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INORGANIC DATA SHEET COVER PAGE

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ecology and environment, inc.
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International Specialists in the Environment

CRL Receipt Date 9/25/90 FIT Receipt Date 10/16/90 Review Completed 10/24/90

TO: D. Sullivan
FROM: C. Kouris
SUBJECT: Woodland Landfill
PAN: ILD935/T (1 hour charged for review) Case # 14751

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
# _____	Low Soil	# 10	Low Soil
_____	Low Water	_____	Low Water
_____	Drinking Water	_____	Drinking Water
_____	Other	_____	Other

Project Data Status _____ Completed!!

X Incomplete, awaiting org Soils & Water

FIT Data Review Findings:
Data was too light to read on some samples so I made a judgement. I am trying to get a darker copy. Check back with me before the report goes to audit. CK.

Check Data Sheets for Transcription Errors

✓ Compounds were detected in sample(s); see enclosed sheet.

Book No. 9 Page No. _____ Date Sampled 8/21/90

0759:2

recycled paper

10/16

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10-12-90

SUBJECT: Review of Region V CLP Data
Received for Review on Sept. 25, 1990

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thakker

10/16

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: WOODLAND LANDFILL (IL) SMO Case No. 14751

EPA Data Set No. _____ No. of Samples: 10 D.U./Activity Numbers 1

CRL No. _____

SMO Traffic No. MELF50-59

CLP Laboratory: YORK /CT Hrs. Required for Review: 7 hrs + ½ and. + JR 10/10/90

Following are our findings.

The laboratory's portion of case 14751 contains 10 low level soil samples assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the data.

((SEE NEXT PAGE))

Jim Digiat

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

LABORATORY: YORK **CASE: 14751**

ICAP ANALYSIS: The duplicate audit for Fe (32.8% RPD) was flagged by the lab based on the criteria for water. The technical criteria for soils (35%) was not exceeded, therefore all Fe results are acceptable.

The duplicate audit for Ni (CRDL) was not flagged by the lab since its duplicate difference is <2X CRDL.

GFAA ANALYSIS: The duplicate audit for As (CRDL) was not flagged by the lab since its duplicate difference is <2X CRDL. The matrix spike recovery for As (72.7%) is out of control. All As results are estimated (J) due to low bias.

The duplicate audit for Pb (CRDL) is out of control. The matrix spike recovery for Pb (62.8%) is also out of control. All Pb results are estimated (J) due to poor precision and low bias.

The lab flagged the Se results on samples MELF55, 57, 58, and 59 with (W) flags. Samples MELF55, 57, 58, and 59 are estimated (UJ) due to interference.

The Tl results on samples MELF58 and 59 were flagged by the lab with (W) flags and are estimated (J) due to interference.

OTHER QUALIFIERS: All Hg data are acceptable.

The matrix spike recovery for CN (0.0%) is out of control. All CN results are <IDL and therefore unusable (R).

Reviewed by: Jill Siegrist

Date: 10-04-90

Jill Siegrist

DPO: [ ] ACTION [X] FYI

Region V

INORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO. 14751

LABORATORY York

SDG NO. MHF50

DATA USER FIT

SOW 3/90

REVIEW COMPLETION DATE 10-9-90

NO. OF SAMPLES _____ WATER 10 SOIL _____ OTHER _____

REVIEWER [ ] ESD [X] ESAT [ ] OTHER, CONTRACT/CONTRACTOR _____

	ICP	AA	Hg	CYANIDE
1. HOLDING TIMES	O	→	→	→
2. INITIAL CALIBRATIONS	O	→	→	→
3. CONTINUING CALIBRATIONS	O	→	→	→
4. FIELD BLANKS (F = not applicable)	F	→	→	→
5. LABORATORY BLANKS	O	→	→	→
6. ICS	O			
7. LCS	O	O		
8. DUPLICATE ANALYSIS	O	M	O	O JS
9. MATRIX SPIKE	O	M	O	~~O~~ Z
10. MSA		O		
11. SERIAL DILUTION	O			
12. SAMPLE VERIFICATION	O	→	→	→
13. REGIONAL QC (F = not applicable)	F	→	→	→
14. OVERALL ASSESSMENT	O	M	O	~~O~~ Z JS

O = No problems or minor problems that do not affect data usability.
X = No more than about 5% of the data points are qualified as either estimated or unusable.
M = More than about 5% of the data points are qualified as estimated.
Z = More than about 5% of the data points are qualified as unusable.

DPO ACTION ITEMS: _____

AREAS OF CONCERN: _____

QC EXCEPTION SUMMARY REPORT

CASE # 4751
DATA SET #
LAB Q.C. #
DATE: 10-3-90

SITE Woodland Landfill (IL)
LAB York / CT
REVIEWED BY Jill Siegrist

MATRIX: Soil
CONC. : low
MATRIX:
CONC. :

WATER SAMPLE SPK.
WATER SAMPLE DUP.
SOIL SAMPLE SPK.
SOIL SAMPLE DUP.

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		FIELD QC			REGIONAL QC			OTHER COMMENTS
	Holding Time	Cal Blanks	Blank Calcs	Control Calcs	Prep Blk AQ	Prep Blk SOL	ICS %R	ICS % AQ	ICS % SOL	Sol Dup RPD	Sol Spk %R	AQ Dup RPD	AQ Spk %R	Sol Dup AQ	Sol Dup SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Blank	Spike %R	Sample RPD	
Aluminum																								
Antimony																								
Arsenic											72.7													
Barium																								
Beryllium																								
Cadmium																								
Calcium						15,908																		
Chromium																								
Cobalt																								
Copper																								
Iron																								
Lead										51.9	102.8													
Magnesium						4770																		
Manganese																								
Mercury																								
Nickel																								
Potassium																								
Selenium																								
Silver																								
Sodium						21732																		
Thallium																								
Tin																								
Vanadium																								
Zinc																								
Cyanide											0.0													

COVER PAGE

5512HQ

Sample No.		Lab Sample No.
[illegible]		[illegible]
[illegible]	UCS	[illegible]
[illegible]		[illegible]
[illegible]		[illegible]
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[illegible]		[illegible]
[illegible]		[illegible]

Were the interelement corrections applied? Yes/No YES

Were the background corrections applied? Yes/NO YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms, and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mary A. McCann Name: MARY A. McCANN

Date: September, 21, 1990 Title: PROJECT MANAGER

U.S. EPA - CLP

0012

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

Lab Name: YORK LABS / CT Contract: 68-W0-0111

Lab Code: YORK Case No.: 14121 SAS No.: SS12HQ SDG No.: [illegible]

Matrix (soil/water): SOIL Lab Sample ID: 1514001

Level (low/med): LOW Date Received: 05/22/90

% Solids: 85.1

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

CAS No.	Analyte	Concentration	C	Q	M
429-90-5	Aluminum	2040			P
7440-36-0	Antimony	8.3	B		P
7440-38-2	Arsenic	5.0		N	F
7440-39-3	Barium	9.4	B		P
7440-41-7	Beryllium	0.22	U		P
7440-43-9	Cadmium	0.22	U		P
7440-70-2	Calcium	20000			P
7440-47-3	Chromium	4.5			P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	6.0			P
7439-89-6	Iron	7890		*	P
7439-92-1	Lead	5.2		N*	F
7439-95-4	Magnesium	46000			P
7439-96-5	Manganese	215			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.7	B		P
7440-09-7	Potassium	571	B		P
7782-49-2	Selenium	0.46	U		F
7440-22-4	Silver	0.89	U		P
7440-23-5	Sodium	215	B		P
7440-28-0	Thallium	0.23	U		F
7440-62-2	Vanadium	13.2			P
7440-66-6	Zinc	10.3			P
	Cyanide	0.59	U	N	C

9/19 DMC

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

U.S. EPA - CLP

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MELF51

Lab Name: CURK LABS / CT Contract: 68-W8-0017

Lab Code: CURK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

Matrix (soil/water): SOIL Lab Sample ID: 1654002

Level (low/med): LOW Date Received: 08/22/90

% Solids: 80.1

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum	2690		P
7440-36-0	Antimony	8.6	B	P
7440-38-2	Arsenic	2.3	BN	P
7440-39-3	Barium	13.7	B	P
7440-41-7	Beryllium	0.24	U	P
7440-43-9	Cadmium	0.24	U	P
7440-70-2	Calcium	68600		P
7440-47-3	Chromium	2.2		P
7440-48-4	Cobalt	3.1	B	P
7440-50-8	Copper	14.0		P
7439-89-6	Iron	8780	*	P
7439-92-1	Lead	3.5	N*	F
7439-95-4	Magnesium	34800		P
7439-96-5	Manganese	237		P
7439-97-6	Mercury	0.08	U	CV
7440-02-0	Nickel	5.6	B	P
7440-09-7	Potassium	597	B	P
7782-49-2	Selenium	0.50	U	F
7440-22-4	Silver	0.97	U	P
7440-23-5	Sodium	273	B	P
7440-28-0	Thallium	0.22	U	F
7440-62-2	Vanadium	9.4	B	P
7440-66-6	Zinc	17.6		P
	Cyanide	0.63	UN	C

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES

Comments:
TWIGS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MELF52

Lab Name: YORK LABS / CT Contract: 68-W8-0037

Lab Code: YORK Case No.: 14751 SAS No.: SS12HQ SDG No.: MELF50

Matrix (soil/water): SOIL Lab Sample ID: 1654003

Level (low/med): LOW Date Received: 08/22/90

% solids: 86.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2590			P
7440-36-0	Antimony	6.5	B		P
7440-38-2	Arsenic	2.9		N	P
7440-39-3	Barium	14.1	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.22	U		P
7440-70-2	Calcium	59600			P
7440-47-3	Chromium	3.3			P
7440-48-4	Cobalt	3.0	B		P
7440-50-8	Copper	11.0			P
7439-89-6	Iron	6450		*	P
7439-92-1	Lead	3.1		N*	P
7439-95-4	Magnesium	31500			P
7439-96-5	Manganese	216			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	5.5	B		P
7440-09-7	Potassium	628	B		P
7782-49-2	Selenium	0.45	U		P
7440-22-4	Silver	0.89	U		P
7440-23-5	Sodium	268	B		P
7440-28-0	Thallium	0.23	U		P
7440-62-2	Vanadium	8.6	B		P
7440-66-6	Zinc	17.2			P
	Cyanide	0.59	U	N	C

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MELF53

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14731 SAS No.: 5512HQ SDG No.: MELF50

Matrix (soil/water): SOIL Lab Sample ID: 1654004

Level (low/med): LOW Date Received: 08/22/90

% Solids: 91.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5480			P
7440-36-0	Antimony	8.6	B		P
7440-38-2	Arsenic	4.2		N	P
7440-39-3	Barium	28.7	B		P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.21	U		P
7440-70-2	Calcium	24500			P
7440-47-3	Chromium	3.1			P
7440-48-4	Cobalt	5.1	B		P
7440-50-8	Copper	16.0			P
7439-89-6	Iron	11500		*	P
7439-92-1	Lead	7.6		N*	P
7439-95-4	Magnesium	2600			P
7439-96-5	Manganese	40.3			P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	12.0			P
7440-09-7	Potassium	1580			P
7782-49-2	Selenium	0.42	U		P
7440-22-4	Silver	0.85	U		P
7440-23-5	Sodium	367	B		P
7440-28-0	Thallium	0.21	U		P
7440-62-2	Vanadium	14.1			P
7440-66-6	Zinc	31.2			P
	Cyanide	0.56	U	N	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MELF54

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: SS12HQ SDG No.: MELF50

Matrix (soil/water): SOIL Lab Sample ID: 1654005

Level (low/med): LOW Date Received: 08/22/90

% Solids: 42.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12000			P
7440-36-0	Antimony	8.3	U		P
7440-38-2	Arsenic	5.9		N	P
7440-39-3	Barium	68.3	B		P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.46	U		P
7440-70-2	Calcium	97200			P
7440-47-3	Chromium	18.9			P
7440-48-4	Cobalt	8.7	B		P
7440-50-8	Copper	13.2			P
7439-89-6	Iron	18100		*	P
7439-92-1	Lead	7.6		N*	P
7439-95-4	Magnesium	35500			P
7439-96-5	Manganese	483			P
7439-97-6	Mercury	0.22	U		CV
7440-02-0	Nickel	21.1			P
7440-09-7	Potassium	3540			P
7782-49-2	Selenium	0.91	U		P
7440-22-4	Silver	1.8	U		P
7440-23-5	Sodium	583	B		P
7440-28-0	Thallium	0.46	B		P
7440-62-2	Vanadium	25.0			P
7440-66-6	Zinc	40.3			P
	Cyanide	1.2	U	N	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

MELF55

INORGANIC ANALYSIS DATA SHEET

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

Matrix (soil/water): SOIL Lab Sample ID: 1654006

Level (low/med): LOW Date Received: 08/22/90

% Solids: 85.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6590			P
7440-36-0	Antimony	5.8	B		P
7440-38-2	Arsenic	2.3		N	P
7440-39-3	Barium	32.9	B		P
7440-41-7	Beryllium	0.44	B		P
7440-43-9	Cadmium	0.22	U		P
7440-70-2	Calcium	101000			P
7440-47-3	Chromium	11.4			P
7440-48-4	Cobalt	4.5	B		P
7440-50-8	Copper	12.9			P
7439-89-6	Iron	10900		*	P
7439-92-1	Lead	4.5		N*	P
7439-95-4	Magnesium	55800			P
7439-96-5	Manganese	245			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	8.7	B		P
7440-09-7	Potassium	1820			P
7782-49-2	Selenium	0.44	U	W	P
7440-22-4	Silver	0.89	U		P
7440-23-5	Sodium	343	B		P
7440-28-0	Thallium	0.22	U		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	23.5			P
	Cyanide	0.59	U	N	C

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

MELF56

INORGANIC ANALYSIS DATA SHEET

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

Matrix (soil/water): SOIL Lab Sample ID: 1654007

Level (low/med): LOW Date Received: 08/22/90

% Solids: 77.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8190			P
7440-36-0	Antimony	9.6	B		P
7440-38-2	Arsenic	3.8	N		P
7440-39-3	Barium	49.4			P
7440-41-7	Beryllium	0.57	B		P
7440-43-9	Cadmium	0.24	U		P
7440-70-2	Calcium	66300			P
7440-47-3	Chromium	12.1			P
7440-48-4	Cobalt	7.6	B		P
7440-50-8	Copper	20.4			P
7439-89-6	Iron	18700		*	P
7439-92-1	Lead	5.4	N	*	P
7439-95-4	Magnesium	36200			P
7439-96-5	Manganese	523			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	15.7			P
7440-09-7	Potassium	1380			P
7782-49-2	Selenium	0.52	U		P
7440-22-4	Silver	0.97	U		P
7440-23-5	Sodium	356	B		P
7440-28-0	Thallium	0.26	U		P
7440-62-2	Vanadium	21.9			P
7440-66-6	Zinc	45.2			P
	Cyanide	0.65	U	N	C

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MELF57

Lab Name: TURK LABS / CT Contract: 68-W8-0017

Lab Code: TURK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

Matrix (soil/water): SOIL Lab Sample ID: 1634008

Level (low/med): LOW Date Received: 08/22/90

% Solids: 91.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8000			P
7440-36-0	Antimony	5.0	B		P
7440-38-2	Arsenic	3.5		N	P
7440-39-3	Barium	57.9			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.21	U		P
7440-70-2	Calcium	47300			P
7440-47-3	Chromium	11.2			P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	10.5			P
7439-89-6	Iron	12000		*	P
7439-92-1	Lead	4.2		N*	P
7439-95-4	Magnesium	24800			P
7439-96-5	Manganese	486			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	13.2			P
7440-09-7	Potassium	1020	B		P
7782-49-2	Selenium	0.42	U	W	P
7440-22-4	Silver	0.82	U		P
7440-23-5	Sodium	271	B		P
7440-28-0	Thallium	0.21	U		P
7440-62-2	Vanadium	22.5			P
7440-66-6	Zinc	36.4			P
	Cyanide	0.55	U	N	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MELF58

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

Matrix (soil/water): SOIL Lab Sample ID: 1654009

Level (low/med): LOW Date Received: 08/22/90

% Solids: 86.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7830			P
7440-36-0	Antimony	7.6	B		P
7440-38-2	Arsenic	4.2		N	F
7440-39-3	Barium	32.0	B		P
7440-41-7	Beryllium	0.47	B		P
7440-43-9	Cadmium	0.22	U		P
7440-70-2	Calcium	90400			P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	6.2	B		P
7440-50-8	Copper	15.9			P
7439-89-6	Iron	16800		*	P
7439-92-1	Lead	7.4		N*	F
7439-95-4	Magnesium	46400			P
7439-96-5	Manganese	322			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	15.1			P
7440-09-7	Potassium	2470			P
7782-49-2	Selenium	0.43	U	W	F
7440-22-4	Silver	0.87	U		P
7440-23-5	Sodium	418	B		P
7440-28-0	Thallium	0.43	B	W	F
7440-62-2	Vanadium	19.7			P
7440-66-6	Zinc	32.1			P
	Cyanide	0.58	U	N	C

Color Before: GRAY Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

MELF39

INORGANIC ANALYSIS DATA SHEET

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14731 SAS No.: SS12HQ SDG No.: MELF30

Matrix (soil/water): SOIL Lab Sample ID: 1654010

Level (low/med): LOW Date Received: 08/22/90

% Solids: 83.0

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

LAB No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200			P
7440-36-0	Antimony	4.2	U		P
7440-38-2	Arsenic	3.9		N	F
7440-39-3	Barium	82.6			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.23	U		P
7440-70-2	Calcium	6270			P
7440-47-3	Chromium	14.4			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	9.0			P
7439-89-6	Iron	12900		*	P
7439-92-1	Lead	9.2		N*	F
7439-95-4	Magnesium	4540			P
7439-96-5	Manganese	489			P
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	10.0			P
7440-09-7	Potassium	975	B		P
7782-49-2	Selenium	0.47	U	W	F
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	221	B		P
7440-28-0	Thallium	0.30	B	W	F
7440-62-2	Vanadium	23.3			P
7440-66-6	Zinc	39.1			P
	Cyanide	0.63	U	N	C

Color Before: BROWN Clarity Before: Texture: MED ON

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
ROCKS

U.S. EPA - CLP

3
BLANKS

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: SS12HQ SDG No.: MELF50

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	104.0	U	104.0	U	104.0	U	104.0	U	20.800	U	P
Antimony	18.0	U	18.0	U	18.0	U	18.0	U	3.600	U	P
Arsenic	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Barium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Cadmium	-1.5	B	1.0	U	-1.6	B	1.0	U	0.200	U	P
Calcium	14.0	U	14.0	U	14.0	U	14.0	U	15.908	B	P
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Copper	4.0	U	5.3	B	4.0	U	4.0	U	0.800	U	P
Iron	58.0	U	58.0	U	58.0	U	58.0	U	11.600	U	P
Lead	1.0	U	1.0	U	1.0	U			0.200	U	P
Magnesium	18.0	U	34.6	B	26.3	B	53.4	B	14.770	B	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Potassium	449.0	U	449.0	U	449.0	U	449.0	U	89.800	U	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Silver	4.0	U	4.0	U	4.0	U	4.0	U	0.800	U	P
Sodium	74.0	U	74.0	U	74.0	U	74.0	U	21.732	B	P
Thallium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Vanadium	2.0	U	3.0	B	2.0	U	2.0	U	0.400	U	P
Zinc	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	0.500	U	[illegible]

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3
BLANKS

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic			1.0	U							F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	1.0	U	1.0	U	1.0	U	1.0	U			F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			2.0	U							F
Silver											
Sodium											
Thallium			1.0	U							F
Vanadium											
Zinc											
Cyanide			10.0	U							C

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3
BLANKS

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: SS12HQ SDG No.: MELF50

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	1.0	B	1.0	U	1.0	U	1.0	U			F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			1.0	U							F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium	2.0	U	2.0	U	2.0	U	2.0	U			F
Silver											
Sodium											
Thallium	1.0	U	1.0	U	1.0	U					F
Vanadium											
Zinc											
Cyanide											

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3
BLANKS

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF00

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	1.0	U	1.0	U	1.0	U	1.0	U			F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium	2.0	U	2.0	U	2.0	U					F
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MELF505

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.1

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	105.6472		8.3431	B	112.99	86.1		P
Arsenic	75-125	11.5927		5.0229		9.04	72.7	N	P
Barium	75-125	437.3542		9.4384	B	451.96	94.7		P
Beryllium	75-125	11.1159		0.2217	U	11.30	98.4		P
Cadmium	75-125	10.7069		0.2217	U	11.30	94.8		P
Calcium									NR
Chromium	75-125	44.6646		4.4742		45.20	88.9		P
Cobalt		103.4575		2.5785	B	112.99	89.3		P 9/19
Copper	75-125	56.5014		5.9486		56.49	89.5		P
Iron									NR
Lead	75-125	7.9996		5.1612		4.52	62.8	N	P
Magnesium									NR
Manganese	75-125	305.4755		214.8283		112.99	80.2		P
Mercury	75-125	0.4339		0.0979	U	0.45	96.4		CV
Nickel	75-125	105.9478		4.6782	B	112.99	89.6		P
Potassium									NR
Selenium	75-125	2.2372		0.4608	U	2.26	99.0		P
Silver	75-125	11.0503		0.8869	U	11.30	97.8		P
Sodium									NR
Thallium	75-125	11.1633		0.2304	U	11.30	98.8		P
Vanadium	75-125	118.4218		13.2497		112.99	93.1		P
Zinc	75-125	128.4236		10.3097		112.99	104.5		P
Cyanide	75-125	0.5875	U	0.5935	U	11.80	0.0	N	C

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MELF50A

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide		196.00		10.00	U	200.5	97.8		C

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MELF50D

Lab Name: TURK LABS / CI Contract: 68-W8-0017

Lab Code: TURK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.1 % Solids for Duplicate: 86.9

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2042.5315		2295.0589		11.6		P
Antimony		8.3431	B	7.3403	B	12.8		P
Arsenic	2.3	5.0229		3.4226		37.9		F
Barium		9.4384	B	9.3642	B	0.8		P
Beryllium		0.2217	U	0.2282	U			P
Cadmium		0.2217	U	0.2282	U			P
Calcium		90024.5260		83224.5990		7.8		P
Chromium	2.2	4.4742		5.4145		19.0		P
Cobalt		2.5785	B	2.6422	B	2.4		P
Copper	5.5	5.9486		4.7665	B	22.1		P
Iron		7886.4621		10986.0490		32.8	*	P
Lead	0.7	5.1612		3.0347		51.9	*	F
Magnesium		45951.1670		45750.9490		0.4		P
Manganese		214.8283		188.8583		12.9		P
Mercury	0.1	0.0979	U	0.1022	U			CV
Nickel		4.6782	B	7.9701	B	52.1		P
Potassium		571.0574	B	492.2319	B	14.8		P
Selenium		0.4608	U	0.4563	U			F
Silver		0.8869	U	0.9127	U			P
Sodium		214.5888	B	224.4350	B	4.5		P
Thallium		0.2304	U	0.2282	U			F
Vanadium	11.1	13.2497		13.5078		1.9		P
Zinc	4.4	10.3097		13.2431		24.9		P
Cyanide	0.6	0.5935	U	0.5864	U			C

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IO

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

ICP ID Number: Date: 07/15/90

Flame AA ID Number:

Furnace AA ID Number: 3030

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead	283.30	BZ	3.0	1.0	F
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments:

U.S. EPA - CLP

IO

INSTRUMENT DETECTION LIMITS (QUARTERLY)

004

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: SS12HQ SDG No.: MELF50

ICP ID Number: Date: 07/15/90

Flame AA ID Number:

Furnace AA ID Number: 5100

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic	193.70	BZ	10.0	1.0	F
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead	283.30	BZ	3.0	1.0	F
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium	196.00	BZ	5.0	2.0	F
Silver			10.0		
Sodium			5000.0		
Thallium	276.80	BZ	10.0	1.0	F
Vanadium			50.0		
Zinc			20.0		

Comments:

U.S. EPA - CLP

0045

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

ICP ID Number: Date: 07/15/90

Flame AA ID Number:

Furnace AA ID Number: 5100N

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic	193.70	BZ	10.0	1.0	F
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium	196.00	BZ	5.0	1.0	F
Silver			10.0		
Sodium			5000.0		
Thallium	276.80	BZ	10.0	1.0	F
Vanadium			50.0		
Zinc			20.0		

Comments:

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0046

IO

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

ICP ID Number: JA61 Date: 07/15/90

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.21		200.0	104.0	P
Antimony	206.83		60.0	18.0	P
Arsenic	193.60		10.0	18.0	P
Barium	493.40		200.0	2.0	P
Beryllium	234.86		5.0	1.0	P
Cadmium	228.80		5.0	1.0	P
Calcium	317.93		5000.0	14.0	P
Chromium	267.71		10.0	3.0	P
Cobalt	228.61	2	50.0	2.0	P
Copper	324.75		25.0	4.0	P
Iron	271.44		100.0	58.0	P
Lead	220.35		3.0	15.0	P
Magnesium	279.07		5000.0	18.0	P
Manganese	257.61		15.0	1.0	P
Mercury			0.2		
Nickel	231.60		40.0	5.0	P
Potassium	766.49		5000.0	449.0	P
Selenium	196.02		5.0	36.0	P
Silver	328.06		10.0	4.0	P
Sodium	589.59		5000.0	74.0	P
Thallium			10.0		
Vanadium	292.40		50.0	2.0	P
Zinc	213.85		20.0	3.0	P

9/19 BMO

Comments:

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0047

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: YORK LABS / CT Contract: 68-W8-0017

Lab Code: YORK Case No.: 14751 SAS No.: 5512HQ SDG No.: MELF50

ICP ID Number: Date: 07/15/90

Flame AA ID Number: HG4

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70		0.2	0.2	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments: