

**APPENDIX D**  
**ANALYTICAL REPORTS**

***Confirmatory Wipe Samples for Lead Analysis***

***AT Labs***

QA LEVEL II DATA PACKAGE

ANALYSIS: Lead Wipes

METHOD: OSHA 125 (ICP)

AT Labs Control #: 0499-029; 0499-032

IT Corp Project #: 774645

LABORATORY SAMPLE ID #'S: 904469-904484, 904489-904504

Project narrative:

Smear tabs were submitted by IT Corporation for analysis of lead. Samples were first received at the Assay Technology location in Palo Alto, CA then forwarded to the Ohio location for analysis.

Date collected:	4/14& 15/99
Date received:	4/19& 20/99
Dates analyzed:	4/26/99
Date reported:	4/26/99

ANALYTICAL RESULTS:

Samples: See attached reports.

Raw Data: See attached.

QC Summary

Calibration: Blank + 5 Standards

ICV (Instrument Control Verification)

Lead	<u>Assay Value</u>	<u>True Value</u>	<u>% Recovery</u>
	1.931	2.0	96.6

CCV (Continuing Control Verification)

Lead	<u>Assay value</u>	<u>True Value</u>	<u>%Recovery</u>
	0.9608	1.0	96.1
	0.9454	1.0	94.5

Laboratory Prepped control (LPC)

Lead	<u>Assay value</u>	<u>True Value</u>	<u>% Recovery</u>
	1.627	1.50	108
	1.455	1.50	97

Method Blank: None Detected (<0.50 ug/filter)

DILUTIONS: All samples were analyzed within the calibration range.

CALCULATIONS:

Wipes were adjusted to a final volume of 10 mL following digestion. This volume is accounted for when calculating results.

QA LEVEL II DATA PACKAGE

ANALYSIS: Lead (IH)

METHOD: NIOSH 7082 (Flame AA)

AT Labs Control #: 0699-027

LABORATORY SAMPLE ID #'S: 905050-905064

Project narrative:

Wipe samples collected using smearthabs were submitted by Quanterra for the analysis of lead.

The shipping container and contents were surveyed for potential radiological contamination. The results of the survey were negative and the samples were then processed through standard sample receiving procedures.

Date collected:	6/9/99
Date received:	6/15/99
Dates analyzed:	6/18/99
Date reported:	6/18/99

**ANALYTICAL RESULTS:**

Samples: See attached reports.

Raw Data: See attached.

## QC Summary

Calibration: Blank + 5 Standards(1.0, 5.0, 10.0, 15.0, and 20.0 ppm)

Correlation Coefficient: 0.99997

Continuing Calibration Verifications(CCV's): 3 levels(1.0, 4.0, and 15.0 ppm) All CCV's were within control limits.

<u>THEORETICAL</u>	<u>RESULTS</u>		
1.0 ppm QC	0.95	1.07	0.98
4.0 ppm QC	3.93	3.97	3.89
15.0 ppm QC	14.85	15.02	14.81

## Continuing Calibration Blank(CCB's):

All CCB's were &lt;0.2 ppm.

Method Blank: None Detected (&lt;2.0 ug/filter)

Spike Recovery: 112% &amp; 112%

DILUTIONS: All samples were analyzed at a 1:2 dilution due to the matrix of the digestates.

## CALCULATIONS:

Wipes were adjusted to a final volume of 10 mL following digestion.

$$\text{ug/mL} * 10\text{mL/wipe} = \text{ug/wipe}$$



Laboratory Report  
(Wipe Sampling)

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Pricing & Services: (800) 833-1258 • Technical Support: (800) 833-2003 • FAX: (650) 424-0336

Client # 11189-02  
Customer: IT Corp  
Attention: Duane Nielsen  
Address: 312 Directors Drive

Batch Number: 0499-019  
Date Received: 04/12/99  
Date Reported: 04/14/99  
Reported By: S. Lauderbaugh

City: Knoxville  
State: TN  
Zip Code: 37923-4799

Lab ID #	Customer Sample #	Date Sampled	Chemical Analyzed	Quantity Found	Quantity			Analytical Method
					Found	Detection	Detection	
				Units	Limit	Limit	Units	
904377	040699-FB	04/06/1999	lead	ND	ug	0.50	ug	OSHA ID 125
904378	WP-0001	04/06/1999	lead	3.73	ug	0.50	ug	OSHA ID 125
904379	WP-0002	04/06/1999	lead	2.54	ug	0.50	ug	OSHA ID 125
904380	WP-0003	04/06/1999	lead	1.49	ug	0.50	ug	OSHA ID 125
904381	WP-0004	04/06/1999	lead	7.07	ug	0.50	ug	OSHA ID 125
904382	WP-0005	04/06/1999	lead	3.07	ug	0.50	ug	OSHA ID 125
904383	WP-0006	04/06/1999	lead	1.85	ug	0.50	ug	OSHA ID 125
904384	WP-0007	04/06/1999	lead	2.45	ug	0.50	ug	OSHA ID 125
904385	WP-0008	04/06/1999	lead	0.663	ug	0.50	ug	OSHA ID 125
904386	WP-0008R	04/06/1999	lead	1.76	ug	0.50	ug	OSHA ID 125
904387	WP-0009	04/06/1999	lead	2.20	ug	0.50	ug	OSHA ID 125
904388	WP-0012	04/06/1999	lead	ND	ug	0.50	ug	OSHA ID 125
904389	WP-0013	04/06/1999	lead	0.694	ug	0.50	ug	OSHA ID 125
904390	WP-0014	04/06/1999	lead	2.88	ug	0.50	ug	OSHA ID 125
904391	WP-0015	04/06/1999	lead	2.32	ug	0.50	ug	OSHA ID 125
904392	WP-0016	04/07/1999	lead	ND	ug	0.50	ug	OSHA ID 125
904393	WP-0017	04/08/1999	lead	ND	ug	0.50	ug	OSHA ID 125
904394	WP-0018	04/07/1999	lead	1.03	ug	0.50	ug	OSHA ID 125
904395	WP-0019	04/07/1999	lead	0.594	ug	0.50	ug	OSHA ID 125
904396	WP-0019-MS	04/07/1999	lead	ND	ug	0.50	ug	OSHA ID 125

ND = None Detected, Less Than Analytical Detection Limit  
< = Less Than Result

Reviewed by Lori Micsky  
Accredited by The American Industrial Hygiene Association



Laboratory Report  
(Wipe Sampling)

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Lab ID #	Customer Sample #	Date Sampled	Chemical Analyzed	Quantity Found	Quantity			Analytical Method
					Found	Detection	Detection	
				Units	Limit	Limit	Units	
904397	WP-0019-MSD	04/07/1999	lead	0.750	ug	0.50	ug	OSHA ID 125
904398	WP-0020	04/07/1999	lead	ND	ug	0.50	ug	OSHA ID 125
904399	WP-0021	04/07/1999	lead	0.753	ug	0.50	ug	OSHA ID 125
904400	WP-0022	04/07/1999	lead	1.18	ug	0.50	ug	OSHA ID 125
904401	WP-0023	04/07/1999	lead	1.14	ug	0.50	ug	OSHA ID 125
904402	WP-0024	04/07/1999	lead	1.02	ug	0.50	ug	OSHA ID 125
904403	WP-0025	04/07/1999	lead	214	ug	0.50	ug	OSHA ID 125
904404	WP-0026	04/07/1999	lead	242	ug	0.50	ug	OSHA ID 125
904405	WP-0027	04/07/1999	lead	11.1	ug	0.50	ug	OSHA ID 125
904406	WP-0028	04/07/1999	lead	ND	ug	0.50	ug	OSHA ID 125

ND = None Detected, Less Than Analytical Detection Limit  
< = Less Than Result

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**INTERNATIONAL  
TECHNOLOGY  
CORPORATION**

**ANALYSIS REQUEST AND  
CHAIN OF CUSTODY RECORD**

Reference Document No: IPR-040699-QSK

Page 1 of 2

Project Number: 774645

Samples Shipment Date: 07-APR-99

Bill To: Duane Nielsen

Project Name: Fort McClellan

Lab Destination: Quanterra Environmental Services - Knoxville

312 Directors Drive

Knoxville

TN 37923

Sample Coordinator: John W. Andrew

Lab Contact: John Reynolds

Report To: Duane Nielsen

Turnaround Time: *Normal*

Project Contact: Randy McBride

312 Directors Drive

Knoxville

TN 37923

Carrier/Waybill No.: Fed Ex/ 7902 3184 1416

Special Instructions:	
<b>Possible Hazard Identification:</b> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input checked="" type="checkbox"/>	<b>Sample Disposal:</b> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive (mos.)
1. Relinquished By (Signature/Affiliation) <i>[Signature] ITCorp</i> Date: <i>4/7/99</i> Time: <i>1430</i>	1. Received By (Signature/Affiliation) <i>[Signature]</i> Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:	2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:	3. Received By (Signature/Affiliation) Date: Time:
Comments:	

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	Condition On Receipt
040699-FB	FIELDQC-WP-040699-FB-FB	06-APR-99	15:00	4 oz CWM	1	None Required	Lead by 6010B	N	
WP0001	IPR-16-WP01-WP-WP0001-REG	06-APR-99	10:36	4 oz CWM	1	None Required	Lead by 6010B	N	
WP0002	IPR-16-WP02-WP-WP0002-REG	06-APR-99	10:49	4 oz CWM	1	None Required	Lead by 6010B	N	
WP0003	IPR-16-WP03-WP-WP0003-REG	06-APR-99	10:52	4 oz CWM	1	None Required	Lead by 6010B	N	
WP0004	IPR-16-WP04-WP-WP0004-REG	06-APR-99	10:58	4 oz CWM	1	None Required	Lead by 6010B	N	
WP0005	IPR-16-WP05-WP-WP0005-REG	06-APR-99	11:00	4 oz CWM	1	None Required	Lead by 6010B	N	
WP0006	IPR-16-WP06-WP-WP0006-REG	06-APR-99	11:05	4 oz CWM	1	None Required	Lead by 6010B	N	
WP0007	IPR-16-WP07-WP-WP0007-REG	06-APR-99	11:10	4 oz CWM	1	None Required	Lead by 6010B	N	



**ANALYSIS REQUEST AND  
CHAIN OF CUSTODY RECORD**

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	FII CID	Condition On Receipt
WP0008	IPR-16-WP08-WP-WP0008-REG	06-APR-99	11:15	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0008R	IPR-16-WP08-WP-WP0008R-REG	06-APR-99	11:15	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0009	IPR-16-WP08-WP-WP0009-FD	06-APR-99	11:15	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0012	IPR-16-WP09-WP-WP0012-REG	06-APR-99	11:24	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0013	IPR-16-WP10-WP-WP0013-REG	06-APR-99	11:27	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0014	IPR-16-WP11-WP-WP0014-REG	06-APR-99	11:34	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0015	IPR-16-WP12-WP-WP0015-REG	06-APR-99	11:43	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0016	IPR-16-WP13-WP-WP0016-REG	07-APR-99	08:30	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0017	IPR-16-WP14-WP-WP0017-REG	06-APR-99	08:28	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0018	IPR-16-WP15-WP-WP0018-REG	07-APR-99	08:31	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0019	IPR-16-WP16-WP-WP0019-REG	07-APR-99	08:34	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0019-MS	IPR-16-WP16-WP-WP0019-MS-MS	07-APR-99	08:34	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0019-MS	IPR-16-WP16-WP-WP0019-MSD-MSD	07-APR-99	08:34	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0020	IPR-16-WP17-WP-WP0020-FD	07-APR-99	08:41	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0021	IPR-16-WP17-WP-WP0021-REG	07-APR-99	08:41	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0022	IPR-16-WP18-WP-WP0022-REG	07-APR-99	08:44	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0023	IPR-16-WP19-WP-WP0023-REG	07-APR-99	08:45	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0024	IPR-16-WP20-WP-WP0024-REG	07-APR-99	08:46	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0025	IPR-16-WP21-WP-WP0025-REG	07-APR-99	08:50	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0026	IPR-16-WP22-WP-WP0026-REG	07-APR-99	08:51	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0027	IPR-16-WP23-WP-WP0027-REG	07-APR-99	08:53	4 oz CWM	1 None Required	Lead by 6010B	N	
WP0028	IPR-16-WP24-WP-WP0028-REG	07-APR-99	08:54	4 oz CWM	1 None Required	Lead by 6010B	N	



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Client # 11189-02  
Customer: IT Corp  
Attention: Duane Nielsen  
Address: 312 Directors Drive

Batch Number: 0499-029  
Date Received: 04/19/99  
Date Reported: 09/02/99  
Reported By: S. Lauderbaugh

City: Knoxville  
State: TN  
Zip Code: 37923-4799

Lab ID #	Customer Sample #	Date Sampled	Chemical Analyzed	Quantity Found	Quantity			Analytical Method
					Found	Detection	Detection	
				Units	Limit	Limit	Units	
904469	041499-FB	04/14/1999	lead	ND	ug	0.5	ug	OSHA ID 125
904470	WPP0001	04/14/1999	lead	1.16	ug	0.5	ug	OSHA ID 125
904471	WPP0002	04/14/1999	lead	2.39	ug	0.5	ug	OSHA ID 125
904472	WPP0003	04/14/1999	lead	2.18	ug	0.5	ug	OSHA ID 125
904473	WPP0004	04/14/1999	lead	5.52	ug	0.5	ug	OSHA ID 125
904474	WPP0004-MS	04/14/1999	lead	5.54	ug	0.5	ug	OSHA ID 125
904475	WPP0004-MSD	04/14/1999	lead	4.12	ug	0.5	ug	OSHA ID 125
904476	WPP0005	04/14/1999	lead	16.4	ug	0.5	ug	OSHA ID 125
904477	WPP0006	04/14/1999	lead	12.6	ug	0.5	ug	OSHA ID 125
904478	WPP0007	04/14/1999	lead	3.39	ug	0.5	ug	OSHA ID 125
904479	WPP0008	04/14/1999	lead	360	ug	0.5	ug	OSHA ID 125
904480	WPP0009	04/14/1999	lead	7.91	ug	0.5	ug	OSHA ID 125
904481	WPP0011	04/14/1999	lead	10.4	ug	0.5	ug	OSHA ID 125
904482	WPP0012	04/14/1999	lead	23.7	ug	0.5	ug	OSHA ID 125
904483	WPP0013	04/14/1999	lead	183	ug	0.5	ug	OSHA ID 125
904484	WPP0014	04/14/1999	lead	1.28	ug	0.5	ug	OSHA ID 125

\*THIS IS A REVISED REPORT.

ND = None Detected, Less Than Analytical Detection Limit  
< = Less Than Result

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Laboratory Report  
(Wipe Sampling)

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Client # 11189-02  
Customer: IT Corp  
Attention: Duane Nielsen  
Address: 312 Directors Drive

Batch Number: 0499-032  
Date Received: 04/20/99  
Date Reported: 04/26/99  
Reported By: S. Lauderbaugh

City: Knoxville  
State: TN  
Zip Code: 37923-4799

Lab ID #	Customer Sample #	Date Sampled	Chemical Analyzed	Quantity		Detection Limit	Detection Limit Units	Analytical Method
				Quantity Found	Units			
904489	WPP 0015	04/14/1999	lead	1.64	ug	0.5	ug	OSHA ID 125
904490	WPP 0016	04/15/1999	lead	5.12	ug	0.5	ug	OSHA ID 125
904491	WPP 0017	04/15/1999	lead	10.7	ug	0.5	ug	OSHA ID 125
904492	WPP 0018	04/15/1999	lead	214	ug	0.5	ug	OSHA ID 125
904493	WPP 0019	04/15/1999	lead	236	ug	0.5	ug	OSHA ID 125
904494	WPP 0020	04/15/1999	lead	3.66	ug	0.5	ug	OSHA ID 125
904495	WPP 0020-MS	04/15/1999	lead	4.05	ug	0.5	ug	OSHA ID 125
904496	WPP 0020-MSD	04/15/1999	lead	9.26	ug	0.5	ug	OSHA ID 125
904497	WPP 0021	04/15/1999	lead	1.96	ug	0.5	ug	OSHA ID 125
904498	WPP 0022	04/15/1999	lead	16.4	ug	0.5	ug	OSHA ID 125
904499	WPP 0023	04/15/1999	lead	4.87	ug	0.5	ug	OSHA ID 125
904500	WPP 0024	04/15/1999	lead	4.52	ug	0.5	ug	OSHA ID 125
904501	WPP 0025	04/15/1999	lead	61.9	ug	0.5	ug	OSHA ID 125
904502	WPP 0026	04/15/1999	lead	159	ug	0.5	ug	OSHA ID 125
904503	WPP 0027	04/15/1999	lead	8.67	ug	0.5	ug	OSHA ID 125
904504	LAB BLANK	04/15/1999	lead	ND	ug	0.5	ug	OSHA ID 125

ND = None Detected, Less Than Analytical Detection Limit  
< = Less Than Result

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H4D150189



INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: IPR-041499-QSK

Page 1 of 2

Project Number: 774645

Samples Shipment Date: 15-APR-99

Bill To: Duane Nielsen

Project Name: Fort McClellan

Lab Destination: Quanterra Environmental Services - Knoxville

312 Directors Drive

Knoxville

TN 37923

Sample Coordinator: John W. Andrew

Lab Contact: John Reynolds

Report To: Duane Nielsen

Turnaround Time: NORMAL

Project Contact: Randy McBride 0499-029

312 Directors Drive

Knoxville

TN 37923

Carrier/Waybill No.: Quality Express/ Courier

Special Instructions: NONE

Possible Hazard Identification:

Non-hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:

Return to Client  Disposal by Lab  Archive (mos.)

1. Relinquished By (Signature/Affiliation)

*John W. Andrew*

Date: 4/15/99  
Time: 08:30

1. Received By (Signature/Affiliation)

*Blonde Pellen*

Date: 4-15-99  
Time: 08:30

2. Relinquished By (Signature/Affiliation)

*Blonde Pellen*

Date: 4-15-99  
Time: 13:50

2. Received By (Signature/Affiliation)

*Justin Willett*

Date: 4-15-99  
Time: 13:50  
*15:30 JW 4-15-99*

3. Relinquished By (Signature/Affiliation)

*Justin Willett*

Date: 4-15-99  
Time: 17:00

3. Received By (Signature/Affiliation)

*M. Madari / AT Labs*

Date: 4/16/99  
Time: 11:10

Comments: NONE

*JW Recd at 2°C  
4-15-99 Custody Seals Intact*

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	Condition On Receipt
041499-FB	FIELDQC-WP-041499-FB-FB	14-APR-99	10:45 <del>14:30</del>	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0001	IPR-217-WP01-WP-WPP0001-REG	14-APR-99	10:55	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0002	IPR-217-WP02-WP-WPP0002-REG	14-APR-99	11:01	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0003	IPR-217-WP03-WP-WPP0003-REG	14-APR-99	11:05	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0004	IPR-217-WP04-WP-WPP0004-REG	14-APR-99	11:11	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0004-M	IPR-217-WP04-WP-WPP0004-MS-MS	14-APR-99	11:11	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0004-M	IPR-217-WP04-WP-WPP0004-MSD-MS	14-APR-99	11:11	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0005	IPR-217-WP05-WP-WPP0005-REG	14-APR-99	11:15	4 oz CWM	1	None Required	Lead by 6010B	N	

0499-029



**INTERNATIONAL  
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**ANALYSIS REQUEST AND  
CHAIN OF CUSTODY RECORD**

Reference Document No: IPR-041499-QSK

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Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	File	CID	Condition On Receipt
WPP0006	IPR-217-WP06-WP-WPP0006-REG	14-APR-99	11:20	4 oz CWM	1 None Required	Lead by 6010B	N		
WPP0007	IPR-217-WP07-WP-WPP0007-REG	14-APR-99	11:25	4 oz CWM	1 None Required	Lead by 6010B	N		
WPP0008	IPR-217-WP08-WP-WPP0008-REG	14-APR-99	11:32	4 oz CWM	1 None Required	Lead by 6010B	N		
WPP0009	IPR-217-WP08-WP-WPP0009-FD	14-APR-99	11:34	4 oz CWM	1 None Required	Lead by 6010B	N		
WPP0011	IPR-217-WP09-WP-WPP0011-REG	14-APR-99	11:40	4 oz CWM	1 None Required	Lead by 6010B	N		
WPP0012	IPR-217-WP10-WP-WPP0012-REG	14-APR-99	11:44	4 oz CWM	1 None Required	Lead by 6010B	N		
WPP0013	IPR-217-WP11-WP-WPP0013-REG	14-APR-99	11:48	4 oz CWM	1 None Required	Lead by 6010B	N		
WPP0014	IPR-217-WP12-WP-WPP0014-REG	14-APR-99	11:51	4 oz CWM	1 None Required	Lead by 6010B	N		

Quote # 5476

49D/60185



# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: IPR-041599-QSK

Page 1 of 2

Project Number: 774645

Samples Shipment Date: 16-APR-99

Bill To: Duane Nielsen  
312 Directors Drive  
Knoxville TN 37923

Project Name: Fort McClellan

Lab Destination: Quanterra Environmental Services - Knoxville

Sample Coordinator: John W. Andrew

Lab Contact: John Reynolds

Report To: Duane Nielsen  
312 Directors Drive  
Knoxville TN 37923

Turnaround Time: *NOA/EPB*  
*NORMAL*

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/ Courier **0499-032**

Special Instructions: NONE

Possible Hazard Identification:

Non-hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:

Return to Client  Disposal by Lab  Archive  (mos.)

- 1. Relinquished By *[Signature]* Date: 04/16/99  
(Signature/Affiliation) *IT Corp* Time: 0830
- 2. Relinquished By *[Signature]* Date: 4-16-99  
(Signature/Affiliation) *Phonda Pellom* Time: 1300
- 3. Relinquished By *[Signature]* Date: 4/16/99  
(Signature/Affiliation) *Byron Blongue* Time: 1700

- 1. Received By *[Signature]* Date: 4-16-99  
(Signature/Affiliation) *Phonda Pellom* Time: 08:30
- 2. Received By *[Signature]* Date: 4/16/99  
(Signature/Affiliation) *Byron Blongue* Time: 1300
- 3. Received By *[Signature]* Date: 4/19/99  
(Signature/Affiliation) *Umadali Reid @ 300* Time: 11:30 AM  
*w/custody seals*  
*Intact BPB 4/16/99*

Comments: NONE

Sample No	Sample Name	Sample Date	Sample Time	Container	Qty	Preservative	Requested Testing Program	File CID	Condition On Receipt
WPP0015	IPR-217-WP13-WP-WPP0015-REG	15-APR-99	12:40	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0016	IPR-217-WP14-WP-WPP0016-REG	15-APR-99	12:43	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0017	IPR-217-WP15-WP-WPP0017-REG	15-APR-99	12:46	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0018	IPR-217-WP16-WP-WPP0018-REG	15-APR-99	13:35	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0019	IPR-217-WP16-WP-WPP0019-FD	15-APR-99	13:35	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0020	IPR-217-WP17-WP-WPP0020-REG	15-APR-99	13:12	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0020-M	IPR-217-WP17-WP-WPP0020-MS-MS	15-APR-99	13:12	4 oz CWM	1	None Required	Lead by 6010B	N	
WPP0020-M	IPR-217-WP17-WP-WPP0020-MSD-MS	15-APR-99	13:12	4 oz CWM	1	None Required	Lead by 6010B	N	

H9D160185



**INTERNATIONAL  
TECHNOLOGY  
CORPORATION**

**ANALYSIS REQUEST AND  
CHAIN OF CUSTODY RECORD**

Reference Document No: IPR-041599-QSK

Page 2 of 2

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	File CID	Condition On Receipt
WPP0021	IPR-217-WP18-WP-WPP0021-REG	15-APR-99	13:15	4 oz CWM	1 None Required	Lead by 6010B	N	
WPP0022	IPR-217-WP19-WP-WPP0022-REG	15-APR-99	13:20	4 oz CWM	1 None Required	Lead by 6010B	N	
WPP0023	IPR-217-WP20-WP-WPP0023-REG	15-APR-99	13:22	4 oz CWM	1 None Required	Lead by 6010B	N	
WPP0024	IPR-217-WP21-WP-WPP0024-REG	15-APR-99	13:25	4 oz CWM	1 None Required	Lead by 6010B	N	
WPP0025	IPR-217-WP22-WP-WPP0025-REG	15-APR-99	13:29	4 oz CWM	1 None Required	Lead by 6010B	N	
WPP0026	IPR-217-WP23-WP-WPP0026-REG	15-APR-99	13:43	4 oz CWM	1 None Required	Lead by 6010B	N	
WPP0027	IPR-217-WP24-WP-WPP0027-REG	15-APR-99	13:50	4 oz CWM	1 None Required	Lead by 6010B	N	

0499-032



a unit of **assay technology**

Laboratory Report  
(Wipe Sampling)

*The Innovation & Value Leader  
in Occupational Hygiene Analysis*

Pricing & Services: (800) 833-1258 • Technical Support: (800) 833-2003 • FAX: (650) 424-0336

Client # 10493-03  
Customer: Quanterra  
Attention: John Reynolds  
Address: 5815 Middlebrook Pk

Batch Number: 0699-027  
Date Received: 06/15/99  
Date Reported: 09/02/99  
Reported By: S. Lauderbaugh

City: Knoxville  
State: TN  
Zip Code: 37921

Lab ID #	Customer Sample #	Date Sampled	Chemical Analyzed	Quantity				Analytical Method
				Quantity Found	Units	Detection Limit	Detection Limit Units	
905050	WPP0017R	06/09/1999	lead	9.00	ug	2.0	ug	OSHA ID 121
905051	WPP0025R	06/09/1999	lead	53.8	ug	2.0	ug	OSHA ID 121
905052	WPP0022R	06/09/1999	lead	18.6	ug	2.0	ug	OSHA ID 121
905053	WPP0018R	06/09/1999	lead	120	ug	2.0	ug	OSHA ID 121
905054	WPP0026R	06/09/1999	lead	104	ug	2.0	ug	OSHA ID 121
905055	WPP0013R	06/09/1999	lead	58.6	ug	2.0	ug	OSHA ID 121
905056	WPP0005R	06/09/1999	lead	11.6	ug	2.0	ug	OSHA ID 121
905057	WPP0006R	06/09/1999	lead	10.2	ug	2.0	ug	OSHA ID 121
905058	WPP0008R	06/09/1999	lead	18.8	ug	2.0	ug	OSHA ID 121
905059	WPP0011R	06/09/1999	lead	12.8	ug	2.0	ug	OSHA ID 121
905060	WPP0012R	06/09/1999	lead	23.6	ug	2.0	ug	OSHA ID 121
905061	WP0025R	06/09/1999	lead	29.6	ug	2.0	ug	OSHA ID 121
905062	WP0026R	06/09/1999	lead	25.0	ug	2.0	ug	OSHA ID 121
905063	WP0027R	06/09/1999	lead	12.2	ug	2.0	ug	OSHA ID 121
905064	BLANK ADDED BY LAB	06/09/1999	lead	5.80	ug	2.0	ug	OSHA ID 121

\*THIS IS A REVISED REPORT.

ND = None Detected, Less Than Analytical Detection Limit  
< = Less Than Result

Reviewed by Kathy Taylor  
Accredited by The American Industrial Hygiene Association



INTERNATIONAL  
TECHNOLOGY  
CORPORATION

0699-027

**ANALYSIS REQUEST AND  
CHAIN OF CUSTODY RECORD\***

See UCN # 10493-03 / Beverly  
Reference Document No. 1164

Page 1 of 2

ATTN: John Reynolds / QUANTERA 423-690-3211

Project Name/No. 1 Fe/PC/16-774645 Samples Shipment Date 7 06/09/99  
 Sample Team Members 2 J. Brown Lab Destination 8 Quantera/Novi, MI  
 Profit Center No. 3 NA Lab Contact 9 John Reynolds  
 Project Manager 4 NA Project Contact/Phone 12 Randy McBride 423-690-3211  
 Purchase Order No. 6 IP12-060999-QSK Carrier/Waybill No. 13 IT Personnel Jason Brown  
 Required Report Date 11 NORMAL Report to: 10 Dano Nielsen 37921

**ONE CONTAINER PER LINE**

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
WPP0017R	Lead-Wipe	06/09/99 1350	Horz cwm	NA	4°C	Lead by 6010B		
WPP0025R		06/09/99 1400					FOR LAB USE ONLY	
WPP0022R		06/09/99 1405						
WPP0018R		06/09/99 1410						
WPP0026R		06/09/99 1415						
WPP0013R		06/09/99 1440						
WPP0005R		06/09/99 1445						
WPP0006R		06/09/99 1450						

Recd. of 20  
Hand Delivered  
6-10-99

Special Instructions: 23 NONE

Possible Hazard Identification: 24  
 Non-hazard  Flammable  Skin Irritant  Poison B  Unknown   
 Sample Disposal: 25  
 Return to Client  Disposal by Lab  Archive (mos.)

Turnaround Time Required: 26  
 Normal  Rush   
 QC Level: 27  
 I.  II.  III.  Project Specific (specify): As per QAPP

1. Relinquished by 28 (Signature/Affiliation) <u>IT Group</u>	Date: <u>06/10/99</u> Time: <u>0840</u>	1. Received by 28 (Signature/Affiliation) <u>Justin White</u>	Date: <u>6-10-99</u> Time: <u>08:40</u>
2. Relinquished by (Signature/Affiliation) <u>David D. Flou</u>	Date: <u>6-10-99</u> Time: <u>1730</u>	2. Received by (Signature/Affiliation) <u>Omadahi / AT Labs</u>	Date: <u>6/11/99</u> Time: <u>11:30 AM</u>
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation) <u>D. Poniger</u>	Date: <u>6-15-99</u> Time:

Comments: 29 some samples received with H<sub>2</sub>O in the bag - OK / MP 6/14/99



0699-021

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD \*

Reference Document 477849

Page 1 of 2

Project Name/No. 1 Fe McClellan

Samples Shipment Date 7 06/09/99

Bill to: 5 Duane Nielsen 423.690.321  
312 Directors Drive  
Knoxville

Sample Team Members 2 J. Brown

Lab Destination 8 Quanterra Knoxville

Profit Center No. 3 NA

Lab Contact 9 John Reynolds

Project Manager 4 N/A

Project Contact/Phone 12 Randy McBride 423-690-321

Report to: 10 Duane Nielsen

Chain of Custody  
Purchase Order No. 16 ITR-060999-OSK

Carrier/Waybill No. 13 IT Personnel  
Jason Brown

Required Report Date 11 NORMAL

## ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
WPP000812	Lead Wipes	06/09/99 1455	1/2 LWM	NA	4°C	Lead by 6010B	FOR LABS USE ONLY  Recd at AT Hand delivered JW 6-10-99	
WPP001112		06/09/99 1500						
WPP001212		06/09/99 1505						
WPP002512		06/09/99 1510						
WPP002612		06/09/99 1513						
WPP002712		06/09/99 1516						

Special Instructions: 23 NONE

Possible Hazard Identification: 24  
Non-hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal: 25  
Return to Client  Disposal by Lab  Archive (mos.)

Turnaround Time Required: 26  
Normal  Rush

QC Level: 27  
 I  II  III Project Specific (specify): A per QAPP

1. Relinquished by 28  
(Signature/Affiliation) [Signature] Date: 06/10/99 Time: 0840

1. Received by 28  
(Signature/Affiliation) [Signature] Date: 6-10-99 Time: 8:40

2. Relinquished by  
(Signature/Affiliation) David D. Flores Date: 6-10-99 Time: 1730

2. Received by  
(Signature/Affiliation) Umadali / AT labs Date: 6/11/99 Time: 11:30 AM

3. Relinquished by  
(Signature/Affiliation) Date: Time:

3. Received by  
(Signature/Affiliation) D. Bougan Date: 6-5-99 Time:

Comments: 29

***Waste Disposal Samples for TCLP Analysis***

***Quanterra Laboratory***

Quanterra Incorporated  
5815 Middlebrook Pike  
Knoxville, Tennessee 37921

423 588-6401 Telephone  
423 584-4315 Fax

## **ANALYTICAL REPORT**

**PROJECT NO. 774645**

**Ft. McClellan IDW/TCLP**

**Lot #: H9D140227**

**Duane Nielsen**

**IT Corp - Ft. McClellan**

**312 Directors Drive  
Knoxville, TN 37923**

**QUANTERRA INCORPORATED**



**Project Manager**

**May 5, 1999**

**SAMPLE SUMMARY**

H9D140227

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
CTLF9	001	XX0021	04/13/99	15:30

**NOTE (S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**ANALYTICAL METHODS SUMMARY**

H9D140227

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Percent Moisture	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

**References:**

- MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical  
Methods", Third Edition, November 1986 and its updates.

## **PROJECT NARRATIVE**

### **H9D140227**

The results reported herein are applicable to the samples submitted for analysis only.

#### **Sample Receipt**

There were no problems with the condition of the samples received.

#### **Quality Control**

All holding times and QC criteria were met.

#### **Comments**

Per Duane Nielsen of IT Corporation, TCLP metals analyses were added to sample XX0021.

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Quanterra Incorporated, Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Connecticut DPH Cert. #PH-0233, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Georgia EPD by US EPA Region IV, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Ohio EPA VAP #CL0059, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN#, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

IT CORP - FT. MCCLELLAN

Client Sample ID: XX0021

TCLP Metals

Lot-Sample #....: H9D140227-001

Matrix.....: SOLID

Date Sampled....: 04/13/99

Date Received...: 04/14/99

Leach Date.....: 04/29/99

Leach Batch #...: P911904

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
<b>Prep Batch #....: 9123134</b>						
Mercury	ND	0.0020	mg/L	SW846 7470A	05/03/99	CTLF910D
		Dilution Factor: 1				
<b>Prep Batch #....: 9123142</b>						
Arsenic	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CTLF9105
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010B	05/03-05/04/99	CTLF9106
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	05/03-05/04/99	CTLF9107
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CTLF9108
		Dilution Factor: 1				
<b>Lead</b>	<b>487</b>	<b>10.0</b>	<b>mg/L</b>	<b>SW846 6010B</b>	<b>05/03-05/04/99</b>	<b>CTLF9109</b>
		Dilution Factor: 20				
Selenium	ND	0.25	mg/L	SW846 6010B	05/03-05/04/99	CTLF910A
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CTLF910C
		Dilution Factor: 1				

**NOTE (S) :**

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)



IT CORP - FT. MCCLELLAN

Client Sample ID: XX0021

TOTAL Metals

Lot-Sample #...: H9D140227-001

Matrix.....: SOLID

Date Sampled...: 04/13/99

Date Received...: 04/14/99

% Moisture.....: 8.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	9109126					
Lead	1490	1.6	mg/kg	SW846 6010B	04/21-04/22/99	CTLF9101

Dilution Factor: 5

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

**METHOD BLANK REPORT****TOTAL Metals**

Client Lot #....: H9D140227

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
------------------	---------------	----------------------------	--------------	---------------	---------------------------------------	-------------------------

MB Lot-Sample #: H9D190000-126 Prep Batch #....: 9109126

Lead	ND	0.30	mg/kg	SW846 6010B	04/21-04/22/99	CTQFA101
------	----	------	-------	-------------	----------------	----------

Dilution Factor: 1

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**METHOD BLANK REPORT**

**TCLP Metals**

Client Lot #....: H9D140227

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MB Lot-Sample #: H9D290000-155 Prep Batch #....: 9123142</b>						
<b>Leach Date.....: 04/29/99 Leach Batch #...: P911904</b>						
Arsenic	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV72L101
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010B	05/03-05/04/99	CV72L102
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	05/03-05/04/99	CV72L103
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV72L104
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV72L105
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010B	05/03-05/04/99	CV72L106
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV72L107
		Dilution Factor: 1				
<b>MB Lot-Sample #: H9D290000-155 Prep Batch #....: 9123134</b>						
<b>Leach Date.....: 04/29/99 Leach Batch #...: P911904</b>						
Mercury	ND	0.0020	mg/L	SW846 7470A	05/03/99	CV72L108
		Dilution Factor: 1				

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #....: H9D140227

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
------------------	-------------------------------	----------------------------------	--------------	--------------------------------	---------------	---	-------------------------------

LCS Lot-Sample#: H9D190000-126 Prep Batch #....: 9109126

Lead 50.0 49.7 mg/kg 99 SW846 6010B

04/21-04/22/99 CTQFA102

Dilution Factor: 1

**NOTE(S) :**

---

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: H9D140227

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
------------------	-----------------------------------	----------------------------------	---------------	---	---------------------

LCS Lot-Sample#: H9D190000-126 Prep Batch #....: 9109126

Lead 99 (80 - 120) SW846 6010B 04/21-04/22/99 CTQFA102

Dilution Factor: 1

**NOTE(S) :**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #....: H9D140227

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H9E030000-134 Prep Batch #....: 9123134							
Mercury	0.00500	0.00489	mg/L	98	SW846 7470A	05/03/99	CVAW9101
							Dilution Factor: 1
LCS Lot-Sample#: H9E030000-142 Prep Batch #....: 9123142							
Arsenic	5.00	5.43	mg/L	109	SW846 6010B	05/03-05/04/99	CVAWM101
							Dilution Factor: 1
Barium	50.0	51.0	mg/L	102	SW846 6010B	05/03-05/04/99	CVAWM102
							Dilution Factor: 1
Cadmium	1.00	1.02	mg/L	102	SW846 6010B	05/03-05/04/99	CVAWM103
							Dilution Factor: 1
Chromium	5.00	5.18	mg/L	104	SW846 6010B	05/03-05/04/99	CVAWM104
							Dilution Factor: 1
Lead	5.00	5.18	mg/L	104	SW846 6010B	05/03-05/04/99	CVAWM105
							Dilution Factor: 1
Selenium	1.00	1.12	mg/L	112	SW846 6010B	05/03-05/04/99	CVAWM106
							Dilution Factor: 1
Silver	1.00	1.04	mg/L	104	SW846 6010B	05/03-05/04/99	CVAWM107
							Dilution Factor: 1

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TCLP Metals**

Client Lot #....: H9D140227

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>LCS Lot-Sample#:</b> H9E030000-134 <b>Prep Batch #....:</b> 9123134					
Mercury	98	(80 - 120)	SW846 7470A	05/03/99	CVAW9101
		Dilution Factor: 1			
<b>LCS Lot-Sample#:</b> H9E030000-142 <b>Prep Batch #....:</b> 9123142					
Arsenic	109	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM101
		Dilution Factor: 1			
Barium	102	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM102
		Dilution Factor: 1			
Cadmium	102	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM103
		Dilution Factor: 1			
Chromium	104	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM104
		Dilution Factor: 1			
Lead	104	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM105
		Dilution Factor: 1			
Selenium	112	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM106
		Dilution Factor: 1			
Silver	104	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM107
		Dilution Factor: 1			

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

H9D1 227



# INTERNATIONAL TECHNOLOGY CORPORATION

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: IDW-041399-QSK

Page 1 of 1

Project Number: 774645

Samples Shipment Date: 14-APR-99

Bill To: Duane Nielsen

312 Directors Drive

Knoxville

TN 37923

Project Name: Fort McClellan

Lab Destination: Quanterra Environmental Services • Knoxville

Sample Coordinator: John W. Andrew

Lab Contact: John Reynolds

Report To: Duane Nielsen

312 Directors Drive

Knoxville

TN 37923

Turnaround Time: **10 DAY**

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/ Courier

Special Instructions: 10 DAY TURNAROUND, LEAD ONLY

### Possible Hazard Identification:

Non-hazard  Flammable  Skin Irritant  Poison B  Unknown

### Sample Disposal:

Return to Client  Disposal by Lab  Archive (mos.)

1. Relinquished By (Signature/Affiliation) *[Signature]* Date: 04/14/99 Time: 08:00

1. Received By (Signature/Affiliation) *[Signature]* Date: 4-14-99 Time: 08:00

2. Relinquished By (Signature/Affiliation) *[Signature]* Date: 4-14-99 Time: 13:20

2. Received By (Signature/Affiliation) *[Signature]* Date: 4/14/99 Time: 13:20

3. Relinquished By (Signature/Affiliation) Date: Time:

3. Received By (Signature/Affiliation) Date: Time:

Comments: 10 DAY TURNAROUND, LEAD ONLY

*Recd at 3°C  
Custody Seals Intact  
JW 4-14-99*

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	Condition On Receipt
XX0021	DWROLL-IDWW-XX0021-REG	13-APR-99	15:30	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils	N	



5815 Middlebrook Pike  
Knoxville, Tennessee 37921  
(423) 588-6401

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD\*

Reference Document No. 5902  
Page 1 of \_\_\_

Project Name/No. 1 IT / FT McCLELLAN  
 Sample Team Members 2 \_\_\_\_\_  
 Profit Center No. 3 140  
 Project Manager 4 JOHN REYNOLDS  
 Purchase Order No. 6 \_\_\_\_\_  
 Required Report Date 11 ASAP

Samples Shipment Date 7 4-16-99  
 Lab Destination 8 NICHOLS LAB  
 Lab Contact 9 \_\_\_\_\_  
 Project Contact/Phone 12 \_\_\_\_\_  
 Carrier/Waybill No. 13 PICKUP

Bill to: 5 QUANTERRA KNOXVILLE  
JOHN REYNOLDS  
 Report to: 10 \_\_\_\_\_

## ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
XX0021	WOOD	4-13-99 15:30	GLASS	250ml	NA	CRUSHING	FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	

Special Instructions: 23 \_\_\_\_\_  
 Possible Hazard Identification: 24  
 Non-hazard  Flammable  Skin Irritant  Poison B  Unknown   
 Sample Disposal: 25  
 Return to Client  Disposal by Lab  Archive (mos.)

Turnaround Time Required: 26  
 Normal  Rush   
 QC Level: 27  
 I.  II.  III.  Project Specific (specify):

1. Relinquished by 28 (Signature/Affiliation) <u>[Signature]</u>	Date: <u>4-16-99</u> Time: <u>09:30</u>	1. Received by 28 (Signature/Affiliation) <u>[Signature]</u>	Date: <u>4-16-99</u> Time: <u>09:30</u>
2. Relinquished by (Signature/Affiliation) <u>[Signature]</u>	Date: <u>4-20-99</u> Time: <u>10:08</u>	2. Received by (Signature/Affiliation) <u>[Signature]</u>	Date: <u>4-20-99</u> Time: <u>10:08</u>
3. Relinquished by (Signature/Affiliation) _____	Date: _____ Time: _____	3. Received by (Signature/Affiliation) _____	Date: _____ Time: _____

Comments: 29 \_\_\_\_\_

White: To accompany samples  
Yellow: Field copy

Quanterra Incorporated  
5815 Middlebrook Pike  
Knoxville, Tennessee 37921

423 588-6401 Telephone  
423 584-4315 Fax

## **ANALYTICAL REPORT**

**PROJECT NO. 774645**

**Ft. McClellan IDW**

**Lot #: H9D060106**

**Duane Nielsen**

**IT Corp - Ft. McClellan**

**312 Directors Drive  
Knoxville, TN 37923**

**QUANTERRA INCORPORATED**



**Project Manager**

**April 14, 1999**

**SAMPLE SUMMARY**

H9D060106

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
CTADQ	001	XX0019	04/02/99	10:20

**NOTE(S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**ANALYTICAL METHODS SUMMARY**

H9D060106

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Percent Moisture	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

**References:**

- MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical  
Methods", Third Edition, November 1986 and its updates.

## PROJECT NARRATIVE

The results reported herein are applicable to the samples submitted for analysis only.

### Sample Receipt

There were no problems with the condition of the samples received.

### Quality Control

All holding times and QC criteria were met.

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Quanterra Incorporated, Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Connecticut DPH Cert. #PH-0233, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Georgia EPD by US EPA Region IV, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Ohio EPA VAP #CL0059, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN#, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

IT CORP - FT. MCCLELLAN

Client Sample ID: XX0019

## TOTAL Metals

Lot-Sample #....: H9D060106-001

Matrix.....: SOLID

Date Sampled...: 04/02/99

Date Received...: 04/03/99

% Moisture.....: 0.20

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 9099129						
Lead	15800	6.0	mg/kg	SW846 6010B	04/09-04/12/99	CTADQ101
		Dilution Factor: 20		Analysis Time...: 13:23	MDL.....: 0.16	

**NOTE(S) :**

Results and reporting limits have been adjusted for dry weight.

## METHOD BLANK REPORT

## TOTAL Metals

Client Lot #...: H9D060106

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
MB Lot-Sample #:	H9D090000-129	Prep Batch #...	9099129			
Lead	ND	0.30	mg/kg	SW846 6010B	04/09-04/12/99	CTF9M101
		Dilution Factor:	1			
		Analysis Time..:	12:22			

**NOTE(S) :**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: H9D060106

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
------------------	-------------------------------	----------------------------------	--------------	--------------------------------	---------------	---	-------------------------------

LCS Lot-Sample#: H9D090000-129 Prep Batch #...: 9099129

Lead 50.0 46.8 mg/kg 94 SW846 6010B

04/09-04/12/99 CTF9M102

Dilution Factor: 1

Analysis Time...: 12:27

**NOTE(S) :**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: H9D060106

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
------------------	-----------------------------	----------------------------	---------------	---------------------------------------	---------------------

LCS Lot-Sample#: H9D090000-129 Prep Batch #...: 9099129

Lead 94 (80 - 120) SW846 6010B 04/09-04/12/99 CTF9M102

Dilution Factor: 1

Analysis Time...: 12:27

**NOTE(S) :**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

# QUANTERRA KNOXVILLE LABORATORY

## SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: ITKMC PROJECT: FTMC Lot No.: HSD060106

### TO BE COMPETED BY PROJECT MANAGER:

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Client Documents (Request for Analysis/Chain of Custody):          | YES                                 | NO                                  | NA                                  |
| a. Was QuanTMS lot number documented on all paperwork?                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| b. Was RFA/COC signed upon receipt, including date/time?              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c. Is preservative check (pH) noted on RFA/COC?                       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| d. Is cooler temperature & custody seal condition noted on COC?       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
|   |                                     |                                     |                                     |
| 2. Log-in (Lot Folder) Review:  | YES                                 | NO                                  | NA                                  |
| a. Do client IDs on Client Summaries match RFA/COC?                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| b. Were tests/parameters assigned correctly?                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| c. Were correct analytical and report due dates assigned?             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| d. Has the correct fax due date been assigned to the lot?             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| e. Is the correct report format noted in the lot summary?             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| f. Is percent moisture logged for samples requiring this analysis?    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| g. Are client assigned QC samples properly defined?                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|   |                                     |                                     |                                     |
| 3. Contract/Subcontract Review:                                       | YES                                 | NO                                  | NA                                  |
| a. Is there a contract number or PO for this work?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| b. If the purchase order number is given, is it noted in Lot header?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| c. If samples were subcontracted, was copy of COC in folder?          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|   |                                     |                                     |                                     |
| 4. SDG Review:  | YES                                 | NO                                  | NA                                  |
| a. If SDG is required, is SDG form in Lot folder?                     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| b. Is SDG number noted in Lot header & sample comments?               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c. If SDG is complete, has the due date been revised & marked closed? | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|   |                                     |                                     |                                     |
| 5. Checklist Review:  | YES                                 | NO                                  | NA                                  |
| a. Has Sample Receipt Checklist been filled-out?                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| b. Was there a CUR?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| c. Were all issues resolved?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

LOT FOLDER REVIEWED BY: \_\_\_\_\_ DATE: 6/6/98

H9D060106



**INTERNATIONAL  
TECHNOLOGY  
CORPORATION**

**ANALYSIS REQUEST AND  
CHAIN OF CUSTODY RECORD**

Reference Document No: IDW-040299-QSK  
Page 1 of 1

Project Number: 774645

Samples Shipment Date: 02-APR-99

Bill To: Duane Nielsen  
312 Directors Drive  
Knoxville TN 37923

Project Name: Fort McClellan

Lab Destination: Quanterra Environmental Services - Knoxville

Sample Coordinator: John W. Andrew

Lab Contact: John Reynolds

Report To: Duane Nielsen  
312 Directors Drive  
Knoxville TN 37923

Turnaround Time: *Normal*

Project Contact: Randy McBride

Carrier/Waybill No.: IT PERSONNEL/ Mike Henderson

Special Instructions: FAX results to J Andrew at 256-848-3551

**Possible Hazard Identification:**

Non-hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal:**

Return to Client  Disposal by Lab  Archive (mos.)

1. Relinquished By *[Signature]* Date: *4/2/99*  
(Signature/Affiliation) *ITCOP* Time: *1700*

1. Received By *[Signature]* Date: *4/2/99*  
(Signature/Affiliation) *ITCOP* Time: *1700*

2. Relinquished By *[Signature]* Date: *4/3/99*  
(Signature/Affiliation) *ITCOP* Time: *0945*

2. Received By *[Signature]* Date: *4-3-99*  
(Signature/Affiliation) *Benjamin K. Dammann* Time: *09:45*

3. Relinquished By *[Signature]* Date: *4-5-99*  
(Signature/Affiliation) *Benjamin K. Dammann* Time: *15:00*

3. Received By  
(Signature/Affiliation) Time:

Comments: 10 day TAT

*Lead analysis only for sample # XX0019*

*custody needs intact  
revised at 4°C  
4/13/99*

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	FI	CID	Condition On Receipt
XX0019	IDWROLL-IDWS-XX0019-REG	02-APR-99	10:20	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils	N		
XX0020	CONC-SUMP-IDWWW-XX0020-REG	02-APR-99	09:00	40 ml VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
XX0020	CONC-SUMP-IDWWW-XX0020-REG	02-APR-99	09:00	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
XX0020	CONC-SUMP-IDWWW-XX0020-REG	02-APR-99	09:00	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		

Quanterra Incorporated  
5815 Middlebrook Pike  
Knoxville, Tennessee 37921

423 588-6401 Telephone  
423 584-4315 Fax

## ANALYTICAL REPORT

PROJECT NO. 774645

Ft. McClellan IDW/TCLP

Lot #: H9D280118

Duane Nielsen

IT Corp - Ft. McClellan

312 Directors Drive  
Knoxville, TN 37923

QUANTERRA INCORPORATED



Project Manager

May 5, 1999

**SAMPLE SUMMARY**

H9D280118

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
CV5PJ	001	XX0019	04/02/99	10:2

**NOTE (S) :**

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# ANALYTICAL METHODS SUMMARY

H9D280118

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.



**PROJECT NARRATIVE**  
**H9D280118**

The results reported herein are applicable to the samples submitted for analysis only.

**Sample Receipt**

There were no problems with the condition of the samples received.

**Quality Control**

All holding times and QC criteria were met.

**Comments**

Per Duane Nielsen of IT Corporation, TCLP metals analyses were added to sample XX0019 (originally processed as LOT H9D060106).

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Quanterra Incorporated, Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Connecticut DPH Cert. #PH-0233, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Georgia EPD by US EPA Region IV, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Ohio EPA VAP #CL0059, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN#, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.



# EXECUTIVE SUMMARY - Detection Highlights

H9D280118

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
XX0019 04/02/99 10:20 001				
Lead - TCLP	282	10.0	mg/L	SW846 6010B

IT CORP - FT. MCCLELLAN

Client Sample ID: XX0019

TCLP Metals

Lot-Sample #...: H9D280118-001

Matrix.....: SOLID

Date Sampled...: 04/02/99

Date Received...: 04/03/99

Leach Date.....: 04/29/99

Leach Batch #...: P911904

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9123134						
Mercury	ND	0.0020	mg/L	SW846 7470A	05/03/99	CV5PJ108
		Dilution Factor: 1				
Prep Batch #...: 9123142						
Arsenic	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV5PJ101
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010B	05/03-05/04/99	CV5PJ102
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	05/03-05/04/99	CV5PJ103
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV5PJ104
		Dilution Factor: 1				
Lead	282	10.0	mg/L	SW846 6010B	05/03-05/04/99	CV5PJ105
		Dilution Factor: 20				
Selenium	ND	0.25	mg/L	SW846 6010B	05/03-05/04/99	CV5PJ106
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV5PJ107
		Dilution Factor: 1				

**NOTE (S) :**

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

**METHOD BLANK REPORT**

**TCLP Metals**

Client Lot #...: H9D280118

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MB Lot-Sample #: H9D290000-155    Prep Batch #...: 9123142</b> <b>Leach Date.....: 04/29/99        Leach Batch #...: P911904</b>						
Arsenic	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV72L101
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010B	05/03-05/04/99	CV72L102
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	05/03-05/04/99	CV72L103
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV72L104
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV72L105
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010B	05/03-05/04/99	CV72L106
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	05/03-05/04/99	CV72L107
		Dilution Factor: 1				

<b>MB Lot-Sample #: H9D290000-155    Prep Batch #...: 9123134</b> <b>Leach Date.....: 04/29/99        Leach Batch #...: P911904</b>						
Mercury	ND	0.0020	mg/L	SW846 7470A	05/03/99	CV72L108
		Dilution Factor: 1				

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TCLP Metals**

**Client Lot #....: H9D280118**

**Matrix.....: SOLID**

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>LCS Lot-Sample#: H9E030000-134 Prep Batch #....: 9123134</b>							
Mercury	0.00500	0.00489	mg/L	98	SW846 7470A	05/03/99	CVAW9101
		Dilution Factor: 1					
<b>LCS Lot-Sample#: H9E030000-142 Prep Batch #....: 9123142</b>							
Arsenic	5.00	5.43	mg/L	109	SW846 6010B	05/03-05/04/99	CVAWM101
		Dilution Factor: 1					
Barium	50.0	51.0	mg/L	102	SW846 6010B	05/03-05/04/99	CVAWM102
		Dilution Factor: 1					
Cadmium	1.00	1.02	mg/L	102	SW846 6010B	05/03-05/04/99	CVAWM103
		Dilution Factor: 1					
Chromium	5.00	5.18	mg/L	104	SW846 6010B	05/03-05/04/99	CVAWM104
		Dilution Factor: 1					
Lead	5.00	5.18	mg/L	104	SW846 6010B	05/03-05/04/99	CVAWM105
		Dilution Factor: 1					
Selenium	1.00	1.12	mg/L	112	SW846 6010B	05/03-05/04/99	CVAWM106
		Dilution Factor: 1					
Silver	1.00	1.04	mg/L	104	SW846 6010B	05/03-05/04/99	CVAWM107
		Dilution Factor: 1					

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TCLP Metals**

**Client Lot #....: H9D280118**

**Matrix.....: SOLID**

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>LCS Lot-Sample#: H9E030000-134 Prep Batch #....: 9123134</b>					
Mercury	98	(80 - 120)	SW846 7470A	05/03/99	CVAW9101
		Dilution Factor: 1			
<b>LCS Lot-Sample#: H9E030000-142 Prep Batch #....: 9123142</b>					
Arsenic	109	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM101
		Dilution Factor: 1			
Barium	102	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM102
		Dilution Factor: 1			
Cadmium	102	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM103
		Dilution Factor: 1			
Chromium	104	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM104
		Dilution Factor: 1			
Lead	104	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM105
		Dilution Factor: 1			
Selenium	112	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM106
		Dilution Factor: 1			
Silver	104	(80 - 120)	SW846 6010B	05/03-05/04/99	CVAWM107
		Dilution Factor: 1			

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.



**INTERNATIONAL  
TECHNOLOGY  
CORPORATION**

**ANALYSIS REQUEST AND  
CHAIN OF CUSTODY RECORD**

Reference Document No: IDW-040299-QSK  
Page 1 of 1

Project Number: 774645

Samples Shipment Date: 02-APR-99

Bill To: Duane Nielsen  
312 Directors Drive  
Knoxville TN 37923

Project Name: Fort McClellan

Lab Destination: Quanterra Environmental Services - Knoxville

Report To: Duane Nielsen  
312 Directors Drive  
Knoxville TN 37923

Sample Coordinator: John W. Andrew

Lab Contact: John Reynolds

Turnaround Time: *Normal*

Project Contact: Randy McBride

Carrier/Waybill No.: IT PERSONNEL/ Mike Henderson

Special Instructions: FAX results to J Andrew at 256-848-3551

**Possible Hazard Identification:**

Non-hazard  Flammable  Skin Irritant  Poison B  Unknown

1. Relinquished By *[Signature]* ITCorp Date: *4/2/99*  
(Signature/Affiliation) Time: *1700*

2. Relinquished By *[Signature]* ITCorp Date: *4/3/99*  
(Signature/Affiliation) Time: *0945*

3. Relinquished By *[Signature]* ITCorp Date: *4-3-99*  
(Signature/Affiliation) Time: *15:00*

**Sample Disposal:**

Return to Client  Disposal by Lab  Archive (mos.)

1. Received By *[Signature]* ITCorp Date: *4/2/99*  
(Signature/Affiliation) Time: *1700*

2. Received By *[Signature]* ITCorp Date: *4-3-99*  
(Signature/Affiliation) Time: *09:45*

3. Received By *[Signature]* ITCorp Date: \_\_\_\_\_  
(Signature/Affiliation) Time: \_\_\_\_\_

Comments: 10 day TAT

*Lead analysis only for sample # XX0019*

*Custody seals intact  
stored at 4°C  
04/13/99*

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	FII CID	Condition On Receipt
XX0019	IDWROLL-IDWS-XX0019-REG	02-APR-99	10:20	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils	N	
XX0020	CONC-SUMP-IDWW-XX0020-REG	02-APR-99	09:00	40 ml VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N	
XX0020	CONC-SUMP-IDWW-XX0020-REG	02-APR-99	09:00	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N	
XX0020	CONC-SUMP-IDWW-XX0020-REG	02-APR-99	09:00	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N	

SOL1

**QUANTERRA KNOXVILLE LABORATORY**  
**SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST**

Page 1 of \_\_\_\_\_

CLIENT: ITKNY PROJECT: FTMC Lot No.: 49025018

**TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:**

- |  |     |    |    |
|--|-----|----|----|
|  | YES | NO | NA |
| 1. Sample Receipt:   |     |    |    |
| a. Do sample container labels match COC? (IDs, Dates, Times)           | ✓   | —  | —  |
| b. Is the cooler temperature within acceptance limits?                 | ✓   | —  | —  |
| c. Were samples received with correct preservative (excluding Encore)? | ✓   | —  | —  |
| d. Were custody seals present/intact on cooler and/or containers?      | ✓   | —  | —  |
| e. Were all of the samples listed on the COC received?                 | ✓   | —  | —  |
| f. Were all of the sample containers received intact?                  | ✓   | —  | —  |
| g. Were containers received for VOAs received without headspace?       | ✓   | —  | —  |
| h. Were samples received in the appropriate containers?                | ✓   | —  | —  |
| i. Did you check for residual chlorine, if necessary?                  | —   | —  | —  |
| j. Were samples received within 1/2 of the (QAMP) holding time?        | ✓   | —  | —  |
| k. Were samples screened for radioactivity?                            | —   | —  | —  |
| l. Were client's sample documents (RFA/COC) received?                  | —   | —  | —  |
| m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)           | —   | —  | —  |
| n. Are test/parameters listed for each sample?                         | —   | —  | —  |
| o. Is the matrix of the samples noted?                                 | —   | —  | —  |
| p. Is the date/time of sample collection noted?                        | —   | —  | —  |
| q. Is the client and project name/No. identified?                      | —   | —  | —  |

SAMPLE RECEIVING ASSOCIATE: BKD DATE: 4/20/99

**TO BE COMPLETED BY PROJECT MANAGER :**

- |   |     |    |    |
|---|-----|----|----|
|   | YES | NO | NA |
| 1. Project manager "Sample Greet":  |     |    |    |
| a. Quote number to be logged-in under <u>27254</u>  | —   | —  | —  |
| b. Informed Login associates of special instructions?<br><u>log for TELP metals (ICP+Hg)</u><br><u>* FAX DUE 5/4/99</u> | ✓   | —  | —  |
| 2. If custody seals were missing/not intact, was client notified?   | —   | —  | —  |

PROJECT MANAGER : [Signature] DATE: 4/28/99

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

- Client informed on \_\_\_\_\_ by \_\_\_\_\_ . Person contacted: \_\_\_\_\_
  - Noted actions in comments section above.
  - No action necessary; process as is.
- Project Manager: \_\_\_\_\_ Date: \_\_\_\_\_



**APPENDIX E**

**HAZARDOUS WASTE DISPOSAL DOCUMENTATION**

Weight obtained using THE HOWE PATENTED RECORDING BEAM No. C-60

From ITX To Shorty's (Ala.)

FORM 7A  
 19100  
 13070  
 6080

Gross Load of Scrap

Tare Driver  ON  OFF

Fees Date 4-14 199 9

Net Weigher RW

Printed in U.S.A.

**SHORTY'S TRUCK & RAILROAD CAR PARTS, INC.**

7744 Al Hwy 144  
 Alexandria, Alabama 36250

009360

PAY TO THE ORDER OF

ITX Corp

one hundred twenty-one dollars & 00/100 DOLLARS

**AM SOUTH BANK**  
 THE RELATIONSHIP PEOPLE®

Shorty's Alexandria Yard  
*[Signature]*

⑈009360⑈ ⑈062000019⑈ 04651468⑈

WEIGHT	PRICE	DESCRIPTION	AMOUNT
<u>6080</u>	<u>2.00 kd</u>	<u>Scrap</u>	<u>121.60</u>

009360



# LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste Treatment Plant  
(Stabilization and Treatment)  
49350 N. I-94 Service Drive  
Belleville, MI 48111  
EPA ID # MID 000 724 831

Wayne Disposal, Inc.  
Subtitle C Landfill  
(Secure Hazardous Waste Landfill)  
49350 N. I-94 Service Drive  
Belleville, MI 48111  
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc.  
(Solvent Recycling, Fuel Blending & Wastewater Treatment)  
36345 Van Born Road  
Romulus, MI 48174  
EPA ID # MID 060 975 844

Generator Name Ft. McClellan Generator USEPA ID No. AL4 210 070 562  
 Generator Address BCOG 1411A 13th Ave Ft. McClellan MI 36205  
 State Manifest No. 79166.57 Manifest Doc. No. 9900BY

### INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris waste...
11.A	D008	<input checked="" type="checkbox"/> NWW <input type="checkbox"/> WW	None	<input checked="" type="radio"/> A B C D E F G H I J K L M S	None
11.B		<input type="checkbox"/> NWW <input type="checkbox"/> WW		A B C D E F G H I J K L M S	
11.C		<input type="checkbox"/> NWW <input type="checkbox"/> WW		A B C D E F G H I J K L M S	
11.D		<input type="checkbox"/> NWW <input type="checkbox"/> WW		A B C D E F G H I J K L M S	

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature Waymon L. Pence Title Env. Tech.  
 Printed Name Waymon L. Pence Date 15 Jul 99

### HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A  
(CIRCLE ONE)  
CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STAND  
(CIRCLE ONE)  
AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification,



**WASTE MANAGEMENT DIVISION  
MICHIGAN DEPARTMENT OF  
ENVIRONMENTAL QUALITY**

**DO NOT WRITE IN THIS SPACE**

ATT.  DIS.  REJ.  PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039

Please print or type.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. AL42100205E2	Manifest Document No. 99003	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>Ft. McClellan</b> WAYMON PENCE (POC) 141A 13TH AVE FT McCELLON, AL 36205				A. State Manifest Document Number MI 7916657		
4. Generator's Phone (256) 848-8873				B. State Generator's ID		
5. Transporter 1 Company Name ROBBIE D WOOD				C. State Transporter's ID		
6. US EPA ID Number AL0067136891				D. Transporter's Phone 800 356-7497		
7. Transporter 2 Company Name				E. State Transporter's ID		
8. US EPA ID Number				F. Transporter's Phone		
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL WASTE TREATMENT PLANT 49350 NORTH 184 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111				G. State Facility ID		
10. US EPA ID Number MI000724831				H. Facility Phone 734-697-2200		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	E. Waste No.	
a. <input checked="" type="checkbox"/> <b>RD, HAZARDOUS WASTE, SOLID, N.O.S., S, NA 3077, PGIII (LEAD)</b>		001	11.8	T	D005	
b. <input type="checkbox"/>						
c. <input type="checkbox"/>						
d. <input type="checkbox"/>						
Additional Descriptions for Materials Listed Above					K. Handling Codes for Wastes Listed Above	
APPROVALS: 052499MX ERG 171 PO3-115036 TRACKING #774545-186					A. B. C. D.	
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT: LARRY BRAYMAN 256/848-3499 OR <sup>(256)</sup> 848-1117						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me at the time that I can afford.						
Printed/Typed Name <b>Waymon L. Pence</b>				Signature <i>Waymon L. Pence</i>		Date Month Day Year 07/15/99
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Anthony D. Horton</i>		Date Month Day Year 07/15/99
Printed/Typed Name <b>Anthony D. Horton</b>				Signature		Date
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date
Printed/Typed Name				Signature		Date
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name <b>Dwane Jones</b>				Signature <i>Dwane Jones</i>		Date Month Day Year 07/16/99

AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9807 24 HOURS PER DAY.

GENERATOR FACILITY

COPY

Customer	<u>F. McCallister DDE</u>	Date	<u>15 JUL 99</u>
Weighed at	<u>DAMO</u>	Time	<u>0920</u>
Deliver To	_____		
<b>33600</b>	Gross	Truck No.	_____
<b>10000</b>	Tare	Material	<u>0008 SAND</u>
<u>23,600</u>	Net	Price	_____
		Driver	<u>Cont. Only</u> On <input type="checkbox"/> Off <input checked="" type="checkbox"/>
		Weighed By	<u>Waymond Price</u>

TRT-4 EMERY WINSLOW SCALE COMPANY - 4530 N. 25TH ST. - TERRE HAUTE, IN 47808 812-460-5265

PRINTED IN U.S.A.



**LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98**

Please check the facility you are shipping to:

Michigan Disposal Waste Treatment Plant  
(Stabilization and Treatment)  
49350 N. I-94 Service Drive  
Belleville, MI 48111  
EPA ID # MID 000 724 831

Wayne Disposal, Inc.  
Subtitle C Landfill  
(Secure Hazardous Waste Landfill)  
49350 N. I-94 Service Drive  
Belleville, MI 48111  
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc.  
(Solvent Recycling, Fuel Blending & Wastewater Treatment)  
36345 Van Born Road  
Romulus, MI 48174  
EPA ID # MID 060 975 844

Generator Name Ft. McCollan Generator USEPA ID No. AL4 210 020 5672  
Generator Address 8006 141A 13<sup>th</sup> Ave Ft. McCollan AL 36225  
State Manifest No. 7916656 Manifest Doc. No. 99002

**INSTRUCTIONS**

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

COPY

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D008	<input checked="" type="checkbox"/> NWW <input type="checkbox"/> WW	None	<input checked="" type="radio"/> A B C D E F G H I J K L M S	None
11.B		<input type="checkbox"/> NWW <input type="checkbox"/> WW		A B C D E F G H I J K L M S	
11.C		<input type="checkbox"/> NWW <input type="checkbox"/> WW		A B C D E F G H I J K L M S	
11.D		<input type="checkbox"/> NWW <input type="checkbox"/> WW		A B C D E F G H I J K L M S	

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature Waymond A. Pence Title ENV. Tech.  
Printed Name Waymond L. Pence Date 15 Jul 99

**HOW MUST THE WASTE BE MANAGED?**

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.



**LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98**

Please check the facility you are shipping to:

Michigan Disposal Waste Treatment Plant  
(Stabilization and Treatment)  
49350 N. I-94 Service Drive  
Belleville, MI 48111  
EPA ID # MID 000 724 831

Wayne Disposal, Inc. Subtitle C Landfill  
(Secure Hazardous Waste Landfill)  
49350 N. I-94 Service Drive  
Belleville, MI 48111  
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment)  
36345 Van Born Road  
Romulus, MI 48174  
EPA ID # MID 060 975 844

Generator Name Ft. McClellan Generator USEPA ID No. AL4 210 030 567  
Generator Address Bldg 1411A 13th Ave Ft. McClellan AL 36205  
State Manifest No. 7916655 Manifest Doc. No. 99001

COPY

**INSTRUCTIONS**

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
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- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D008	<input checked="" type="checkbox"/> NWW <input type="checkbox"/> WW	None	<input checked="" type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/> G <input type="radio"/> H <input type="radio"/> I <input type="radio"/> J <input type="radio"/> K <input type="radio"/> L <input type="radio"/> M <input type="radio"/> S	None
11.B		<input type="checkbox"/> NWW <input type="checkbox"/> WW		<input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/> G <input type="radio"/> H <input type="radio"/> I <input type="radio"/> J <input type="radio"/> K <input type="radio"/> L <input type="radio"/> M <input type="radio"/> S	
11.C		<input type="checkbox"/> NWW <input type="checkbox"/> WW		<input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/> G <input type="radio"/> H <input type="radio"/> I <input type="radio"/> J <input type="radio"/> K <input type="radio"/> L <input type="radio"/> M <input type="radio"/> S	
11.D		<input type="checkbox"/> NWW <input type="checkbox"/> WW		<input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/> G <input type="radio"/> H <input type="radio"/> I <input type="radio"/> J <input type="radio"/> K <input type="radio"/> L <input type="radio"/> M <input type="radio"/> S	

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature Waymon L. Pence Title ENV. Tech.  
Printed Name Waymon L. Pence Date 15 Jul 99

**HOW MUST THE WASTE BE MANAGED?**

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARD AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

**WASTE MANAGEMENT DIVISION  
MICHIGAN DEPARTMENT OF  
ENVIRONMENTAL QUALITY**

**DO NOT WRITE IN THIS SPACE**

ATT.  DIS.  REJ.  PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12118 MCL.

Form Approved. OMB No. 2050-0038

Base print or type.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. AL4210020587	Manifest Document No. 99002	2. Page 1 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>Ft. McClellan</b> 255 WAYMON PENCE (poc) 8005 147A 13TH AVE FT McCELLAN, AL 36205 848-6873			A. State Manifest Document Number MI-7916656		B. State Generator's ID	
4. Generator's Phone ( )			C. State Transporter's ID		D. Transporter's Phone	
5. Transporter 1 Company Name ROBBIE D WOOD			6. US EPA ID Number AL006713891		E. State Transporter's ID	
7. Transporter 2 Company Name			8. US EPA ID Number		F. Transporter's Phone	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL WASTE TREATMENT PLANT 49350 NORTH 94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111			10. US EPA ID Number MID000724831		G. State Facility's ID Facility's Phone: 734-697-2200	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM			12. Containers No.	Type	13. Total Quantity	14. Unit M/Vol
a. <input checked="" type="checkbox"/> RR. HAZARDOUS WASTE, SOLID, M.O.S., 3, NA 3077, PGIII (LEAD)			001	CM	20	Y
b. <input type="checkbox"/>						
c. <input type="checkbox"/>						
d. <input type="checkbox"/>						
J. Additional Descriptions for Materials Listed Above: APPROVAL# APPROVAL #06249SEM. ERG-171 POB115036 TRACKING #774645-181					K. Handling Codes for Wastes Listed Above: A: B: C: D:	
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT: LARRY BRADSHAW 202 649 2400						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name <b>Waymon L. Pence</b>			Signature <i>Waymon L. Pence</i>		Date 10/7/15/99	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>Jimmy Bingham</b>			Signature <i>Jimmy Bingham</i>		Date 10/7/15/99	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name			Signature		Date	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					Date	
Printed/Typed Name <b>D. AWE Jones</b>			Signature <i>D. AWE Jones</i>		Date 10/7/16/99	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-424-6802 24 HOURS PER DAY. Y 1-800-292-4708 OR OUT OF STATE AT 617-273-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-6802 24 HOURS PER DAY.



**WASTE MANAGEMENT DIVISION  
MICHIGAN DEPARTMENT OF  
ENVIRONMENTAL QUALITY**

DO NOT WRITE IN THIS SPACE  
ATT.  D.S.  REJ.  PR.

and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.1151 or 324.12116 MCL.

Form Approved OMB No. 2050-0039

Please print or type.

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4766 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9802 24 HOURS PER DAY.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. AL4210020587	Manifest Document No. 99001	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>Ft. McClellan</b> WAYTON PENCE (POC) BLDG 141A 13TH AVE FT MCCLELLAN, AL 36205 848-6873				A. State Manifest Document Number <b>MI 7916655</b>		
4. Generator's Phone (256)				B. State Generator's ID		
5. Transporter 1 Company Name <b>ROBBIE D WOOD</b>		6. US EPA ID Number AL0057138891		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
				E. State Transporter's ID		
				F. Transporter's Phone		
9. Designated Facility Name and Site Address <b>MICHIGAN DISPOSAL WASTE TREATMENT PLANT</b> 49350 NORTH 94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111		10. US EPA ID Number MICH 07/24831		G. State Facility's ID		
				H. Facility's Phone 734-687-2200		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM		12. Containers No.	13. Total Quantity	14. Unit	15. Waste No.	
a. <input checked="" type="checkbox"/> <b>RD, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA 3077, PCIII (LEAD)</b>		001	CM	25	Y	D008
b. <input type="checkbox"/>						
c. <input type="checkbox"/>						
d. <input type="checkbox"/>						
J. Additional Descriptions for Materials Listed Above APPROVAL #02240215 EPC 171 POP 115035 TRACKING 6774549-18						K. Handling Codes for Wastes Listed Above A. B. C. D.
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT: LARRY BRAYMAN 256 848-3499						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name <b>Waymon L. Pence</b>		Signature <i>Waymon L. Pence</i>		Date <b>10/1/99</b>		
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>Jimmy Bingham</i>		Date <b>10/1/99</b>		
Printed/Typed Name <b>Jimmy Bingham</b>		Signature		Date		
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		Date		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name <b>Doris Jones</b>		Signature <i>Doris Jones</i>		Date <b>10/1/99</b>		