	50.0000	Level 5	100.0000	Level 6	Curve	b	Coefficients ml	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10						
	120.0000	150.0000	170.0000	200.0000												
	Level 7	Level 8	Level 9	Level 10												
\$ 57 Toluene-d8	++++	++++	1.54737	1.42091	1.38864	1.47199						AVRG		1.43867		3.55459
	1.39585	1.41168	1.43682	1.43770												
\$ 77 Bromofluorobenzene	++++	++++	0.61718	0.52434	0.51178	0.51961						AVRG		0.51504		9.09326
	0.51292	0.47784	0.49729	0.45936												

Curve	Formula	Units
Averaged	Ant = Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response

2/26/01
M 2/26/01

QC REVIEWED

Report Date : 25-Feb-2001 08:46

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCBDC\DD\chem\bn2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Calibration File Names:

- Level 1: \\ETCBDC\DD\chem\bn2.i\B2022401.B\0301003.D
- Level 2: \\ETCBDC\DD\chem\bn2.i\B2022401.B\0401004.D
- Level 3: \\ETCBDC\DD\chem\bn2.i\B2022401.B\0501005.D
- Level 4: \\ETCBDC\DD\chem\bn2.i\B2022401.B\0601006.D
- Level 5: \\ETCBDC\DD\chem\bn2.i\B2022401.B\2101021.D
- Level 6: \\ETCBDC\DD\chem\bn2.i\B2022401.B\0701007.D
- Level 7: \\ETCBDC\DD\chem\bn2.i\B2022401.B\0801008.D
- Level 8: \\ETCBDC\DD\chem\bn2.i\B2022401.B\0901009.D
- Level 9: \\ETCBDC\DD\chem\bn2.i\B2022401.B\1001010.D

Compound	2.0000		5.0000		10.0000		20.0000		50.0000		80.0000		Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12	m1	m2	
1 N-Nitrosodimethylamine	0.61133	0.78643	0.72736	0.81938	0.88651	0.81916									
	0.78921	0.81177	0.83941			AVRG							0.78784		10 01072

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
GC/MS Semi-Volatiles**

ENVIRONMENTAL TESTING & CONSULTING, INC GC/MS BNA Sequence Check List (SW-846)

Sequence ID B2022501.BSystem ID BNA 2Date 2/25/01Analyst MLL

Applicable ETC Order Nos. for this sequence:

0102-2180102-324

Validated

1. DFTPP Daily 12-Hour Tune Meets Criteria. No analysis begins until criteria are met. (SOP) ✓
 2. Degradation/Peak Tailing Check (may be combined with DFTPP Tune): ✓
 a. DDT to DDE/DDD $\leq 20\%$ Benzidine/PCP - Normal Response with no visible peak tailing. ✓

2. Initial Calibration Verification Criteria - Method : B2022401.M

- a. SPCC - Mean RF ≥ 0.050 ✓
 b. CCC - RSD of RF for CCCs and Target Analytes MUST BE $\leq 30\%$ ✓
 c. RSD of analytes $\leq 15\%$ may use Average RF for quantitation ✓
 d. Analytes w/RSD $> 15\%$ use Linear Regression - correlation coefficient ≥ 0.99 ✓

3. Calibration Verification - Each 12-Hour Shift

- a. SPCC - RF ≥ 0.050 ✓
 b. CCC - % Difference for Average RF Calibration - $\leq 20\%$ ✓
 c. CCC - % Drift for Linear Regression Calibration - $\leq 20\%$ ✓
 d. % Difference/% Drift for all other Target Analytes - $\leq 30\%$ ✓

- e. Internal Standards - Retention Times within ± 30 seconds from Mid-Point ICAL STD ✓
 f. Internal Standards - Areas within (-50% to $+100\%$) from Mid-Point ICAL STD ✓

3. Method Blanks included in this sequence :

Analyze for each analytical batch (20 samples): ✓

List compounds identified in Method Blank w/concentration.

Flag final result "B-Detected in Blank"

P06062LBP04493LB PAH MED LEVEL

4. Matrix Spike/Matrix Spike Duplicates included in this sequence:

Analyze for each analytical batch (20 samples) . List MS/MSD(s) performed with any failures : ✓0102-218 - 3 TELP MS/MSD 1/240102-324 - 1 PAH MED LEVEL MS/MSD

5. Laboratory Control Samples included in this sequence :

Must contain all Target Analytes.

P06062LCS/LCS D3/166 Benzidine 33 Dimethyl BenzidineP04493LCS/LCS D MED LEVEL 6/1666. Surrogate Recoveries within QC Limits ✓7. All positive compounds within calibration range ✓

Narrative/Notes :

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID: 0101001

DFTPP Injection Date: 02/25/01

Instrument ID: BNA2

DFTPP Injection Time: 1441

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	64.1
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	40.0 - 60.0% of mass 198	46.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	15.9
365	Greater than 1.0% of mass 198	1.45
441	Present, but less than mass 443	6.5
442	Greater than 40.0% of mass 198	44.4
443	17.0 - 23.0% of mass 442	8.6 (19.3)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WS 50.0 NG/U		0201002	02/25/01	1458
02	P06062LB		0301003	02/25/01	1531
03	P06062LCS		0401004	02/25/01	1604
04	P06062LCSD		0501005	02/25/01	1638
05	0102-218-1		0601006	02/25/01	1711
06	0102-218-2		0701007	02/25/01	1744
07	0102-218-3		0801008	02/25/01	1817
08	0102-218-4		0901009	02/25/01	1851
09	0102-218-5		1001010	02/25/01	1924
10	0102-218-6		1101011	02/25/01	1958
11	0102-218-7		1201012	02/25/01	2032
12	0102-218-8		1301013	02/25/01	2105
13	0102-218-9		1401014	02/25/01	2139
14	0102-218-3MS		2101021	02/26/01	0133
15	0102-218-3MS		2201022	02/26/01	0206
16					
17					
18					
19					
20					
21					
22					

656 486

FORM 7
BNA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: BNA2

Calibration Date: 02/25/01 Time: 1458

Lab File ID: 0201002

Init. Calib. Date(s): 02/24/01 02/24/01

Init. Calib. Times: 0758 1836

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Acenaphthene	45.91	50.00	AVRG	8.2	20.0
Acenaphthylene	45.58	50.00	AVRG	8.8	30.0
Acetophenone	45.55	50.00	AVRG	8.9	30.0
Aniline	44.76	50.00	AVRG	10.5	30.0
Anthracene	45.62	50.00	AVRG	8.8	30.0
Benzidine	34.32	50.00	2ORDR	31.4	35.0
Benz(a)Anthracene	47.40	50.00	AVRG	5.2	30.0
Benzo(b)fluoranthene	46.31	50.00	AVRG	7.4	30.0
Benzo(k)fluoranthene	49.05	50.00	AVRG	1.9	30.0
Benzo(ghi)perylene	49.87	50.00	AVRG	0.3	30.0
Benzo(a)pyrene	46.35	50.00	AVRG	7.3	20.0
Benzoic acid	47.94	50.00	LINR	4.1	35.0
Benzyl alcohol	50.38	50.00	AVRG	0.8	30.0
Bis(2-chloroethoxy)methane	44.47	50.00	AVRG	11.1	30.0
Bis(2-chloroethyl)ether	46.33	50.00	AVRG	7.3	30.0
Bis(2-chloroisopropyl)ether	48.24	50.00	AVRG	3.5	30.0
Bis(2-ethylhexyl)phthalate	53.91	50.00	AVRG	7.8	30.0
4-Bromophenyl phenyl ether	48.83	50.00	AVRG	2.3	30.0
Butyl benzyl phthalate	54.43	50.00	AVRG	8.9	30.0
Carbazole	45.22	50.00	2ORDR	9.6	30.0
4-Chloroaniline	47.21	50.00	AVRG	5.6	30.0
Chlorobenzilate	59.87	50.00	AVRG	19.7	35.0
4-Chloro-3-methylphenol	47.08	50.00	AVRG	5.8	20.0
2-Chloronaphthalene	46.25	50.00	AVRG	7.5	30.0
2-Chlorophenol	47.73	50.00	AVRG	4.5	30.0
4-Chlorophenyl phenyl ether	46.10	50.00	AVRG	7.8	30.0
Chrysene	46.73	50.00	AVRG	6.5	30.0
Dibenz(a,h)anthracene	49.24	50.00	AVRG	1.5	30.0
Dibenzofuran	45.89	50.00	AVRG	8.2	30.0
Di-n-butyl phthalate	42.78	50.00	AVRG	14.4	30.0
1,2-Dichlorobenzene	47.02	50.00	AVRG	6.0	30.0
1,3-Dichlorobenzene	47.40	50.00	AVRG	5.2	30.0
1,4-Dichlorobenzene	47.73	50.00	AVRG	4.5	20.0
3,3'-Dichlorobenzidine	40.60	50.00	AVRG	18.8	30.0
2,4-Dichlorophenol	46.20	50.00	AVRG	7.6	20.0
2,6-Dichlorophenol	46.35	50.00	AVRG	7.3	30.0
Diethyl phthalate	44.56	50.00	AVRG	10.9	30.0

FORM 7
BNA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: BNA2

Calibration Date: 02/25/01 Time: 1458

Lab File ID: 0201002

Init. Calib. Date(s): 02/24/01 02/24/01

Init. Calib. Times: 0758 1836

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
3,3-Dimethylbenzidine	38.19	50.00	2ORDR	23.6	35.0
2,4-Dimethyphenol	44.27	50.00	AVRG	11.5	30.0
Dimethyl phthalate	46.19	50.00	AVRG	7.6	30.0
4,6-Dinitro-2-methylphenol	51.32	50.00	LINR	2.6	30.0
2,4-Dinitrophenol	49.59	50.00	2ORDR	0.8	30.0
2,4-Dinitrotoluene	51.62	50.00	AVRG	3.2	30.0
2,6-Dinitrotoluene	52.54	50.00	AVRG	5.1	30.0
N-NitrosodiphenylAm/Diphenylamin	44.11	50.00	AVRG	11.8	20.0
Di-n-octyl phthalate	52.73	50.00	AVRG	5.5	20.0
Ethyl methanesulfonate	48.00	50.00	AVRG	4.0	30.0
Fluoranthene	44.79	50.00	2ORDR	10.4	20.0
Fluorene	45.73	50.00	AVRG	8.5	30.0
Hexachlorobenzene	47.84	50.00	AVRG	4.3	30.0
Hexachlorobutadiene	45.73	50.00	AVRG	8.5	20.0
Hexachlorocyclopentadiene	49.46	50.00	AVRG	1.1	30.0
Hexachloroethane	44.99	50.00	AVRG	10.0	30.0
Indeno(1,2,3-cd)pyrene	50.08	50.00	AVRG	0.2	30.0
Isophorone	47.11	50.00	AVRG	5.8	30.0
Methyl methanesulfonate	49.70	50.00	AVRG	0.6	30.0
2-Methylnaphthalene	46.46	50.00	AVRG	7.1	30.0
2-Methylphenol	47.85	50.00	AVRG	4.3	30.0
3&4-Methylphenol	48.99	50.00	AVRG	2.0	30.0
Naphthalene	46.32	50.00	AVRG	7.4	30.0
2-Nitroaniline	49.76	50.00	AVRG	0.5	30.0
3-Nitroaniline	49.45	50.00	AVRG	1.1	30.0
4-Nitroaniline	43.58	50.00	AVRG	12.8	30.0
Nitrobenzene	48.01	50.00	AVRG	4.0	30.0
2-Nitrophenol	51.19	50.00	AVRG	2.4	20.0
4-Nitrophenol	43.77	50.00	AVRG	12.5	30.0
N-Nitrosodibutylamine	47.17	50.00	AVRG	5.7	30.0
N-Nitrosodiethylamine	49.15	50.00	AVRG	1.7	30.0
N-Nitrosodimethylamine	56.41	50.00	AVRG	12.8	30.0
N-Nitrosodi-n-propylamine	46.53	50.00	AVRG	6.9	30.0
Pentachloronitrobenzene	51.33	50.00	AVRG	2.7	30.0
Pentachlorophenol	52.38	50.00	AVRG	4.8	20.0
Phenacetin	40.63	50.00	AVRG	18.7	35.0
Phenanthrene	45.89	50.00	AVRG	8.2	30.0

FORM 7
BNA-GCMS CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: BNA2

Calibration Date: 02/25/01 Time: 1458

Lab File ID: 0201002

Init. Calib. Date(s): 02/24/01 02/24/01

Init. Calib. Times: 0758 1836

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Phenol	47.03	50.00	AVRG	5.9	20.0
Pyrene	56.58	50.00	AVRG	13.2	30.0
Pyridine	53.34	50.00	AVRG	6.7	30.0
1,2,4,5-Tetrachlorobenzene	45.56	50.00	AVRG	8.9	30.0
2,3,4,6-Tetrachlorophenol	49.30	50.00	AVRG	1.4	30.0
1,2,4-Trichlorobenzene	46.75	50.00	AVRG	6.5	30.0
2,4,5-Trichlorophenol	48.19	50.00	AVRG	3.6	30.0
2,4,6-Trichlorophenol	46.26	50.00	AVRG	7.5	20.0
1,2-Dphnylhydrzine/Azobenzen	48.55	50.00	AVRG	2.9	30.0
Nitrobenzene-d5	45.16	50.00	AVRG	9.7	30.0
2-Fluorobiphenyl	43.16	50.00	AVRG	13.7	30.0
Terphenyl-d14	53.49	50.00	AVRG	7.0	30.0
Phenol-d6	46.62	50.00	AVRG	6.8	30.0
2,4,6-Tribromophenol	46.49	50.00	AVRG	7.0	30.0
2-Fluorophenol	45.71	50.00	AVRG	8.6	30.0

FORM 8
BNA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

656 489

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID (Standard): 0201002

Date Analyzed: 02/25/01

Instrument ID: BNA2

Time Analyzed: 1458

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	571320	5.57	2169260	6.83	1192935	9.36
UPPER LIMIT	1142640	6.07	4338520	7.33	2385870	9.86
LOWER LIMIT	285660	5.07	1084630	6.33	596468	8.86
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 P06062LB	660583	5.56	2184821	6.83	1086683	9.36
02 P06062LCS	494583	5.56	1808738	6.83	1154410	9.36
03 P06062LCSD	614156	5.56	2187065	6.83	1285239	9.36
04 0102-218-1	590921	5.56	2210199	6.83	1232970	9.35
05 0102-218-2	550639	5.56	2171853	6.83	1356458	9.36
06 0102-218-3	599557	5.56	2267942	6.83	1283469	9.35
07 0102-218-4	692153	5.56	2512907	6.83	1378901	9.35
08 0102-218-5	604057	5.56	2179413	6.83	1200042	9.36
09 0102-218-6	601667	5.56	2177004	6.83	1160498	9.36
10 0102-218-7	621947	5.56	2201574	6.83	1185156	9.35
11 0102-218-8	1038301	5.56	3801144	6.83	2089833	9.36
12 0102-218-9	720754	5.56	2590071	6.83	1408363	9.35
13 0102-218-3MS	996242	5.57	3596937	6.83	1965537	9.37
14 0102-218-3MS	662792	5.57	2488257	6.83	1330007	9.36
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
BNA-GCMS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Lab File ID (Standard): 0201002

Date Analyzed: 02/25/01

Instrument ID: BNA2

Time Analyzed: 1458

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	1643598	12.07	366801	17.28	219694	20.02
UPPER LIMIT	3287196	12.57	733602	17.78	439388	20.52
LOWER LIMIT	821799	11.57	183401	16.78	109847	19.52
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 P06062LB	1821943	12.07	617118	17.28	295462	20.03
02 P06062LCS	1814236	12.08	347530	17.27	194254	20.02
03 P06062LCSD	2102275	12.07	449077	17.28	266085	20.02
04 0102-218-1	2035419	12.06	718343	17.27	318249	20.02
05 0102-218-2	2292163	12.07	716363	17.28	326727	20.02
06 0102-218-3	2042427	12.06	745946*	17.27	344398	20.02
07 0102-218-4	2396254	12.06	808591*	17.27	367127	20.02
08 0102-218-5	2041076	12.07	753926*	17.28	351929	20.03
09 0102-218-6	1644048	12.07	550467	17.27	331981	20.02
10 0102-218-7	1666162	12.06	604055	17.27	402143	20.02
11 0102-218-8	3078428	12.07	1196983*	17.27	873651*	20.04
12 0102-218-9	2122984	12.06	599847	17.27	289257	20.02
13 0102-218-3MS	3089221	12.09	586111	17.29	313678	20.04
14 0102-218-3MS	2332141	12.08	689823	17.29	288159	20.04
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml	m2	MSD or R ²
2 Pyridine	1.31998 1.35211	1.46414 1.37984	1.50549 1.36164	1.49259	1.45624	1.36484	AVRG		1.41076		4.86887
3 Methyl methanesulfonate	1.02243 0.95908	0.98431 0.91305	0.97487 0.91003	0.97137	0.78739	0.94229	AVRG		0.94053		7.15596
5 N-Nitrosodiethylamine	0.84846 0.83484	0.80222 0.77378	0.83071 0.80459	0.81210	0.80696	0.76548	AVRG		0.80880		3.36018
6 Ethyl methanesulfonate	1.36828 1.31437	1.27982 1.20336	1.24501 1.20859	1.26762	1.20268	1.22829	AVRG		1.25756		4.48466
8 Phenol ACC	2.32542 2.02891	2.19089 1.96535	2.07921 2.06060	2.03747	1.97685	1.93691	AVRG		2.06685		5.92637

Report Date : 25-Feb-2001 08:46

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bna2.i\B2022401.E\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml	m2	RSR or R ²
9 Aniline	2.51010 2.21157	2.30874 2.05522	2.26317 2.10768	2.22248	2.38379	2.04369	AVRG		2.23405		6.89609
10 Bis(2-chloroethyl)ether	1.74698 1.58892	1.73217 1.60309	1.67559 1.57101	1.60135	1.62680	1.53261	AVRG		1.63095		4.46389
11 2-Chlorophenol	1.79859 1.58578	1.69710 1.51576	1.61966 1.54379	1.59619	1.56589	1.56976	AVRG		1.61028		5.41626
12 1,3-Dichlorobenzene	1.70444 1.50841	1.72148 1.49074	1.62505 1.48020	1.57217	1.62163	1.49573	AVRG		1.57998		5.89832
14 1,4-Dichlorobenzene ccc	1.74607 1.53526	1.72818 1.49846	1.65127 1.49112	1.59684	1.63465	1.50092	AVRG		1.59809		6.16864

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml	m2	RRSD or R ²
15 Benzyl alcohol	1.04439 1.06431	1.04944 0.96661	1.03016 0.94733	1.03737	1.04921	0.98038	AVRG		1.01880		4.16011
16 1,2-Dichlorobenzene	1.65653 1.44839	1.61764 1.39890	1.51693 1.37871	1.48371	1.53473	1.40113	AVRG		1.49296		6.57239
17 2-Methylphenol	1.36486 1.28187	1.28078 1.20443	1.26817 1.18360	1.25888	1.23909	1.19771	AVRG		1.25104		4.38389
18 Bis(2-chloroisopropyl)ether	2.23835 2.03513	2.20473 1.89957	2.15764 1.87333	2.07514	2.05840	1.90099	AVRG		2.04925		6.63660
19 3,4-Methylphenol	1.66012 1.65137	1.51534 1.51657	1.53101 1.47028	1.53670	1.50626	1.46746	AVRG		1.53946		4.55524

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Report Date : 25-Feb-2001 08:46

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients m1	m2	RRSD or R ²
20 Acetophenone	0.60955 0.50759	0.58126 0.49482	0.53443 0.50301	0.53029	0.51066	0.49454	AVRG		0.52957		7.63373
21 N-Nitrosodi-n-propylamine <i>SPC</i>	0.31813 0.23686	0.28406 0.23565	0.27079 0.22042	0.26781	0.24932	0.22810	AVRG		0.25679		12.21327
22 Hexachloroethane	-0.22761 0.16272	0.20834 0.17518	0.18602 0.17787	0.18281	0.19395	0.17271	AVRG		0.18747		10.64554
24 Nitrobenzene	0.43031 0.35859	0.39928 0.36261	0.38022 0.35828	0.37490	0.37015	0.34824	AVRG		0.37584		6.72600
25 Isophorone	0.80772 0.73288	0.74496 0.70484	0.74233 0.66913	0.74432	0.68599	0.69858	AVRG		0.72564		5.70706

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients mL	m2	RSD or R ²
26 2-Nitrophenol CC	0.21244 0.23662	0.21574 0.23518	0.21704 0.23833	0.22417	0.23079	0.23479	AVRG		0.22723		4.42420
27 2,4-Dimethylphenol	0.44344 0.38626	0.39728 0.38268	0.38251 0.38381	0.37385	0.37498	0.37964	AVRG		0.38938		5.49370
28 Bis(2-chloroethoxy)methane	-0.55008 0.48546	0.51232 0.46972	0.50112 0.45879	0.48767	0.47989	0.45188	AVRG		0.48855		6.13181
29 Benzoic acid	1020 1992781	23722 1566659	85147 2398289	256772	503215	1209612	LINR	0.14270	0.32640		0.99058
30 2,4-Dichlorophenol CC	0.36184 0.32843	0.34199 0.33819	0.32767 0.31919	0.33727	0.31641	0.33258	AVRG		0.33373		4.05972

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml	m2	RSR or R ²
31 1,2,4-Trichlorobenzene	0.40244 0.31711	0.36763 0.32076	0.34381 0.31596	0.33640	0.34085	0.31232	AVRG		0.33970		8.66330
33 Naphthalene	1.25223 1.03996	1.16421 1.03358	1.11308 1.02124	1.09445	1.08260	1.00538	AVRG		1.08964		7 25582
34 4-Chloroaniline	0.50006 0.44107	0.49775 0.45110	0.49726 0.42068	0.49055	0.46243	0.45130	AVRG		0.46802		6.24660
35 2,6-Dichlorophenol	0.35334 0.31824	0.32648 0.32575	0.32289 0.30999	0.33061	0.30708	0.32422	AVRG		0.32429		4.12308
36 Hexachlorobutadiene acc	0.15365 0.11613	0.14693 0.12022	0.13084 0.11801	0.12849	0.13179	0.11628	AVRG		0.12915		10 47963

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml m2	%RSD or R^2
37 N-Nitrosodibutylamine	0.26494 0.23279	0.24071 0.22113	0.25691 0.22121	0.24866	0.24774	0.24040	AVRG		0.24186	6.03767
38 4-Chloro-3-methylphenol ccc	0.36599 0.32600	0.33954 0.33208	0.34540 0.32409	0.34429	0.33377	0.34412	AVRG		0.33948	3.73855
39 2-Methylnaphthalene	0.78709 0.69241	0.73541 0.69627	0.72083 0.66100	0.72693	0.69137	0.69564	AVRG		0.71188	5.06765
40 Hexachlorocyclopentadiene SPEC	0.25650 0.24031	0.25802 0.23242	0.23237 0.22843	0.22583	0.21020	0.22043	AVRG		0.23383	6.72232
41 1,2,4,5-Tetrachlorobenzene	0.49027 0.39745	0.44772 0.37854	0.40224 0.37248	0.39402	0.40431	0.36629	AVRG		0.40593	9.74958

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bn2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients m1	m2	SRSD or R ²
42 2,4,6-Trichlorophenol ccc	0.36194 0.35882	0.35501 0.35605	0.35340 0.35440	0.34832	0.35422	0.35221	AVRG		0.35493		1.09016
43 2,4,5-Trichlorophenol	0.39809 0.35527	0.38366 0.35396	0.38184 0.34320	0.36194	0.37157	0.35464	AVRG		0.36713		4.85093
45 2-Chloronaphthalene	-1.38022 1.19640	1.34136 1.16651	1.22998 1.13717	1.20166	1.37689	1.11942	AVRG		1.23884		8.20454
46 2-Nitroaniline	0.31019 0.32602	0.30874 0.34144	0.32353 0.34294	0.33378	0.35776	0.33113	AVRG		0.33062		4.76197
47 Dimethyl phthalate	1.61964 1.29748	1.46703 1.32438	1.47797 1.34293	1.41121	1.42113	1.30354	AVRG		1.40726		7.44018

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:46 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
48 2,6-Dinitrotoluene	0.26458 0.31828	0.26969 0.33815	0.29429 0.34232	0.32088	0.37040	0.32291	AVRG		0.31572		10.90188
49 Acenaphthylene	1.96227 1.60782	1.80142 1.59430	1.72517 1.55812	1.67009	1.86410	1.55734	AVRG		1.70451		8.48903
50 3-Nitroaniline	0.33188 0.34182	0.31694 0.37248	0.34955 0.37587	0.37437	0.40051	0.35220	AVRG		0.35729		7.22771
52 Acenaphthene	1.23312 1.05875	1.16844 1.04809	1.10848 1.03707	1.08752	1.09756	1.01672	AVRG		1.09508		6.26969
53 2,4-Dinitrophenol	++++ 495323	6952 510303	24812 818618	70469	190081	387718	QUAD	0.10798	6.65090	-2.12435	0.99751

* RF ~ 0.13

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients m1	m2	VRSD or R ²
54 4-Nitrophenol	0.28069 0.26503	0.27990 0.30307	0.30966 ++++	0.33343	0.26799	0.31536	AVRG		0.29439		8.34968
55 Dibenzofuran	2.00145 1.59318	1.78804 1.61698	1.72276 1.60141	1.70991	1.70410	1.60164	AVRG		1.70438		7.67175
56 2,4-Dinitrotoluene	++++ 0.33777	0.28696 0.38155	0.34189 0.37691	0.38135	0.45697	0.36532	AVRG		0.36609		13.26137
57 2,3,4,6-Tetrachlorophenol	0.21179 0.21573	0.21501 0.22910	0.22196 0.22948	0.22670	0.24111	0.22528	AVRG		0.22402		4.05566
58 Diethyl phthalate	1.51060 1.07943	1.34485 1.15428	1.33230 1.18069	1.31217	1.33915	1.13584	AVRG		1.26548		10.80002

Report Date : 25-Feb-2001 08:46

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients m1	m2	RSD or R ²
59 Fluorene	1.54056 1 22729	1.40568 1 25815	1.40691 1.24999	1.36318	1.40042	1.23833	AVRG		1.34339		7.93655
60 4-Chlorophenyl phenyl ether	0.54277 0.44058	0.50354 0.44179	0.48787 0.44582	0.47937	0.49569	0.43478	AVRG		0.47469		7.73151
61 4-Nitroaniline	0.37378 0.27172	0.35432 0.31127	0.35549 0.27574	0.35348	0.36227	0.31654	AVRG		0.33051		11.53193
62 4,6-Dinitro-2-methylphenol	3441 471938	9902 498477	31861 749103	87702	192292	395875	LINR	0.14567	0.13136		0.99434
63 N-Nitrodiphenylam/Diphenylamine ccc	0.67733 0.70538	0.61242 0.64112	0.63052 0.65282	0.62787	1.22400	0.61831	AVRG		0.70997		27.47005

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bn2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml	m2	SRSD or R ²
64 1,2-Diphenylhydrazine/Azobenzene	0.99679 0.99910	0.90256 0.88605	0.87469 ++++	0.86331	0.85067	0.85805			0.90390		6.67049
66 Phenacetin	0.47849 0.33048	0.46766 ++++	0.42446 ++++	0.39813	0.40255	0.34060	AVRG		0.40605		14.02293
67 4-Bromophenyl phenyl ether	-0.18862 0.19328	0.17639 0.17132	0.17078 0.17751	0.16972	0.17303	0.16852	AVRG				
68 Hexachlorobenzene	0.18915 0.17001	0.17893 0.15935	0.16528 0.16065	0.16459	0.16752	0.15553	AVRG		0.17658		4.94838
69 penta-chlorophenol	0.08597 0.12970	0.10516 0.12938	0.11646 0.12786	0.11849	0.05700	0.13092	AVRG		0.16789		6.22823
ccc							AVRG		0.11121		22.54845

000210

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETC\BDC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml	m2	RPD or R ²
70 Pentachloronitrobenzene	0.05958 0.05803	0.05687 0.05656	0.05622 0.05659	0.05928	0.06259	0.05686	AVRG		0.05806		3.59501
72 Phenanthrene	1.32301 1.08140	1.22313 1.05403	1.15931 1.03889	1.12220	1.08198	1.03765	AVRG		1.12462		8.54361
73 Anthracene	1.33669 1.03028	1.23788 1.00857	1.14732 1.00044	1.11370	1.11708	0.99887	AVRG		1.11009		10.57264
74 Carbazole	99070 3256795	215707 3322737	484537 4714056	962911	2040061	2864526	QUAD	-0.03782	1.05188	0.06196	0.99984
75 Di-n-butyl phthalate	1.60119 1.09711	1.54602 ++++	1.39776 ++++	1.31631	1.29506	1.10588	AVRG		1.33705		14.65376

Report Date : 25-Feb-2001 08:46

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000		5.0000		10.0000		20.0000		50.0000		80.0000		Curve	b	Coefficients		m2	RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9									
76 Fluoranthene	100.0000	120.0000	160.0000															
	Level 7	Level 8	Level 9															
	84113	179758	374074	731727	1608551	1976581												
77 Benzidine	2294603	2325090	3089657										QUAD	-0.01762	1.16522	0.33873	0.99789	
	57190	123378	211970	362556	550953	636065												
	717279	643409	805457										QUAD	-0.05599	1.02638	0.08698	0.99781	
78 Pyrene	2.04401	1.89527	2.05876	2.11778	2.74578	2.47244												
	2.42558	2.79818	2.74801										AVRG		2.36731		14.73242	
	++++	0.39243	0.44858	0.45472	0.59499	0.51936												
80 Chlorobenzilate	0.52500	0.56956	0.57782										AVRG		0.51031		14.11811	
	37772	79606	131473	212114	294155	356340												
81 3,3-Dimethylbenzidine	437397	372474	496741										QUAD	-0.10792	2.09758	0.02111	0.99878	

* 90RSD = 25.9%

000212

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDDC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients m1	m2	RSR or R ²
82 Butyl benzyl phthalate	100.0000 Level 7	120.0000 Level 8	160.0000 Level 9								
	1.17144	1.09259	1.09150	1.10493	1.20752	1.10193	AVRG		1.13204		3.53850
	1.15670	1.13915	1.12255								
83 Benz(a)Anthracene	1.45432	1.29529	1.25067	1.22103	1.31045	1.16221	AVRG		1.24596		6.95953
	1.22204	1.18529	1.21230								
85 3,3'-Dichlorobenzidine	0.48197	0.44718	0.41245	0.42436	0.38961	0.39117	AVRG		0.41650		7.79641
	0.41009	0.37498	0.41664								
86 Chrysene	1.33182	1.19203	1.12868	1.09764	1.09254	1.05129	AVRG		1.12746		7.65258
	1.09263	1.07559	1.08495								
87 Bis(2-ethylhexyl)phthalate	1.64512	1.43657	1.40747	1.44785	1.51748	1.40960	AVRG		1.47838		5.03153
	1.51898	1.47254	1.44985								

Report Date : 25-Feb-2001 08:46

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml	m2	RSR or R ²
88 Di-n-octyl phthalate <i>acc</i>	3.01697 3.01857	3.01275 2.96241	2.82690 2.90448	2.95475	3 01233	++++	AVRG		2.96365		2.31404
89 Benzo(b)fluoranthene	1.42407 1.18712	1.30709 1.23623	1.18468 1.24487	1.24574	1.24963	1.20567	AVRG		1 25390		5.90404
90 Benzo(k)fluoranthene	1.40792 1.21213	1.32506 1.19727	1.29753 1.21091	1.23734	1.13397	1.13427	AVRG		1.23960		7.25009
91 Benzo(a)pyrene	1.28487 1.09395	1.16448 1.08742	1.10111 1.11378	1.09895	1.07900	1.05583	AVRG		1 11993		6.11636
93 Indeno(1,2,3-cd)pyrene	0.89207 0.97192	0.81408 ++++	0.81997 ++++	0.83852	0.92598	0.88772	AVRG		0.87861		6.64066

000214

Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bn2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients m1	m2	RSD or R ²
94 Dibenz(a,h)anthracene	0 84143 0 88383	0 72196 0 84517	0 75180 ++++	0 76730	0 82978	0 80104	AVRG		0 80529		6.79049
95 Benzo(ghi)perylene	0 89030 0 95495	0 76551 0 90884	0 79847 ++++	0 82741	0 93631	0 87716	AVRG		0 86987		7.70366
\$ 4 2-Fluorophenol	1 93181 1 66421	1 91576 1 67107	1 80596 1 67185	1 75191	1 75343	1 66959	AVRG		1 75951		5.99550
\$ 7 Phenol-d6	2 50809 2 24252	2 38557 2 14958	2 27554 2 13244	2 27335	2 24503	2 11085	AVRG		2 25811		5.62230
\$ 23 Nitrobenzene-d5	0 43948 0 38267	0 40784 0 37574	0 39383 0 37883	0 40132	0 40251	0 38052	AVRG		0 39586		5.07450

Report Date : 25-Feb-2001 08:46

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
 End Cal Date : 24-FEB-2001 18:36
 Quant Method : ISTD
 Target Version : 4.00
 Integrator : HP RTE
 Method file : \\ETCDBC\DD\chem\bna2.i\B2022401.B\B2022401.M
 Cal Date : 25-Feb-2001 08:42 target3

Compound	2.0000 Level 1	5.0000 Level 2	10.0000 Level 3	20.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Curve	b	Coefficients ml	m2	NRSD or R ²
\$ 44 2-Fluorobiphenyl	1.64763 1.37236	1.53432 1.28193	1.39883 1.24889	1.37121 1.33248	1.30738	1.30738	AVRG		1.38834		9.16938
\$ 65 2,4,6-Tribromophenol	0.10789 0.11548	0.09084 0.10843	0.10296 0.11200	0.10180 0.10335	0.10430	0.10430	AVRG		0.10523		6.69102
\$ 79 Terphenyl-d14	1.26316 1.45476	1.12587 1.56212	1.23567 1.56137	1.24265 1.55951	1.46206	1.46206	AVRG		1.38524		12.19478

000216

Report Date : 25-Feb-2001 08:46

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Environmental Testing and Consulting, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2001 07:58
End Cal Date : 24-FEB-2001 18:36
Quant Method : ISTD
Target Version : 4.00
Integrator : HP RTE
Method file : \\ETC\BDC\DD\chem\bna2.i\B2022401.B\B2022401.M
Cal Date : 25-Feb-2001 08:42 target3

Curve	Formula	Units
Averaged	Amt = Resp/ml	Response
Linear	Amt = b + Resp/ml	Response
Quad	Amt = b + ml*Resp + ml^2*Resp^2	Response

000217

656 509

656 510

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
GC Pesticides**

000218

ENVIRONMENTAL TESTING & CONSULTING, INC
GC Pesticides Method 8081A Sequence Check List (SW-846)

Sequence ID: P302221 System ID: 3 Date: 2/22/01 Analyst: RG

Column ID: Primary / Confirmation Column Description: RTKCLP Supervisor: _____

Applicable ETC Order Nos. for this sequence:

0102218

1. Initial Calibration P3022201a.m

RSD of analytes $\leq 20\%$ may use average RF.

RSD of analytes $> 20\%$ or analyst discretion, use linear regression ($r^2 \geq 0.99$)

2. Endrin/DDT Breakdown – Breakdown for each should not exceed 15%.

3. Calibration Verification – Beginning/Every 20th Sample / Ending. Note only those %D that affect data.
 %Difference $< 15\%$ or Average %Difference of All Analytes $< 15\%$.

CV w/ File #	Aldrin	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC	Alpha-chlor	Gamma-chlor	Chlorpyrifos	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sul	Endrin	Endrin Ald	Endrin Ket	Heptach,or	Hept Epoxide	Methoxychir.	DCB	TMX	Average
1A <u>73</u>	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	<u>26.0</u>	<u>23.5</u>	<u>28.0</u>	/	/	/	/	/	<u>10.8</u>
1B																								
2A <u>34</u> <u>5.1</u>	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	<u>20.5</u>	<u>21.4</u>	<u>24.0</u>	/	/	/	/	/	<u>11.5</u>
2B																								
3A																								
3B																								

4. Method Blanks – Note results for positive results. Flag final results as B – Detected in Blank.
 1 per 20 samples per matrix.

Method Blank			
<u>P080181B</u> <u>OK</u>			
<u>P080181B</u> <u>OK</u>			

5. Laboratory Control Samples – Note failures only. 1 per 20 samples per matrix. Duplicate LCS when no MS/MSD available.

LCS/LCSD			
<u>P080181B</u> <u>OK</u>			

6. Matrix Spike/Matrix Spike Duplicate – 1 per 20 samples per matrix.

0102218-3MS, MS OK

7. Notes

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST3A

Calibration Date: 02/22/01

Time: 1739

Lab File ID: P302221A-23R

Init. Calib. Date(s): 02/22/01

02/22/01

Init. Calib. Times: 1604

1643

GC Column: RTX-CLP ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	0.02 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Aldrin	0.0224	0.0200	AVRG	12.0	15.0
alpha-BHC	0.0229	0.0200	AVRG	14.5	15.0
beta-BHC	0.0211	0.0200	AVRG	5.5	15.0
delta-BHC	0.0221	0.0200	AVRG	10.5	15.0
gamma-BHC (Lindane)	0.0226	0.0200	AVRG	13.0	15.0
alpha-chlordane	0.0212	0.0200	AVRG	6.0	15.0
gamma-chlordane	0.0227	0.0200	LINR	13.5	15.0
Chlorpyrifos	0.0230	0.0200	AVRG	15.0	15.0
4,4'-DDD	0.0219	0.0200	AVRG	9.5	15.0
4,4'-DDE/endosulfan I	0.0215	0.0200	AVRG	7.5	15.0
4,4'-DDT	0.0212	0.0200	AVRG	6.0	15.0
Dieldrin	0.0217	0.0200	AVRG	8.5	15.0
Endosulfan II	0.0224	0.0200	AVRG	12.0	15.0
Endosulfan sulfate	0.0210	0.0200	AVRG	5.0	15.0
Endrin	0.0148	0.0200	AVRG	26.0	15.0 <-
Endrin aldehyde	0.0247	0.0200	AVRG	23.5	15.0 <-
Endrin ketone	0.0240	0.0200	AVRG	20.0	15.0 <-
Heptachlor	0.0221	0.0200	AVRG	10.5	15.0
Heptachlor epoxide	0.0220	0.0200	LINR	10.0	15.0
Methoxychlor	0.0211	0.0200	AVRG	5.5	15.0
=====	=====	=====	=====	=====	=====
Decachlorobiphenyl	0.0213	0.0200	AVRG	6.5	15.0
Tetrachloro-m-xylene	0.0218	0.0200	AVRG	9.0	15.0

FORM VII PESTICIDE

000220

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST3A

Calibration Date: 02/22/01

Time: 1840

Lab File ID: 'P302221A-34R

Init. Calib. Date(s): 02/22/01 02/22/01

Init. Calib. Times: 1604

1643

GC Column: RTX-CLP ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	0.02 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Aldrin	0.0230	0.0200	AVRG	15.0	15.0
alpha-BHC	0.0225	0.0200	AVRG	12.5	15.0
beta-BHC	0.0206	0.0200	AVRG	3.0	15.0
delta-BHC	0.0220	0.0200	AVRG	10.0	15.0
gamma-BHC (Lindane)	0.0221	0.0200	AVRG	10.5	15.0
alpha-chlordane	0.0214	0.0200	AVRG	7.0	15.0
gamma-chlordane	0.0228	0.0200	LINR	14.0	15.0
Chlorpyrifos	0.0223	0.0200	AVRG	11.5	15.0
4,4'-DDD	0.0217	0.0200	AVRG	8.5	15.0
4,4'-DDE/endosulfan I	0.0216	0.0200	AVRG	8.0	15.0
4,4'-DDT	0.0217	0.0200	AVRG	8.5	15.0
Dieldrin	0.0219	0.0200	AVRG	9.5	15.0
Endosulfan II	0.0228	0.0200	AVRG	14.0	15.0
Endosulfan sulfate	0.0216	0.0200	AVRG	8.0	15.0
Endrin	0.0139	0.0200	AVRG	30.5	15.0
Endrin aldehyde	0.0255	0.0200	AVRG	27.5	15.0
Endrin ketone	0.0248	0.0200	AVRG	24.0	15.0
Heptachlor	0.0222	0.0200	AVRG	11.0	15.0
Heptachlor epoxide	0.0218	0.0200	LINR	9.0	15.0
Methoxychlor	0.0209	0.0200	AVRG	4.5	15.0
=====	=====	=====	=====	=====	=====
Decachlorobiphenyl	0.0220	0.0200	AVRG	10.0	15.0
Tetrachloro-m-xylene	0.0214	0.0200	AVRG	7.0	15.0

<-
<-
<-

FORM VII PESTICIDE

000221

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST3A

Calibration Date(s): 02/22/01 02/22/01

Column: RTX-CLP ID: 0.25 (mm) Calibration Time(s): 1604 1705

LAB FILE ID: RF0.0004: P302221A RF0.004: P302221A RF0.01: P302221A-1
RF0.02: P302221A RF0.03: P302221A

COMPOUND	RF0.0004	RF0.004	RF0.01	RF0.02	RF0.03
=====	=====	=====	=====	=====	=====
Aldrin		32889250	27719800	34952600	32679167
alpha-BHC		3223000.0	2782200.0	3377100.0	3427166.7
beta-BHC		1083000.0	859500.00	997350.00	984866.67
delta-BHC		35475750	27670600	32766000	32002100
gamma-BHC (Lindane)		2933750.0	2504400.0	3062550.0	2973333.3
alpha-chlordane		40502000	29349600	32353950	30266433
gamma-chlordane		48929750	33223800	34910350	31847067
Chlordane			100860.00		
(2)			154220.00		
(3)			99020.000		
(4)			293480.00		
(5)			409300.00		
Chlorpyrifos		805250.00	671100.00	708200.00	641500.00
4,4'-DDD		19815750	15679600	18174950	17722600
4,4'-DDE/endosulfan I		71959250	54472000	61497700	58184067
4,4'-DDT		1312250.0	1011000.0	1169300.0	1197100.0
Dieldrin		38724000	29380200	33002700	31202400
Endosulfan II		1853750.0	1509000.0	1751250.0	1686066.7
Endosulfan sulfate		26716250	20504300	21433350	19322533
Endrin		28003750	20453100	23054250	21587267
Endrin aldehyde		1273000.0	1021000.0	1163400.0	1138633.3
Endrin ketone		1650750.0	1358300.0	1518500.0	1510866.7
Heptachlor		2606000.0	2206300.0	2648350.0	2634266.7
Heptachlor epoxide		3927750.0	2647300.0	2720850.0	2553633.3
Methoxychlor		561250.00	453200.00	488100.00	484866.67
Toxaphene			1367841.0		
(2)			1663938.0		
(3)			1701214.0		
(4)			2172747.0		
(5)			1147441.0		
=====	=====	=====	=====	=====	=====
Decachlorobiphenyl		1184750.0	912300.00	976600.00	972633.33
Tetrachloro-m-xylene		1927250.0	1511200.0	1638200.0	1652366.7

FORM VI PESTICIDE

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST3A

Calibration Date(s): 02/22/01 02/22/01

Column: RTX-CLP ID: 0.25 (mm)

Calibration Time(s): 1604 1705

LAB FILE ID: RF0.04: P302221A RF0.06: P302221A RF0.4: P302221A-13

COMPOUND	RF0.04	RF0.06	RF0.4
=====	=====	=====	=====
Aldrin	30656125	30455950	
alpha-BHC	3229625.0	3124200.0	2721727.5
beta-BHC	909400.00	888983.33	1155822.5
delta-BHC	30511725	29107633	34806688
gamma-BHC (Lindane)	2787700.0	2791633.3	
alpha-chlordane	28306925	27300500	30560778
gamma-chlordane	29506750	28736717	31586038
Chlordane			
(2)			
(3)			
(4)			
(5)			
Chlorpyrifos	598125.00	610016.67	663165.00
4,4'-DDD	16304350	16076467	19350775
4,4'-DDE/endosulfan I	53921850	52287083	
4,4'-DDT	1078800.0	1071516.7	1388085.0
Dieldrin	28654475	28101900	30202060
Endosulfan II	1576100.0	1536633.3	1648335.0
Endosulfan sulfate	16949225	16290167	19920430
Endrin	17366350	17108217	19273568
Endrin aldehyde	1084925.0	1069050.0	1210867.5
Endrin ketone	1391175.0	1359883.3	1553500.0
Heptachlor	2475800.0	2394066.7	2606062.5
Heptachlor epoxide	2369375.0	2246433.3	2292535.0
Methoxychlor	409575.00	410966.67	514685.00
Toxaphene			
(2)			
(3)			
(4)			
(5)			
=====	=====	=====	=====
Decachlorobiphenyl	879075.00	860066.67	1065320.0
Tetrachloro-m-xylene	1562500.0	1489483.3	

FORM VI PESTICIDE

000223

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST3A

Calibration Date(s): 02/22/01 02/22/01

Column: RTX-CLP ID: 0.25 (mm)

Calibration Time(s): 1604 1705

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		A0	A1	
=====	=====	=====	=====	=====
Aldrin	AVRG		31558815.3	7.9
alpha-BHC	AVRG		3126431.31	8.8
beta-BHC	AVRG		982703.214	11.0
delta-BHC	AVRG		31762928.0	9.0
gamma-BHC (Lindane)	AVRG		2842227.78	6.9
alpha-chlordane	AVRG		31234312.3	14.1
gamma-chlordane	LINR	3.71e-004	3.168e-008	1.000
Chlordane	LINR	0.00000000	9.915e-006	1.000
(2)	LINR	0.00000000	6.484e-006	1.000
(3)	LINR	0.00000000	1.01e-005	1.000
(4)	LINR	0.00000000	3.407e-006	1.000
(5)	LINR	0.00000000	2.443e-006	1.000
Chlorpyrifos	AVRG		671050.952	10.4
4,4'-DDD	AVRG		17589213.1	9.3
4,4'-DDE/endosulfan I	AVRG		58720325.0	12.4
4,4'-DDT	AVRG		1175435.95	11.6
Dieldrin	AVRG		31323962.1	11.7
Endosulfan II	AVRG		1651590.71	7.5
Endosulfan sulfate	AVRG		20162322.1	17.0
Endrin	AVRG		20978071.5	18.0
Endrin aldehyde	AVRG		1137267.98	7.6
Endrin ketone	AVRG		1477567.86	7.5
Heptachlor	AVRG		2510120.83	6.5
Heptachlor epoxide	LINR	-2.18e-003	4.389e-007	1.000
Methoxychlor	AVRG		474663.333	11.6
Toxaphene	LINR	0.00000000	7.311e-007	1.000
(2)	LINR	0.00000000	6.01e-007	1.000
(3)	LINR	0.00000000	5.878e-007	1.000
(4)	LINR	0.00000000	4.602e-007	1.000
(5)	LINR	0.00000000	8.715e-007	1.000
=====	=====	=====	=====	=====
Decachlorobiphenyl	AVRG		978677.857	11.7
Tetrachloro-m-xylene	AVRG		1630166.67	9.8

FORM VI PESTICIDE

000224

Environmental Testing & Consulting, Inc.

656 517

**Quality Control Reports
Level IV
GC Herbicides**

ENVIRONMENTAL TESTING & CONSULTING, INC

GC Herbicides Method 8151B/6640 Sequence Check List

Sequence ID: h202221 System ID: 2 Date: 2/22/01 Analyst: PJ

Column ID: Primary Confirmation Column Description: ZB-35 Supervisor: _____

Applicable ETC Order Nos. for this sequence:

0102-218 0102-491 _____
0102-459 _____

- Initial Calibration h2022101 b.m
 RSD of analytes $\leq 20\%$ may use average RF.
 RSD of analytes $\geq 20\%$ or analyst discretion, use linear regression ($r^2 \geq 0.99$)
- Calibration Verification – Beginning/Every 20th Sample / Ending. Note only those %D that affect data.
 %Difference $< 15\%$ or Average %Difference of All Analytes $< 15\%$

CV w/File #	Dalapon	MCP	Dicamba	MCPA	Dichloroprop	2,4-D	Silvex	2,4,5-T	Dinoseb	2,4-DB	DCAA	Average
1A 1						/	15.5	2.2				2.77
1B 2						/	/	/				/
2A 9						/	/	/				/
2B 10						/	/	/				/
3A 22						/	24.2	/				11.4
3B 23						/	/	/				/

- Method Blanks – Note results for positive results. Flag final results as B – Detected in Blank.
 1 per 20 samples per matrix.

Method Blank				
P11084 LB				
BLANK FI 2/19				
↓ 2/20				

- Laboratory Control Samples – Note failures only. 1 per 20 samples per matrix. Duplicate LCS when no MS/MSD available.

LCS/LCSD				
P1084 LCS	High recovery % on surrogate compound.		Resum	

- Matrix Spike/Matrix Spike Duplicate – 1 per 20 samples per matrix.

0102-218-3 MS
 -3 MSD > High recovery % on surrogate compound. *Resum*

- Notes

FORM 7
HERBICIDE CONTINUING CALIBRATION CHECK

656 519

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2B , , Calibration Date: 02/22/01 Time: 1243

Lab File ID: H202221B-02R Init. Calib. Date(s): 02/21/01 02/21/01

Init. Calib. Times: 1209 1440

GC Column: ZB-35 ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CALO AMOUNT	CURVE	%D	MAX %d
2,4-D	0.0917	0.100	LINR	8.3	15.0
Silvex	0.00925	0.0100	LINR	7.5	15.0
2,4,5-T	0.00996	0.0100	LINR	0.4	15.0

FORM VII HERBICIDE

000227

656 520

FORM 7
HERBICIDE CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2B

Calibration Date: 02/22/01

Time: 2017

Lab File ID: H202221B-09R

Init. Calib. Date(s): 02/21/01 02/21/01

Init. Calib. Times: 1209

1440

GC Column: ZB-35

ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CALO AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
2,4-D	0.0980	0.100	LINR	2.0	15.0
Silvex	0.00939	0.0100	LINR	6.1	15.0
=====	=====	=====	=====	=====	=====
2,4,5-T	0.0103	0.0100	LINR	3.0	15.0

FORM VII HERBICIDE

000228

FORM 7
HERBICIDE CONTINUING CALIBRATION CHECK

656 521

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2B

Calibration Date: 02/23/01 Time: 0208

Lab File ID: H202221B-23R

Init. Calib. Date(s): 02/21/01 02/21/01

Init. Calib. Times: 1209 1440

GC Column: ZB-35

ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CALO AMOUNT	CURVE	%D	MAX %d
2,4-D	0.100	0.100	LINR	0.0	15.0
Silvex	0.0107	0.0100	LINR	7.0	15.0
2,4,5-T	0.0108	0.0100	LINR	8.0	15.0

FORM VII HERBICIDE

000229

656 522

FORM 6
HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2B

Calibration Date(s): 02/21/01 02/21/01

Column: ZB-35

ID: 0.25 (mm)

Calibration Time(s): 1209

1440

LAB FILE ID: RF0.01: H202211B-0RF0.02: H202211B-0RF0.04: H202211B-0

RF0.1: H202211B-05RF0.25: H202211B-0

COMPOUND	RF0.01	RF0.02	RF0.04	RF0.1	RF0.25
=====	=====	=====	=====	=====	=====
2,4-D	126200.00	87100.000	77540.000	74630.000	80975.000
Silvex	52661000	36847333	33852600	31380400	33745550
=====	=====	=====	=====	=====	=====
2,4,5-T	36196000	25055667	22795400	25359500	25041200
=====	=====	=====	=====	=====	=====

FORM VI HERBICIDE

000230

FORM 6
HERBICIDE INITIAL CALIBRATION DATA

656 523

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2B

Calibration Date(s): 02/21/01 02/21/01

Column: ZB-35

ID: 0.25 (mm)

Calibration Time(s): 1209 1440

LAB FILE ID:

RF0.35: H202211B-0RF0: H202211B-08R

COMPOUND	RF0.35	RF0
=====	=====	=====
2,4-D	79764.000	75504.000
Silvex	34588080	34381580
=====	=====	=====
2,4,5-T	27531880	27983020

FORM VI HERBICIDE

000231

656 524

FORM 6
HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2B

Calibration Date(s): 02/21/01 02/21/01

Column: ZB-35

ID: 0.25 (mm)

Calibration Time(s): 1209

1440

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		A0	A1	
2,4-D	LINR	-6.64e-003	1.319e-005	0.999
Silvex	LINR	6.73e-005	2.905e-008	1.000
2,4,5-T	LINR	8.036e-004	3.557e-008	1.000

FORM VI HERBICIDE

000232

ENVIRONMENTAL TESTING & CONSULTING, INC

GC Herbicides Method 8151B/6640 Sequence Check List

Sequence ID: H202231 System ID: 2 Date: 2/23/01 Analyst: RL

Column ID: Primary / Confirmation Column Description: PKC ZB-5 Supervisor: DB-5

Applicable ETC Order Nos. for this sequence:

0102614

- Initial Calibration 202230/a.m
RSD of analytes $\leq 20\%$ may use average RF.
RSD of analytes $> 20\%$ or analyst discretion, use linear regression ($r^2 \geq 0.99$)
- Calibration Verification – Beginning/Every 20th Sample / Ending. Note only those %D that affect data.
%Difference $< 15\%$ or Average %Difference of All Analytes $< 15\%$.

CV w/File #	Dalapon	MCPP	Dicamba	MCPA	Dichloroprop	2,4-D	Silvex	2,4,5-T	Dinoseb	2,4-DB	DCAA	Average
1A <u>53</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>
1B <u>24</u>												
2A <u>45</u>												
2B <u>46</u>												
3A												
3B												

- Method Blanks – Note results for positive results. Flag final results as B – Detected in Blank.
1 per 20 samples per matrix.

Method Blank				
<u>P11085UB OK</u>				
<u>P11085UB2 OK</u>				

- Laboratory Control Samples – Note failures only. 1 per 20 samples per matrix. Duplicate LCS when no MS/MSD available.

LCS/LCSD				
<u>P11085LCS 24ST high</u>				
<u>P11084LCS 24ST high</u>				

- Matrix Spike/Matrix Spike Duplicate – 1 per 20 samples per matrix.

0102614 - 10MS, MSD 24ST high MS/MSD
0102218 - 3MS, MSD 24ST high MS/MSD

- Notes

FORM 7
HERBICIDE CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2A

Calibration Date: 02/23/01

Time: 2341

Lab File ID: H202231A-23R

Init. Calib. Date(s): 02/23/01

02/23/01

Init. Calib. Times: 1517

1749

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CAL0.1 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
2,4-D	0.101	0.100	LINR	1.0	15.0
Silvex	0.00924	0.0100	LINR	7.6	15.0
=====	=====	=====	=====	=====	=====
2,4,5-T	0.00953	0.0100	LINR	4.7	15.0

FORM VII HERBICIDE

FORM 7
HERBICIDE CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2A

Calibration Date: 02/24/01

Time: 0854

Lab File ID: H202231A-45R

Init. Calib. Date(s): 02/23/01 02/23/01

Init. Calib. Times: 1517 1749

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CAL0.1 AMOUNT	CURVE	%D	MAX %d
2,4-D	0.108	0.100	LINR	8.0	15.0
Silvex	0.00942	0.0100	LINR	5.8	15.0
2,4,5-T	0.00955	0.0100	LINR	4.5	15.0

FORM VII HERBICIDE

656 528

FORM 6
HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2A

Calibration Date(s): 02/23/01 02/23/01

Column: ZB-5

ID: 0.25 (mm)

Calibration Time(s): 1517

1749

LAB FILE ID: RF0.01: H202231A-0RF0.02: H202231A-0RF0.04: H202231A-0

RF0.1: H202231A-06RF0.25: H202231A-0

COMPOUND	RF0.01	RF0.02	RF0.04	RF0.1	RF0.25
=====	=====	=====	=====	=====	=====
2,4-D	1296300.0	817600.00	706940.00	607240.00	561895.00
Silvex	4518000.0	2720333.3	2462000.0	2226700.0	2229200.0
=====	=====	=====	=====	=====	=====
2,4,5-T	3431000.0	2066666.7	1856400.0	1767600.0	1768000.0
=====	=====	=====	=====	=====	=====

FORM VI HERBICIDE

000236

FORM 6
HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2A

Calibration Date(s): 02/23/01 02/23/01

Column: ZB-5

ID: 0.25 (mm)

Calibration Time(s): 1517 1749

LAB FILE ID:

RF0.35: H202231A-0RF0: H202231A-09R

COMPOUND	RF0.35	RF0
=====	=====	=====
2,4-D	515532.00	435796.00
Silvex	2323780.0	2101890.0
=====	=====	=====
2,4,5-T	1859520.0	1671930.0
=====	=====	=====

FORM 6
HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-218

Instrument ID: PEST2A

Calibration Date(s): 02/23/01 02/23/01

Column: ZB-5

ID: 0.25 (mm)

Calibration Time(s): 1517

1749

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R^2
		A0	A1	
2,4-D	LINR	-3.91e-002	2.303e-006	0.993
Silvex	LINR	-1.24e-003	4.727e-007	0.998
2,4,5-T	LINR	-1.11e-003	5.924e-007	0.997

FORM VI HERBICIDE



ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road • Memphis, TN 38111 • (901) 327-2750 • FAX (901) 327-6334

Founded 1972

March 2, 2001

Mr Jerry Girardea
Innovative Waste Management
P.O. Box 50397
Summerville, SC 29485-0397

Ref: Analytical Testing
ETC Order # 0102614
Project Description UXB-Dunn Field

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods, The Solid Waste Manual SW-846, EPA Methods for Chemical Analysis of Water and Wastes and/or 40 CFR part 136.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, instrumentation maintenance and calibration was performed in accordance with guidelines established by the USPEA.

The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact our office if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads 'Chet Scheibel'.

Chet Scheibel
Laboratory Project Manager

rt
Attachment

INNOVWASTE

Certifications

Tennessee #TN02027
Arkansas #40730
Kentucky #90047

Mississippi
Oklahoma #9311
Virginia #00106

Environmental Testing & Consulting, Inc.
Data Qualifiers for Organic Reporting

Within the attached report, some analytical data may be reported as "Qualified Data" as indicated by a "Data Qualifier" next to the result. This table summarizes the possible "Data Qualifiers" that may be associated with this report. These qualifiers do not apply for TIC reports.

Q	Surrogate Recovery Outside QC Limits
J	Estimated Value. Presence of the compound was confirmed but less than the reported detection limit.
E	Concentration exceeds the established method calibration range but is within the working range of the instrument.
B	Analyte detected in the associated Method Blank.
U	Reported result was unconfirmed. Refer to Case Narrative.
N	Non-Compliance Report associated with this sample or project.
C	Result reported from GC/MS confirmation analysis.
M	Result reported represents a minimum value. Refer to Case Narrative.
NC	Result reported from Primary Column. Result did not confirm.
*	QC Data (percent recovery/RPD for a particular analyte was outside QC Limits)

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **UXB-Dunn Field**

ETC Order #0102614

<u>ETC Sample ID</u>	<u>Field ID</u>	<u>Matrix</u>	<u>Method</u>	<u>Method Description</u>
010261401	DF/24-A/1052/R01/2	SOIL	7.3.3	Reactive Cyanide
010261401	DF/24-A/1052/R01/2	SOIL	1010	Ignitability/Flashpoint
010261401	DF/24-A/1052/R01/2	SOIL	9045C	pH - Corrosivity
010261401	DF/24-A/1052/R01/2	SOIL	7.3.4	Reactive Sulfide
010261401	DF/24-A/1052/R01/2	SOIL	6010B	Arsenic
010261401	DF/24-A/1052/R01/2	SOIL	8151A	TCLP Herbicides
010261401	DF/24-A/1052/R01/2	SOIL	8081A	TCLP Pesticides
010261401	DF/24-A/1052/R01/2	SOIL	1311	TCLP Extraction Organics
010261402	DF/24-A/1052/R02/2	SOIL	7.3.3	Reactive Cyanide
010261402	DF/24-A/1052/R02/2	SOIL	1010	Ignitability/Flashpoint
010261402	DF/24-A/1052/R02/2	SOIL	9045C	pH - Corrosivity
010261402	DF/24-A/1052/R02/2	SOIL	7.3.4	Reactive Sulfide
010261402	DF/24-A/1052/R02/2	SOIL	6010B	Arsenic
010261402	DF/24-A/1052/R02/2	SOIL	8151A	TCLP Herbicides
010261402	DF/24-A/1052/R02/2	SOIL	8081A	TCLP Pesticides
010261402	DF/24-A/1052/R02/2	SOIL	1311	TCLP Extraction Organics
010261403	DF/24-A/1052/R03/2	SOIL	7.3.3	Reactive Cyanide
010261403	DF/24-A/1052/R03/2	SOIL	1010	Ignitability/Flashpoint
010261403	DF/24-A/1052/R03/2	SOIL	9045C	pH - Corrosivity
010261403	DF/24-A/1052/R03/2	SOIL	7.3.4	Reactive Sulfide
010261403	DF/24-A/1052/R03/2	SOIL	6010B	Arsenic
010261403	DF/24-A/1052/R03/2	SOIL	8151A	TCLP Herbicides
010261403	DF/24-A/1052/R03/2	SOIL	8081A	TCLP Pesticides
010261403	DF/24-A/1052/R03/2	SOIL	1311	TCLP Extraction Organics
010261404	DF/24-A/1052/R04/2	SOIL	7.3.3	Reactive Cyanide
010261404	DF/24-A/1052/R04/2	SOIL	1010	Ignitability/Flashpoint
010261404	DF/24-A/1052/R04/2	SOIL	9045C	pH - Corrosivity
010261404	DF/24-A/1052/R04/2	SOIL	7.3.4	Reactive Sulfide
010261404	DF/24-A/1052/R04/2	SOIL	6010B	Arsenic
010261404	DF/24-A/1052/R04/2	SOIL	8151A	TCLP Herbicides
010261404	DF/24-A/1052/R04/2	SOIL	8081A	TCLP Pesticides
010261404	DF/24-A/1052/R04/2	SOIL	1311	TCLP Extraction Organics
010261405	DF/24-A/1052/R05/2	SOIL	7.3.3	Reactive Cyanide
010261405	DF/24-A/1052/R05/2	SOIL	1010	Ignitability/Flashpoint
010261405	DF/24-A/1052/R05/2	SOIL	9045C	pH - Corrosivity
010261405	DF/24-A/1052/R05/2	SOIL	7.3.4	Reactive Sulfide
010261405	DF/24-A/1052/R05/2	SOIL	6010B	Arsenic
010261405	DF/24-A/1052/R05/2	SOIL	8151A	TCLP Herbicides
010261405	DF/24-A/1052/R05/2	SOIL	8081A	TCLP Pesticides
010261405	DF/24-A/1052/R05/2	SOIL	1311	TCLP Extraction Organics
010261406	DF/24-A/1052/R06/2	SOIL	7.3.3	Reactive Cyanide
010261406	DF/24-A/1052/R06/2	SOIL	1010	Ignitability/Flashpoint
010261406	DF/24-A/1052/R06/2	SOIL	9045C	pH - Corrosivity
010261406	DF/24-A/1052/R06/2	SOIL	7.3.4	Reactive Sulfide
010261406	DF/24-A/1052/R06/2	SOIL	6010B	Arsenic
010261406	DF/24-A/1052/R06/2	SOIL	8151A	TCLP Herbicides
010261406	DF/24-A/1052/R06/2	SOIL	8081A	TCLP Pesticides
010261406	DF/24-A/1052/R06/2	SOIL	1311	TCLP Extraction Organics
010261407	DF/24-A/1052/R07/2	SOIL	7.3.3	Reactive Cyanide
010261407	DF/24-A/1052/R07/2	SOIL	1010	Ignitability/Flashpoint

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **UXB-Dunn Field**

ETC Order #0102614

ETC Sample ID	Field ID	Matrix	Method	Method Description
010261407	DF/24-A/1052/R07/2	SOIL	9045C	pH - Corrosivity
010261407	DF/24-A/1052/R07/2	SOIL	7.3.4	Reactive Sulfide
010261407	DF/24-A/1052/R07/2	SOIL	6010B	Arsenic
010261407	DF/24-A/1052/R07/2	SOIL	8151A	TCLP Herbicides
010261407	DF/24-A/1052/R07/2	SOIL	8081A	TCLP Pesticides
010261407	DF/24-A/1052/R07/2	SOIL	1311	TCLP Extraction Organics
010261408	DF/24-A/1052/R08/2	SOIL	7.3.3	Reactive Cyanide
010261408	DF/24-A/1052/R08/2	SOIL	1010	Ignitability/Flashpoint
010261408	DF/24-A/1052/R08/2	SOIL	9045C	pH - Corrosivity
010261408	DF/24-A/1052/R08/2	SOIL	7.3.4	Reactive Sulfide
010261408	DF/24-A/1052/R08/2	SOIL	6010B	Arsenic
010261408	DF/24-A/1052/R08/2	SOIL	8151A	TCLP Herbicides
010261408	DF/24-A/1052/R08/2	SOIL	8081A	TCLP Pesticides
010261408	DF/24-A/1052/R08/2	SOIL	1311	TCLP Extraction Organics
010261409	DF/24-A/1052/R09/2	SOIL	7.3.3	Reactive Cyanide
010261409	DF/24-A/1052/R09/2	SOIL	1010	Ignitability/Flashpoint
010261409	DF/24-A/1052/R09/2	SOIL	9045C	pH - Corrosivity
010261409	DF/24-A/1052/R09/2	SOIL	7.3.4	Reactive Sulfide
010261409	DF/24-A/1052/R09/2	SOIL	6010B	Arsenic
010261409	DF/24-A/1052/R09/2	SOIL	8151A	TCLP Herbicides
010261409	DF/24-A/1052/R09/2	SOIL	8081A	TCLP Pesticides
010261409	DF/24-A/1052/R09/2	SOIL	1311	TCLP Extraction Organics
010261410	DF/24-A/1052/R10/2	SOIL	7.3.3	Reactive Cyanide
010261410	DF/24-A/1052/R10/2	SOIL	1010	Ignitability/Flashpoint
010261410	DF/24-A/1052/R10/2	SOIL	9045C	pH - Corrosivity
010261410	DF/24-A/1052/R10/2	SOIL	7.3.4	Reactive Sulfide
010261410	DF/24-A/1052/R10/2	SOIL	6010B	Arsenic
010261410	DF/24-A/1052/R10/2	SOIL	8151A	TCLP Herbicides
010261410	DF/24-A/1052/R10/2	SOIL	8081A	TCLP Pesticides
010261410	DF/24-A/1052/R10/2	SOIL	1311	TCLP Extraction Organics
010261411	DF/24-A/1052/R11/2	SOIL	7.3.3	Reactive Cyanide
010261411	DF/24-A/1052/R11/2	SOIL	1010	Ignitability/Flashpoint
010261411	DF/24-A/1052/R11/2	SOIL	9045C	pH - Corrosivity
010261411	DF/24-A/1052/R11/2	SOIL	7.3.4	Reactive Sulfide
010261411	DF/24-A/1052/R11/2	SOIL	6010B	Arsenic
010261411	DF/24-A/1052/R11/2	SOIL	8151A	TCLP Herbicides
010261411	DF/24-A/1052/R11/2	SOIL	8081A	TCLP Pesticides
010261411	DF/24-A/1052/R11/2	SOIL	1311	TCLP Extraction Organics
010261412	DF/24-A/1052/R12/2	SOIL	7.3.3	Reactive Cyanide
010261412	DF/24-A/1052/R12/2	SOIL	1010	Ignitability/Flashpoint
010261412	DF/24-A/1052/R12/2	SOIL	9045C	pH - Corrosivity
010261412	DF/24-A/1052/R12/2	SOIL	7.3.4	Reactive Sulfide
010261412	DF/24-A/1052/R12/2	SOIL	6010B	Arsenic
010261412	DF/24-A/1052/R12/2	SOIL	8151A	TCLP Herbicides
010261412	DF/24-A/1052/R12/2	SOIL	8081A	TCLP Pesticides
010261412	DF/24-A/1052/R12/2	SOIL	1311	TCLP Extraction Organics
010261413	DF/24-A/1052/R13/2	SOIL	7.3.3	Reactive Cyanide
010261413	DF/24-A/1052/R13/2	SOIL	1010	Ignitability/Flashpoint
010261413	DF/24-A/1052/R13/2	SOIL	9045C	pH - Corrosivity
010261413	DF/24-A/1052/R13/2	SOIL	7.3.4	Reactive Sulfide
010261413	DF/24-A/1052/R13/2	SOIL	6010B	Arsenic
010261413	DF/24-A/1052/R13/2	SOIL	8151A	TCLP Herbicides

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

ANALYTICAL SUMMARY/CROSS REFERENCE TABLE

Client Name **Innovative Waste Management**
 Site ID **UXB-Dunn Field**

ETC Order #0102614

ETC Sample ID	Field ID	Matrix	Method	Method Description
010261413	DF/24-A/1052/R13/2	SOIL	8081A	TCLP Pesticides
010261413	DF/24-A/1052/R13/2	SOIL	1311	TCLP Extraction Organics
010261414	DF/24-A/1052/R14/2	SOIL	7.3 3	Reactive Cyanide
010261414	DF/24-A/1052/R14/2	SOIL	1010	Ignitability/Flashpoint
010261414	DF/24-A/1052/R14/2	SOIL	9045C	pH - Corrosivity
010261414	DF/24-A/1052/R14/2	SOIL	7.3.4	Reactive Sulfide
010261414	DF/24-A/1052/R14/2	SOIL	6010B	Arsenic
010261414	DF/24-A/1052/R14/2	SOIL	8151A	TCLP Herbicides
010261414	DF/24-A/1052/R14/2	SOIL	8081A	TCLP Pesticides
010261414	DF/24-A/1052/R14/2	SOIL	1311	TCLP Extraction Organics
010261415	DF/24-A/1052/R15/2	SOIL	7.3.3	Reactive Cyanide
010261415	DF/24-A/1052/R15/2	SOIL	1010	Ignitability/Flashpoint
010261415	DF/24-A/1052/R15/2	SOIL	9045C	pH - Corrosivity
010261415	DF/24-A/1052/R15/2	SOIL	7.3.4	Reactive Sulfide
010261415	DF/24-A/1052/R15/2	SOIL	6010B	Arsenic
010261415	DF/24-A/1052/R15/2	SOIL	8151A	TCLP Herbicides
010261415	DF/24-A/1052/R15/2	SOIL	8081A	TCLP Pesticides
010261415	DF/24-A/1052/R15/2	SOIL	1311	TCLP Extraction Organics
010261416	DF/24-A/1052/R16/2	SOIL	7.3.3	Reactive Cyanide
010261416	DF/24-A/1052/R16/2	SOIL	1010	Ignitability/Flashpoint
010261416	DF/24-A/1052/R16/2	SOIL	9045C	pH - Corrosivity
010261416	DF/24-A/1052/R16/2	SOIL	7.3.4	Reactive Sulfide
010261416	DF/24-A/1052/R16/2	SOIL	6010B	Arsenic
010261416	DF/24-A/1052/R16/2	SOIL	8151A	TCLP Herbicides
010261416	DF/24-A/1052/R16/2	SOIL	8081A	TCLP Pesticides
010261416	DF/24-A/1052/R16/2	SOIL	1311	TCLP Extraction Organics
010261417	DF/24-A/1052/R17/2	SOIL	7.3.3	Reactive Cyanide
010261417	DF/24-A/1052/R17/2	SOIL	1010	Ignitability/Flashpoint
010261417	DF/24-A/1052/R17/2	SOIL	9045C	pH - Corrosivity
010261417	DF/24-A/1052/R17/2	SOIL	7.3.4	Reactive Sulfide
010261417	DF/24-A/1052/R17/2	SOIL	6010B	Arsenic
010261417	DF/24-A/1052/R17/2	SOIL	8151A	TCLP Herbicides
010261417	DF/24-A/1052/R17/2	SOIL	8081A	TCLP Pesticides
010261417	DF/24-A/1052/R17/2	SOIL	1311	TCLP Extraction Organics
010261418	DF/24-A/1052/R18/2	SOIL	7.3.3	Reactive Cyanide
010261418	DF/24-A/1052/R18/2	SOIL	1010	Ignitability/Flashpoint
010261418	DF/24-A/1052/R18/2	SOIL	9045C	pH - Corrosivity
010261418	DF/24-A/1052/R18/2	SOIL	7.3.4	Reactive Sulfide
010261418	DF/24-A/1052/R18/2	SOIL	6010B	Arsenic
010261418	DF/24-A/1052/R18/2	SOIL	8151A	TCLP Herbicides
010261418	DF/24-A/1052/R18/2	SOIL	8081A	TCLP Pesticides
010261418	DF/24-A/1052/R18/2	SOIL	1311	TCLP Extraction Organics
010261419	DF/24-A/1052/R19/2	SOIL	7.3.3	Reactive Cyanide
010261419	DF/24-A/1052/R19/2	SOIL	1010	Ignitability/Flashpoint
010261419	DF/24-A/1052/R19/2	SOIL	9045C	pH - Corrosivity
010261419	DF/24-A/1052/R19/2	SOIL	7.3.4	Reactive Sulfide
010261419	DF/24-A/1052/R19/2	SOIL	6010B	Arsenic
010261419	DF/24-A/1052/R19/2	SOIL	8151A	TCLP Herbicides
010261419	DF/24-A/1052/R19/2	SOIL	8081A	TCLP Pesticides
010261419	DF/24-A/1052/R19/2	SOIL	1311	TCLP Extraction Organics

656 536

Environmental Testing & Consulting, Inc.

Login
Chain-of-Custody

000005

Chain of Custody Record

ETC

Quanterra, Inc. - Pittsburgh PA Lab
450 William Pitt Way
Pittsburgh PA 15238



Client: UAB Project Manager: Frank Johnson/Sim Thoren Chain Of Custody Number: 67187

Address: 1708 Dunn Ave Telephone Number (Area Code)/Fax Number: 901-745-4999 Lab Number: 1 of 2

City: Memphis State: TN Zip Code: 38106 Date: 01/02/04

Project Name: Dunn Field Site Contact: Sim Dunkle Analysis: 1 of 2

Contract/Purchase Order/Quote No. Carrier/Waybill Number

Sample ID No. and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt
					Type	No.		
DF/24-A/1052/R01/2	21 Feb 01	10:19	Soil		Class 1	None		
DF/24-A/1052/R02/2		10:26						
DF/24-A/1052/R03/2		10:31						
DF/24-A/1052/R04/2		10:49						
DF/24-A/1052/R05/2		10:54						
DF/24-A/1052/R06/2		10:57						
DF/24-A/1052/R07/2		11:32						
DF/24-A/1052/R08/2		11:37						
DF/24-A/1052/R09/2		11:41						
DF/24-A/1052/R10/2		11:57						
DF/24-A/1052/R11/2		12:02						
DF/24-A/1052/R12/2		12:06						
DF/24-A/1052/R13/2		12:11						
DF/24-A/1052/R14/2		12:30						
DF/24-A/1052/R15/2		12:36						
DF/24-A/1052/R16/2	21 Feb 01	13:07	Soil		Class 1	None		

Special Instructions

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown
 Turn Around Time Required ☐ L ☐ II ☐ III

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Project Specific (Specify)
 1 Received By Date 21 Feb 01 Time 14:30
 2 Received By Date 2-21-01 Time 15:15
 3 Received By Date 2/21/01 Time 15:15

Comments:

ETC

Chain of Custody Record

Quanterra, Inc. - Pittsburgh, PA Lab
450 William Pitt Way
Pittsburgh, PA 15288



QUA 4124

Client: **UACB**

Address: **1706 Dunn Ave**

City: **Memphis** State: **TN** Zip Code: **38106**

Project Name: **Dunn Field**

Contract/Purchase Order/Quote No.:

Project Manager: **Frank Johnson / Jim Thoren**

Telephone Number (Area Code)/Fax Number: **901-745-4999**

Date: **01/02/04**

Chain Of Custody Number: **67189**

Page **2** of **2**

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt
					Type	No.		
DF/24-A/1052/R17/2	21Feb01	1314	Soil		Class	1		
DF/24-A/1052/R18/2	21Feb01	1319	Soil		Class	1		
DF/24-A/1052/R19/2	21Feb01	1326	Soil		Class	1		
<i>Do Further Entries</i> <i>Analysis</i>								

Special Instructions

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Polson B ☐ Unknown

Turn Around Time Required

☐ Normal ☐ Rush

Relinquished By: *Frank Johnson* Date: *21Feb01* Time: *1430*

Relinquished By: *Jim Thoren* Date: *21Feb01* Time: *15:15*

Relinquished By: *Frank Johnson* Date: *21Feb01* Time: *15:15*

Comments: *Do Further Entries*

Sample Disposal

☐ Return To Client ☐ Disposed By Lab ☐ Archive For _____ Months

Project Specific (Specify)

1. Received By: *Frank Johnson* Date: *21Feb01* Time: *2:30*

2. Received By: *Jim Thoren* Date: *21Feb01* Time: *15:15*

3. Received By: *Frank Johnson* Date: *21Feb01* Time: *15:15*

DISTRIBUTION: WHITE - Stays with Sample, CANARY - Returned to Client with Report, PINK - Field Copy

Environmental Testing & Consulting, Inc.
Cooler Receipt Form

Date Received 2/21/01
Date/Time Checked In 2/21/01-15:15
Carrier/Bill# Hand-Delivered

LIMS# 0102-614
Project Dunn Field
By Rebekah Barger

1. Custody Seals?/Location-front	No
2. Samples are non-radioactive?	Yes
3. Chain of Custody in plastic?	Yes
4. Temperature at receipt (ok = 4 ± 2 °C) <40C	OK
5. Ice & Packing-bags, ice, bubble wrap	Yes
6. Chain of Custody filled out properly?	Yes
7. All containers in separate bags?	No
8. Sample containers intact?	Yes
9. Label(s) complete and in good condition?	Yes
10. Label(s) agree with Chain of Custody?	Yes
11. Correct containers used?	Yes
12. Sufficient sample?	Yes
13. VOA vials bubble-free (H ₂ O) or no head space (soil)?	Yes
14. Preservation OK? TM pH____; TRPH pH____; TOC pH____; TOX pH____; CN pH____; N/P pH____, Other pH____	Yes

Comments _____

*Validated Date and Time of Sample Receipt (VDTSR)

656 540

Environmental Testing & Consulting, Inc.

Sample Reports

000009

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-01**Matrix : **SOIL**Field ID : **DF/24-A/1052/R01/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/22/01	TL	7.3.3	RC022211
Ignitability/Flashpoint	> 96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	7.2	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/22/01	TL	7.3.4	RS022211



Data Validator

ND - Not Detected

000010

656 542

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-02**Matrix : **SOIL**Field ID : **DF/24-A/1052/R02/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/22/01	TL	7.3.3	RC022211
Ignitability/Flashpoint	>96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	7.4	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/22/01	TL	7.3.4	RS022211



Data Validator

ND - Not Detected

000011

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-03**Matrix : **SOIL**Field ID : **DF/24-A/1052/R03/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/22/01	TL	7.3.3	RC022211
Ignitability/Flashpoint	>96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	6.9	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/22/01	TL	7.3.4	RS022211



Data Validator

ND - Not Detected

000012

656 544

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived : **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-04**Matrix : **SOIL**Field ID : **DF/24-A/1052/R04/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/22/01	TL	7.3 3	RC022211
Ignitability/Flashpoint	>96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	7.3	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/22/01	TL	7.3 4	RS022211



Data Validator

ND - Not Detected

000013

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-05**Matrix : **SOIL**Field ID : **DF/24-A/1052/R05/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/22/01	TL	7.3.3	RC022211
Ignitability/Flashpoint	> 96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	7.3	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/22/01	TL	7.3.4	RS022211


Data Validator

ND - Not Detected

000014

656 546

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID : **0102614-06**
Field ID : **DF/24-A/1052/R06/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/22/01	TL	7.3.3	RC022211
Ignitability/Flashpoint	> 96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	7.6	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/22/01	TL	7.3.4	RS022211



Data Validator

ND - Not Detected

000015

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-07**Matrix : **SOIL**Field ID : **DF/24-A/1052/R07/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	>96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	7.5	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7 3.4	RS022311



Data Validator

ND - Not Detected

000016

656 548

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-08**Matrix : **SOIL**Field ID : **DF/24-A/1052/R08/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7 3 3	RC022311
Ignitability/Flashpoint	>96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	7.4	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7.3.4	RS022311


Data Validator

ND - Not Detected

000017

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397**
Summerville, SC 29485-0397Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-09**Matrix : **SOIL**Field ID : **DF/24-A/1052/R09/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	> 96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	7.2	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	49.3	mg/Kg	25	02/23/01	TL	7.3.4	RS022311


Data Validator

ND - Not Detected

000018

656 550

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-10**Matrix : **SOIL**Field ID : **DF/24-A/1052/R10/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	> 96	oC		02/22/01	GD	1010	G022211
pH - Corrosivity	7.2	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7.3.4	RS022311



Data Validator

ND - Not Detected

000019

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

656 551

Client Name **Innovative Waste Management**

Site ID **UXB-Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

Date Arrived **02/21/01**

ETC Order Number **0102614**

ETC Lab ID : **0102614-11**

Matrix : **SOIL**

Field ID : **DF/24-A/1052/R11/2**

Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	>96	oC		02/23/01	GD	1010	G022311
pH - Corrosivity	6.0	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7.3.4	RS022311

(5)

Data Validator

ND - Not Detected

000020

656 552

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID : **0102614-12**
Field ID : **DF/24-A/1052/R12/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	>96	oC		02/23/01	GD	1010	G022311
pH - Corrosivity	5.7	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7.3.4	RS022311



Data Validator

ND - Not Detected

000021

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-13**Matrix : **SOIL**Field ID : **DF/24-A/1052/R13/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	>96	oC		02/23/01	GD	1010	G022311
pH - Corrosivity	7.6	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7.3.4	RS022311



Data Validator

ND - Not Detected

000022

656 554

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID : **0102614-14**
Field ID : **DF/24-A/1052/R14/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	>96	oC		02/23/01	GD	1010	G022311
pH - Corrosivity	7.2	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7.3.4	RS022311



Data Validator

ND - Not Detected

000023

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-15**Matrix : **SOIL**Field ID : **DF/24-A/1052/R15/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0 125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	>96	oC		02/23/01	GD	1010	G022311
pH - Corrosivity	7.7	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7.3.4	RS022311


Data Validator

ND - Not Detected

000024

656 556

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-16**Matrix : **SOIL**Field ID : **DF/24-A/1052/R16/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3 3	RC022311
Ignitability/Flashpoint	>96	oC		02/23/01	GD	1010	G022311
pH - Corrosivity	6.6	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	29.9	mg/Kg	25	02/23/01	TL	7.3.4	RS022311



Data Validator

ND - Not Detected

000025

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-17**Matrix : **SOIL**Field ID : **DF/24-A/1052/R17/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	>96	oC		02/23/01	GD	1010	G022311
pH - Corrosivity	6.9	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	26.5	mg/Kg	25	02/23/01	TL	7.3 4	RS022311

000026


Data Validator

ND - Not Detected

656 558

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID : **0102614-18**
Field ID : **DF/24-A/1052/R18/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0.125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	>96	oC		02/23/01	GD	1010	G022311
pH - Corrosivity	7.2	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7 3.4	RS022311



Data Validator

ND - Not Detected

000027

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-19**Matrix : **SOIL**Field ID : **DF/24-A/1052/R19/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	BY	METHOD	QC BATCH
Reactive Cyanide	ND	mg/Kg	0 125	02/23/01	TL	7.3.3	RC022311
Ignitability/Flashpoint	> 96	oC		02/23/01	GD	1010	G022311
pH - Corrosivity	7.9	SU		02/23/01	TL	9045C	H022311
Reactive Sulfide	ND	mg/Kg	25	02/23/01	TL	7.3.4	RS022311


Data Validator

ND - Not Detected

000028

656 560

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

Site ID **UXB-Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

Date Arrived **02/21/01**

ETC Order Number **0102614**

ETC Lab ID : **0102614-01**

Matrix : **SOIL**

Field ID : **DF/24-A/1052/R01/2**

Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	9.69	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B


Data Validator

ND - Not Detected

000029

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-02**Matrix : **SOIL**Field ID : **DF/24-A/1052/R02/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42						
Arsenic	10.9	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B



Data Validator

ND - Not Detected

300030

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-03**Matrix : **SOIL**Field ID : **DF/24-A/1052/R03/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	14.0	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B


Data Validator

ND - Not Detected

000031

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-04**Matrix : **SOIL**Field ID : **DF/24-A/1052/R04/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42						
Arsenic	17.8	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B


Data Validator

ND - Not Detected

000032

656 564

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

Site ID **UXB-Dunn Field**

**P.O. Box 50397
Summerville, SC 29485-0397**

Date Arrived **02/21/01**

ETC Order Number **0102614**

ETC Lab ID : **0102614-05**

Matrix : **SOIL**

Field ID : **DF/24-A/1052/R05/2**

Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	11.4	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B



Data Validator

ND - Not Detected

000033

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-06**Matrix : **SOIL**Field ID : **DF/24-A/1052/R06/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42						
Arsenic	12.2	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B


Data Validator

ND - Not Detected

000034

656 566

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-07**Matrix : **SOIL**Field ID : **DF/24-A/1052/R07/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	24.1	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B



Data Validator

ND - Not Detected

000035

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-08**Matrix : **SOIL**Field ID : **DF/24-A/1052/R08/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42						
Arsenic	12.3	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B


Data Validator

ND - Not Detected

000036

656 568

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

Site ID **UXB-Dunn Field**

**P.O. Box 50397
Summerville, SC 29485-0397**

Date Arrived **02/21/01**

ETC Order Number **0102614**

ETC Lab ID : **0102614-09**

Matrix : **SOIL**

Field ID : **DF/24-A/1052/R09/2**

Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	12.0	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B



Data Validator

ND - Not Detected

000037

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-10**Matrix : **SOIL**Field ID : **DF/24-A/1052/R10/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42						
Arsenic	17.9	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B



Data Validator

ND - Not Detected

000038

656 570

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-11**Matrix : **SOIL**Field ID : **DF/24-A/1052/R11/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	9.49	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B



Data Validator

ND - Not Detected

000039

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-12**Matrix : **SOIL**Field ID : **DF/24-A/1052/R12/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42						
Arsenic	8.94	mg/Kg	0 500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B


Data Validator

ND - Not Detected

000040

656 572

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-13**Matrix : **SOIL**Field ID : **DF/24-A/1052/R13/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	47.2	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B



Data Validator

ND - Not Detected

000041

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-14**Matrix : **SOIL**Field ID : **DF/24-A/1052/R14/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42						
Arsenic	18.9	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B

656 574

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

Site ID **UXB-Dunn Field**

P.O. Box 50397
Summerville, SC 29485-0397

Date Arrived **02/21/01**

ETC Order Number **0102614**

ETC Lab ID : **0102614-15**

Matrix : **SOIL**

Field ID : **DF/24-A/1052/R15/2**

Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	14.7	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B

000043


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-16**Matrix : **SOIL**Field ID : **DF/24-A/1052/R16/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	7.43	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B



Data Validator

ND - Not Detected

000044

656 576

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

Site ID **UXB-Dunn Field**

**P.O. Box 50397
Summerville, SC 29485-0397**

Date Arrived **02/21/01**
ETC Order Number **0102614**

ETC Lab ID : **0102614-17**
Field ID : **DF/24-A/1052/R17/2**

Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	21.9	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B

000045


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID : **0102614-18**Matrix : **SOIL**Field ID : **DF/24-A/1052/R18/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42						
Arsenic	8.54	mg/Kg	0.500	02/23/01	02/22/01 02/22/01	NR SH	3051 6010B

656 578

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**

Site ID **UXB-Dunn Field**

**P.O. Box 50397
Summerville, SC 29485-0397**

Date Arrived **02/21/01**

ETC Order Number **0102614**

ETC Lab ID : **0102614-19**

Matrix : **SOIL**

Field ID : **DF/24-A/1052/R19/2**

Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE PREPARED	BY	METHOD
Metals Digestion Batch	V13-SO-42				02/22/01	NR	3051
Arsenic	5.96	mg/Kg	0.500	02/23/01	02/22/01	SH	6010B

000047


Data Validator

ND - Not Detected

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-01**Field ID : **DF/24-A/1052/R01/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020					3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	66		34	115		
S2 - Tetrachloro-m-xylene	166 Q		31	96		

000048


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 580

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-02**
Field ID : **DF/24-A/1052/R02/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	58		34	115		
S2 - Tetrachloro-m-xylene	157 Q		31	96		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000049

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-03**Field ID : **DF/24-A/1052/R03/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A 3510C
QC Batch	P08020					
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	71		34	115		
S2 - Tetrachloro-m-xylene	166 Q		31	96		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000050

656 582

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-04**Field ID : **DF/24-A/1052/R04/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	56		34	115		
S2 - Tetrachloro-m-xylene	151 Q		31	96		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000051

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-05**Field ID : **DF/24-A/1052/R05/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020					3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	68		34	115		
S2 - Tetrachloro-m-xylene	164 Q		31	96		

000052


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 584

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-06**Matrix : **SOIL**Field ID : **DF/24-A/1052/R06/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	59		34	115		
S2 - Tetrachloro-m-xylene	156 Q		31	96		

000053


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-07**Field ID : **DF/24-A/1052/R07/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	72		34	115		
S2 - Tetrachloro-m-xylene	164 Q		31	96		


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000054

656 536

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-08**
Field ID : **DF/24-A/1052/R08/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	62		34			115
S2 - Tetrachloro-m-xylene	155 Q		31			96



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000055

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-09**Field ID : **DF/24-A/1052/R09/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG 8081A	3510C
QC Batch	P08020				02/23/01	
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	68		34	115		
S2 - Tetrachloro-m-xylene	164 Q		31	96		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000056

656 588

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-10**
Field ID : **DF/24-A/1052/R10/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	70		34	115		
S2 - Tetrachloro-m-xylene	169 Q		31	96		


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000057

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-11**
Field ID : **DF/24-A/1052/R11/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	66		34	115		
S2 - Tetrachloro-m-xylene	154 Q		31	96		


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000058

656 590

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-12**
Field ID : **DF/24-A/1052/R12/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	71		34	115		
S2 - Tetrachloro-m-xylene	162 Q		31	96		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000059

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-13**Field ID : **DF/24-A/1052/R13/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG 8081A	3510C
QC Batch	P08020					
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	62		34	115		
S2 - Tetrachloro-m-xylene	161 Q		31	96		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000060

656 592

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-14**
Field ID : **DF/24-A/1052/R14/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/24/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	65		34	115		
S2 - Tetrachloro-m-xylene	148 Q		31	96		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000061

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-15**Field ID : **DF/24-A/1052/R15/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG 8081A	3510C
QC Batch	P08020				02/23/01	
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	67		34	115		
S2 - Tetrachloro-m-xylene	154 Q		31	96		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000062

656 594

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-16**
Field ID : **DF/24-A/1052/R16/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	58		34	115		
S2 - Tetrachloro-m-xylene	152 Q		31	96		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000063

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-17**Field ID : **DF/24-A/1052/R17/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
Surrogate Standard	% Recovery		QC Limits			
S1 - Decachlorobiphenyl	71		34	115		
S2 - Tetrachloro-m-xylene	160 Q		31	96		


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000064

656 596

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-18**
Field ID : **DF/24-A/1052/R18/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	66		34	115		
S2 - Tetrachloro-m-xylene	152 Q		31	96		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000065

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-19**Field ID : **DF/24-A/1052/R19/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Pesticides				02/25/01	RG	8081A
QC Batch	P08020				02/23/01	3510C
Dilution Factor	10					
Gamma-BHC (Lindane)	ND	mg/L	0.001			
Chlordane	ND	mg/L	0.010			
Endrin	ND	mg/L	0.001			
Heptachlor	ND	mg/L	0.001			
Methoxychlor	ND	mg/L	0.040			
Toxaphene	ND	mg/L	0.100			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - Decachlorobiphenyl	69		34	115		
S2 - Tetrachloro-m-xylene	162 Q		31	96		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000066

656 598

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-01**
Field ID : **DF/24-A/1052/R01/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085				02/22/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
SI - 2,4,5-T	89		20 150			



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000067

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-02**Field ID : **DF/24-A/1052/R02/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085				02/22/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
SI - 2,4,5-T	89		20	150		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000068

656 600

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-03**Matrix : **SOIL**Field ID : **DF/24-A/1052/R03/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG 8151A	8151A
QC Batch	P11085				02/22/01	
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - 2,4,5-T	75			20	150	



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000069

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID. **0102614-04**
Field ID : **DF/24-A/1052/R04/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085				02/22/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>			<u>QC Limits</u>		
SI - 2,4,5-T	85			20 150		

656 602

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397**
Summerville, SC 29485-0397

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-05**
Field ID : **DF/24-A/1052/R05/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085				02/22/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
SI - 2,4,5-T	80		20	150		


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000071

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-06**
Field ID : **DF/24-A/1052/R06/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG 8151A	8151A
QC Batch	P11085				02/22/01	
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>			<u>QC Limits</u>		
SI - 2,4,5-T	75			20 150		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000072

656 604

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-07**
Field ID : **DF/24-A/1052/R07/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085				02/22/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>			<u>QC Limits</u>		
S1 - 2,4,5-T	84			20 150		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000073

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-08**Field ID : **DF/24-A/1052/R08/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG 8151A	8151A
QC Batch	P11085				02/22/01	
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
SI - 2,4,5-T	81		20 150			



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000074

656 606

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-09**Matrix : **SOIL**Field ID : **DF/24-A/1052/R09/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085				02/22/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
SI - 2,4,5-T	86		20 150			



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000075

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-10**Field ID : **DF/24-A/1052/R10/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085					8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
SI - 2,4,5-T	67		20 150			

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000076

656 608

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-11**Matrix : **SOIL**Field ID : **DF/24-A/1052/R11/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085				02/22/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
Sl - 2,4,5-T	77		20	150		



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000077

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-12**Field ID : **DF/24-A/1052/R12/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG 8151A	8151A
QC Batch	P11085					
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
SI - 2,4,5-T	77		20 150			



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000078

656 610

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-13**
Field ID : **DF/24-A/1052/R13/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG 8151A	8151A
QC Batch	P11085				02/22/01	
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
SI - 2,4,5-T	76		20 150			


Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000079

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-14**Field ID : **DF/24-A/1052/R14/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085					8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>			<u>QC Limits</u>		
SI - 2,4,5-T	79			20 150		

000080


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

656 612

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-15**
Field ID : **DF/24-A/1052/R15/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085				02/22/01	8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - 2,4,5-T	90		20 150			



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000081

656 613

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-16**Field ID : **DF/24-A/1052/R16/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG 8151A	8151A
QC Batch	P11085				02/22/01	
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
Surrogate Standard	% Recovery		QC Limits			
SI - 2,4,5-T	87		20 150			



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000082

656 614

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field**P.O. Box 50397
Summerville, SC 29485-0397

FID #

Date Arrived **02/21/01**
ETC Order Number **0102614**ETC Lab ID **0102614-17**
Field ID : **DF/24-A/1052/R17/2**Matrix : **SOIL**
Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085					8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
SI - 2,4,5-T	88		20 150			



Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000083

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-18**Field ID : **DF/24-A/1052/R18/2**Matrix : **SOIL**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				02/21/01	TL 1311
TCLP Herbicides				02/24/01	RG 8151A	8151A
QC Batch	P11085				02/22/01	
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>		<u>QC Limits</u>			
S1 - 2,4,5-T	93		20	150		


 Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000084

656 616

ENVIRONMENTAL TESTING & CONSULTING, INC.

2924 Walnut Grove Road - Memphis, TN 38111 - (901)327-2750

Client Name **Innovative Waste Management**Site ID **UXB-Dunn Field****P.O. Box 50397
Summerville, SC 29485-0397**

FID #

Date Arrived **02/21/01**ETC Order Number **0102614**ETC Lab ID **0102614-19**Matrix : **SOIL**Field ID : **DF/24-A/1052/R19/2**Sample Date : **02/21/01**

TEST	RESULT	UNITS	DETECTION LIMIT	DATE ANALYZED	DATE EXTRACTED BY	METHOD
TCLP Extraction Organics	Leachate				TL	1311
TCLP Herbicides				02/24/01	RG	8151A
QC Batch	P11085					8151A
Dilution Factor	5					
2,4-D	ND	mg/L	0.010			
Silvex	ND	mg/L	0.010			
<u>Surrogate Standard</u>	<u>% Recovery</u>			<u>QC Limits</u>		
S1 - 2,4,5-T	87			20 150		

Data Validator

ND - Not Detected

Q - Recovery Outside QC Limits

000085

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
Inorganics**

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
INORGANICS – SOIL

Client Name Innovative Waste Management
Project Name UXB-Dunn Field

ETC Order # 0102-614

HOLDING TIMES

Sample Analysis All samples analyzed within Method Specified Holding Times.

METHOD

Preparation/Analysis: 7.3.3
1010
9045C
7.3.4

QUALITY CONTROL

QC Batch
RC022211
RC022311
G022211
G022311
H022311
H022311
RS022211
RS022311

Method Blank
No Target Analytes detected above Detection Limit.

Laboratory Control Sample
Spike Recovery All analytes within QC limits

Duplicates
RPD All analytes within QC limits

CALIBRATION

All acceptance criteria met.

SAMPLE ANALYSIS

Dilutions Required No dilutions required

CS
Project Manager

METHOD BLANK
INORGANICS

Lab Name: Environmental Testing and Consulting, Inc.

Analyte	QC Sample No.	QC Batch	Result	Detection Limit	Units	Date Analyzed	Method
Reactive Cyanide	RC0222111 BLK	RC022211	ND	0.125	mg/Kg	2/22/01	7.3.3
Reactive Cyanide	RC0223111 BLK	RC022311	ND	0.125	mg/Kg	2/23/01	7.3.3
Reactive Sulfide	RS0222111 BLK	RS022211	ND	25	mg/Kg	2/22/01	7.3.4
Reactive Sulfide	RS0223111 BLK	RS022311	ND	25	mg/Kg	2/23/01	7.3.4

NA - Not Applicable per Method

ND - Not Detected

Reviewed by. CS

INORG BLANK 0102-614.igg

000088

LABORATORY CONTROL SAMPLE
INORGANICS

Lab Name: Environmental Testing and Consulting, Inc.

Analyte	QC Sample No.	QC Batch	Spike Added	Found	Units	% Rec	#	QC Limits
Reactive Cyanide	RC0222111 LCS	RC022211	1000	229	mg/Kg	23	0	48
Reactive Cyanide	RC0223111 LCS	RC022311	1000	206	mg/Kg	21	0	48
Reactive Sulfide	RS0222111 LCS	RS022211	285	244	mg/Kg	86	14	128
Reactive Sulfide	RS0223111 LCS	RS022311	285	228	mg/Kg	80	14	128
Ignitability	IG0222111 LCS	IG022311	27	26	deg C	96	96	104
Ignitability	IG0223111 LCS	IG022311	27	27	deg C	100	96	104

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by: CS

INORG LCS 0102-614.iqc

000089

DUPLICATE
INORGANICS

Lab Name: Environmental Testing and Consulting, Inc.

Analyte	QC Sample No.	QC Batch	SAMPLE Result	DUP Result	Units	% RPD	#	QC Limits	Method
Ignitability	0102-614-10 DUP	IG022211	>96	>96	deg C	0		0 20	1010
Ignitability	0102-614-19 DUP	IG022311	>96	>96	deg C	0		0 20	1010

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by: CS

INORG DUP 0102-614.iqc

000090

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
Metals (ICP/GFAA/CV)**

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
METALS – SOIL

Client Name Innovative Waste Management
Project Name UXB-Dunn Field

ETC Order # 0102-614

HOLDING TIMES

QC Batch(s) for this order ICP Metals V13-SO-42
Sample Preparation/Analysis All samples digested/ analyzed within holding time.

METHOD

Preparation: SW-846 3051
Analysis: SW-846 6010B

CALIBRATION

Initial Calibration All criteria met.
Continuing Calibration All criteria met.

SAMPLE ANALYSIS

Instrumentation Thermo Jarrell Ash Enviro-I ICP
 Dilutions Required No dilutions required.

% Solids Adjustment Sample results were adjusted for % solids.

QUALITY CONTROL

0102-614.MQCBLANK

Method Blank

V13-SO-42BLK ICP Metals
No analytes detected in the Method Blank.

0102-614.MQCLCS

Laboratory Control Sample(s)

V13-SO-42LCS ICP Metals
All acceptance criteria met.

0000-000.MQCMSMSD

Matrix Spike / Matrix Spike Dup - ICP Metals

0102-614-19 RPD All analytes within QC limits.
DF/24-A/1052/R19/2 Spike Recovery All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

Dilution Test Dilution result must agree within 10% of original result when sample is
 diluted by a factor of 5.
Post Digestion Spike Recovery must be +/-25% of expected value for ICP.



Project Manager

PRELIMINARY DATA
Subject To Review

656 624

FORM 3A
SOLID METHOD BLANK
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID ICP/GFAA Metals

V13-SO-42 BLK

QC Batch
V13-SO-42

Date Sample Prepared

02/22/01 ICP/GFAA Metals

Metals	Concentration mg/Kg	Detection Limit mg/Kg	Date Analyzed	Method
Arsenic	ND	0.500	02/23/01	6010B

ND - Not Detected

Reviewed by CS

0102-614.mqc BLANK

000093

FORM 7
SOLID LABORATORY CONTROL SAMPLE
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory Control ID

ICP/GFAA Metals V13-SO-42 LCS

QC Batch

V13-SO-42

Date Prepared

ICP/GFAA Metals 02/22/01

Metals	Spike Added mg/Kg	Found mg/Kg	% R	#	QC Limits	
Arsenic	8.00	8.02	100		80	120

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by ES

0102-614.mqc LCS

000094

FORM 6
SOLID MATRIX SPIKE / MATRIX SPIKE DUPLICATE
METALS

Lab Name: Environmental Testing and Consulting, Inc

Laboratory ID MS ICP/GFAA Metals 0102-614-19 QC Batch V13-SO-42

Date Sample Prepared 02/22/01 ICP/GFAA Metals

Metals	SPIKE Added mg/Kg	SAMPLE Conc mg/Kg	MS Conc mg/Kg	RPD < 20% #	MS % Rec #	QC Limits	
Arsenic	7.27	5.96	12.4	1	89	75	125

Metals	SPIKE Added mg/Kg	SAMPLE Conc mg/Kg	MSD Conc mg/Kg		MSD % Rec #	QC Limits	
Arsenic	7.69	5.96	12.5		85	75	125

ND - Not Detected

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Reviewed by CJ

0102-614.mqc MSMSD
000095

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
GC Pesticides**

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
PESTICIDE - TCLP

Client Name Innovative Waste Management
Project Name UXB-Dunn Field

ETC Order # 0102-614

HOLDING TIMES

TCLP Extraction	All samples extracted within 14 days.
Sample Extraction	All TCLP leachate/filtrates extracted within 7 days.
Sample Analysis	All Non-VOC extracts analyzed within 40 days.

METHOD

Preparation: SW-846 1311/3510C
Analysis: SW-846 8081A

QUALITY CONTROL

<u>QC Batch</u>	<u>Form 4 Summary</u>
P08020	P08020LB

System Monitoring Compounds FORM 2

Surrogate recoveries within QC limits, except as listed below.

Surrogate Tetrachloro-m-xylene was diluted out of analytical range in the following samples listed below. Surrogate Decachlorobiphenyl was within control limits for all samples associated with this project.

P08020LB2	P08020LB3
0102-614-01 (DF/24-A-1052/R01/2)	0102-614-10 MS/MSD (DF/24-A/1052/R10/2)
0102-614-02 (DF/24-A-1052/R02/2)	0102-614-11 (DF/24-A/1052/R11/2)
0102-614-03 (DF/24-A-1052/R03/2)	0102-614-12 (DF/24-A/1052/R12/2)
0102-614-04 (DF/24-A-1052/R04/2)	0102-614-13 (DF/24-A/1052/R13/2)
0102-614-05 (DF/24-A-1052/R05/2)	0102-614-14 (DF/24-A/1052/R14/2)
0102-614-06 (DF/24-A-1052/R06/2)	0102-614-15 (DF/24-A/1052/R15/2)
0102-614-07 (DF/24-A-1052/R07/2)	0102-614-16 (DF/24-A/1052/R16/2)
0102-614-08 (DF/24-A-1052/R08/2)	0102-614-17 (DF/24-A/1052/R17/2)
0102-614-09 (DF/24-A-1052/R09/2)	0102-614-18 (DF/24-A/1052/R18/2)
0102-614-10 (DF/24-A-1052/R10/2)	0102-614-19 (DF/24-A/1052/R19/2)

Method Blank FORM 4

P08020LB
P08020LB2
P08020LB3

Target analytes were not detected in the Method Blanks.

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
PESTICIDE - TCLP

Client Name Innovative Waste Management
Project Name UXB-Dunn Field
ETC Order # 0102-614

QUALITY CONTROL

Laboratory Control Sample FORM 3
P08020LCS

All acceptance criteria met, except as listed below.

Gamma-BHC was flagged for slightly high recovery in the LCS. This analyte was not detected in the associated project samples.

Matrix Spike/Matrix Spike Dup FORM 3

Batch P08020

0102-614-10	RPD	All analytes within QC limits.
DF/24-A/1052/R10/2	Spike Recovery	All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

CALIBRATION

Initial Calibration	All criteria met. FORM 6
Calibration Verification	All criteria met. FORM 7, except as listed below.

Calibration Verification (CV): Date 02/25/01 Time: 1547

<u>Analyte</u>	<u>%Diff(15% Max)</u>	<u>Response</u>
Endrin	-15.5	Low
Tetrachloro-m-xylene	+29.0	High (Surrogate)

Samples affected by this CV include P08020LB, P08020LB2, P08020LB3, P08020LCS, 0102-614-10MS/MSD, 0102-614-01 through 0102-614-18. High response indicates that reported levels for this surrogate may be biased high. High response may account for the high surrogate recoveries. Low response indicates that reported levels for this analyte may be biased low. This analyte was not identified in associated project samples. LCS recovery for this analyte was within control limits. Average response of all analytes was less than 15% and CV is considered acceptable per SW-846.

Calibration Verification (CV): Date 02/25/01 Time: 1756

<u>Analyte</u>	<u>%Diff(15% Max)</u>	<u>Response</u>
Gamma-chlordane	-15.5	Low
Endrin	-39.0	Low

656 630

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
PESTICIDE - TCLP

Client Name Innovative Waste Management
Project Name UXB-Dunn Field

ETC Order # 0102-614

CALIBRATION

Samples affected by this CV include 0102-614-01 through 0102-614-19. Low response indicates that reported levels for these analytes may be biased low. These analytes were not identified in associated project samples. Average response of all analytes was less than 15% and CV is considered to be acceptable per SW-846

SAMPLE ANALYSIS

Instrumentation HP 5890 Series II GC
Dilutions Required Dilutions were performed on all sample to decrease matrix interferences as shown on the Sample Report Forms.

CS

Project Manager

000099

FORM 2
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

	CLIENT SAMPLE NO.	S1 (DCB) #	S2 (TCX) #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	P08020LB	83	84							0
02	P08020LB2	63	160D							1
03	P08020LB3	83	162D							1
04	P08020LCS	86	78							0
05	0102-614-10M	74	162D							1
06	0102-614-10M	62	159D							1
07	0102-614-1	66	166D							1
08	0102-614-2	58	158D							1
09	0102-614-3	71	166D							1
10	0102-614-4	56	151D							1
11	0102-614-5	68	164D							1
12	0102-614-6	59	156D							1
13	0102-614-7	72	164D							1
14	0102-614-8	62	155D							1
15	0102-614-9	68	164D							1
16	0102-614-11	66	154D							1
17	0102-614-12	71	162D							1
18	0102-614-13	62	161D							1
19	0102-614-14	65	148D							1
20	0102-614-15	67	154D							1
21	0102-614-16	58	152D							1
22	0102-614-17	71	160D							1
23	0102-614-18	66	152D							1
24	0102-614-10	70	169D							1
25	0102-614-19	69	162D							1
26										
27										
28										
29										
30										

QC LIMITS

S1 (DCB) = Decachlorobiphenyl (34-115)

S2 (TCX) = Tetrachloro-m-xylene (31- 96)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

P08020LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Lab File ID: P302251A-15R

Lab Prep Batch: P08020

Instrument ID: PEST3A

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/25/01

Level: (low/med) LOW

Time Analyzed: 1457

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	P08020LCS	1514	P302251A-18R	02/25/01
02	0102-614-10M	1519	P302251A-19R	02/25/01
03	0102-614-10M	1525	P302251A-20R	02/25/01
04	0102-614-1	1558	P302251A-26R	02/25/01
05	0102-614-2	1604	P302251A-27R	02/25/01
06	0102-614-3	1610	P302251A-28R	02/25/01
07	0102-614-4	1615	P302251A-29R	02/25/01
08	0102-614-5	1621	P302251A-30R	02/25/01
09	0102-614-6	1626	P302251A-31R	02/25/01
10	0102-614-7	1632	P302251A-32R	02/25/01
11	0102-614-8	1638	P302251A-33R	02/25/01
12	0102-614-9	1643	P302251A-34R	02/25/01
13	0102-614-11	1649	P302251A-35R	02/25/01
14	0102-614-12	1655	P302251A-36R	02/25/01
15	0102-614-13	1700	P302251A-37R	02/25/01
16	0102-614-14	1706	P302251A-38R	02/25/01
17	0102-614-15	1711	P302251A-39R	02/25/01
18	0102-614-16	1717	P302251A-40R	02/25/01
19	0102-614-17	1723	P302251A-41R	02/25/01
20	0102-614-18	1728	P302251A-42R	02/25/01
21	0102-614-10	1734	P302251A-43R	02/25/01
22	0102-614-19	1739	P302251A-44R	02/25/01
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

Lab Name: ETC, INC.

Contract:

P08020LB2

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Lab File ID: P302251A-16R

Lab Prep Batch: P08020

Instrument ID: PEST3A

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/25/01

Level: (low/med) LOW

Time Analyzed: 1502

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	P08020LCS	1514	P302251A-18R	02/25/01
02	0102-614-10M	1519	P302251A-19R	02/25/01
03	0102-614-10M	1525	P302251A-20R	02/25/01
04	0102-614-1	1558	P302251A-26R	02/25/01
05	0102-614-2	1604	P302251A-27R	02/25/01
06	0102-614-3	1610	P302251A-28R	02/25/01
07	0102-614-4	1615	P302251A-29R	02/25/01
08	0102-614-5	1621	P302251A-30R	02/25/01
09	0102-614-6	1626	P302251A-31R	02/25/01
10	0102-614-7	1632	P302251A-32R	02/25/01
11	0102-614-8	1638	P302251A-33R	02/25/01
12	0102-614-9	1643	P302251A-34R	02/25/01
13	0102-614-11	1649	P302251A-35R	02/25/01
14	0102-614-12	1655	P302251A-36R	02/25/01
15	0102-614-13	1700	P302251A-37R	02/25/01
16	0102-614-14	1706	P302251A-38R	02/25/01
17	0102-614-15	1711	P302251A-39R	02/25/01
18	0102-614-16	1717	P302251A-40R	02/25/01
19	0102-614-17	1723	P302251A-41R	02/25/01
20	0102-614-18	1728	P302251A-42R	02/25/01
21	0102-614-10	1734	P302251A-43R	02/25/01
22	0102-614-19	1739	P302251A-44R	02/25/01
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

P08020LB3

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Lab File ID: P302251A-17R

Lab Prep Batch: P08020

Instrument ID: PEST3A

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/25/01

Level: (low/med) LOW

Time Analyzed: 1508

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	P08020LCS	1514	P302251A-18R	02/25/01
02	0102-614-10M	1519	P302251A-19R	02/25/01
03	0102-614-10M	1525	P302251A-20R	02/25/01
04	0102-614-1	1558	P302251A-26R	02/25/01
05	0102-614-2	1604	P302251A-27R	02/25/01
06	0102-614-3	1610	P302251A-28R	02/25/01
07	0102-614-4	1615	P302251A-29R	02/25/01
08	0102-614-5	1621	P302251A-30R	02/25/01
09	0102-614-6	1626	P302251A-31R	02/25/01
10	0102-614-7	1632	P302251A-32R	02/25/01
11	0102-614-8	1638	P302251A-33R	02/25/01
12	0102-614-9	1643	P302251A-34R	02/25/01
13	0102-614-11	1649	P302251A-35R	02/25/01
14	0102-614-12	1655	P302251A-36R	02/25/01
15	0102-614-13	1700	P302251A-37R	02/25/01
16	0102-614-14	1706	P302251A-38R	02/25/01
17	0102-614-15	1711	P302251A-39R	02/25/01
18	0102-614-16	1717	P302251A-40R	02/25/01
19	0102-614-17	1723	P302251A-41R	02/25/01
20	0102-614-18	1728	P302251A-42R	02/25/01
21	0102-614-10	1734	P302251A-43R	02/25/01
22	0102-614-19	1739	P302251A-44R	02/25/01
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P08020LB

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Matrix: (soil/water) WATER

Lab Prep Batch: P08020

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: P302251A-15R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted:

Concentrated Extract Volume: 10 (mL)

Date Analyzed: 02/25/01

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
			Q
309-00-2	Aldrin	0.0400	U
319-84-6	alpha-BHC	0.0400	U
319-85-7	beta-BHC	0.0400	U
319-86-8	delta-BHC	0.0400	U
58-89-9	gamma-BHC (Lindane)	0.0400	U
5103-71-9	alpha-chlordane	0.0400	U
5103-74-2	gamma-chlordane	0.0400	U
57-74-9	Chlordane	0.250	U
2921-88-2	Chlorpyrifos	0.0400	U
72-54-8	4,4'-DDD	0.0400	U
72-55-9	4,4'-DDE/endosulfan I	0.0400	U
50-29-3	4,4'-DDT	0.0400	U
60-57-1	Dieldrin	0.0400	U
33213-65-9	Endosulfan II	0.0400	U
1031-07-8	Endosulfan sulfate	0.0400	U
72-20-8	Endrin	0.0400	U
7421-93-4	Endrin aldehyde	0.0400	U
53494-70-5	Endrin ketone	0.0400	U
76-44-8	Heptachlor	0.0400	U
1024-57-3	Heptachlor epoxide	0.0400	U
72-43-5	Methoxychlor	0.0400	U
8001-35-2	Toxaphene	2.50	U

FORM I PESTICIDE

000104

656 636

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P08020LB2

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Matrix: (soil/water) WATER

Lab Prep Batch: P08020

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: P302251A-16R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted: _____

Concentrated Extract Volume: 10 (mL)

Date Analyzed: 02/25/01

Injection Volume: 1.0 (uL)

Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

309-00-2-----	Aldrin	1.60	U
319-84-6-----	alpha-BHC	1.60	U
319-85-7-----	beta-BHC	1.60	U
319-86-8-----	delta-BHC	1.60	U
58-89-9-----	gamma-BHC (Lindane)	1.60	U
5103-71-9-----	alpha-chlordane	1.60	U
5103-74-2-----	gamma-chlordane	1.60	U
57-74-9-----	Chlordane	10.00	U
2921-88-2-----	Chlorpyrifos	1.60	U
72-54-8-----	4,4'-DDD	1.60	U
72-55-9-----	4,4'-DDE/endosulfan I	1.60	U
50-29-3-----	4,4'-DDT	1.60	U
60-57-1-----	Dieldrin	1.60	U
33213-65-9-----	Endosulfan II	1.60	U
1031-07-8-----	Endosulfan sulfate	1.60	U
72-20-8-----	Endrin	1.60	U
7421-93-4-----	Endrin aldehyde	1.60	U
53494-70-5-----	Endrin ketone	1.60	U
76-44-8-----	Heptachlor	1.60	U
1024-57-3-----	Heptachlor epoxide	1.60	U
72-43-5-----	Methoxychlor	1.60	U
8001-35-2-----	Toxaphene	100.0	U

FORM I PESTICIDE

000105

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

P08020LB3

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Matrix: (soil/water) WATER

Lab Prep Batch: P08020

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: P302251A-17R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted: _____

Concentrated Extract Volume: 10 (mL)

Date Analyzed: 02/25/01

Injection Volume: 1.0 (uL)

Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2-----	Aldrin	1.60	U
319-84-6-----	alpha-BHC	1.60	U
319-85-7-----	beta-BHC	1.60	U
319-86-8-----	delta-BHC	1.60	U
58-89-9-----	gamma-BHC (Lindane)	1.60	U
5103-71-9-----	alpha-chlordane	1.60	U
5103-74-2-----	gamma-chlordane	1.60	U
57-74-9-----	Chlordane	10.00	U
2921-88-2-----	Chlorpyrifos	1.60	U
72-54-8-----	4,4'-DDD	1.60	U
72-55-9-----	4,4'-DDE/endosulfan I	1.60	U
50-29-3-----	4,4'-DDT	1.60	U
60-57-1-----	Dieldrin	1.60	U
33213-65-9-----	Endosulfan II	1.60	U
1031-07-8-----	Endosulfan sulfate	1.60	U
72-20-8-----	Endrin	1.60	U
7421-93-4-----	Endrin aldehyde	1.60	U
53494-70-5-----	Endrin ketone	1.60	U
76-44-8-----	Heptachlor	1.60	U
1024-57-3-----	Heptachlor epoxide	1.60	U
72-43-5-----	Methoxychlor	1.60	U
8001-35-2-----	Toxaphene	100.0	U

FORM I PESTICIDE

000106

FORM 3
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P08020

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Matrix Spike - Sample No.: P08020LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	1.00		1.09	109*	41-102
Endrin	1.00		1.06	106	45-117
Heptachlor	1.00		0.951	95	43-114
Methoxychlor	1.00		1.30	130	39-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 4 outside limits

COMMENTS: _____

FORM III PESTICIDE

000107

FORM 3
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: P08020

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Matrix Spike - Sample No.: 0102-614-10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	4.00	0.000	2.53	63	41-102
Endrin	4.00	0.000	2.98	74	45-117
Heptachlor	4.00	0.000	2.51	63	43-114
Methoxychlor	4.00	0.000	3.65	91	39-140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
gamma-BHC (Lindane)	4.00	2.45	61	3	20	41-102
Endrin	4.00	2.65	66	11	20	45-117
Heptachlor	4.00	2.39	60	5	20	43-114
Methoxychlor	4.00	3.07	77	17	20	39-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 4 outside limits

Spike Recovery: 0 out of 8 outside limits

COMMENTS:

FORM III PESTICIDE

000108

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level III
GC Herbicides**

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
HERBICIDE - TCLP

Client Name Innovative Waste Management
Project Name UXB-Dunn Field
ETC Order # 0102-614

HOLDING TIMES

TCLP Extraction	All samples extracted within 14 days.
Sample Extraction	All TCLP leachate/filtrates extracted within 7 days.
Sample Analysis	All Non-VOC extracts analyzed within 40 days.

METHOD

Preparation: SW-846 1311
Analysis: SW-846 8151A

QUALITY CONTROL

<u>QC Batch</u>	<u>Form 4 Summary</u>
P11085	P11085LB

System Monitoring Compounds FORM 2
Surrogate recoveries within QC limits.

Method Blank FORM 4
P11085LB
BLANK F1 2/21

Target analytes were not detected in the Method Blanks.

Laboratory Control Sample FORM 3
P11085LCS

All acceptance criteria met.

Matrix Spike / Matrix Spike Dup FORM 3
Batch P11085

0102-614-10	RPD	All analytes within QC limits.
DF/24-A/1052/R10/2	Spike Recovery	All analytes within QC limits.

Refer to Laboratory Control Sample(s) for system verification.

CALIBRATION

Initial Calibration	All criteria met. FORM 6
Calibration Verification	All criteria met. FORM 7

ENVIRONMENTAL TESTING AND CONSULTING, INC.
CASE NARRATIVE
HERBICIDE - TCLP

Client Name Innovative Waste Management
Project Name UXB-Dunn Field

ETC Order # 0102-614

SAMPLE ANALYSIS

Instrumentation HP 5890 Series II GC
Dilutions Required Dilutions were performed on all samples to decrease matrix interferences as shown on the Sample Report Forms.

CS
Project Manager

FORM 2
WATER HERBICIDE SURROGATE RECOVERY

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

	EPA GC SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	P11085LB	98								0
02	BLANK F1 2/2	87								0
03	P11085LCS	87								0
04	0102-614-10M	102								0
05	0102-614-10M	100								0
06	0102-614-1	89								0
07	0102-614-2	89								0
08	0102-614-3	75								0
09	0102-614-4	85								0
10	0102-614-5	80								0
11	0102-614-6	75								0
12	0102-614-7	84								0
13	0102-614-8	81								0
14	0102-614-9	86								0
15	0102-614-10	67								0
16	0102-614-11	77								0
17	0102-614-12	77								0
18	0102-614-13	76								0
19	0102-614-14	79								0
20	0102-614-15	90								0
21	0102-614-16	87								0
22	0102-614-17	88								0
23	0102-614-18	93								0
24	0102-614-19	87								0
25										
26										
27										
28										
29										
30										

S1 = 2,4,5-T

QC LIMITS
(20-150)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

FORM 4
HERBICIDE METHOD BLANK SUMMARY

EPA GC SAMPLE NO.

BLANK F1 2/21

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Lab File ID: H202231A-14R

Lab Prep Batch: P11085

Instrument ID: PEST2A

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/23/01

Level: (low/med) LOW

Time Analyzed: 1955

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA GC SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	P11085LCS	2020	H202231A-15R	02/23/01
02	0102-614-10M	2200	H202231A-19R	02/23/01
03	0102-614-10M	2225	H202231A-20R	02/23/01
04	0102-614-1	0031	H202231A-25R	02/24/01
05	0102-614-2	0056	H202231A-26R	02/24/01
06	0102-614-3	0121	H202231A-27R	02/24/01
07	0102-614-4	0146	H202231A-28R	02/24/01
08	0102-614-5	0211	H202231A-29R	02/24/01
09	0102-614-6	0236	H202231A-30R	02/24/01
10	0102-614-7	0301	H202231A-31R	02/24/01
11	0102-614-8	0327	H202231A-32R	02/24/01
12	0102-614-9	0352	H202231A-33R	02/24/01
13	0102-614-10	0417	H202231A-34R	02/24/01
14	0102-614-11	0442	H202231A-35R	02/24/01
15	0102-614-12	0507	H202231A-36R	02/24/01
16	0102-614-13	0532	H202231A-37R	02/24/01
17	0102-614-14	0557	H202231A-38R	02/24/01
18	0102-614-15	0623	H202231A-39R	02/24/01
19	0102-614-16	0648	H202231A-40R	02/24/01
20	0102-614-17	0713	H202231A-41R	02/24/01
21	0102-614-18	0738	H202231A-42R	02/24/01
22	0102-614-19	0803	H202231A-43R	02/24/01
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 4
HERBICIDE METHOD BLANK SUMMARY

EPA GC SAMPLE NO.

Lab Name: ETC, INC.

Contract:

P11085LB

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Lab File ID: H202231A-12R

Lab Prep Batch: P11085

Instrument ID: PEST2A

Date Extracted:

Matrix: (soil/water) WATER

Date Analyzed: 02/23/01

Level: (low/med) LOW

Time Analyzed: 1904

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA GC SAMPLE NO.	TIME ANALYZED	LAB FILE ID	DATE ANALYZED
01	P11085LCS	2020	H202231A-15R	02/23/01
02	0102-614-10M	2200	H202231A-19R	02/23/01
03	0102-614-10M	2225	H202231A-20R	02/23/01
04	0102-614-1	0031	H202231A-25R	02/24/01
05	0102-614-2	0056	H202231A-26R	02/24/01
06	0102-614-3	0121	H202231A-27R	02/24/01
07	0102-614-4	0146	H202231A-28R	02/24/01
08	0102-614-5	0211	H202231A-29R	02/24/01
09	0102-614-6	0236	H202231A-30R	02/24/01
10	0102-614-7	0301	H202231A-31R	02/24/01
11	0102-614-8	0327	H202231A-32R	02/24/01
12	0102-614-9	0352	H202231A-33R	02/24/01
13	0102-614-10	0417	H202231A-34R	02/24/01
14	0102-614-11	0442	H202231A-35R	02/24/01
15	0102-614-12	0507	H202231A-36R	02/24/01
16	0102-614-13	0532	H202231A-37R	02/24/01
17	0102-614-14	0557	H202231A-38R	02/24/01
18	0102-614-15	0623	H202231A-39R	02/24/01
19	0102-614-16	0648	H202231A-40R	02/24/01
20	0102-614-17	0713	H202231A-41R	02/24/01
21	0102-614-18	0738	H202231A-42R	02/24/01
22	0102-614-19	0803	H202231A-43R	02/24/01
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA GC SAMPLE NO.

BLANK F1 2/21

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Matrix: (soil/water) WATER

Lab Prep Batch: P11085

Sample wt/vol: 250.0 (g/mL) ML

Lab File ID: H202231A-14R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted:

Concentrated Extract Volume: 5 (mL)

Date Analyzed: 02/23/01

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
94-75-7-----	2,4-D	1.00	U
93-72-1-----	Silvex	0.100	U

FORM I HERBICIDE

000115

FORM 1
HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA GC SAMPLE NO.

Lab Name: ETC, INC.

Contract:

P11085LB

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Matrix: (soil/water) WATER

Lab Prep Batch: P11085

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: H202231A-12R

Level: (low/med) LOW

Date Received: _____

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

Date Extracted: _____

Concentrated Extract Volume: 5 (mL)

Date Analyzed: 02/23/01

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

94-75-7-----2,4-D	0.0500	U
93-72-1-----Silvex	0.00500	U

FORM I HERBICIDE

000116

656 648

FORM 3
WATER HERBICIDE LAB CONTROL SAMPLE

Lab Name: ETC, INC.

Lab Prep Batch: P11085

Lab Code: .

Case No.:

SAS No.:

SDG No.: 0102-614

Matrix Spike - Sample No.: P11085LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
2,4-D	5.00		4.07	81	20-150
Silvex	5.00		3.45	69	20-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III HERBICIDE

000117

FORM 3
WATER HERBICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC, INC.

Lab Prep Batch: P11085

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Matrix Spike - Sample No.: 0102-614-10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
2,4-D	20.00	0.000	19.18	96	20-150
Silvex	20.00	0.000	16.31	82	20-150

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	LIMITS REC.
=====	=====	=====	=====	=====	=====	=====
2,4-D	20.00	18.99	95	1	20	20-150
Silvex	20.00	16.29	81	1	20	20-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III HERBICIDE

000118

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
Inorganics**

Environmental Testing and Consulting, Inc
Reactivity

RC022211

Pg#

RS022211

Analyst Date Time	ETC Sample ID	Samp Size	S- Abs	CNR Abs	S- ppm	CNR ppm	Observations
TL	Sulfide LCS	10 mL	21.0/14.9	—	244	—	86 %Rec
2-22-01	Cyanide LCS	10 mL	—	1.100 0.317	—	229	23 %Rec
1:02	BLANK	100 mL	11.0/11.0	0.000	<25	<0.125	
	HAZAR WASTE 0102-614-01	10.4	—	0.000	—	<0.125	
	01	10.2	11.0/11.0	—	<25	—	
	02	10.1	—	0.000	—	<0.125	
	02	10.1	11.0/10.5	—	<25	—	
	03	10.4	—	0.000	—	<0.125	
	03	10.3	11.0/10.6	—	<25	—	
	04	10.2	—	0.000	—	<0.125	
	04	10.0	11.0/10.8	—	<25	—	
	05	10.1	—	0.000	—	<0.125	
	05	10.2	11.0/10.6	—	<25	—	
	06	10.2	—	0.000	—	<0.125	
	06	10.3	11.0/10.5	—	<25	—	

S- LCS Concentration: 285 mg/LS- LCS SRN: W-5-90-2CN- LCS Concentration: 1000 mg/LCN- LCS SRN: W-5-77-23

Reac CN % REC

UCL: 48

LCL: 0

Reac S- % REC

UCL: 128

LCL: 14

Method Detection Limit = 0.125 mg/L Reactive Cyanide
 Method Detection Limit = 25 mg/L Reactive Sulfide

NOTES:

Analyst (Date/Sign): TL/gc 2/23/01Supervisor (Date/Sign): gc 2/23/01

QAO: _____

SLOP\reac.wks

656 652

Environmental Testing and Consulting, Inc
ReactivityRC02231/
RS02231/

Pg# _____

Analyst Date Time	ETC Sample ID	Samp Size	S- Abs	CNR Abs	S- ppm	CNR ppm	Observations
TL	Sulfide LCS	10 ml	21.0/ 15.3	—	228	—	80 %Rec
2-23-01	Cyanide LCS	10 ml	—	1:100 0.285	—	206	21 %Rec
6:00	BLANK	100 ml	11.0/ 11.0	0.000	<25	<0.125	
	INDV WASTE 0102-614-07	10.3	—	0.000	—	<0.125	
	07	10.4	11.0/ 10.45	—	<25	—	
	08	10.4	—	0.000	—	<0.125	
	08	10.4	11.0/ 10.7	—	<25	—	
	09	10.4	—	0.000	—	<0.125	
	09	10.4	11.0/ 9.70	—	49.3	—	
	10	10.5	—	0.000	—	<0.125	
	10	10.4	11.0/ 10.4	—	<25	—	
	11	10.3	—	0.000	—	<0.125	
	11	10.4	11.0/ 10.5	—	<25	—	

S- LCS Concentration: 285 mg/LS- LCS SRN: W-5-90-2CN- LCS Concentration: 1000 mg/LCN- LCS SRN: W-5-77-23

Reac CN % REC

UCL: 48

LCL: 0

Reac S- % REC

UCL: 128

LCL: 14

Method Detection Limit = 0.125 mg/L Reactive Cyanide
Method Detection Limit = 25 mg/L Reactive Sulfide

NOTES: _____

Analyst (Date/Sign): TL/gd 2/23/01Supervisor (Date/Sign): gdt 2/23/01

QAO: _____

SLOP\reac.wks

000121

Environmental Testing and Consulting, Inc
ReactivityRC022311 (cont.)
RS022311 (cont.)

Pg# _____

Analyst Date Time	ETC Sample ID	Samp Size	S- Abs	CNR Abs	S- ppm	CNR ppm	Observations
TL	Sulfide LCS						%Rec
2-23-01	Cyanide LCS	See Previous Pg					%Rec
11.0	BLANK						
	INDUSTRIAL WASTE 0102-614-12	10.2	-	0.000	-	<0.125	
	12	10.4	11.0/10.4	-	<25	-	
	13	10.3	-	0.000	-	<0.125	
	13	10.2	11.0/10.6	-	<25	-	
	14	10.4	-	0.000	-	<0.125	
	14	10.1	11.0/10.5	-	<25	-	
	15	10.2	-	0.000	-	<0.125	
	15	10.6	11.0/10.45	-	<25	-	
	16	10.3	-	0.000	-	<0.125	
	16	10.2	11.0/10.25	-	29.9	-	

S- LCS Concentration: _____ mg/L

S- LCS SRN: _____

CN- LCS Concentration: _____ mg/L

CN- LCS SRN: _____

Reac CN % REC

UCL: 48

LCL: 0

Reac S- % REC

UCL: 128

LCL: 14

Method Detection Limit = 0.125 mg/L Reactive Cyanide
Method Detection Limit = 25 mg/L Reactive Sulfide

NOTES: _____

Analyst (Date/Sign): TL/98 2/23/01

Supervisor (Date/Sign): JAD 2/23/01

QAO: _____

SLOP\reac.wks

RC022311 (cont.)

RS0223// (cont.)

Pg#

Analyst Date Time	ETC Sample ID	Samp Size	S-Abs	CNR Abs	S-ppm	CNR ppm	Observations
TV	Sulfide LCS						%Rec
2.23.01	Cyanide LCS						%Rec
1100D	BLANK						
	D102-614-17	10.1	-	0.000	-	<0.125	
	17	10.3	11.0/ 10.3	-	26.5	-	
	18	10.2	-	0.000	-	<0.125	
	18	10.2	11.0/ 10.5	-	<25	-	
	19	10.2	-	0.000	-	<0.125	
	✓ 19	10.3	11.0/ 10.45	-	<25	-	

S- LCS Concentration: _____ mg/L

S- LCS SRN: _____

CN- LCS Concentration: _____ mg/L

CN- LCS SRN: _____

Reac CN % REC

UCL: 48

LCL: 0

Reac S- % REC

UCL: 128

LCL: 14

Method Detection Limit = 0.125 mg/L Reactive Cyanide
Method Detection Limit = 25 mg/L Reactive Sulfide

NOTES: _____

Analyst (Date/Sign) : TZ/gf 2/23/01

Supervisor (Date/Sign): 7/23/01

QAO: _____

SLOP\reac.wks

000123

CN⁺

1/17/01

SPEC 20

578 nm gD

CY-10-011701

std	abs
0.000	0.000
0.010	0.014, 0.016
0.020	0.029, 0.033
0.040	0.057, 0.063
0.100	0.136, 0.143
0.200	0.276, 0.280
0.400	0.548, 0.551

46 1320

ABS

0.600

0.500

0.400

0.300

0.200

0.100

0.100

0.200

0.300

0.400

mg/L

r = 0.9999

abs = 1.0038
1.2370K&E
10 X 10 TO 1/4 INCH 7 X 10 TIDRES
KEUFFEL & ESSER CO. MADE IN U.S.A.

000124

Environmental Testing and Consulting, Inc.
Ignitability

Batch: IG022211Analyst: gDDate: 2/22/01Time: 0750Page 1 of 1

ETC Sample ID	Result 1 oC	Result 2 oC	Average Result oC	QC Data	Observations
p-Xylene Std ¹	26		26		
0102-614-01	>96		>96		
02	>96		>96		
03	>96		>96		
04	>96		>96		
05	>96		>96		
06	>96		>96		
07	>96		>96		
08	>96		>96		
09	>96		>96		
✓ 10	>96		>96		
0102-614-10 Duplicate	>96		>96		

1: p-Xylene Standard Ignition Point = 27oC

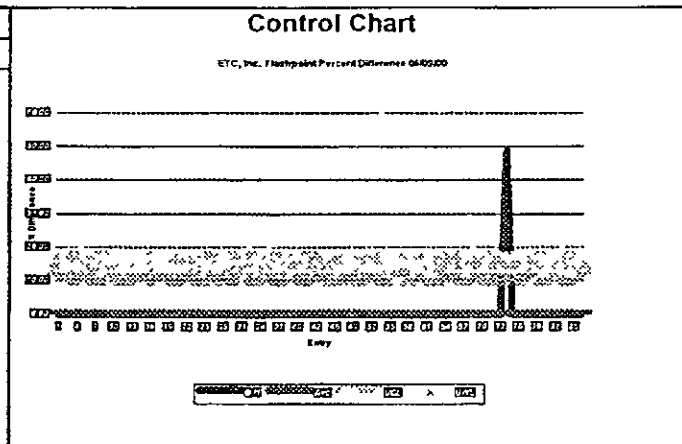
Acceptance Range = +/- 1oC.

If any samples ignite at >90oC then acceptable range = +/- 0.5oC.

Standards Verification
p-Xylene SRN.

QC Limits	
UCL:	15
UWL:	9.79
AVE:	0.45

Notes:

**Data Validation**Analyst: gD 2/22/01Supervisor: gD 2/22/01

QAO: _____

Environmental Testing and Consulting, Inc.
Ignitability

Batch: IG022311Analyst: gDDate: 2/23/01Time: 0815Page 1 of 1

ETC Sample ID	Result 1 oC	Result 2 oC	Average Result oC	QC Data	Observations
p-Xylene Std ¹	27		27		
0102-1014-11	>96		>96		
12	>96		>96		
13	>96		>96		
14	>96		>96		
15	>96		>96		
16	>96		>96		
17	>96		>96		
18	>96		>96		
↓ 19	>96		>96		
0102-460-01	>96		>96		
0102-614-19 Duplicate	>96		>96		

1: p-Xylene Standard Ignition Point = 27oC

Acceptance Range = +/- 1oC.

If any samples ignite at >90oC then acceptable range = +/- 0.5oC.

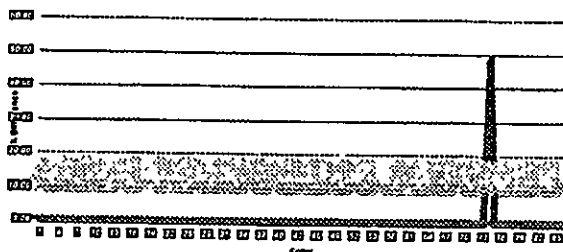
Standards Verificationp-Xylene SRN 18-S-15**QC Limits**

UCL:	15
UWL:	9.79
AVE:	0.45

Notes:

Control Chart

ETC Inc. Plotting Percent Difference = 0.50000

**Data Validation**Analyst: gD 2/23/01Supervisor: gD 2/23/01

QAO: _____

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
Metals (ICP/GFAA/CV)**

Supervisor: JF

8326

- Initial Calibration Blank (STD1-Blank)
- Initial Calibration Standard 1 (C1) 3 Exposures at less than 3% RSD
- Initial Calibration Standard 2 (C2) 3 Exposures at less than 3% RSD
- Initial Calibration Standard 3 (C3) 3 Exposures at less than 3% RSD
- Initial Calibration Standard 4 (C4) 3 Exposures at less than 3% RSD
- Standardization Report

Failures

a. Initial Calibration Standard 1 (C1)	_____	✓	_____
b. Initial Calibration Standard 2 (C2)	_____	✓	_____
c. Initial Calibration Standard 3 (C3)	_____	✓	_____
d. Initial Calibration Standard 4 (C4)	_____	✓	_____

e	Initial Calibration Blank (ICB) – All elements below MDL/MQL _____	☒	_____
f	Initial Calibration Verification (ICV1) – (5%) _____	☒	_____
g	Low Level Check (LLC1) – (20%) _____	☒	_____
h	Low Level Check (LLC2) – (20%) _____	☐	_____
i	Interelement Correction Standard – Initial (ICSAB) – (20%) _____	☒	_____
j	Interelement Correction Standard – Final (ICSAB) – (20%) _____	☒	_____

Applicable ETC Order Nos. for this sequence:

V13-50-41	0102-456			
42	471			
J24-AQ-72	489			
0102-359	491			
436c	459			
594				
622				
218				
614				
503				
594				
533				

1291

AutoSampler Report Table: PLASMA1 02/27/01 03:15:07 PM

page 1

Table Name: PLASMA1 Autosampler Type: TYPE TJA
 Sample Positions: 42/192 QC Positions: 19/19 # Sets: 1
 Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	19	10
2	Sample (16mm)	Samples	0	1
3	Sample (16mm)	Samples	0	1
4	Sample (16mm)	Samples	0	1
5	Sample (16mm)	Samples	42	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		ICPT	150	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor

No Samples Prepared.

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
1...19			Not Used)			

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	V13-SO-41 S.B.	1	-NA-	Sample
2	1	2	V13-SO-42 S.B.	1	-NA-	Sample
3	1	3	V24-AQ-72 S.B.	1	-NA-	Sample
4	1	4	V13-SO-41 LC.	1	-NA-	Sample
5	1	5	V13-SO-42 LC.	1	-NA-	Sample
6	1	6	V24-AQ-72 LC.	1	-NA-	Sample
7	1	7	0102-359-03 5	1	-NA-	Sample
8	1	8	0102-436-02	1	-NA-	Sample
9	1	9	0102-436-02 5	1	-NA-	Sample
10	1	10	0102-436-02 PDS	1	-NA-	Sample
11	1	11	CCB1	1	-NA-	Sample
12	1	12	CCV1	1	-NA-	Sample
13	2	1	0102-436-02 MS	1	-NA-	Sample
14	2	2	0102-436-02 MSD	1	-NA-	Sample
15	2	3	0102-594-01	1	-NA-	Sample
16	2	4	0102-622-01	1	-NA-	Sample
17	2	5	0102-218-01	1	-NA-	Sample
18	2	6	0102-218-02	1	-NA-	Sample
19	2	7	0102-218-03	1	-NA-	Sample
20	2	8	0102-218-04	1	-NA-	Sample
21	2	9	0102-218-05	1	-NA-	Sample

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
22	2	10	0102-218-06	1	-NA-	Sample
23	2	11	CCB2	1	-NA-	Sample
24	2	12	CCV2	1	-NA-	Sample
25	3	1	0102-218-07	1	-NA-	Sample
26	3	2	0102-218-08	1	-NA-	Sample
27	3	3	0102-218-09	1	-NA-	Sample
28	3	4	0102-614-01	1	-NA-	Sample
29	3	5	0102-614-02	1	-NA-	Sample
30	3	6	0102-614-03	1	-NA-	Sample
31	3	7	0102-614-04	1	-NA-	Sample
32	3	8	0102-614-05	1	-NA-	Sample
33	3	9	0102-614-06	1	-NA-	Sample
34	3	10	0102-614-07	1	-NA-	Sample
35	3	11	CCB3	1	-NA-	Sample
36	3	12	CCV3	1	-NA-	Sample
37	4	1	0102-614-08	1	-NA-	Sample
38	4	2	0102-614-09	1	-NA-	Sample
39	4	3	0102-614-10	1	-NA-	Sample
40	4	4	0102-614-11	1	-NA-	Sample
41	4	5	0102-614-12	1	-NA-	Sample
42	4	6	0102-614-13	1	-NA-	Sample
43	4	7	0102-614-14	1	-NA-	Sample
44	4	8	0102-614-15	1	-NA-	Sample
45	4	9	0102-614-16	1	-NA-	Sample
46	4	10	0102-614-17	1	-NA-	Sample
47	4	11	CCB4	1	-NA-	Sample
48	4	12	CCV4	1	-NA-	Sample

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	0102-614-18	1	-NA-	Sample
2	1	2	0102-614-19	1	-NA-	Sample
3	1	3	0102-614-19 5	1	-NA-	Sample
4	1	4	0102-614-19 PDS	1	-NA-	Sample
5	1	5	0102-614-19 MS	1	-NA-	Sample
6	1	6	0102-614-19 MSD	1	-NA-	Sample
7	1	7	0102-503-01	1	-NA-	Sample
8	1	8	0102-503-01 MS	1	-NA-	Sample
9	1	9	0102-503-01 MSD	1	-NA-	Sample
10	1	10	0102-594-01	1	-NA-	Sample
11	1	11	CCB5	1	-NA-	Sample
12	1	12	CCV5	1	-NA-	Sample
13	2	1	0102-594-01 MS	1	-NA-	Sample
14	2	2	0102-533-01	1	-NA-	Sample
15	2	3	0102-533-01 MS	1	-NA-	Sample
16	2	4	0102-456-01	1	-NA-	Sample
17	2	5	0102-456-01 MS	1	-NA-	Sample
18	2	6	0102-471-05	1	-NA-	Sample
19	2	7	0102-471-05 MS	1	-NA-	Sample
20	2	8	0102-471-05 MSD	1	-NA-	Sample
21	2	9	0102-489-01	1	-NA-	Sample

AutoSampler Report Table: PLASMA1

02/27/01 03:15:07 PM

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Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
22	2	10	0102-489-01 MS	1	-NA-	Sample
23	2	11	CCB6	1	-NA-	Sample
24	2	12	CCV6	1	-NA-	Sample
25	3	1	0102-491-01	1	-NA-	Sample
26	3	2	0102-491-01 MS	1	-NA-	Sample
27	3	3	0102-459-01	1	-NA-	Sample
28	3	4	0102-459-01 MS	1	-NA-	Sample
29	3	5	CCB7	1	-NA-	Sample
30	3	6	CCV7	1	-NA-	Sample
31	3	7	ICSA	1	-NA-	Sample
32	3	8	ICSAB	1	-NA-	Sample
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-

FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION
ICP METALS

Lab Name Environmental Testing and Consulting, Inc

Date/Time of Sequence 02/23/01 1240 Instrument ICPT

Initial Calibration Source C1 M5-30-21 C2 M5-22-14 C3 M5-20-05 C4 M5-18-04

Continuing Calibration Source ICV/CCV M5-29-18

Initial Calibration Verification			Continuing CCV1			Continuing CCV2			Continuing CCV3		
Analyte	True	Found	%Diff(1)	Flag	True	Found	%Diff(1)	Flag	Found	%Diff(1)	Flag
Arsenic	500	497	1	<5	500	490	2	<5	498	0	<5

Analyte	Continuing CCV4				Continuing CCV5				Flag	Found	%Diff(1)	Flag	
	True	Found	%Diff(1)	Flag	Found	%Diff(1)	Flag						
	500	502	0	<5	508	2	<5						
Arsenic													

(1) Percent difference from true value. ICP Method 6010B - 10% ICP Method 200.7 - 5%

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FORM 3
INITIAL AND CONTINUING CALIBRATION BLANKS
ICP METALS

Lab Name Environmental Testing and Consulting, Inc
Date/Time of Sequence 02/23/01 1240 Instrument ICPT

Analyte	Initial Calibration Blank ug/L	Continuing Calibration Blank ug/L				
		CCB1	CCB2	CCB3	CCB4	CCB5
Arsenic	ND	ND	ND	ND	ND	ND

FORM 4
INTERFERENCE CHECK SAMPLE
ICP METALS

Lab Name Environmental Testing and Consulting, Inc

Date/Time of Sequence 02/23/01 1240 Instrument ICPT

Concentration Units: ug/L

Analyte	True Sol	Initial Found		Final Found	
	AB	Sol AB	%REC	Sol AB	%REC
Aluminum	250000	253000	101	268000	107
Arsenic	200	210	105	220	110
Calcium	250000	247000	99	255000	102
Iron	100000	99100	99	104000	104
Magnesium	250000	259000	104	270000	108

Concentration Units: ug/L

Analyte	True Sol	Initial Found		Final Found	
	A	Sol A	%REC	Sol A	%REC
Aluminum	250000	254000	102	271000	108
Arsenic	0	ND	0	ND	0
Calcium	250000	255000	102	264000	106
Iron	100000	97200	97	102000	102
Magnesium	250000	256000	102	268000	107

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
GC Pesticides**

656 668

ENVIRONMENTAL TESTING & CONSULTING, INC GC Pesticides Method 8081A Sequence Check List (SW-846)

Sequence ID: P3022S1 System ID: 3 Date: 2/25/01 Analyst: LC

Column ID: Primary / Confirmation Column Description: RTKCLP Supervisor: _____

Applicable ETC Order Nos. for this sequence:

0102614
0102594

- Initial Calibration P3022S1
RSD of analytes $\leq 20\%$ may use average RF.
RSD of analytes $> 20\%$ or analyst discretion, use linear regression ($r^2 \geq 0.99$)
- Endrin/DDT Breakdown – Breakdown for each should not exceed 15%.
- Calibration Verification – Beginning/Every 20th Sample / Ending. Note only those %D that affect data.
%Difference $< 15\%$ or Average %Difference of All Analytes $< 15\%$.

CV w/File #	Aldrin	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC	Alpha-chlor	Gamma-chlor	Chlorpyrifos	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sul	Endrin	Endrin Ald	Endrin Ket	Heptachlor	Hept Epoxide	Methoxychlor	DCB	TMX	Average	
1A 24																5.3								29.0	7.5
1B 23																									
2A																									
2B 46																									
3A 47																39.0									9.2
3B																									

- Method Blanks – Note results for positive results. Flag final results as B – Detected in Blank.
1 per 20 samples per matrix.

Method Blank	
<u>P08020LB3 OK</u>	
<u>P08020LB2 TMX high</u>	
<u>P08020LB3 TMX high</u>	

- Laboratory Control Samples – Note failures only. 1 per 20 samples per matrix. Duplicate LCS when no MS/MSD available.

LCS/LCSD	
<u>P08020LCS OK</u>	<u>quantifiable slightly high</u>

- Matrix Spike/Matrix Spike Duplicate – 1 per 20 samples per matrix.

0102614 - 10MS, MSD
TMX high MS/MSD

- Notes

\\SERVER\ETC_SOP\Organics\gcsvo\PEstPCBHerbs\8081\GC Pesticides 8081A Check List 032900 doc

000137

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Instrument ID: PEST3A

Calibration Date: 02/25/01 Time: 1547

Lab File ID: P302251A-24R

Init. Calib. Date(s): 02/25/01 02/25/01

Init. Calib. Times: 1400

1440

GC Column: RTX-CLP ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	0.02 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Aldrin	0.0189	0.0200	AVRG	5.5	15.0
alpha-BHC	0.0202	0.0200	AVRG	1.0	15.0
beta-BHC	0.0191	0.0200	AVRG	4.5	15.0
delta-BHC	0.0196	0.0200	AVRG	2.0	15.0
gamma-BHC (Lindane)	0.0201	0.0200	AVRG	0.5	15.0
alpha-chlordane	0.0179	0.0200	AVRG	10.5	15.0
gamma-chlordane	0.0179	0.0200	AVRG	10.5	15.0
Chlorpyrifos	0.0216	0.0200	AVRG	8.0	15.0
4,4'-DDD	0.0190	0.0200	2ORDR	5.0	15.0
4,4'-DDE/endosulfan I	0.0184	0.0200	AVRG	8.0	15.0
4,4'-DDT	0.0189	0.0200	2ORDR	5.5	15.0
Dieldrin	0.0190	0.0200	AVRG	5.0	15.0
Endosulfan II	0.0177	0.0200	AVRG	11.5	15.0
Endosulfan sulfate	0.0189	0.0200	AVRG	5.5	15.0
Endrin	0.0169	0.0200	AVRG	15.5	15.0
Endrin aldehyde	0.0185	0.0200	AVRG	7.5	15.0
Endrin ketone	0.0180	0.0200	AVRG	10.0	15.0
Heptachlor	0.0203	0.0200	AVRG	1.5	15.0
Heptachlor epoxide	0.0191	0.0200	AVRG	4.5	15.0
Methoxychlor	0.0186	0.0200	AVRG	7.0	15.0
=====	=====	=====	=====	=====	=====
Decachlorobiphenyl	0.0175	0.0200	AVRG	12.5	15.0
Tetrachloro-m-xylene	0.0258	0.0200	LINR	29.0	15.0

<-

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FORM VII PESTICIDE

000138

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Instrument ID: PEST3A

Calibration Date: 02/25/01

Time: 1756

Lab File ID: P302251A-47R

Init. Calib. Date(s): 02/25/01

02/25/01

Init. Calib. Times: 1400

1440

GC Column: RTX-CLP ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	0.02 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
Aldrin	0.0172	0.0200	AVRG	14.0	15.0
alpha-BHC	0.0173	0.0200	AVRG	13.5	15.0
beta-BHC	0.0171	0.0200	AVRG	14.5	15.0
delta-BHC	0.0181	0.0200	AVRG	9.5	15.0
gamma-BHC (Lindane)	0.0172	0.0200	AVRG	14.0	15.0
alpha-chlordane	0.0169	0.0200	AVRG	15.5	15.0 <-
gamma-chlordane	0.0169	0.0200	AVRG	15.5	15.0 <-
Chlorpyrifos	0.0201	0.0200	AVRG	0.5	15.0
4,4'-DDD	0.0195	0.0200	2ORDR	2.5	15.0
4,4'-DDE/endosulfan I	0.0179	0.0200	AVRG	10.5	15.0
4,4'-DDT	0.0199	0.0200	2ORDR	0.5	15.0
Dieldrin	0.0182	0.0200	AVRG	9.0	15.0
Endosulfan II	0.0185	0.0200	AVRG	7.5	15.0
Endosulfan sulfate	0.0208	0.0200	AVRG	4.0	15.0
Endrin	0.0122	0.0200	AVRG	39.0	15.0 <-
Endrin aldehyde	0.0214	0.0200	AVRG	7.0	15.0
Endrin ketone	0.0208	0.0200	AVRG	4.0	15.0
Heptachlor	0.0178	0.0200	AVRG	11.0	15.0
Heptachlor epoxide	0.0178	0.0200	AVRG	11.0	15.0
Methoxychlor	0.0194	0.0200	AVRG	3.0	15.0
=====	=====	=====	=====	=====	=====
Decachlorobiphenyl	0.0205	0.0200	AVRG	2.5	15.0
Tetrachloro-m-xylene	0.0184	0.0200	LINR	8.0	15.0

FORM VII PESTICIDE

000139

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Instrument ID: PEST3A

Calibration Date(s): 02/25/01 02/25/01

Column: RTX-CLP ID: 0.25 (mm) Calibration Time(s): 1400 1451

LAB FILE ID: RF0.0004: P302251ARF0.004: P302251A-RF0.01: P302251A-1
RF0.02: P302251A-ORF0.03: P302251A-0

COMPOUND	RF0.0004	RF0.004	RF0.01	RF0.02	RF0.03
=====	=====	=====	=====	=====	=====
Aldrin	23215000	26433750	19396800	21637200	23428067
alpha-BHC	21242500	26687750	20002600	24196700	25933533
beta-BHC	515000.00	540000.00	387700.00	486350.00	496433.33
delta-BHC	17705000	20781000	15496000	19460150	20093333
gamma-BHC (Lindane)		1578750.0	1241800.0	1531800.0	1696566.7
alpha-chlordane	24985000	23775250	17083100	19778250	20581300
gamma-chlordane	25592500	23785750	17292500	19734150	20958967
Chlordane			78465.000		
(2)			116155.00		
(3)			74555.000		
(4)			210035.00		
(5)			297750.00		
Chlorpyrifos	445000.00	441000.00	307700.00	381200.00	319000.00
4,4'-DDD		7604500.0	5399300.0	7445600.0	7622066.7
4,4'-DDE/endosulfan I	38080000	40346250	30498600	35710300	37669367
4,4'-DDT		607750.00	428500.00	574050.00	582700.00
Dieldrin	21270000	23173000	17517000	20908500	21265600
Endosulfan II	1192500.0	1150750.0	855300.00	995950.00	1035866.7
Endosulfan sulfate	11020000	14769750	11275300	13207950	13129000
Endrin	18315000	16382250	12217600	13949000	14643067
Endrin aldehyde	685000.00	723250.00	513300.00	586050.00	607566.67
Endrin ketone	1002500.0	890500.00	663300.00	792150.00	796700.00
Heptachlor	1535000.0	1688500.0	1270000.0	1527000.0	1642533.3
Heptachlor epoxide	1662500.0	1739750.0	1269200.0	1512050.0	1559433.3
Methoxychlor	192500.00	215250.00	158400.00	201800.00	201866.67
Toxaphene			1297976.0		
(2)			989355.00		
(3)			996667.00		
(4)			1320622.0		
(5)			697647.00		
=====	=====	=====	=====	=====	=====
Decachlorobiphenyl	670000.00	643250.00	439400.00	549950.00	505066.67
Tetrachloro-m-xylene		765000.00	533800.00	797450.00	682266.67

FORM VI PESTICIDE

000140

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.: 0102-614

Instrument ID: PEST3A Calibration Date(s): 02/25/01 02/25/01

Column: RTX-CLP ID: 0.25 (mm) Calibration Time(s): 1400 1451

LAB FILE ID: RF0.04: P302251A-1RF0.06: P302251A-1RF0.4: P302251A-12

COMPOUND	RF0.04	RF0.06	RF0.4
=====	=====	=====	=====
Aldrin	20478100	26816267	22917305
alpha-BHC	22328975	30420400	27971925
beta-BHC	432350.00	598250.00	682130.00
delta-BHC	17293925	23451933	23457323
gamma-BHC (Lindane)	1520450.0	2150350.0	2079140.0
alpha-chlordane	17559025	22826917	21002978
gamma-chlordane	18129450	23654117	21924073
Chlordane			
(2)			
(3)			
(4)			
(5)			
Chlorpyrifos	277100.00	388266.67	350107.50
4,4'-DDD	6528200.0	8777400.0	9435597.5
4,4'-DDE/endosulfan I	32253750	41607067	36260938
4,4'-DDT	494675.00	674450.00	732080.00
Dieldrin	18360175	23458167	20588173
Endosulfan II	894000.00	1125666.7	1008592.5
Endosulfan sulfate	11606300	14594683	14106395
Endrin	12528775	16792467	14812785
Endrin aldehyde	529150.00	653150.00	636052.50
Endrin ketone	689925.00	854233.33	812905.00
Heptachlor	1393350.0	1899733.3	1657697.5
Heptachlor epoxide	1333825.0	1736400.0	1442800.0
Methoxychlor	175750.00	226500.00	233162.50
Toxaphene			
(2)			
(3)			
(4)			
(5)			
=====	=====	=====	=====
Decachlorobiphenyl	428350.00	527833.33	563490.00
Tetrachloro-m-xylene	578250.00	958083.33	929365.00

FORM VI PESTICIDE

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Instrument ID: PEST3A

Calibration Date(s): 02/25/01 02/25/01

Column: RTX-CLP ID: 0.25 (mm)

Calibration Time(s): 1400 1451

COMPOUND	CURVE	COEFFICIENTS			%RSD OR R ²
		A0	A1	A2	
=====	=====	=====	=====	=====	=====
Aldrin	AVRG		23040311.0		11.3
alpha-BHC	AVRG		24848047.9		14.3
beta-BHC	AVRG		517276.667		17.8
delta-BHC	AVRG		19717333.0		14.5
gamma-BHC (Lindane)	AVRG		1685550.95		19.2
alpha-chlordane	AVRG		20948977.4		13.5
gamma-chlordane	AVRG		21383938.2		13.6
Chlordane	LINR	0.00000000	1.274e-005		1.000
(2)	LINR	0.00000000	8.609e-006		1.000
(3)	LINR	0.00000000	1.341e-005		1.000
(4)	LINR	0.00000000	4.761e-006		1.000
(5)	LINR	0.00000000	3.359e-006		1.000
Chlorpyrifos	AVRG		363671.771		16.8
4,4'-DDD	2ORDR	3.662e-003	1.145e-007	-2.52e-015	0.999
4,4'-DDE/endosulfan I	AVRG		36553283.9		10.3
4,4'-DDT	2ORDR	3.593e-003	1.498e-006	-4.93e-013	0.999
Dieldrin	AVRG		20817576.8		9.9
Endosulfan II	AVRG		1032328.23		11.6
Endosulfan sulfate	AVRG		12963672.3		11.6
Endrin	AVRG		14955117.9		14.1
Endrin aldehyde	AVRG		616689.896		11.8
Endrin ketone	AVRG		812776.667		13.3
Heptachlor	AVRG		1576726.77		12.2
Heptachlor epoxide	AVRG		1531994.79		11.6
Methoxychlor	AVRG		200653.646		12.5
Toxaphene	LINR	0.00000000	7.704e-007		1.000
(2)	LINR	0.00000000	1.011e-006		1.000
(3)	LINR	0.00000000	1.003e-006		1.000
(4)	LINR	0.00000000	7.572e-007		1.000
(5)	LINR	0.00000000	1.433e-006		1.000
=====	=====	=====	=====	=====	=====
Decachlorobiphenyl	AVRG		540917.500		16.0
Tetrachloro-m-xylene	LINR	5.197e-003	1.061e-006		0.998

FORM VI PESTICIDE

000142

Environmental Testing & Consulting, Inc.

**Quality Control Reports
Level IV
GC Herbicides**

ENVIRONMENTAL TESTING & CONSULTING, INC

GC Herbicides Method 8151B/6640 Sequence Check List

Sequence ID: H202231 System ID: 2 Date: 2/23/01 Analyst: RL6

Column ID: Primary / Confirmation Column Description: ~~P1108~~ 2B-5 Supervisor: DB-5

Applicable ETC Order Nos. for this sequence:

0102614

- Initial Calibration H2022301 a.m
 RSD of analytes $\leq 20\%$ may use average RF.
 RSD of analytes $> 20\%$ or analyst discretion, use linear regression ($r^2 \geq 0.99$)
- Calibration Verification – Beginning/Every 20th Sample / Ending. Note only those %D that affect data.
 %Difference $< 15\%$ or Average %Difference of All Analytes $< 15\%$.

CV w/File #	Dalapon	MCPP	Dicamba	MCPA	Dichloroprop	2,4-D	Silvex	2,4,5-T	Dinoseb	2,4-DB	DCAA	Average
1A <u>23</u>												
1B <u>24</u>												
2A <u>45</u>												
2B <u>46</u>												
3A												
3B												

- Method Blanks – Note results for positive results. Flag final results as B – Detected in Blank.
 1 per 20 samples per matrix.

Method Blank				
<u>P1108S1B OK</u>				
<u>P1108S1B2 OK</u>				

- Laboratory Control Samples – Note failures only. 1 per 20 samples per matrix. Duplicate LCS when no MS/MSD available.

LCS/LCSD				
<u>P1108S1CS 24ST high OK</u>				
<u>P1108S1CS 24ST high OK</u>				

- Matrix Spike/Matrix Spike Duplicate – 1 per 20 samples per matrix.

0102614 - 10MS, MSD, 24ST high MS/MSD
0102218 - 3MS, MSD, 24ST high MS/MSD

- Notes

656 676

FORM 7
HERBICIDE CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Instrument ID: PEST2A

Calibration Date: 02/23/01

Time: 2341

Lab File ID: H202231A-23R

Init. Calib. Date(s): 02/23/01

02/23/01

Init. Calib. Times: 1517

1749

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CAL0.1 AMOUNT	CURVE	%D	MAX %d
2,4-D	0.101	0.100	LINR	1.0	15.0
Silvex	0.00924	0.0100	LINR	7.6	15.0
2,4,5-T	0.00953	0.0100	LINR	4.7	15.0

FORM VII HERBICIDE

000145

FORM 7
HERBICIDE CONTINUING CALIBRATION CHECK

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Instrument ID: PEST2A

Calibration Date: 02/24/01 Time: 0854

Lab File ID: H202231A-45R

Init. Calib. Date(s): 02/23/01 02/23/01

Init. Calib. Times: 1517 1749

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	CAL0.1 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
2,4-D	0.108	0.100	LINR	8.0	15.0
Silvex	0.00942	0.0100	LINR	5.8	15.0
=====	=====	=====	=====	=====	=====
2,4,5-T	0.00955	0.0100	LINR	4.5	15.0
=====	=====	=====	=====	=====	=====

FORM VII HERBICIDE

000146

656 678

FORM 6
HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Instrument ID: PEST2A

Calibration Date(s): 02/23/01 02/23/01

Column: ZB-5

ID: 0.25 (mm)

Calibration Time(s): 1517

1749

LAB FILE ID: RF0.01: H202231A-ORF0.02: H202231A-ORF0.04: H202231A-0
RF0.1: H202231A-06RF0.25: H202231A-0

COMPOUND	RF0.01	RF0.02	RF0.04	RF0.1	RF0.25
=====	=====	=====	=====	=====	=====
2,4-D	1296300.0	817600.00	706940.00	607240.00	561895.00
Silvex	4518000.0	2720333.3	2462000.0	2226700.0	2229200.0
=====	=====	=====	=====	=====	=====
2,4,5-T	3431000.0	2066666.7	1856400.0	1767600.0	1768000.0
=====	=====	=====	=====	=====	=====

FORM VI HERBICIDE

000147

FORM 6
HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Instrument ID: PEST2A

Calibration Date(s): 02/23/01 02/23/01

Column: ZB-5

ID: 0.25 (mm)

Calibration Time(s): 1517 1749

LAB FILE ID:

RF0.35: H202231A-ORF0: H202231A-09R

COMPOUND	RF0.35	RF0
=====	=====	=====
2,4-D	515532.00	435796.00
Silvex	2323780.0	2101890.0
=====	=====	=====
2,4,5-T	1859520.0	1671930.0
=====	=====	=====

FORM VI HERBICIDE

000148

656 680

FORM 6
HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ETC, INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0102-614

Instrument ID: PEST2A

Calibration Date(s): 02/23/01 02/23/01

Column: ZB-5

ID: 0.25 (mm)

Calibration Time(s): 1517

1749

COMPOUND	CURVE	COEFFICIENTS		%RSD OR R ²
		A0	A1	
2,4-D	LINR	-3.91e-002	2.303e-006	0.993
Silvex	LINR	-1.24e-003	4.727e-007	0.998
2,4,5-T	LINR	-1.11e-003	5.924e-007	0.997

FORM VI HERBICIDE

000149

FINAL PAGE

PART I

ADMINISTRATIVE RECORD

PART I

FINAL PAGE