915022/915138

REMEDIAL ACTION IMPLEMENTATION REPORT

ERNST STEEL SITE

1728 AND 1746 WALDEN AVENUE
CHEEKTOWAGA, NEW YORK

(NYSDEC Site Number 915022)

Prepared for:

1746 Walden, Inc.
570 Delaware Avenue
Buffalo, New York 14202

Prepared by:

Barron & Associates, P.C.
10440 Main Street
Clarence, New York 14031

February 1997

Volume 2 of 3

APPENDIX G

ERNST STEEL CONFIRMATION SAMPLING
ANALYTICAL AND QUALITY CONTROL RESULTS

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 450.1858 Date: 8/18/95

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	AVS	8/19/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	JK	8/18/95
1st Draft Reviewed by: CIRCULATED:	[illegible]	8/18/95
	[illegible]	8/18/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	MR	8/21/95
ASC Manager:	FG for GH	8/21/95
QA Officer:		
Corp. Project Manager: (Internal Job) BARB PECK	DPA	9/14/95
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: BARB PECK	MR	8/21/95
1 Invoices Sent to Accounting	MR	8/21/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck

FROM: Gary Hahn

DATE: August 18, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9501.858

CC: Lab File

Attached is the laboratory report of the analysis conducted on eight samples received at the Analytical Services Center on August 15, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you and Gil Maxwell on 8/18/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

2517

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.:	Project Name:	Project Manager:
SD6050	ERNST STEEL	B. PECK

Samplers: (Signatures) JP

Field Team Leader: J. PECK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*		STATION LOCATION	NUMBER OF CONTAINERS	TOTAL LEAD (7421)	REMARKS
001	8/15/95	17:00		X		LEAD, CHR. - LOW	✓	E2-PN	1	✓	CONFIRMATION SAMPLES
002		17:01					✓	E2-PE	1	✓	
003		17:02					✓	E2-PS	1	✓	
004		17:04						E2-BE	1	✓	
005		17:30					✓	S-150,325	1	✓	
006		17:31					✓	S-150,350	1	✓	
007		17:32					✓	S-175,325	1	✓	
008		17:33					✓	S-175,350	1	✓	
009	↓	17:34		↓			✓	S-175,375	1	✓	
						JP		8/15/95			

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
JP	8/15 1810					HAND DELIVER
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: / Date:
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.858

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
31422.01	E2-PN	08/15/95	08/16/95	08/17/95
31423.01	E2-PE	08/15/95	08/16/95	08/17/95
31424.01	E2-PS	08/15/95	08/16/95	08/17/95
31425.01	S-150,325	08/15/95	08/16/95	08/17/95
31426.01	S-150,350	08/15/95	08/16/95	08/17/95
31427.01	S-175,325	08/15/95	08/16/95	08/17/95
31428.01	S-175,350	08/15/95	08/16/95	08/17/95
31429.01	S-175,375	08/15/95	08/16/95	08/17/95
SOLIDS-TOTAL (MET) -S				
31422.01	E2-PN	08/15/95		08/17/95
31423.01	E2-PE	08/15/95		08/17/95
31424.01	E2-PS	08/15/95		08/17/95
31425.01	S-150,325	08/15/95		08/17/95
31426.01	S-150,350	08/15/95		08/17/95
31427.01	S-175,325	08/15/95		08/17/95
31428.01	S-175,350	08/15/95		08/17/95
31429.01	S-175,375	08/15/95		08/17/95

TEST CODE :STSMET1 JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31422		
E2-PN	86	
EE-95-31423		
E2-PE	95	
EE-95-31424		
E2-PS	90	
EE-95-31425		
S-150,325	81	
EE-95-31426		
S-150,350	81	
EE-95-31427		
S-175,325	89	
EE-95-31428		
S-175,350	76	
EE-95-31429		
S-175,375	81	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 87 %
SAMPLE ID LAB : EE-95-31422 MATRIX: SOLID
SAMPLE ID CLIENT: E2-PN

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	6600		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 95 %
SAMPLE ID LAB : EE-95-31423 MATRIX: SOLID
SAMPLE ID CLIENT: E2-PE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1800		5.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 90 %
SAMPLE ID LAB : EE-95-31424 MATRIX: SOLID
SAMPLE ID CLIENT: E2-PS

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1200		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-31425 MATRIX: SOLID
SAMPLE ID CLIENT: S-150,325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	21		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 89 %
SAMPLE ID LAB : EE-95-31427 MATRIX: SOLID
SAMPLE ID CLIENT: S-175,325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	170		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-31426 MATRIX: SOLID
SAMPLE ID CLIENT: S-150,350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	23		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 76 %
SAMPLE ID LAB : EE-95-31428 MATRIX: SOLID
SAMPLE ID CLIENT: S-175,350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	48		6.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-31429 MATRIX: SOLID
SAMPLE ID CLIENT: S-175,375

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	80		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.858

(mg/kg as received)

Parameter	E & E Laboratory No. 95-31429	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		64.7	78.8	19.7

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.858

(mg/kg as received)

Parameter	E & E Laboratory No. 95-31429	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		64.7	147	10.0	82.2

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (08/16)

9501.858

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	976	1000	97.6

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.858
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 4501.868 Date: 8/18/95

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	MS	8/19/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	JK	8/18/95
1st Draft Reviewed by:	JK	8/18/95
CIRCULATED:	JK	8/18/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	KR	8/21/95
ASC Manager:	TES for GH	8/21/95
QA Officer:		
Corp. Project Manager: (Internal Job) BARB PECK	DJF	8/21/95
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: BARB PECK	KR	8/21/95
1 Invoices Sent to Accounting	C	8/21/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck

FROM: Gary Hahn Gary Hahn

DATE: August 18, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9501.868

CC: Lab File

Attached is the laboratory report of the analysis conducted on thirteen samples received at the Analytical Services Center on August 16, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you and Gil Maxwell on 8/18/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

9501868
31467 - 31479

2517

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685 8080, Fax 716/685 0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.	Project Name	Project Manager
SD6050	~~John P~~ ERNST STEEL	B. PECK

Samplers: (Signatures) JP, Rick Mancuso

Field Team Leader: J. PECK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*		STATION LOCATION	NUMBER OF CONTAINERS	TOTAL Pb (7421)	REMARKS
001	8/15	17:03		X		LEAD, CHROMIUM - LOW	✓	E2-BE	1	✓	QN CoFC For 8/15 - Accidentaly not turned in.
002	8/16	14:30		X			✓	S-225/325	1	✓	
003	8/16	14:32		X			✓	S-200/375P	1	✓	
004	8/16	14:34		X			✓	S-200/325	1	✓	
005	8/16	14:36		X			✓	S-200/350	1	✓	
006	8/16	14:38		X			✓	S-150/300	3	✓	MS/MSD
007	8/16	14:40		X			✓	S-250/325P	1	✓	
008	8/16	14:42		X			✓	S-150/275	1	✓	
009	8/16	16:30		X			✓	S 175/300	1	✓	
010	8/16	16:32		X			✓	S-125/275P	1	✓	
011	8/16	16:34		X			✓	S-200/300	1	✓	
012	8/16	16:36		X			✓	S-175/275	3	✓	MS/MSD
013	8/16	16:38		X			✓	S-125/300P	1	✓	

JP 8/16/95

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via: HAND DELIVERY
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number:
Relinquished By: (Signature) [signature]	Date/Time: 8/16/95 1730	Received For Laboratory By: (Signature) [signature]	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 8/16/95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.868

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
31467.01	E2-BE	08/15/95	08/17/95	08/17/95
31468.01	S-225/325	08/16/95	08/17/95	08/17/95
31469.01	S-200/375 P	08/16/95	08/17/95	08/17/95
31470.01	S-200/325	08/16/95	08/17/95	08/17/95
31471.01	S-200/350	08/16/95	08/17/95	08/17/95
31472.01	S-150/300	08/16/95	08/17/95	08/17/95
31473.01	S-250/325 P	08/16/95	08/17/95	08/17/95
31474.01	S-150/275	08/16/95	08/17/95	08/17/95
31475.01	S-175/300	08/16/95	08/17/95	08/17/95
31476.01	S-125/275 P	08/16/95	08/17/95	08/17/95
31477.01	S-200/300	08/16/95	08/17/95	08/17/95
31478.01	S-175/275	08/16/95	08/17/95	08/17/95
31479.01	S-125/300 P	08/16/95	08/17/95	08/17/95
SOLIDS-TOTAL (MET) -S				
31467.01	E2-BE	08/15/95		08/17/95
31468.01	S-225/325	08/16/95		08/17/95
31469.01	S-200/375 P	08/16/95		08/17/95
31470.01	S-200/325	08/16/95		08/17/95
31471.01	S-200/350	08/16/95		08/17/95
31472.01	S-150/300	08/16/95		08/17/95
31473.01	S-250/325 P	08/16/95		08/17/95
31474.01	S-150/275	08/16/95		08/17/95
31475.01	S-175/300	08/16/95		08/17/95
31476.01	S-125/275 P	08/16/95		08/17/95
31477.01	S-200/300	08/16/95		08/17/95
31478.01	S-175/275	08/16/95		08/17/95
31479.01	S-125/300 P	08/16/95		08/17/95

TEST CODE :STSMET1 JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31467		
E2-BE	68	
EE-95-31468		
S-225/325	80	
EE-95-31469		
S-200/375 P	93	
EE-95-31470		
S-200/325	88	
EE-95-31471		
S-200/350	89	
EE-95-31472		
S-150/300	88	
EE-95-31473		
S-250/325 P	85	
EE-95-31474		
S-150/275	86	
EE-95-31475		
S-175/300	93	
EE-95-31476		
S-125/275 P	86	
EE-95-31477		
S-200/300	93	
EE-95-31478		
S-175/275	93	
EE-95-31479		
S-125/300 P	83	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 68 %
SAMPLE ID LAB : EE-95-31467 MATRIX: SOLID
SAMPLE ID CLIENT: E2-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	370		7.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 80 %
SAMPLE ID LAB : EE-95-31468 MATRIX: SOLID
SAMPLE ID CLIENT: S-225/325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	180		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 93 %
SAMPLE ID LAB : EE-95-31469 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/375 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	24000		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 88 %
SAMPLE ID LAB : EE-95-31470 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1800		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 89 %
SAMPLE ID LAB : EE-95-31471 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	340		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 88 %
SAMPLE ID LAB : EE-95-31472 MATRIX: SOLID
SAMPLE ID CLIENT: S-150/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2800		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 85 %
SAMPLE ID LAB : EE-95-31473 MATRIX: SOLID
SAMPLE ID CLIENT: S-250/325 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1400		5.9	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 86 %
SAMPLE ID LAB : EE-95-31474 MATRIX: SOLID
SAMPLE ID CLIENT: S-150/275

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	320		5.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 93 %
SAMPLE ID LAB : EE-95-31475 MATRIX: SOLID
SAMPLE ID CLIENT: S-175/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2300		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 86 %
SAMPLE ID LAB : EE-95-31476 MATRIX: SOLID
SAMPLE ID CLIENT: S-125/275 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	46000		5.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 93 %
SAMPLE ID LAB : EE-95-31477 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2800		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 93 %
SAMPLE ID LAB : EE-95-31478 MATRIX: SOLID
SAMPLE ID CLIENT: S-175/275

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	300		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 83 %
SAMPLE ID LAB : EE-95-31479 MATRIX: SOLID
SAMPLE ID CLIENT: S-125/300 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1500		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.868

(mg/kg as received)

Parameter	E & E Laboratory No. 95-31478	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		282	242	15.3

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.868

(mg/kg as received)

Parameter	E & E Laboratory No. 95-31478	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		282	393	10.0	4X

4X = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

LABORATORY CONTROL SAMPLE (08/17)

9501.868

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	885	1000	88.5

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.868
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 4501.882 Date: 8/28/95

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	RS	8/29/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	JK	8/28/95
1st Draft Reviewed by: CIRCULATED	JK	8/28/95
	JK	8/28/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	JK	8/29/95
ASC Manager:	[illegible]	[illegible]
QA Officer:		
Corp. Project Manager: BARB PECK (Internal Job)	[illegible] 9/18/95	
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to:	JK	8/29/95
1 Invoices Sent to Accounting	JK	8/29/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck

FROM: Gary Hahn

DATE: August 28, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9501.882

CC: Lab File

Attached is the laboratory report of the analysis conducted on twenty six samples received at the Analytical Services Center on August 17, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 8/18/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

W-89

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

9501.892
31587-31612

(2517)

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Project No.:	Project Name:	Project Manager:
SD050	ERNST STEEL	B. PECK
Samplers: (Signatures)		**Field Team Leader:**
J.R. Dil Jmmm		J. PECK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION — EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Total Pb (7421)	REMARKS
001	8/17	16:06		X		LEAD Chromium - Low	E7-BE *	1	✓	
002		16:02				*-except sample of	E6-BE *	1		
003		16:09				paint sludge = high*	E4-BE *	1		
004		16:04					E3-BE *	1		
005		16:09					E5-BE *	1		
006		16:10					S-50/200 *	3		ms/msD
007		16:12					S-75/175 P *	1		
008		16:17					S-150/250 *	3		ms/msD
009		16:16					S-100/250 P *	1		
010		16:19					S-175/275 *	1		
011		16:20					S-200/275 P *	1		
012		16:22					S-150/225 P *	1		
013		16:24					S-75/200 *	1		
014		16:26					S-50/175 P *	1		

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
						HAND DELIVER
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: / Date:
Relinquished By: (Signature) Dil Jmmm	Date/Time: 1843 8/17/95	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: SP-6050 | Project Name: FAUST STEEL SITE | Project Manager: B. PECK

Samplers: (Signatures) | Field Team Leader: J. PECK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	total Pb (7421)	REMARKS
016	8/17	16:28		X		LEAD/Chromium-Low	✓S-165/225	1	X	
017	8/17	16:30		X			✓S-100/225 (P)	1	X	
018	8/17	16:32		X			✓S-175/250 (P)	1	X	
019	8/17	16:34		X			✓S-225/300	1	X	
020	8/17	16:36		X			✓S-50/150	1	X	
021	8/17	16:38		X			✓S-200/300	1	X	
022	8/17	16:40		X			✓S-100/200	1	X	
023	8/17	16:42	X	X			✓Stockpile #1	1	X	
024	8/17	16:44		X			✓S-165/250	1	X	
025	8/17	16:46		X			✓S-125/200 (P)	1	X	
026	8/17	16:48	X	X			✓Stockpile #2	1	X	
027	8/17	16:48		X			✓Stockpile #2 (C)	1	X	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:	
Relinquished By: (Signature)	Date/Time:	Received By. (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)		
Relinquished By: (Signature) Dal Murphy	Date/Time: 8/17/95 1849	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number:	Date:

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571184

JOB NUMBER : 9501.882

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD	(ICP)-S			
31587.01	E7-BE	08/17/95	08/17/95	08/18/95
31588.01	E6-BE	08/17/95	08/17/95	08/18/95
31589.01	E4-BE	08/17/95	08/17/95	08/18/95
31590.01	E3-BE	08/17/95	08/17/95	08/18/95
31591.01	E5-BE	08/17/95	08/17/95	08/18/95
31592.01	S-50/200	08/17/95	08/17/95	08/18/95
31593.01	S-75/175 P	08/17/95	08/17/95	08/18/95
31594.01	S-150/250	08/17/95	08/17/95	08/18/95
31595.01	S-100/250 P	08/17/95	08/17/95	08/18/95
31596.01	S-175/275	08/17/95	08/17/95	08/18/95
31597.01	S-200/275 P	08/17/95	08/17/95	08/18/95
31598.01	S-150/225 P	08/17/95	08/17/95	08/18/95
31599.01	S-75/200	08/17/95	08/17/95	08/18/95
31600.01	S-50/175 P	08/17/95	08/17/95	08/18/95
31601.01	S-125/225	08/17/95	08/17/95	08/18/95
31602.01	S-100/225 P	08/17/95	08/17/95	08/18/95
31603.01	S-175/250 P	08/17/95	08/17/95	08/18/95
31604.01	S-225/300	08/17/95	08/17/95	08/18/95
31605.01	S-50/150	08/17/95	08/17/95	08/18/95
31606.01	S-200/300	08/17/95	08/17/95	08/18/95
31607.01	S-100/200	08/17/95	08/17/95	08/18/95
31608.01	STOCKPILE #1	08/17/95	08/17/95	08/18/95
31609.01	S-125/250	08/17/95	08/17/95	08/18/95
31610.01	S-125/200 P	08/17/95	08/17/95	08/18/95
31611.01	STOCKPILE #2	08/17/95	08/17/95	08/18/95
31612.01	STOCKPILE #1 C	08/17/95	08/17/95	08/18/95
SOLIDS-TOTAL (MET)	-S			
31587.01	E7-BE	08/17/95		08/18/95
31588.01	E6-BE	08/17/95		08/18/95
31589.01	E4-BE	08/17/95		08/18/95
31590.01	E3-BE	08/17/95		08/18/95
31591.01	E5-BE	08/17/95		08/18/95
31592.01	S-50/200	08/17/95		08/18/95
31593.01	S-75/175 P	08/17/95		08/18/95
31594.01	S-150/250	08/17/95		08/18/95
31595.01	S-100/250 P	08/17/95		08/18/95
31596.01	S-175/275	08/17/95		08/18/95
31597.01	S-200/275 P	08/17/95		08/18/95
31598.01	S-150/225 P	08/17/95		08/18/95
31599.01	S-75/200	08/17/95		08/18/95
31600.01	S-50/175 P	08/17/95		08/18/95
31601.01	S-125/225	08/17/95		08/18/95
31602.01	S-100/225 P	08/17/95		08/18/95
31603.01	S-175/250 P	08/17/95		08/18/95
31604.01	S-225/300	08/17/95		08/18/95
31605.01	S-50/150	08/17/95		08/18/95

JOB NUMBER : 9501.882

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
SOLIDS-TOTAL (MET) -S				
31606.01	S-200/300	08/17/95		08/18/95
31607.01	S-100/200	08/17/95		08/18/95
31608.01	STOCKPILE #1	08/17/95		08/18/95
31609.01	S-125/250	08/17/95		08/18/95
31610.01	S-125/200 P	08/17/95		08/18/95
31611.01	STOCKPILE #2	08/17/95		08/18/95
31612.01	STOCKPILE #1 C	08/17/95		08/18/95

TEST CODE :STSMET1 JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31587 E7-BE	86	
EE-95-31588 E6-BE	75	
EE-95-31589 E4-BE	80	
EE-95-31590 E3-BE	90	
EE-95-31591 E5-BE	91	
EE-95-31592 S-50/200	86	
EE-95-31593 S-75/175 P	95	
EE-95-31594 S-150/250	95	
EE-95-31595 S-100/250 P	95	
EE-95-31596 S-175/275	97	
EE-95-31597 S-200/275 P	92	
EE-95-31598 S-150/225 P	98	
EE-95-31599 S-75/200	84	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

TEST CODE :STSMET1 JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31600 S-50/175 P	88	
EE-95-31601 S-125/225	83	
EE-95-31602 S-100/225 P	96	
EE-95-31603 S-175/250 P	82	
EE-95-31604 S-225/300	87	
EE-95-31605 S-50/150	90	
EE-95-31606 S-200/300	83	
EE-95-31607 S-100/200	81	
EE-95-31608 STOCKPILE #1	90	
EE-95-31609 S-125/250	96	
EE-95-31610 S-125/200 P	90	
EE-95-31611 STOCKPILE #2	88	
EE-95-31612 STOCKPILE #1 C	92	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.882

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Total Solids				
	31596	97.3	97.4	0.2
	31606	83.5	83.2	0.4
	31612	91.8	91.0	0.9

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 86 %
SAMPLE ID LAB : EE-95-31587 MATRIX: SOLID
SAMPLE ID CLIENT: E7-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	480		5.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 75 %
SAMPLE ID LAB : EE-95-31588 MATRIX: SOLID
SAMPLE ID CLIENT: E6-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1300		6.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 80 %
SAMPLE ID LAB : EE-95-31589 MATRIX: SOLID
SAMPLE ID CLIENT: E4-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1000		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 90 %
SAMPLE ID LAB : EE-95-31590 MATRIX: SOLID
SAMPLE ID CLIENT: E3-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4100		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 91 %
SAMPLE ID LAB : EE-95-31591 MATRIX: SOLID
SAMPLE ID CLIENT: E5-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2400		5.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 86 %
SAMPLE ID LAB : EE-95-31592 MATRIX: SOLID
SAMPLE ID CLIENT: S-50/200

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	3500		5.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 95 %
SAMPLE ID LAB : EE-95-31593 MATRIX: SOLID
SAMPLE ID CLIENT: S-75/175 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2600		5.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 95 %
SAMPLE ID LAB : EE-95-31594 MATRIX: SOLID
SAMPLE ID CLIENT: S-150/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2800		5.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 95 %
SAMPLE ID LAB : EE-95-31595 MATRIX: SOLID
SAMPLE ID CLIENT: S-100/250 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	18000		5.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 97 %
SAMPLE ID LAB : EE-95-31596 MATRIX: SOLID
SAMPLE ID CLIENT: S-175/275

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	50		5.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 92 %
SAMPLE ID LAB : EE-95-31597 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/275 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	130		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 98 %
SAMPLE ID LAB : EE-95-31598 MATRIX: SOLID
SAMPLE ID CLIENT: S-150/225 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	820		5.1	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 83 %
SAMPLE ID LAB : EE-95-31599 MATRIX: SOLID
SAMPLE ID CLIENT: S-75/200

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	230		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 88 %
SAMPLE ID LAB : EE-95-31600 MATRIX: SOLID
SAMPLE ID CLIENT: S-50/175 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4200		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 83 %
SAMPLE ID LAB : EE-95-31601 MATRIX: SOLID
SAMPLE ID CLIENT: S-125/225

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	51		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 96 %
SAMPLE ID LAB : EE-95-31602 MATRIX: SOLID
SAMPLE ID CLIENT: S-100/225 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	17000		5.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 82 %
SAMPLE ID LAB : EE-95-31603 MATRIX: SOLID
SAMPLE ID CLIENT: S-175/250 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	7100		6.1	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 87 %
SAMPLE ID LAB : EE-95-31604 MATRIX: SOLID
SAMPLE ID CLIENT: S-225/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2900		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 90 %
SAMPLE ID LAB : EE-95-31605 MATRIX: SOLID
SAMPLE ID CLIENT: S-50/150

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	7100		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 83 %
SAMPLE ID LAB : EE-95-31606 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	54		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-31607 MATRIX: SOLID
SAMPLE ID CLIENT: S-100/200

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	64		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 90 %
SAMPLE ID LAB : EE-95-31608 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #1

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	190000		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 96 %
SAMPLE ID LAB : EE-95-31609 MATRIX: SOLID
SAMPLE ID CLIENT: S-125/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	5200		5.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 90 %
SAMPLE ID LAB : EE-95-31610 MATRIX: SOLID
SAMPLE ID CLIENT: S-125/200 P

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	3100		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 88 %
SAMPLE ID LAB : EE-95-31611 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #2

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4400		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 92 %
SAMPLE ID LAB : EE-95-31612 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #1 C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	3200		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.882

(mg/kg as received)

Parameter	E & E Laboratory No. 95-31592	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		3020	8920	98.7*

* = THIS RPD IS NOT WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.882

(mg/kg as received)

Parameter	E & E Laboratory No. 95-31594	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		2640	3870	37.9

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.882

(mg/kg as received)

Parameter	E & E Laboratory No. 95-31592	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		3020	4270	10.0	4X

4X = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.882

(mg/kg as received)

Parameter	E & E Laboratory No. 95-31594	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		2640	4090	10.0	4X

4X = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

LABORATORY CONTROL SAMPLE I (08/17)

9501.882

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	896	1000	89.6

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE II (08/17)

9501.882

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	956	1000	95.6

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.882
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9501.890 Date: 8/30/95

Report Title: Quarterly

Client:

Laboratory Data Review	Supervisor	Date
Metals	KB	8/30/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	UR	8/30/95
1st Draft Reviewed by:	UR	8/30/95
circulate.rl : (10 days)	UR	8/30/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	JK	8/30/95
ASC Manager:	[illegible]	8/30/95
QA Officer:		
Corp. Project Manager: Barb Peck (Internal Job)	DH 9/15/95	
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: Quarterly File	JK	8/30/95
1 Invoices Sent to Accounting	JK	8/30/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck

FROM: Gary Hahn Gary Hahn kr

DATE: August 30, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9501.890

CC: Lab File

Attached is the laboratory report of the analysis conducted on nine samples received at the Analytical Services Center on August 18, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 8/21/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: 5D6050
Project Name: ERNST STEEL
Project Manager: B. PECK
Samplers: (Signatures) A. P
Field Team Leader: J. PECK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TOTAL Pb (7421)	REMARKS
001	8/18	09:00		X		LEAD/CHROMIUM - LOW	STOCK PILE #3	1	✓	CONFIRMATION SAMPLES
002	8/18	09:02		X			STOCK PILE #4	1		
003	8/18	09:04		X			S-225/350	1		
							~~S-50/125 dp~~			
004	8/18	09:06		X			E9-BE	1		
005	8/18	9:08		X			E1-BE-SW	1		
006	8/18	9:10		X			E10-BE	1		
007	8/18	9:13		X			E4-PC	1		
008	8/18	9:18		X			E1-BE-SE	1		
009	8/18	9:20		X			E7-PC	1		

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By (Signature)
Relinquished By: (Signature) A. P	Date/Time: 8/18/95 0915	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)

Ship Via: HAND DELIVERED
Bl/Airbill Number: —
Date: 8/18/95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.890

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (GF)-S				
31638.01	STOCK PILE #3	08/18/95	08/21/95	08/21/95
31639.01	STOCK PILE #4	08/18/95	08/21/95	08/21/95
31640.01	S-225/350	08/18/95	08/21/95	08/21/95
31641.01	E9-BE	08/18/95	08/21/95	08/21/95
31642.01	E9-BE-SW	08/18/95	08/21/95	08/21/95
31643.01	E10-BE	08/18/95	08/21/95	08/21/95
31644.01	E4-PC	08/18/95	08/21/95	08/21/95
31645.01	E1-BE-SE	08/18/95	08/21/95	08/21/95
31646.01	E7-PC	08/18/95	08/21/95	08/21/95
SOLIDS-TOTAL (MET) -S				
31638.01	STOCK PILE #3	08/18/95		08/21/95
31639.01	STOCK PILE #4	08/18/95		08/21/95
31640.01	S-225/350	08/18/95		08/21/95
31641.01	E9-BE	08/18/95		08/21/95
31642.01	E9-BE-SW	08/18/95		08/21/95
31643.01	E10-BE	08/18/95		08/21/95
31644.01	E4-PC	08/18/95		08/21/95
31645.01	E1-BE-SE	08/18/95		08/21/95
31646.01	E7-PC	08/18/95		08/21/95

TEST CODE :STSMET1 JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-31638 STOCK PILE #3	91	
EE-95-31639 STOCK PILE #4	90	
EE-95-31640 S-225/350	81	
EE-95-31641 E9-BE	96	
EE-95-31642 E9-BE-SW	74	
EE-95-31643 E10-BE	97	
EE-95-31644 E4-PC	92	
EE-95-31645 E1-BE-SE	93	
EE-95-31646 E7-PC	91	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.890

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	31644	91.8	94.5	2.9

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 91 %
SAMPLE ID LAB : EE-95-31638 MATRIX: SOLID
SAMPLE ID CLIENT: STOCK PILE #3

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4100		5.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 90 %
SAMPLE ID LAB : EE-95-31639 MATRIX: SOLID
SAMPLE ID CLIENT: STOCK PILE #4

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	4800		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-31640 MATRIX: SOLID
SAMPLE ID CLIENT: S-225/350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	300		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 96 %
SAMPLE ID LAB : EE-95-31641 MATRIX: SOLID
SAMPLE ID CLIENT: E9-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	620		5.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 74 %
SAMPLE ID LAB : EE-95-31642 MATRIX: SOLID
SAMPLE ID CLIENT: E9-BE-SW

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	260		6.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 97 %
SAMPLE ID LAB : EE-95-31643 MATRIX: SOLID
SAMPLE ID CLIENT: E10-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	15000		5.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 92 %
SAMPLE ID LAB : EE-95-31644 MATRIX: SOLID
SAMPLE ID CLIENT: E4-PC

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1200		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 93 %
SAMPLE ID LAB : EE-95-31645 MATRIX: SOLID
SAMPLE ID CLIENT: E1-BE-SE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	16000		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 91 %
SAMPLE ID LAB : EE-95-31646 MATRIX: SOLID
SAMPLE ID CLIENT: E7-PC

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	6100		5.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.890
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: G50L/164 Date: 9/14/95

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	[signature]	9/15/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	[signature]	9/14/95
1st Draft Reviewed by:	[signature]	9/14/95
CIRCULATED:	[signature]	9/14/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	[signature]	9/15/95
ASC Manager:	[signature]	9/15/95
QA Officer:		
Corp. Project Manager: DAVE PECK (Internal Job)	[signature]	9/14/95
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: DAVE PECK	[signature]	9/15/95
1 Invoices Sent to Accounting	[signature]	9/15/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck

FROM: Gary Hahn GHahn/gk

DATE: September 14, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9501.964

CC: Lab File

Attached is the laboratory report of the analysis conducted on twenty six samples received at the Analytical Services Center on August 25, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 8/28/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

9501.964
32022

CHAIN-OF-CUSTODY RECORD

Page ___ of ___

Project No.	Project Name	Project Manager
SD6050	ERNST STEEL	B. PECK

Samplers: (Signatures) J.P.

Field Team Leader: J. PECK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TOTAL LEAD (7421)	REMARKS
001	8/25/95	18:00		X		LEAD/CHROMIUM - LOW	S-125/275 •	3	✓	INCLUDES MS/MSD
002		18:02					S-150/225 •	3	✓	INCLUDES MS/MSD
003		18:04					S-225/300 •	3	✓	INCLUDES MS/MSD
004		1805					S-200/375 •	1	✓	
005		18:06					S-150/300 •	1	✓	
006		18:07					S-200/300 •	1	✓	
007		18:08				E9-BE →	~~S-50/1250~~ •	1	✓	
008		18:09					S-50/175 •	1	✓	
009		1810					S-75/175 •	1	✓	
010		1811					S-100/250 •	1	✓	
011		18:12					S-100/225 •	1	✓	
012		18:13					S-175/250 •	1	✓	
013		1814					S-200/325 •	1	✓	
014		18:15					S-125/250 •	1	✓	

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Ship Via:
[signature]	8/25/95	[signature] 8/25/95				
[signature] 8/25/95	Date/Time	[signature]	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	BL/Airbill Number: / Date:
[signature]	Date/Time 8/25/95 20:15	Received For Laboratory By: (Signature) [signature]	Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)	

0571194

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No	Project Name	Project Manager
SD6050	ERNST STEEL	B. PECK

Samplers (Signatures): J.P. Rob Powell

Field Team Leader: J. PELK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION — EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TOTAL LEAD (7421)	REMARKS
015	8/25/95	18:16		X		LEAD/CHROMIUM – LOW	S-150/250	1	✓	
016		18:17					S-50/200	1	✓	
017		18:18					S-175/300	1	✓	
018		18:19					S-250/350	1	✓	
019		18:20					E6-BE	1	✓	
020		18:21					E5-BE	1	✓	
021		18:22					E3-BE	1	✓	
022		18:23					E4-BE	1	✓	
023		18:24					E7-BE	1	✓	
024		18:25					S-50/150	1	✓	
025		18:27					S-250/325	1	✓	
026		18:33					8/25/97 S-125/300	1	✓	
							E9-BE	1	✓	

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
J.P.	8/25/95					HAND DELIVER
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	BL/Airbill Number
8/25/95						
Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)	Date
	8/25/95 20:15	Melissa Hurst				8/25/95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.964

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
32022.01	S-125/275	08/25/95	08/26/95	08/28/95
32023.01	S-150/225	08/25/95	08/26/95	08/28/95
32024.01	S-225/300	08/25/95	08/26/95	08/28/95
32025.01	S-200/375	08/25/95	08/26/95	08/28/95
32026.01	S-150/300	08/25/95	08/26/95	08/28/95
32027.01	S-200/300	08/25/95	08/26/95	08/28/95
32028.01	E9-BE	08/25/95	08/26/95	08/28/95
32029.01	S-50/175	08/25/95	08/26/95	08/28/95
32030.01	S-75/175	08/25/95	08/26/95	08/28/95
32031.01	S-100/250	08/25/95	08/26/95	08/28/95
32032.01	S-100/225	08/25/95	08/26/95	08/28/95
32033.01	S-175/250	08/25/95	08/26/95	08/28/95
32034.01	S-200/325	08/25/95	08/26/95	08/28/95
32035.01	S-125/250	08/25/95	08/26/95	08/28/95
32036.01	S-150/250	08/25/95	08/26/95	08/28/95
32037.01	S-50/200	08/25/95	08/26/95	08/28/95
32038.01	S-175/300	08/25/95	08/26/95	08/28/95
32039.01	S-250/350	08/25/95	08/26/95	08/28/95
32040.01	E6-BE	08/25/95	08/26/95	08/28/95
32041.01	E5-BE	08/25/95	08/26/95	08/28/95
32042.01	E3-BE	08/25/95	08/26/95	08/28/95
32043.01	E4-BE	08/25/95	08/26/95	08/28/95
32044.01	E7-BE	08/25/95	08/26/95	08/28/95
32045.01	S-50/150	08/25/95	08/26/95	08/28/95
32046.01	S-250/325	08/25/95	08/26/95	08/28/95
32047.01	S-125/300	08/25/95	08/26/95	08/28/95
SOLIDS-TOTAL (MET) -S				
32022.01	S-125/275	08/25/95		08/30/95
32023.01	S-150/225	08/25/95		08/30/95
32024.01	S-225/300	08/25/95		08/30/95
32025.01	S-200/375	08/25/95		08/30/95
32026.01	S-150/300	08/25/95		08/30/95
32027.01	S-200/300	08/25/95		08/30/95
32028.01	E9-BE	08/25/95		08/30/95
32029.01	S-50/175	08/25/95		08/30/95
32030.01	S-75/175	08/25/95		08/30/95
32031.01	S-100/250	08/25/95		08/30/95
32032.01	S-100/225	08/25/95		08/30/95
32033.01	S-175/250	08/25/95		08/30/95
32034.01	S-200/325	08/25/95		08/30/95
32035.01	S-125/250	08/25/95		08/30/95
32036.01	S-150/250	08/25/95		08/30/95
32037.01	S-50/200	08/25/95		08/30/95
32038.01	S-175/300	08/25/95		08/30/95
32039.01	S-250/350	08/25/95		08/30/95
32040.01	E6-BE	08/25/95		08/30/95

JOB NUMBER : 9501.964

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
SOLIDS-TOTAL (MET) -S				
32041.01	E5-BE	08/25/95		08/30/95
32042.01	E3-BE	08/25/95		08/30/95
32043.01	E4-BE	08/25/95		08/30/95
32044.01	E7-BE	08/25/95		08/30/95
32045.01	S-50/150	08/25/95		08/30/95
32046.01	S-250/325	08/25/95		08/30/95
32047.01	S-125/300	08/25/95		08/30/95

TEST CODE :STSMET1 JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-32022		
S-125/275	86	
EE-95-32023		
S-150/225	89	
EE-95-32024		
S-225/300	82	
EE-95-32025		
S-200/375	76	
EE-95-32026		
S-150/300	85	
EE-95-32027		
S-200/300	82	
EE-95-32028		
E9-BE	86	
EE-95-32029		
S-50/175	84	
EE-95-32030		
S-75/175	82	
EE-95-32031		
S-100/250	85	
EE-95-32032		
S-100/225	83	
EE-95-32033		
S-175/250	84	
EE-95-32034		
S-200/325	94	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

TEST CODE :STSMET1 JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-32035 S-125/250	83	
EE-95-32036 S-150/250	84	
EE-95-32037 S-50/200	81	
EE-95-32038 S-175/300	90	
EE-95-32039 S-250/350	80	
EE-95-32040 E6-BE	88	
EE-95-32041 E5-BE	88	
EE-95-32042 E3-BE	90	
EE-95-32043 E4-BE	84	
EE-95-32044 E7-BE	82	
EE-95-32045 S-50/150	91	
EE-95-32046 S-250/325	86	
EE-95-32047 S-125/300	81	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF LIQUID SAMPLES

9501.964

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	32031	85.0	84.9	0.2
	32040	88.1	88.9	0.8

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 87 %
SAMPLE ID LAB : EE-95-32022 MATRIX: SOLID
SAMPLE ID CLIENT: S-125/275

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	11		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 89 %
SAMPLE ID LAB : EE-95-32023 MATRIX: SOLID
SAMPLE ID CLIENT: S-150/225

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	97		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 82 %
SAMPLE ID LAB : EE-95-32024 MATRIX: SOLID
SAMPLE ID CLIENT: S-225/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	14		6.1	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 76 %
SAMPLE ID LAB : EE-95-32025 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/375

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	26		6.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 85 %
SAMPLE ID LAB : EE-95-32026 MATRIX: SOLID
SAMPLE ID CLIENT: S-150/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	14		5.9	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 82 %
SAMPLE ID LAB : EE-95-32027 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	16		6.1	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 86 %
SAMPLE ID LAB : EE-95-32028 MATRIX: SOLID
SAMPLE ID CLIENT: E9-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	22		5.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 84 %
SAMPLE ID LAB : EE-95-32029 MATRIX: SOLID
SAMPLE ID CLIENT: S-50/175

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	970		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 85 %
SAMPLE ID LAB : EE-95-32031 MATRIX: SOLID
SAMPLE ID CLIENT: S-100/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	24		5.9	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 83 %
SAMPLE ID LAB : EE-95-32032 MATRIX: SOLID
SAMPLE ID CLIENT: S-100/225

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	47		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 84 %
SAMPLE ID LAB : EE-95-32033 MATRIX: SOLID
SAMPLE ID CLIENT: S-175/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	77		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 94 %
SAMPLE ID LAB : EE-95-32034 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	91		5.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 83 %
SAMPLE ID LAB : EE-95-32035 MATRIX: SOLID
SAMPLE ID CLIENT: S-125/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	23		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 84 %
SAMPLE ID LAB : EE-95-32036 MATRIX: SOLID
SAMPLE ID CLIENT: S-150/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	18		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-32037 MATRIX: SOLID
SAMPLE ID CLIENT: S-50/200

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	25		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 90 %
SAMPLE ID LAB : EE-95-32038 MATRIX: SOLID
SAMPLE ID CLIENT: S-175/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	50		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 80 %
SAMPLE ID LAB : EE-95-32039 MATRIX: SOLID
SAMPLE ID CLIENT: S-250/350

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	36		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 88 %
SAMPLE ID LAB : EE-95-32040 MATRIX: SOLID
SAMPLE ID CLIENT: E6-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	82		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 88 %
SAMPLE ID LAB : EE-95-32041 MATRIX: SOLID
SAMPLE ID CLIENT: E5-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	9.9		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 90 %
SAMPLE ID LAB : EE-95-32042 MATRIX: SOLID
SAMPLE ID CLIENT: E3-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	420		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 84 %
SAMPLE ID LAB : EE-95-32043 MATRIX: SOLID
SAMPLE ID CLIENT: E4-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	25		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 82 %
SAMPLE ID LAB : EE-95-32044 MATRIX: SOLID
SAMPLE ID CLIENT: E7-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	17		6.1	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 91 %
SAMPLE ID LAB : EE-95-32045 MATRIX: SOLID
SAMPLE ID CLIENT: S-50/150

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	3500		5.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 86 %
SAMPLE ID LAB : EE-95-32046 MATRIX: SOLID
SAMPLE ID CLIENT: S-250/325

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1100		5.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-32047 MATRIX: SOLID
SAMPLE ID CLIENT: S-125/300

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	110		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF LIQUID SAMPLES

9501.964

(mg/kg)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	32022	9.83	17.2	54
Lead	32023	86.1	46.6	64
Lead	32024	11.7	12.9	9.8

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED LIQUID SAMPLES

9501.964

(mg/kg)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	32022	9.83	69.7	50	120
Lead	32023	86.1	119	50	65.8
Lead	32024	11.7	70.9	50	118

THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE I (08/26)

9501.964

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1200	1000	120

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE II (08/26)

9501.964

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1200	1000	120

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.964
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: [illegible] Date: 9/5/95

Report Title: [illegible]

Client: [illegible]

Laboratory Data Review	Supervisor	Date
Metals	RS	9/6/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	[illegible]	9/5/95
1st Draft Reviewed by:	[illegible]	9/5/95
[illegible]	[illegible]	9/5/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	JK	9/6/95
ASC Manager:	[illegible]	9/9/95
QA Officer:		
Corp. Project Manager: [illegible] (Internal Job)	DPA	9/14/95
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: [illegible]	JK	9/6/95
1 Invoices Sent to Accounting	JK	9/6/95

Comments/Notes: [illegible]

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck

FROM: Gary Hahn Gary Hahn

DATE: September 5, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9501.981

CC: Lab File

Attached is the laboratory report of the analysis conducted on nine samples received at the Analytical Services Center on August 29, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 8/30/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: SD6050
Project Name: ERNST STEEL
Project Manager: B. PELK
Samplers: (Signatures)
Field Team Leader: John PELK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TOTAL LEAD (7421)	REMARKS
001	8/29/95	09:55		X		LEAD/CHROMIUM - MED (3000 ppm)	BACKGROUND #3	1	✓	
002	8/29/95	10:00					BACKGROUND #1	1	✓	
003		10:03					BACKGROUND #2	1	✓	
004		10:05					S-175/225 P	1	✓	
005		10:12					S-200/385 P	1	✓	
006		10:16					S-225/372 P	1	✓	
007		10:19					S-250/354 P	1	✓	
008		10:28					S-12/250 (T)	1	✓	
009		10:34					S-15/200 (T)	1	✓	
							JP 8/29/95			

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By (Signature)	Ship Via:
						HAND DELIVER
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: —
Relinquished By: (Signature) JP 8/29/95	Date/Time: 1730 8/29/95	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 8/29/95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9501.981

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
32129.01	BACKGROUND #1	08/29/95	08/29/95	08/30/95
32130.01	BACKGROUND #2	08/29/95	08/29/95	08/30/95
32131.01	BACKGROUND #3	08/29/95	08/29/95	08/30/95
32132.01	S-12/250	08/29/95	08/29/95	08/30/95
32133.01	S-15/200	08/29/95	08/29/95	08/30/95
32134.01	S-175/225	08/29/95	08/29/95	08/30/95
32135.01	S-200/385	08/29/95	08/29/95	08/30/95
32136.01	S-225/372	08/29/95	08/29/95	08/30/95
32137.01	S-250/355	08/29/95	08/29/95	08/30/95
SOLIDS-TOTAL (MET) -S				
32129.01	BACKGROUND #1	08/29/95		08/30/95
32130.01	BACKGROUND #2	08/29/95		08/30/95
32131.01	BACKGROUND #3	08/29/95		08/30/95
32132.01	S-12/250	08/29/95		08/30/95
32133.01	S-15/200	08/29/95		08/30/95
32134.01	S-175/225	08/29/95		08/30/95
32135.01	S-200/385	08/29/95		08/30/95
32136.01	S-225/372	08/29/95		08/30/95
32137.01	S-250/355	08/29/95		08/30/95

TEST CODE :STSMET1 JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-32129 BACKGROUND #1	99	
EE-95-32130 BACKGROUND #2	98	
EE-95-32131 BACKGROUND #3	98	
EE-95-32132 S-12/250	95	
EE-95-32133 S-15/200	99	
EE-95-32134 S-175/225	93	
EE-95-32135 S-200/385	91	
EE-95-32136 S-225/372	93	
EE-95-32137 S-250/355	72	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.981

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	32131	97.8	97.8	0.0

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 99 %
SAMPLE ID LAB : EE-95-32129 MATRIX: SOLID
SAMPLE ID CLIENT: BACKGROUND #1

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	21		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 99 %
SAMPLE ID LAB : EE-95-32130 MATRIX: SOLID
SAMPLE ID CLIENT: BACKGROUND #2

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	38		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 98 %
SAMPLE ID LAB : EE-95-32131 MATRIX: SOLID
SAMPLE ID CLIENT: BACKGROUND #3

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	460		5.1	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 95 %
SAMPLE ID LAB : EE-95-32132 MATRIX: SOLID
SAMPLE ID CLIENT: S-12/250

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	47		5.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 99 %
SAMPLE ID LAB : EE-95-32133 MATRIX: SOLID
SAMPLE ID CLIENT: S-15/200

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	970		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 93 %
SAMPLE ID LAB : EE-95-32134 MATRIX: SOLID
SAMPLE ID CLIENT: S-175/225

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	440		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 91 %
SAMPLE ID LAB : EE-95-32135 MATRIX: SOLID
SAMPLE ID CLIENT: S-200/385

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1200		5.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 93 %
SAMPLE ID LAB : EE-95-32136 MATRIX: SOLID
SAMPLE ID CLIENT: S-225/372

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	35		5.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 72 %
SAMPLE ID LAB : EE-95-32137 MATRIX: SOLID
SAMPLE ID CLIENT: S-250/355

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1700		6.9	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.981

(mg/kg as received)

Parameter	E & E Laboratory No. 95-32137	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		1230	1090	12.0

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9501.981

(mg/kg as received)

Parameter	E & E Laboratory No. 95-31237	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		1230	1260	50	4X

4X = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

LABORATORY CONTROL SAMPLE (08/29)

9501.981

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	894	1000	89.4

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.981
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (1192) MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 6502.145 Date: 6/16/95

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	[signature]	9/19/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	[signature]	6/16/95
1st Draft Reviewed by: CIRCULATED..	[signature]	6/16/95
	[signature]	9/19/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	[signature]	9/20/95
ASC Manager:	[signature]	9-22-95
QA Officer:		
Corp. Project Manager: DAVE ALBERS (Internal Job)	[signature]	10/2/95
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: DAVE ALBERS	[signature]	9/20/95
1 Invoices Sent to Accounting	[signature]	9/20/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers

FROM: Gary Hahn

DATE: September 19, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9502.145

CC: Lab File

Attached is the laboratory report of the analysis conducted on three samples received at the Analytical Services Center on September 15, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 9/18/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

9-15-95

CHAIN-OF-CUSTODY RECORD

Project No.	Project Name	Project Manager
SD-6050	ERNST STEEL SITE	B. PECK

Samplers: (Signatures) Neil McAuliffe

Field Team Leader: J. PECK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION — EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	total LEAD	TCL - (LEAD)	REMARKS
1	9/15	4:15		X		Low level LEAD (TCL)	E-11-BE	1	X		Bottom Excavation.
2	9/15	4:20		X			E11-BE MS/MSD	1	X		MS/MSD Bottom Excavation.
3	9/15	4:30		X			S-50/150	1	X		Bottom Excavation.
4	9/15	4:35		X			S-50/175	1	X		Bottom Excavation.

Neil McAuliffe 9-15-95

Relinquished By: (Signature)	Date/Time	Received By (Signature)	Relinquished By: (Signature)	Date/Time	Received By (Signature)	Ship Via:
						N/A
Relinquished By: (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	BL/Airbill Number: N/A
Relinquished By: (Signature) Neil McAuliffe	Date/Time 9-15-95 4:55	Received For Laboratory By (Signature)	Relinquished By (Signature)	Date/Time	Received For Laboratory By: (Signature)	Date: 9-15-95

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

0571194

*See CONCENTRATION RANGE on back of form.

TEST CODE :STSMET1 JOB NUMBER :9502.145
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-33025 E-11-BE	86	
EE-95-33026 S-50//50	88	
EE-95-33027 S-50/175	83	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

JOB NUMBER : 9502.145

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
33025.01	E-11-BE	09/15/95	09/18/95	09/18/95
33026.01	S-50//50	09/15/95	09/18/95	09/18/95
33027.01	S-50/175	09/15/95	09/18/95	09/18/95
SOLIDS-TOTAL (MET) -S				
33025.01	E-11-BE	09/15/95		09/18/95
33026.01	S-50//50	09/15/95		09/18/95
33027.01	S-50/175	09/15/95		09/18/95

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.145

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	33025	86.3	86.4	0.1

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9502.145
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 86 %
SAMPLE ID LAB : EE-95-33025 MATRIX: SOLID
SAMPLE ID CLIENT: E-11-BE

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	38		5.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.145
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 88 %
SAMPLE ID LAB : EE-95-33026 MATRIX: SOLID
SAMPLE ID CLIENT: S-50//50

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	29		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.145
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 83 %
SAMPLE ID LAB : EE-95-33027 MATRIX: SOLID
SAMPLE ID CLIENT: S-50/175

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	24		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.145

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	33025	32.9	27.5	17.9

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.145

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	33025	32.9	66.8	50	67.8

THIS RECOVERY IS NOT WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR POST SPIKED SOLID SAMPLES

9502.145

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	33025	32.9	87.3	50	109

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE II (09/18)

9502.145

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	997	1000	99.7

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9502.145
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9502.163 Date: 9/28/95

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	[illegible]	9/28/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	JK	9/28/95
1st Draft Reviewed by:	JK	9/28/95
CIRCULATED.	JK	9/28/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	JK	9/29/95
ASC Manager:	[illegible]	9/28/95
QA Officer:		
Corp. Project Manager: DAVE ALBERS (Internal Job)	[illegible]	9/29/95
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: DAVE ALBERS	JK	9/29/95
1 Invoices Sent to Accounting	JK	9/29/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers

FROM: Gary Hahn

DATE: September 28, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9502.153

CC: Lab File

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on September 19, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 9/19/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

9-19-95

CHAIN-OF-CUSTODY RECORD

Project No.	Project Name	Project Manager
SD-6050	ERNST STEEL SITE	D. ALBERS X2404

Samplers: (Signatures) Dilbar Mayfield

Field Team Leader: J. PECK

ASAP!!!
TCL - LEAD ONLY

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION 4½	NUMBER OF CONTAINERS	REMARKS
1	9/19	1130		X		LOW LEVEL LEAD...	E11-PN	1	QUICK TURNAROUND REQUIRED by 9-20-95 (AM) MORNING TO D. ALBERS FAX X-2404 ANY QUESTIONS.
2	9/19	1133		X		" " "	E11-PS	1	

9502.163

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
						DROP-OFF LAB
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number:
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	N/A
R. Mauck	9/19/95 1705					Date: 9-19-95

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9502.163

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
33133.01	E11-PN	09/19/95	09/19/95	09/19/95
33134.01	E11-PS	09/19/95	09/19/95	09/19/95
SOLIDS-TOTAL (MET) -S				
33133.01	E11-PN	09/19/95		09/19/95
33134.01	E11-PS	09/19/95		09/19/95

TEST CODE :STSMET1 JOB NUMBER :9502.163
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-33133		
E11-PN	88	
EE-95-33134		
E11-PS	84	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.163

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	33133	88.2	87.6	0.7

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9502.163
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 88 %
SAMPLE ID LAB : EE-95-33133 MATRIX: SOLID
SAMPLE ID CLIENT: E11-PN

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	50		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.163
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 84 %
SAMPLE ID LAB : EE-95-33134 MATRIX: SOLID
SAMPLE ID CLIENT: E11-PS

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	43		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.163
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9502.831 Date: 12/14/95

Report Title: Gantt Steel

Client:

Laboratory Data Review	Supervisor	Date
Metals	RS	12/14/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	VP	12/14/95
1st Draft Reviewed by:	VP	12/14/95
Carbonated (1:30pm)	LP	12/14/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		
ASC Manager:		12 14 95
QA Officer:		
Corp. Project Manager: Dave Albert (Internal Job)		
All QA Protocol Review Forms Signed and in File (to be signed by report writer) → ASC		
1 Copies of Report Sent to: Client via Dave Albert	JNK	12/14/95
1 Invoices Sent to Accounting		12/14/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers

FROM: Gary Hahn Gary Hahn kr

DATE: December 14, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9502.831

CC: Lab File

Attached is the laboratory report of the analysis conducted on one sample received at the Analytical Services Center on December 8, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 12/12/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

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Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.:	Project Name:	Project Manager:
SD-6050	ERNST STEEL SITE	DAVE ALBANS (TEXT 2404)

Samplers: (Signatures) Rick Mayberry — Sample Date 12-7-95

Field Team Leader: J. PECK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCL-LEAD	REMARKS
1	12/7/95	11:19		X		LOW LEVEL LEAD (TCL)	E-1e	1	X	EXCAVATION #1 / EAST ELEVATION

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Relinquished By: (Signature) Robert Murphy	Date/Time: 12/8/95 2:25PM	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number: N/a — Date: 12-8-95

Ship Via: N/a

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9502.831

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
37179.01	E-1E	12/07/95	12/08/95	12/11/95
SOLIDS-TOTAL (MET) -S				
37179.01	E-1E	12/07/95		12/09/95

TEST CODE :STSMET1 JOB NUMBER :9502.831
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-37179 E-1E	85	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.831

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	37179	85.4	84.6	0.9

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9502.831
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 85 %
SAMPLE ID LAB : EE-95-37179 MATRIX: SOLID
SAMPLE ID CLIENT: E-1E

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	29		5.9	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.831

(mg/kg as received)

Parameter	E & E Laboratory No. 95-37179	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		25.0	24.5	2.0

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.831

(mg/kg as received)

Parameter	E & E Laboratory No. 95-37179	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		25.0	62.2	50	74.4

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (104)

9502.831

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1000	1000	100

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9502.831
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (104) MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9600.128 Date: 1-26-96

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	RS	1/29/96
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	RLH	1-26-96
1st Draft Reviewed by:	RLH	1-26-96
Circulated:	RLH	1-26-96
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		
ASC Manager:		
QA Officer:		
Corp. Project Manager: (Internal Job)		
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
____ Copies of Report Sent to: client via J. Albers	JK	1/30/96
____ Invoices Sent to Accounting	JK	1/30/96

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers

FROM: Gary Hahn

DATE: January 26, 1996

SUBJECT: SD-6000 Ernst Steel

RE: 9600.128

CC: Lab File

Attached is the laboratory report of the analysis conducted on three samples received at the Analytical Services Center on January 23, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/rh
Enclosure

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No	Project Name	Project Manager
SD-6050	ERNST STEEL SITE	D. ALBERS

Samplers (Signatures): [signature]

Field Team Leader: G.I MANUELE

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION — EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TOTAL LEAD	REMARKS
1	1-22-96	4:00 PM		X		h (low) LEAD	EXCAVATION #12 B	1	X	Bottom of Excavation
2	1-22-96	4:01		X			EXCAVATION #12 (DUP)	1	X	11 11
3	1-23-96	4:00		X			EXCAVATION #10B	1	X	Bottom of Excavation

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Relinquished By: (Signature) [signature]	Date/Time: 1-23-96 1130	Received For Laboratory By: (Signature) [signature]	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number: ✓

Ship Via: M/a

Date: 1-23-96

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

05/1194

JOB NUMBER : 9600.128

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
38753.01	EXCAVATION #12(DUP)	01/22/96	01/24/96	01/24/96
38754.01	EXCAVATION #12B	01/23/96	01/24/96	01/24/96
38755.01	EXCAVATION #10 B	01/23/96	01/24/96	01/24/96
SOLIDS-TOTAL (MET) -S				
38753.01	EXCAVATION #12(DUP)	01/22/96		01/24/96
38754.01	EXCAVATION #12B	01/23/96		01/24/96
38755.01	EXCAVATION #10 B	01/23/96		01/24/96

TEST CODE :STSMET1 JOB NUMBER :9600.128
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-96-38753 EXCAVATION #12(DUP)	78	
EE-96-38754 EXCAVATION #12B	76	
EE-96-38755 EXCAVATION #10 B	90	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9600.128

(%)

Parameter	E & E Laboratory No. 96-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	38753	77.6	76.6	1.3

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9600.128
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 78 %
SAMPLE ID LAB : EE-96-38753 MATRIX: SOLID
SAMPLE ID CLIENT: EXCAVATION #12(DUP)

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	420		6.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9600.128
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 76 %
SAMPLE ID LAB : EE-96-38754 MATRIX: SOLID
SAMPLE ID CLIENT: EXCAVATION #12B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	280		6.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9600.128
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 90 %
SAMPLE ID LAB : EE-96-38755 MATRIX: SOLID
SAMPLE ID CLIENT: EXCAVATION #10 B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1800		5.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9600.128

(mg/kg as received)

Parameter	E & E Laboratory No. 96-38753	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		324	510	44.6

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9600.128

(mg/kg as received)

Parameter	E & E Laboratory No. 96-38753	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		324	463	50	4X

4X = PERCENT RECOVERY IS NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

LABORATORY CONTROL SAMPLE (238)

9600.128

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	992	1000	99.2

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9600.128
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 1100.322 Date: 2/13/96

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals		
Gen. Chem.		
GC	CH	2/13/96
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	JK	2/13/96
1st Draft Reviewed by:	JK	2/12/96
QARC:	JK	2/12/96
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		
ASC Manager:		2/19/96
QA Officer:		
Corp. Project Manager: (Internal Job) LANE ALBERS	LA	2-16-96
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: DAVE ALBERS		
1 Invoices Sent to Accounting		

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers

FROM: Gary Hahn GH/gk

DATE: February 13, 1996

SUBJECT: SD-6000 Ernst Steel

RE: 9600.222

CC: Lab File

Attached is the laboratory report of the analysis conducted on three samples received at the Analytical Services Center on February 08, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Facsimiles of draft results were sent to you you on 02/12/96 and 02/13/96.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

2517

RUSH — 48 HR TURNAROUND

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York 14086 Tel 716 685 8080 Fax 716 685 0852
International Specialists in the Environment

CHAIN OF CUSTODY RECORD

Page 1 of 1

Project No	Project Name	Project Manager
SDG050	ERNST STOVER SITE	D. ALBERS
Samplers (Signatures)		**Field Team Leader**
T. V[illegible]		J. VALETH

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION — EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	PCB	REMARKS
1	2/8	0755				PCB (Low)	ESS-E10-1	1	X	STOCKPILE E10
2	2/8	0800				PCB (Low)	ESS-E10-2	1	X	STOCKPILE E10

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
T. V[illegible]	2/8/96 08:30					
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	BL/Airbill Number / Date
Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	
				2-8-96 8:30	Tony Boyle	

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form

0571194

JOB NUMBER : 9600.222

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

- SAMPLE NUMBER	CLIENT SAMPLE ID		DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
8080 PCB		-S			
39338.01	ESS-E10-1		02/08/96	02/08/96	02/09/96
39339.01	ESS-E10-2		02/08/96	02/08/96	02/08/96
CLP SOLIDS-TOTAL		-S			
39338.01	ESS-E10-1		02/08/96		02/08/96
39339.01	ESS-E10-2		02/08/96		02/08/96

TEST CODE :STSCLP1 JOB NUMBER :9600.222
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : CLP SOLIDS-TOTAL UNITS : %
PARAMETER : SOLIDS - TOTAL

SAMPLE ID	RESULTS	Q
EE-96-39338		
ESS-E10-1	74	
EE-96-39339		
ESS-E10-2	65	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9600.222

(%)

Parameter	E & E Laboratory No. 96-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	39339	65.3	76.3	15.6

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

TEST CODE :SPCB 1 JOB NUMBER :9600.222
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 74 %
TEST NAME : 8080 PCB UNITS : MG/KG
SAMPLE ID LAB : EE-96-39338 MATRIX : SOLID
SAMPLE ID CLIENT: ESS-E10-1

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.027
PCB-1254	0.18		0.027
PCB-1221	ND		0.027
PCB-1232	ND		0.027
PCB-1248	ND		0.027
PCB-1260	ND		0.027
PCB-1016	ND		0.027

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

TEST CODE :SPCB 1 JOB NUMBER :9600.222
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 65 %
TEST NAME : 8080 PCB UNITS : MG/KG
SAMPLE ID LAB : EE-96-39339 MATRIX : SOLID
SAMPLE ID CLIENT: ESS-E10-2

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.031
PCB-1254	0.11		0.031
PCB-1221	ND		0.031
PCB-1232	ND		0.031
PCB-1248	ND		0.031
PCB-1260	ND		0.031
PCB-1016	ND		0.031

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
(Sample # 39339)

9600.222

(mg/kg as received)

Parameter	Original Result	Amount Added		Amount Determined		Percent Recovery		RPD
		MS	MSD	MS	MSD	MS	MSD	
PCB-1242	ND	0.333	0.333	0.363	0.341	109	102	6.6

THESE RECOVERIES AND RPD ARE WITHIN E & E, INC. QC TARGETS.

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES
Laboratory Control Sample (6179)

9600.222

(mg/kg)

Parameter	Amount Added	Amount Determined	Percent Recovery
PCB-1242	0.333	0.357	107

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

9600.222

Compound	E & E Laboratory No. 96-	Percent Recovery
Tetra-chloro-m-xylene	39338	112
	39339	111
	39339 MS	138
	39339 MSD	136
	Method Blank (6180)	131
	LCS (6179)	144
Decachlorobiphenyl	39338	120
	39339	129
	39339 MS	147
	39339 MSD	137
	Method Blank (6180)	159*
	LCS (6179)	168*

WITH THE EXCEPTION OF THOSE RECOVERIES FLAGGED (*), THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS (60%-150%).

MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCS = LABORATORY CONTROL SAMPLE

TEST CODE :SPCB 1 JOB NUMBER :9600.222
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 65 %
TEST NAME : 8080 PCB UNITS : MG/KG
SAMPLE ID LAB : METHOD BLANK (6180) MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1242	ND		0.020
PCB-1254	ND		0.020
PCB-1221	ND		0.020
PCB-1232	ND		0.020
PCB-1248	ND		0.020
PCB-1260	ND		0.020
PCB-1016	ND		0.020

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
N = ANALYTE WAS NOT CONFIRMED BY ALTERNATE PROCEDURE

APPENDIX H

B&A'S MARCH 14, 1996 LETTER TO BENDERSON DEVELOPMENT CO., INC.

BARRON & ASSOCIATES, P.C.
10440 Main Street
Clarence, New York 14031

Tel: (716) 759-7821 Fax: (716) 759-7823

March 14, 1996

Benderson Development Company, Inc.
570 Delaware Avenue
Buffalo, New York 14202

Job No.:96-1229

ATTN: Mr. Clark Martens

RE: *Submittal; Field Inspection, Site Remediation Program, 1746 Walden Avenue, Cheektowaga, New York*

Ladies and Gentlemen:

Barron & Associates, P.C. (B&A) performed a field inspection at the above referenced site on March 14, 1996. In attendance were Richard L. Crouch, *B&A*, and Kevin Glaser, New York State Department of Environmental Conservation (NYSDEC). The purpose of the field inspection was to conduct a final inspection of the site prior to the remediation contractor, Nature's Way Environmental Consultants & Contractors, Inc. (NWEC&C) demobilizing from the site.

During a field inspection conducted on March 13, 1996 with Mr. Crouch, Mr. Glaser, Jaspal Walia, NYSDEC, Clark Martens, Benderson Development Company Inc. and Russ Savage, NWEC&C, in attendance, it was agreed upon by all present that the remediation effort to remove lead-contaminated fill at the site was complete except for two items. The two items were:

- The last on-site stockpile of material which consisted of a mixture of snow and soil/fill generated during a final scrapping of the area would be moved and staged on and covered with plastic in an area west of the westernmost outer wall of the Target facility presently under construction.

- Two discrete areas west of the former remediation process area which contained paint chips required further scrapping/excavation. The material generated during the scrapping/excavation of these two areas would be combined with the above relocated stockpile and the subsequent treatment/disposal of this material would be addressed later, but within 90 days of the material being staged.

On March 14, 1996, NWEC&C relocated the last on-site stockpile of material to the agreed upon staging area and placed the material on plastic. NWEC&C then removed the material of concern from the remaining two areas. The excavated material from these two areas was also placed in the aforementioned agreed upon staging area. The material in this area was then covered with plastic and the plastic cover secured.

Upon completion of the above activities by NWEC&C, Mr. Crouch and Mr. Glaser concurred that the two remaining items had been appropriately addressed; hence, the site remediation activities agreed upon by Benderson Development Company, Inc. and the NYSDEC were complete and the remediation contractor could exit the site.

Barron & Associates, P.C. appreciate the opportunity to be of assistance during this project. Should you have any questions, please do not hesitate to contact James S. Barron, P.E. or the undersigned at your convenience.

Yours truly,
BARRON & ASSOCIATES, P.C.

Richard L. Crouch
Senior Hydrogeolgist

cc: Jaspal Walia, P.E., NYSDEC
Kevin Glaser, NYSDEC
Craig A. Slater, Esq., Harter, Secrest and Emery
Michael Yeomans, Benderson

APPENDIX I

B&A'S SEPTEMBER 6, 1995 WASTE CHARACTERIZATION ANALYTICAL AND QUALITY CONTROL RESULTS

BUFFALO DRILLING COMPANY
INC.
10440 MAIN STREET
CLARENCE, NEW YORK
14031
(716) 759-7821
FAX (716) 759-7823

September 11, 1995 Job No.: 95-113C

Saperston & Day, P.C.
1100 M & T Center
Buffalo, New York 14203

ATTN: Craig A. Slater, Esq.

RE: Excavation of Soil/Fill Stockpiles,
Target Project, Walden Avenue &
Galleria Drive, Cheektowaga, New York

Dear Mr. Slater:

Buffalo Drilling Company, Inc. (BDC) and James S. Barron, P.E. Consulting Engineers, P.C. (BCE) have undertaken a sampling and laboratory analysis program at the above referenced project site.

On September 6, 1995, a senior geologist and geologist from BDC were present on site for the purpose of collecting samples of the stockpiled soil/fill materials located along the western portion of the project site. The sampling consisted of the following tasks:

- uncovered the plastic sheeting on the soil/fill stockpiles.
- placed sequentially numbered survey flags in each soil/fill stockpile to be sampled; a total of sixty-six soil/fill piles were identified (refer to the attached Figure 1).
- using pre-cleaned, laboratory-supplied, four ounce glass jars, and a new pair of disposable surgical gloves for each pile, three discrete samples were collected from each soil/fill stockpile. each discrete sample was labelled according to the respective soil/fill stockpile number located at the pile.

- the discrete samples from each pile were subsequently composited into one sample, which was placed into pre-cleaned, laboratory-supplied, six ounce plastic jars. The composite sample was labelled with the respective number of the soil/fill stockpile.

- subsequent to collecting the samples, a sketch of the soil/fill stockpiles was prepared (refer to attached Figure 1).

- subsequent to preparation of the sketch, the soil/fill stockpiles were recovered with the plastic sheeting, as well as possible, prior to leaving the site.

- a total of sixty-six composite soil/fill samples were properly labelled and transported to the analytical laboratory, Waste Stream Technology of Buffalo, New York, under chain-of-custody protocols.

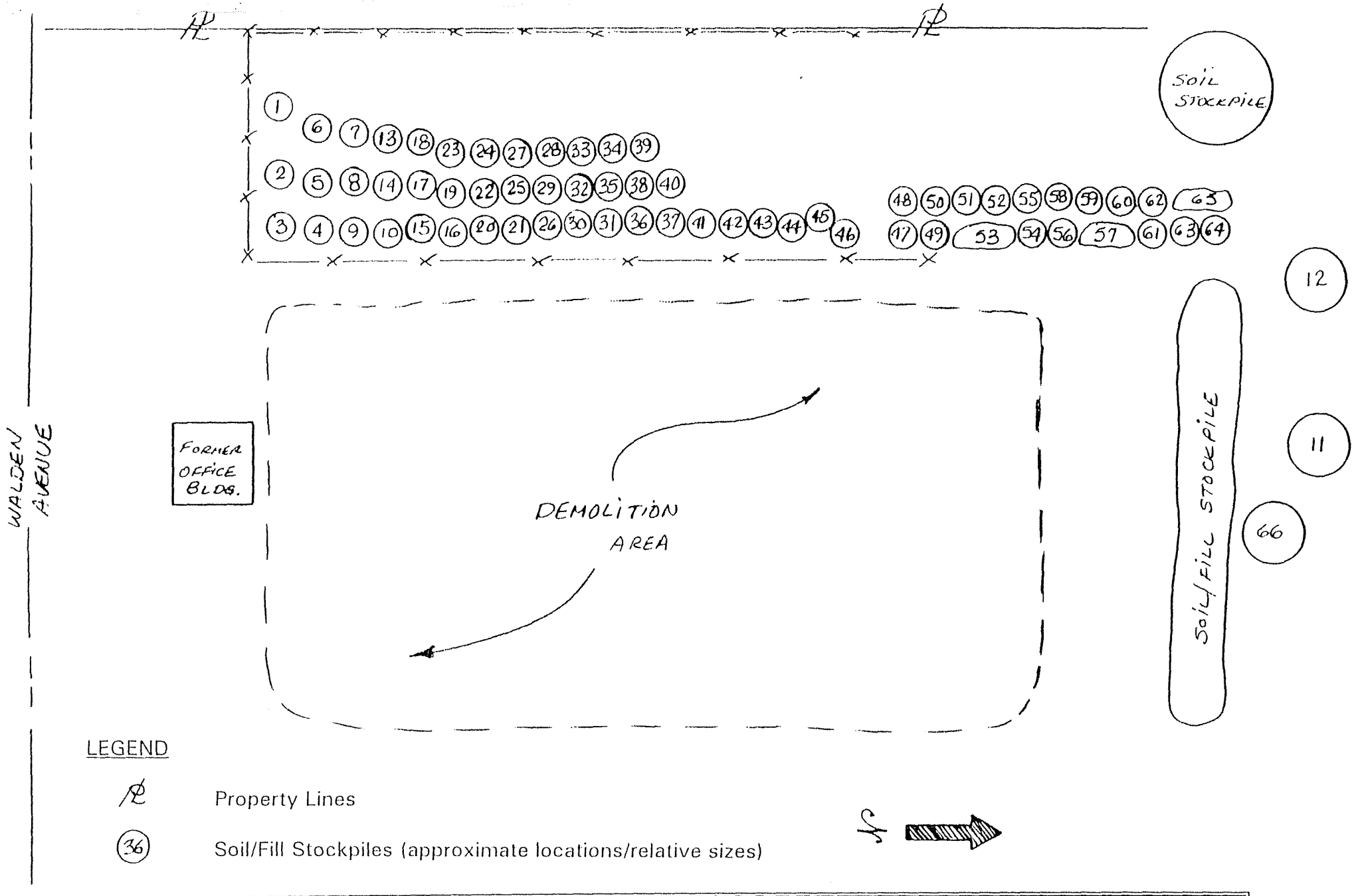
- the samples were subsequently analyzed via Toxicity Characteristic Leaching Procedure (TCLP) for lead, only, in accordance with USEPA SW-846 methodologies. The analytical results are pending and will be provided directly to Saperston & Day, P.C.

Thank you for the opportunity to assist you with this project. Please call Mr. Richard Crouch or the undersigned at your earliest convenience, if you have any questions.

Yours truly,
BUFFALO DRILLING COMPANY, INC.

Andrew J. Kucserik

Andrew J. Kucserik, CPG
Senior Geologist



LEGEND

℄ Property Lines

(36) Soil/Fill Stockpiles (approximate locations/relative sizes)

BUFFALO DRILLING COMPANY, INC. *10440 MAIN STREET* *CLARENCE, NEW YORK 14031*	SOIL PILE SAMPLING Former U.S. Steel Facility Cheektowaga, New York	*FIGURE:* 1
DATE: September 7, 1995	*JOB NO.:* 95-113C	*SCALE:* None

WASTE STREAM TECHNOLOGY
Laboratory Chronicle

Report Date : 9/11/95
Group Number : 9501-415

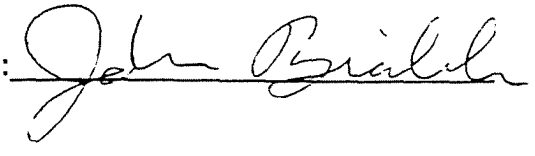
Prepared For :
Mr. Rick Crouch
Buffalo Drilling
10440 Main Street
Clarence, New York 14031

Site: U.S. Steel

Field and Laboratory Information

Analytical Services

Analytical Parameters	Number of Samples	Turnaround Time
TCLP LEAD	66	Standard

Report Released By : 

ENVIRONMENTAL LABORATORY ACCREDITATION
CERTIFICATION NUMBER (ELAP) 11179

WASTE STREAM TECHNOLOGY

WASTE STREAM TECHNOLOGY

Laboratory Chronicle

Report Date : 9/11/95

Group Number : 9501-415

Soil Pile #1	WS21343	Soil	9/6/95	9/6/95	1700
Soil Pile #2	WS21344	Soil	9/6/95	9/6/95	1700
Soil Pile #3	WS21345	Soil	9/6/95	9/6/95	1700
Soil Pile #4	WS21346	Soil	9/6/95	9/6/95	1700
Soil Pile #5	WS21347	Soil	9/6/95	9/6/95	1700
Soil Pile #6	WS21348	Soil	9/6/95	9/6/95	1700
Soil Pile #7	WS21349	Soil	9/6/95	9/6/95	1700
Soil Pile #8	WS21350	Soil	9/6/95	9/6/95	1700
Soil Pile #9	WS21351	Soil	9/6/95	9/6/95	1700
Soil Pile #10	WS21352	Soil	9/6/95	9/6/95	1700
Soil Pile #11	WS21353	Soil	9/6/95	9/6/95	1700
Soil Pile #12	WS21354	Soil	9/6/95	9/6/95	1700
Soil Pile #13	WS21355	Soil	9/6/95	9/6/95	1700
Soil Pile #14	WS21356	Soil	9/6/95	9/6/95	1700
Soil Pile #15	WS21357	Soil	9/6/95	9/6/95	1700
Soil Pile #16	WS21358	Soil	9/6/95	9/6/95	1700
Soil Pile #17	WS21359	Soil	9/6/95	9/6/95	1700
Soil Pile #18	WS21360	Soil	9/6/95	9/6/95	1700
Soil Pile #19	WS21361	Soil	9/6/95	9/6/95	1700
Soil Pile #20	WS21362	Soil	9/6/95	9/6/95	1700
Soil Pile #21	WS21363	Soil	9/6/95	9/6/95	1700
Soil Pile #22	WS21364	Soil	9/6/95	9/6/95	1700
Soil Pile #23	WS21365	Soil	9/6/95	9/6/95	1700
Soil Pile #24	WS21366	Soil	9/6/95	9/6/95	1700
Soil Pile #25	WS21367	Soil	9/6/95	9/6/95	1700
Soil Pile #26	WS21368	Soil	9/6/95	9/6/95	1700
Soil Pile #27	WS21369	Soil	9/6/95	9/6/95	1700
Soil Pile #28	WS21370	Soil	9/6/95	9/6/95	1700
Soil Pile #29	WS21371	Soil	9/6/95	9/6/95	1700
Soil Pile #30	WS21372	Soil	9/6/95	9/6/95	1700
Soil Pile #31	WS21373	Soil	9/6/95	9/6/95	1700
Soil Pile #32	WS21374	Soil	9/6/95	9/6/95	1700
Soil Pile #33	WS21375	Soil	9/6/95	9/6/95	1700
Soil Pile #34	WS21376	Soil	9/6/95	9/6/95	1700
Soil Pile #35	WS21377	Soil	9/6/95	9/6/95	1700
Sample Status Upon Receipt : No irregularities.					

WASTE STREAM TECHNOLOGY

Laboratory Chronicle

Report Date : 9/11/95

Group Number : 9501-415

Soil Pile #36	WS21378	Soil	9/6/95	9/6/95	1700
Soil Pile #37	WS21379	Soil	9/6/95	9/6/95	1700
Soil Pile #38	WS21380	Soil	9/6/95	9/6/95	1700
Soil Pile #39	WS21381	Soil	9/6/95	9/6/95	1700
Soil Pile #40	WS21382	Soil	9/6/95	9/6/95	1700
Soil Pile #41	WS21383	Soil	9/6/95	9/6/95	1700
Soil Pile #42	WS21384	Soil	9/6/95	9/6/95	1700
Soil Pile #43	WS21385	Soil	9/6/95	9/6/95	1700
Soil Pile #44	WS21386	Soil	9/6/95	9/6/95	1700
Soil Pile #45	WS21387	Soil	9/6/95	9/6/95	1700
Soil Pile #46	WS21388	Soil	9/6/95	9/6/95	1700
Soil Pile #47	WS21389	Soil	9/6/95	9/6/95	1700
Soil Pile #48	WS21390	Soil	9/6/95	9/6/95	1700
Soil Pile #49	WS21391	Soil	9/6/95	9/6/95	1700
Soil Pile #50	WS21392	Soil	9/6/95	9/6/95	1700
Soil Pile #51	WS21393	Soil	9/6/95	9/6/95	1700
Soil Pile #52	WS21394	Soil	9/6/95	9/6/95	1700
Soil Pile #53	WS21395	Soil	9/6/95	9/6/95	1700
Soil Pile #54	WS21396	Soil	9/6/95	9/6/95	1700
Soil Pile #55	WS21397	Soil	9/6/95	9/6/95	1700
Soil Pile #56	WS21398	Soil	9/6/95	9/6/95	1700
Soil Pile #57	WS21399	Soil	9/6/95	9/6/95	1700
Soil Pile #58	WS21400	Soil	9/6/95	9/6/95	1700
Soil Pile #59	WS21401	Soil	9/6/95	9/6/95	1700
Soil Pile #60	WS21402	Soil	9/6/95	9/6/95	1700
Soil Pile #61	WS21403	Soil	9/6/95	9/6/95	1700
Soil Pile #62	WS21404	Soil	9/6/95	9/6/95	1700
Soil Pile #63	WS21405	Soil	9/6/95	9/6/95	1700
Soil Pile #64	WS21406	Soil	9/6/95	9/6/95	1700
Soil Pile #65	WS21407	Soil	9/6/95	9/6/95	1700
Soil Pile #66	WS21408	Soil	9/6/95	9/6/95	1700

METHODOLOGIES

The specific methodologies employed in obtaining the analytical data reported are indicated on each of the result forms. The method numbers shown refer to the following U.S. Environmental Protection Agency Reference:

U.S. Environmental Protection Agency, "Method for Chemical Analysis of Water and Wastes," EPA 600/4-79-020, March 1983 Revision.

U.S. Environmental Protection Agency, "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods," Office of Solid Waste and Emergency Response, November 1986, SW-846, Third edition.

U.S. Environmental Protection Agency, Federal Register, 40 CFR Part 136, October 1984.

U.S. Environmental Protection Agency, Federal Register, 40 CFR Part 268, Appendix I, November 1986.

Waste Stream Technology Inc.

TCLP 3015/6010 ICP Result Report

Site : U.S. Steel
Date Sampled : 9/6/95
Date Received : 9/6/95 @ 1700
TCLP Extraction Date : 9/6/95

Group Number : 9501-415
Report Units : mg/L (PPM)
Matrix : TCLP Extract

WST Lab ID	Client ID	Date Digested	Date Analyzed	Lead
WS21343	Soil Pile #1	9/7/95	9/7/95	42
WS21344	Soil Pile #2	9/7/95	9/7/95	0.63
WS21345	Soil Pile #3	9/7/95	9/7/95	4.1
WS21346	Soil Pile #4	9/7/95	9/7/95	4.0
WS21347	Soil Pile #5	9/7/95	9/7/95	3.3
WS21348	Soil Pile #6	9/7/95	9/7/95	13
WS21349	Soil Pile #7	9/7/95	9/7/95	73
WS21350	Soil Pile #8	9/7/95	9/7/95	26
WS21351	Soil Pile #9	9/7/95	9/7/95	11
WS21352	Soil Pile #10	9/7/95	9/7/95	7.1
WS21353	Soil Pile #11	9/7/95	9/7/95	0.25
WS21354	Soil Pile #12	9/7/95	9/7/95	74
WS21355	Soil Pile #13	9/7/95	9/7/95	6.4
WS21356	Soil Pile #14	9/7/95	9/7/95	7.2
WS21357	Soil Pile #15	9/7/95	9/7/95	2.3
WS21358	Soil Pile #16	9/7/95	9/7/95	6.2
WS21359	Soil Pile #17	9/7/95	9/7/95	8.8
WS21360	Soil Pile #18	9/7/95	9/7/95	10
WS21361	Soil Pile #19	9/7/95	9/7/95	4.2
WS21362	Soil Pile #20	9/7/95	9/7/95	7.4
WS21363	Soil Pile #21	9/7/95	9/7/95	9.5
WS21364	Soil Pile #22	9/7/95	9/7/95	14
WS21365	Soil Pile #23	9/7/95	9/7/95	43
WS21366	Soil Pile #24	9/7/95	9/7/95	17
WS21367	Soil Pile #25	9/7/95	9/7/95	29
WS21368	Soil Pile #26	9/7/95	9/7/95	15
WS21369	Soil Pile #27	9/7/95	9/7/95	8.5
WS21370	Soil Pile #28	9/7/95	9/7/95	15
WS21371	Soil Pile #29	9/7/95	9/7/95	5.9
WS21372	Soil Pile #30	9/7/95	9/7/95	9.8
WS21373	Soil Pile #31	9/7/95	9/7/95	5.9
WS21374	Soil Pile #32	9/7/95	9/7/95	7.1
WS21375	Soil Pile #33	9/7/95	9/7/95	17
WS21376	Soil Pile #34	9/7/95	9/7/95	1.3
WS21377	Soil Pile #35	9/7/95	9/7/95	15

Pb Detection Limit: 0.120 mg/L

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.

TCLP 3015/6010 ICP Result Report

Site : U.S. Steel
Date Sampled : 9/6/95
Date Received : 9/6/95 @ 1700
TCLP Extraction Date : 9/6/95

Group Number : 9501-415
Report Units : mg/L (PPM)
Matrix : TCLP Extract

WST Lab ID	Client ID	Date Digested	Date Analyzed	Lead
WS21378	Soil Pile #36	9/7/95	9/7/95	13
WS21379	Soil Pile #37	9/7/95	9/7/95	19
WS21380	Soil Pile #38	9/7/95	9/7/95	65
WS21381	Soil Pile #39	9/7/95	9/7/95	3.6
WS21382	Soil Pile #40	9/7/95	9/7/95	7.1
WS21383	Soil Pile #41	9/7/95	9/7/95	37
WS21384	Soil Pile #42	9/7/95	9/7/95	14
WS21385	Soil Pile #43	9/7/95	9/7/95	36
WS21386	Soil Pile #44	9/7/95	9/7/95	9.4
WS21387	Soil Pile #45	9/7/95	9/7/95	25
WS21388	Soil Pile #46	9/7/95	9/7/95	3.1
WS21389	Soil Pile #47	9/7/95	9/7/95	148
WS21390	Soil Pile #48	9/7/95	9/7/95	1.9
WS21391	Soil Pile #49	9/7/95	9/7/95	44
WS21392	Soil Pile #50	9/7/95	9/7/95	4.3
WS21393	Soil Pile #51	9/7/95	9/7/95	14
WS21394	Soil Pile #52	9/7/95	9/7/95	4.6
WS21395	Soil Pile #53	9/7/95	9/7/95	1.4
WS21396	Soil Pile #54	9/7/95	9/7/95	25
WS21397	Soil Pile #55	9/7/95	9/7/95	2.2
WS21398	Soil Pile #56	9/7/95	9/7/95	41
WS21399	Soil Pile #57	9/7/95	9/7/95	28
WS21400	Soil Pile #58	9/7/95	9/7/95	3.3
WS21401	Soil Pile #59	9/7/95	9/7/95	2.9
WS21402	Soil Pile #60	9/7/95	9/7/95	7.2
WS21403	Soil Pile #61	9/7/95	9/7/95	8.2
WS21404	Soil Pile #62	9/7/95	9/7/95	2.4
WS21405	Soil Pile #63	9/7/95	9/7/95	5.7
WS21406	Soil Pile #64	9/7/95	9/7/95	5.4
WS21407	Soil Pile #65	9/7/95	9/7/95	158
WS21408	Soil Pile #66	9/7/95	9/7/95	18
MBRR2460	NA	9/7/95	9/7/95	<0.120
MBRR2461	NA	9/7/95	9/7/95	<0.120
MBRR2463	NA	9/7/95	9/7/95	<0.120
MBRR2464	NA	9/7/95	9/7/95	<0.120

Pb Detection Limit: 0.120 mg/L

MB- denotes Method Blank.

NA- denotes not applicable.

WASTE STREAM TECHNOLOGY

WASTE STREAM TECHNOLOGY

302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

CHAIN OF CUSTODY RECORD

9501-415

PROJECT NO: 95-113C

SITE NAME: U.S. Steel

SAMPLERS (SIGNATURE): Amy Lyncott BDCT

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP LEAD	TCLP Lead PRESERVATIVES Results (mg/L)	REMARKS
95-113C-01	9/2	—	X		S	Soil Pile #1	1	✓	42	WS213413
02			X		S	" #2	1	✓	0.63	44
03			X		S	" #3	1	✓	4.1	45
04			X		S	" #4	1	✓	4.0	46
05			X		S	" #5	1	✓	33	47
06			X		S	" #6	1	✓	13	48
07			X		S	" #7	1	✓	73	49
08			X		S	" #8	1	✓	26	50
09			X		S	" #9	1	✓	11	51
10			X		S	" #10	1	✓	7.1	52
11			X		S	" #11	1	✓	0.25	53
12			X		S	" #12	1	✓	74	54
13			X		S	" #13	1	✓	6.4	55

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
Amy Lyncott	9/6/95 5:00pm	
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
	DATE/TIME	REMARKS

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

STREAM TECHNOLOGY
302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

CHAIN OF CUSTODY RECORD

9501-415

PROJECT NO: 95-113c
SITE NAME: U. S. Steel
SAMPLERS (SIGNATURE): BDCI

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP LEAD							TCLP Lead PRESERVATIVES Results (mg/L)	REMARKS
95-113c-14	9/6		X		S	Soil Pile #14	1	✓							7.2	CW521356
-15			X		S	#15	1	✓							2.3	57
-16			X		S	#16	1	✓							6.2	58
-17			X		S	#17	1	✓							8.8	59
-18			X		S	#18	1	✓							10	60
-19			X		S	#19	1	✓							4.2	61
-20			X		S	#20	1	✓							7.4	62
-21			X		S	#21	1	✓							9.5	63
-22			X		S	#22	1	✓							14	64
-23			X		S	#23	1	✓							43	65
-24			X		S	#24	1	✓							17	66
-25			X		S	#25	1	✓							29	67
-26			X		S	#26	1	✓							15	68

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
[signature]	9/6/96 500	[signature]			
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

coordinator field files

STREAM TECHNOLOGY

302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

CHAIN OF CUSTODY RECORD

9501-415

PROJECT NO: 95-113C

SITE NAME: U. S. Steel

SAMPLERS (SIGNATURE): BDCI

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP LEAD	TCLP Lead PRESERVATIVES Results (mg/L)	REMARKS
95-113C-27	9C		X		S	Soil Pile #27	1	✓	8.5	WS21369
-28			X		S	#28	1	✓	15	70
-29			X		S	#29	1	✓	5.9	71
-30			X		S	#30	1	✓	9.8	72
-31			X		S	#31	1	✓	5.9	73
-32			X		S	#32	1	✓	7.1	74
-33			X		S	#33	1	✓	17	75
-34			X		S	#34	1	✓	1.3	76
-35			X		S	#35	1	✓	15	77
-36			X		S	#36	1	✓	13	78
-37			X		S	#37	1	✓	19	79
-38			X		S	#38	1	✓	65	80
-39			X		S	#39	1	✓	3.6	81

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
	9C/95 500PM				
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

STREAM TECHNOLOGY

302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

9501-415

CHAIN OF CUSTODY RECORD

PROJECT NO: 95-113C

SITE NAME: U. S. Steel

SAMPLERS (SIGNATURE): Andrew Kissock BOCI

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP LEAD	TCLP Lead PRESERVATIVES Results (mg/L)	REMARKS
95-113C-40	9/6		X		S	Soil Pile #40	1	✓	7.1	WS21382
-41			X			#41	1	✓	37	83
-42			X			#42	1	✓	14	84
-43			X			#43	1	✓	36	85
-44			X			#44	1	✓	9.4	86
-45			X			#45	1	✓	25	87
-46			X			#46	1	✓	3.1	88
-47			X			#47	1	✓	148	89
-48			X			#48	1	✓	1.9	90
-49			X			#49	1	✓	44	91
-50			X			#50	1	✓	4.3	92
-51			X			#51	1	✓	14	93
-52			X			#52	1	✓	4.6	94

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
Andrew Kissock	9/6/95 500				
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

STREAM TECHNOLOGY
302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

9501-415

CHAIN OF CUSTODY RECORD

PROJECT NO: 95-113C
SITE NAME: U.S. Steel
SAMPLERS (SIGNATURE): BDCL

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP LEAD	TCLP Lead PRESERVATIVES Results (mg/L)	REMARKS
95-113C-53	9/6		X		S	Soil Pile #53	1	✓	1.4	WS21395
-54			X			#54	1	✓	25	96
-55			X			#55	1	✓	2.2	97
-56			X			#56	1	✓	41	98
-57			X			#57	1	✓	28	99
-58			X			#58	1	✓	3.3	WS21400
-59			X			#59	1	✓	2.9	01
-60			X			#60	1	✓	7.2	02
-61			X			#61	1	✓	8.2	03
-62			X			#62	1	✓	2.4	04
-63			X			#63	1	✓	5.7	05
-64			X			#64	1	✓	5.4	06
-65			X			#65	1	✓	158.	07

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
	9/6/95 5000				
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

APPENDIX J

B&A'S SEPTEMBER 15, 1995 WASTE CHARACTERIZATION ANALYTICAL AND QUALITY CONTROL RESULTS

BUFFALO DRILLING COMPANY
INC.
10440 MAIN STREET
CLARENCE, NEW YORK
14031
(716) 759-7821
FAX (716) 759-7823

September 25, 1995 Job No.: 95-113E

Saperston & Day, P.C.
1100 M & T Center
Buffalo, New York 14203

ATTN: Craig A. Slater, Esq.

RE: ***Submittal:*** *Soil/Waste Pile Sampling for TCLP Analysis (Lead Only), Target Project, Walden Avenue & Galleria Drive, Cheektowaga, New York*

Ladies and Gentlemen:

Buffalo Drilling Company, Inc. (BDC) and James S. Barron, P.E. Consulting Engineers, P.C. (BCE) have undertaken a sampling and laboratory analysis program at the above referenced project site. During a previous sampling event, 48 soil/waste piles were identified as exceeding the regulatory limit for lead via Toxicity Characteristic Leaching Procedure (TCLP). The purpose of this sampling and analytical program was to subdivide the 48 soil/waste piles and resample.

On September 15, 1995, field personnel from *BDC* were present on site for the purpose of collecting composite samples of the stockpiled soil/fill materials of concern located along the western portion of the project site (Figure 1, Attachment 1). As noted above, 48 soil/waste piles were previously identified as exceeding the leachable limit for lead via TCLP. One of the identified soil/waste piles, No. 66, was separated into 22 piles for the purpose of this sampling event; thus, creating a total of 69 piles that were to be sampled. The actual number of waste piles sampled was 68. Waste pile #12 was not located during this sampling event.

Each of the identified soil/waste piles, was subdivided along a north-south axis. A composite sample consisting of three discrete samples was prepared for each side and identified as the previously designated pile number, excluding waste pile #66, and east or west depending on the section of the pile the composite represented (refer to Sampling Scheme, Attachment 1). The 22 waste piles which previously constituted waste pile #66 were identified as A-1 through A-22 (Figure 1, Attachment 1).

The above sampling and compositing scheme generated a total of 136 composite samples which were properly labelled and transported to the analytical laboratory, Waste Stream Technology, Inc., Buffalo, New York, under chain-of-custody protocols.

The samples were analyzed via Toxicity Characteristic Leaching Procedure (TCLP) for lead only in accordance with USEPA SW-846 methodologies. The analytical results have been submitted directly to Saperston & Day, P.C. and Benderson Development Company, Inc. under separate covers

Thank you for the opportunity to assist you with this project. Please call Mr. James S. Barron, P.E., President, or the undersigned at your earliest convenience, if you have any questions.

Yours truly,
BUFFALO DRILLING COMPANY, INC.

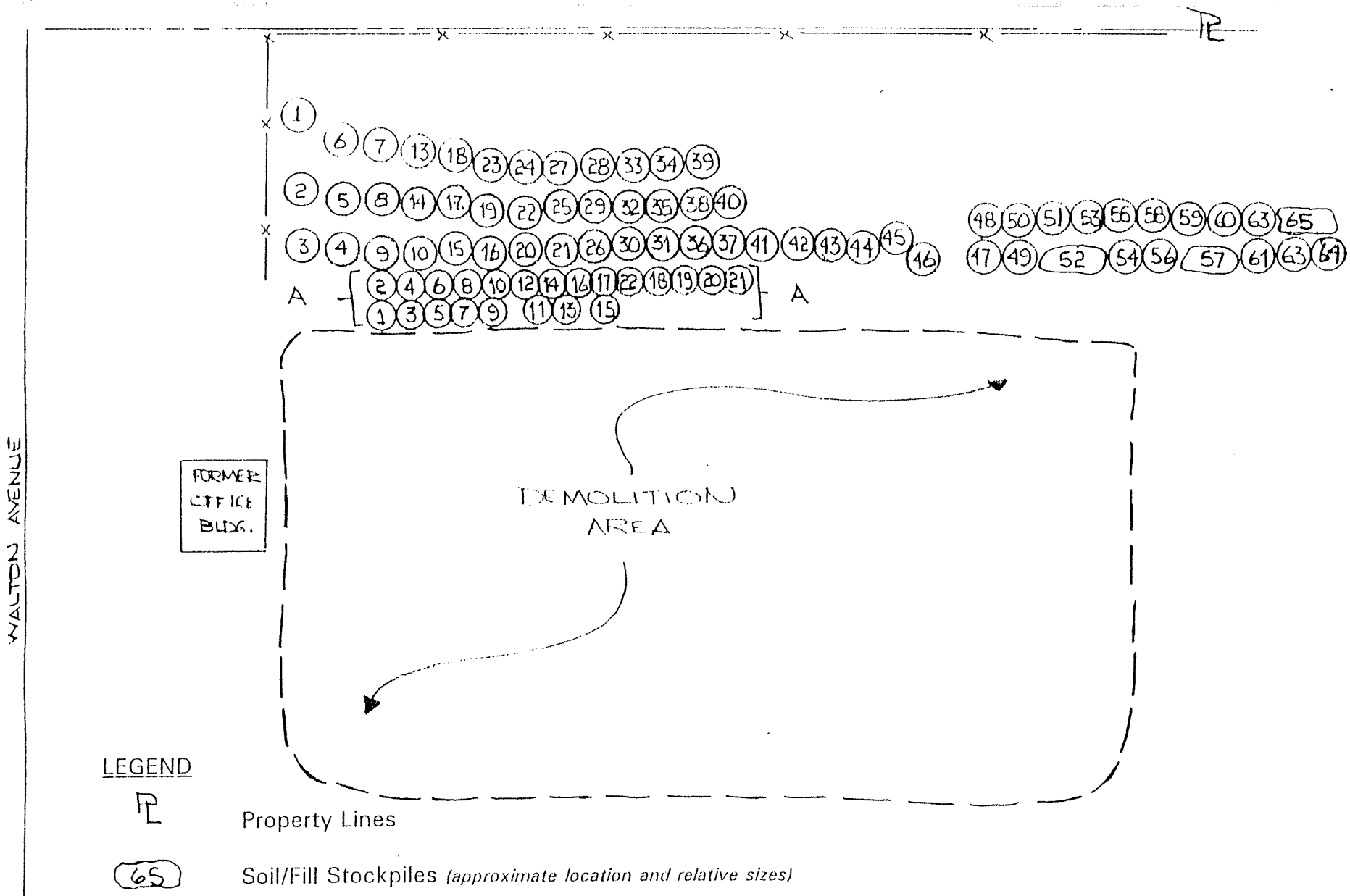
Richard L. Crouch
Senior Hydrogeologist

attachments

cc: Ms. Judith Ames, Benderson Development Company, Inc.
Mr. Michael Yeomans, Benderson Development Company, Inc.

ATTACHMENT 1

FIGURE AND SAMPLING SCHEME



BUFFALO DRILLING COMPANY, INC. *10440 MAIN STREET* *CLARENCE, NEW YORK 14031*	SOIL PILE SAMPLING Former U.S. Steel Facility Cheektowaga, New York	***FIGURE:*** 1
DATE: September 18, 1995	***JOB NO.:*** 95-113D	***SCALE:*** None

SAMPLING SCHEME

FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK

September 15, 1995

Soil Pile No.	*Sample No.*[1]
1	1 E
	1 W
6	6 E
	6 W
7	7 E
	7 W
8	8 E
	8 W
9	9 E
	9 W
10	10 E
	10 W
13	13 E
	13 W
14	14 E
	14 W
16	16 E
	16 W
17	17 E
	17 W
18	18 E
	18 W
20	20 E
	20 W
21	21 E
	21 W
22	22 E
	22 W
23	23 E
	23 W
24	24 E
	24 W

SAMPLING SCHEME

FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK

September 15, 1995

Soil Pile No.	*Sample No.*
25	25 E
	25 W
26	26 E
	26 W
27	27 E
	27 W
28	28 E
	28 W
29	29 E
	29 W
30	30 E
	30 W
31	31 E
	31 W
32	32 E
	32 W
33	33 E
	33 W
35	35 E
	35 W
36	36 E
	36 W
37	37 E
	37 W
38	38 E
	38 W
40	40 E
	40 W
41	41 E
	41 W
42	42 E
	42 W

SAMPLING SCHEME

FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK

September 15, 1995

Soil Pile No.	*Sample No.*
43	43 E
	43 W
44	44 E
	44 W
45	45 E
	45 W
47	47 E
	47 W
49	49 E
	49 W
51	51 E
	51 W
54	54 E
	54 W
56	56 E
	56 W
57	57 E
	57 W
60	60 E
	60 W
61	61 E
	61 W
63	63 E
	63 W
64	64 E
	64 W
65	65 E
	65 W

SAMPLING SCHEME

FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK

September 15, 1995

Soil Pile No.[2]	*Sample No.*
A 1	A 1 E
	A 1 W
A 2	A 2 E
	A 2 W
A 3	A 3 E
	A 3 W
A 4	A 4 E
	A 4 W
A 5	A 5 E
	A 5 W
A 6	A 6 E
	A 6 W
A 7	A 7 E
	A 7 W
A 8	A 8 E
	A 8 W
A 9	A 9 E
	A 9 W
A10	A10 E
	A10 W
A11	A11 E
	A11 W
A12	A12 E
	A12 W
A13	A13 E
	A13 W
A14	A14 E
	A14 W
A15	A15 E
	A15 W
A16	A16 E
	A16 W

SAMPLING SCHEME

FORMER U.S. STEEL FACILITY
CHEEKTOWAGA, NEW YORK

September 15, 1995

Soil Pile No.	*Sample No.*
A17	A17 E
	A17 W
A18	A18 E
	A18 W
A19	A19 E
	A19 W
A20	A20 E
	A20 W
A21	A21 E
	A21 W
A22	A22 E
	A22 W

NOTES:

1. For this sampling event, each of the above soil piles were divided in half along an imaginary north-south line; hence, a composite sample was prepared for the eastern (E) half and another for the western (W) half.

2. Soil pile #66 from the previous sampling event, September 6, 1995, was reproportioned into 22 piles which were subsequently located to the east of the original soil piles #'s 1 through 44. For the purpose of this sampling event, the resultant soil piles from the original soil pile #66 have been designated as A 1 through A22 (Refer to Figure 1).

WASTE STREAM TECHNOLOGY

Laboratory Chronicle

Report Date : 9/20/95
Group Number : 9501-428

Prepared For :
Mr. Rick Crouch
Buffalo Drilling
10440 Main Street
Clarence, New York 14031

Site: U.S. Steel

Analytical Services

Analytical Parameters	Number of Samples	Turnaround Time
TCLP Lead	71	3 Business Days

Report Released By : Daniel W. Voe

ENVIRONMENTAL LABORATORY ACCREDITATION
CERTIFICATION NUMBER (ELAP) 11179

WASTE STREAM TECHNOLOGY

Laboratory Chronicle

Group Number : 9501-428

Field and Laboratory Information

Client Id	WST Lab #	Matrix	Date Sampled	Date Received	Time
Soil Pile #01 East	WS21979	Soil	9/15/95	9/15/95	1545
Soil Pile #01 West	WS21980	Soil	9/15/95	9/15/95	1545
Soil Pile #06 East	WS21981	Soil	9/15/95	9/15/95	1545
Soil Pile #06 West	WS21982	Soil	9/15/95	9/15/95	1545
Soil Pile #07 East	WS21983	Soil	9/15/95	9/15/95	1545
Soil Pile #07 West	WS21984	Soil	9/15/95	9/15/95	1545
Soil Pile #08 East	WS21985	Soil	9/15/95	9/15/95	1545
Soil Pile #08 West	WS21986	Soil	9/15/95	9/15/95	1545
Soil Pile #09 East	WS21987	Soil	9/15/95	9/15/95	1545
Soil Pile #09 West	WS21988	Soil	9/15/95	9/15/95	1545
Soil Pile #10 East	WS21989	Soil	9/15/95	9/15/95	1545
Soil Pile #10 West	WS21990	Soil	9/15/95	9/15/95	1545
Soil Pile #13 East	WS21991	Soil	9/15/95	9/15/95	1545
Soil Pile #13 West	WS21992	Soil	9/15/95	9/15/95	1545
Soil Pile #14 East	WS21993	Soil	9/15/95	9/15/95	1545
Soil Pile #14 West	WS21994	Soil	9/15/95	9/15/95	1545
Soil Pile #16 East	WS21995	Soil	9/15/95	9/15/95	1545
Soil Pile #16 West	WS21996	Soil	9/15/95	9/15/95	1545
Soil Pile #17 East	WS21997	Soil	9/15/95	9/15/95	1545
Soil Pile #17 West	WS21998	Soil	9/15/95	9/15/95	1545
Soil Pile #18 East	WS21999	Soil	9/15/95	9/15/95	1545
Soil Pile #18 West	WS22000	Soil	9/15/95	9/15/95	1545
Soil Pile #20 East	WS22001	Soil	9/15/95	9/15/95	1545
Soil Pile #20 West	WS22002	Soil	9/15/95	9/15/95	1545
Soil Pile #21 East	WS22003	Soil	9/15/95	9/15/95	1545
Soil Pile #21 West	WS22004	Soil	9/15/95	9/15/95	1545
Soil Pile #22 East	WS22005	Soil	9/15/95	9/15/95	1545
Soil Pile #22 West	WS22006	Soil	9/15/95	9/15/95	1545
Soil Pile #23 East	WS22007	Soil	9/15/95	9/15/95	1545
Soil Pile #23 West	WS22008	Soil	9/15/95	9/15/95	1545
Soil Pile #24 East	WS22009	Soil	9/15/95	9/15/95	1545
Soil Pile #24 West	WS22010	Soil	9/15/95	9/15/95	1545
Soil Pile #25 East	WS22011	Soil	9/15/95	9/15/95	1545
Soil Pile #25 West	WS22012	Soil	9/15/95	9/15/95	1545
Soil Pile #26 East	WS22013	Soil	9/15/95	9/15/95	1545
Soil Pile #26 West	WS22014	Soil	9/15/95	9/15/95	1545
Soil Pile #27 East	WS22015	Soil	9/15/95	9/15/95	1545
Soil Pile #27 West	WS22016	Soil	9/15/95	9/15/95	1545
Soil Pile #28 East	WS22017	Soil	9/15/95	9/15/95	1545
Soil Pile #28 West	WS22018	Soil	9/15/95	9/15/95	1545
Soil Pile #29 East	WS22019	Soil	9/15/95	9/15/95	1545
Soil Pile #29 West	WS22020	Soil	9/15/95	9/15/95	1545
Soil Pile #30 East	WS22021	Soil	9/15/95	9/15/95	1545
Soil Pile #30 West	WS22022	Soil	9/15/95	9/15/95	1545

Sample Status Upon Receipt : No irregularities.

WASTE STREAM TECHNOLOGY

Laboratory Chronicle

Group Number : 9501-428

Field and Laboratory Information

Client Id	WST Lab #	Matrix	Date Sampled	Date Received	Time
Soil Pile #31 East	WS22023	Soil	9/15/95	9/15/95	1545
Soil Pile #31 West	WS22024	Soil	9/15/95	9/15/95	1545
Soil Pile #32 East	WS22025	Soil	9/15/95	9/15/95	1545
Soil Pile #32 West	WS22026	Soil	9/15/95	9/15/95	1545
Soil Pile #33 East	WS22027	Soil	9/15/95	9/15/95	1545
Soil Pile #33 West	WS22028	Soil	9/15/95	9/15/95	1545
Soil Pile #35 East	WS22029	Soil	9/15/95	9/15/95	1545
Soil Pile #35 West	WS22030	Soil	9/15/95	9/15/95	1545
Soil Pile #36 East	WS22031	Soil	9/15/95	9/15/95	1545
Soil Pile #36 West	WS22032	Soil	9/15/95	9/15/95	1545
Soil Pile #37 East	WS22033	Soil	9/15/95	9/15/95	1545
Soil Pile #37 West	WS22034	Soil	9/15/95	9/15/95	1545
Soil Pile #38 East	WS22035	Soil	9/15/95	9/15/95	1545
Soil Pile #38 West	WS22036	Soil	9/15/95	9/15/95	1545
Soil Pile #40 East	WS22037	Soil	9/15/95	9/15/95	1545
Soil Pile #40 West	WS22038	Soil	9/15/95	9/15/95	1545
Soil Pile #41 East	WS22039	Soil	9/15/95	9/15/95	1545
Soil Pile #41 West	WS22040	Soil	9/15/95	9/15/95	1545
Soil Pile #42 East	WS22041	Soil	9/15/95	9/15/95	1545
Soil Pile #42 West	WS22042	Soil	9/15/95	9/15/95	1545
Soil Pile #43 East	WS22043	Soil	9/15/95	9/15/95	1545
Soil Pile #43 West	WS22044	Soil	9/15/95	9/15/95	1545
Soil Pile #44 East	WS22045	Soil	9/15/95	9/15/95	1545
Soil Pile #44 West	WS22046	Soil	9/15/95	9/15/95	1545
Soil Pile #45 East	WS22047	Soil	9/15/95	9/15/95	1545
Soil Pile #45 West	WS22048	Soil	9/15/95	9/15/95	1545
Soil Pile #47 East	WS22049	Soil	9/15/95	9/15/95	1545
Soil Pile #47 West	WS22050	Soil	9/15/95	9/15/95	1545
Sample Status Upon Receipt : No irregularities.					

Waste Stream Technology Inc.

TCLP 3015/6010 ICP Result Report

Site : U.S. Steel
Date Sampled : 9/15/95
Date Received : 9/15/95 @ 1545
TCLP Extraction Date : 9/15/95

Group Number : 9501-428
Report Units : mg/L (PPM)
Matrix : TCLP Extraction Fluid

WST Lab ID	Client ID	Date Digested	Date Analyzed	Lead
MBRR2504	NA	9/18/95	9/18/95	< 0.120
WS21979	Soil Pile #01 East	9/18/95	9/20/95	26.3
WS21980	Soil Pile #01 West	9/18/95	9/20/95	19.7
WS21981	Soil Pile #06 East	9/18/95	9/20/95	51.4
WS21982	Soil Pile #06 West	9/18/95	9/20/95	31.1
WS21983	Soil Pile #07 East	9/18/95	9/18/95	33.5
WS21984	Soil Pile #07 West	9/18/95	9/18/95	66.4
WS21985	Soil Pile #08 East	9/18/95	9/18/95	25.3
WS21986	Soil Pile #08 West	9/18/95	9/18/95	11.8
WS21987	Soil Pile #09 East	9/18/95	9/18/95	15.3
WS21988	Soil Pile #09 West	9/18/95	9/18/95	15.0
WS21989	Soil Pile #10 East	9/18/95	9/18/95	9.31
WS21990	Soil Pile #10 West	9/18/95	9/18/95	6.92
WS21991	Soil Pile #13 East	9/18/95	9/18/95	4.87
WS21992	Soil Pile #13 West	9/18/95	9/18/95	3.87
WS21993	Soil Pile #14 East	9/18/95	9/20/95	5.60
WS21994	Soil Pile #14 West	9/18/95	9/18/95	7.47
WS21995	Soil Pile #16 East	9/18/95	9/18/95	3.00
WS21996	Soil Pile #16 West	9/18/95	9/18/95	8.70
WS21997	Soil Pile #17 East	9/18/95	9/18/95	11.5
WS21998	Soil Pile #17 West	9/18/95	9/18/95	8.59
WS21999	Soil Pile #18 East	9/18/95	9/18/95	3.28
WS22000	Soil Pile #18 West	9/18/95	9/18/95	6.71
WS22001	Soil Pile #20 East	9/18/95	9/18/95	8.03
WS22002	Soil Pile #20 West	9/18/95	9/18/95	2.20
WS22003	Soil Pile #21 East	9/18/95	9/18/95	9.29
WS22004	Soil Pile #21 West	9/18/95	9/18/95	5.24
WS22005	Soil Pile #22 East	9/18/95	9/18/95	10.1
WS22006	Soil Pile #22 West	9/18/95	9/18/95	12.8
WS22007	Soil Pile #23 East	9/18/95	9/18/95	45.0
WS22008	Soil Pile #23 West	9/18/95	9/18/95	24.0
WS22009	Soil Pile #24 East	9/18/95	9/18/95	3.08
WS22010	Soil Pile #24 West	9/18/95	9/18/95	4.33
WS22011	Soil Pile #25 East	9/18/95	9/18/95	31.2
WS22012	Soil Pile #25 West	9/18/95	9/18/95	10.5

MB denotes Method Blank.
NA denotes Not Applicable.

Pb Detection Limit: 0.120 mg/L

Waste Stream Technology Inc.

TCLP 3015/6010 ICP Result Report

Site : U.S. Steel
Date Sampled : 9/15/95
Date Received : 9/15/95 @ 1545
TCLP Extraction Date : 9/15/95

Group Number : 9501-428
Report Units : mg/L (PPM)
Matrix : TCLP Extraction Fluid

WST Lab ID	Client ID	Date Digested	Date Analyzed	Lead
WS22013	Soil Pile #26 East	9/18/95	9/18/95	4.50
WS22014	Soil Pile #26 West	9/18/95	9/18/95	8.70
WS22015	Soil Pile #27 East	9/18/95	9/18/95	6.40
WS22016	Soil Pile #27 West	9/18/95	9/18/95	7.28
WS22017	Soil Pile #28 East	9/18/95	9/18/95	11.4
WS22018	Soil Pile #28 West	9/18/95	9/18/95	21.7
WS22019	Soil Pile #29 East	9/18/95	9/18/95	3.46
WS22020	Soil Pile #29 West	9/18/95	9/18/95	5.44
WS22021	Soil Pile #30 East	9/18/95	9/18/95	12.3
WS22022	Soil Pile #30 West	9/18/95	9/18/95	12.9
WS22023	Soil Pile #31 East	9/18/95	9/18/95	2.80
WS22024	Soil Pile #31 West	9/18/95	9/18/95	5.04
WS22025	Soil Pile #32 East	9/18/95	9/18/95	23.8
WS22026	Soil Pile #32 West	9/18/95	9/18/95	12.9
WS22027	Soil Pile #33 East	9/18/95	9/18/95	5.60
WS22028	Soil Pile #33 West	9/18/95	9/18/95	17.6
WS22029	Soil Pile #35 East	9/18/95	9/18/95	5.69
WS22030	Soil Pile #35 West	9/18/95	9/18/95	12.8
WS22031	Soil Pile #36 East	9/18/95	9/18/95	30.7
WS22032	Soil Pile #36 West	9/18/95	9/18/95	22.0
WS22033	Soil Pile #37 East	9/18/95	9/18/95	14.1
WS22034	Soil Pile #37 West	9/18/95	9/18/95	24.3
WS22035	Soil Pile #38 East	9/18/95	9/18/95	21.4
WS22036	Soil Pile #38 West	9/18/95	9/18/95	10.4
WS22037	Soil Pile #40 East	9/18/95	9/18/95	8.31
WS22038	Soil Pile #40 West	9/18/95	9/18/95	4.53
WS22039	Soil Pile #41 East	9/18/95	9/19/95	14.5
WS22040	Soil Pile #41 West	9/18/95	9/19/95	36.1
WS22041	Soil Pile #42 East	9/18/95	9/19/95	3.24
WS22042	Soil Pile #42 West	9/18/95	9/19/95	19.8
WS22043	Soil Pile #43 East	9/18/95	9/19/95	8.68
WS22044	Soil Pile #43 West	9/18/95	9/19/95	16.1
WS22045	Soil Pile #44 East	9/18/95	9/19/95	8.24
WS22046	Soil Pile #44 West	9/18/95	9/19/95	11.5
WS22047	Soil Pile #45 East	9/18/95	9/20/95	31.1
WS22048	Soil Pile #45 West	9/18/95	9/20/95	26.9
WS22049	Soil Pile #47 East	9/18/95	9/20/95	16.0
WS22050	Soil Pile #47 West	9/18/95	9/20/95	54.2

Pb Detection Limit: 0.120 mg/L

WASTE STREAM TECHNOLOGY

302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

CHAIN OF CUSTODY RECORD

9501-428

PROJECT NO: 95-113C

SITE NAME: U. S. Steel

SAMPLERS (SIGNATURE): Andrew J. Dykstra BDC

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP PD	PRESERVATIVES	REMARKS
95-113C-01E	9/15/95		✓		S	Soil Pilot 01 East	1-4oz. glass	✓		1321739
-01W			✓			01 West		✓		80
-06E			✓			06 East		✓		81
-06W			✓			06 West		✓		82
-07E			✓			07 East		✓		83
-07W			✓			07 West		✓		84
-08E			✓			08 East		✓		85
-08W			✓			08 West		✓		86
-09E			✓			09 East		✓		87
-09W			✓			09 West		✓		88
-10E			✓			10 East		✓		89
-10W			✓			10 West		✓		90
-13E			✓			13 East		✓		91

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
Andrew J. Dykstra	9/15/95 2:35	[illegible]	[illegible]	9/15/95 3:45	[illegible]
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
[illegible]	9/15/95 [illegible]				
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

WASTE STREAM TECHNOLOGY
302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

9501-478

CHAIN OF CUSTODY RECORD

PROJECT NO: 95-113c
SITE NAME: U.S. Steel
SAMPLERS (SIGNATURE): Andrew J. Kucsma BDC

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP Pb	PRESERVATIVES	REMARKS
95-113c-13W	9/15/95		✓		S	Soil Pile # 13 west	1-4 oz. glass	✓		MS 219 72
-14E			✓			14 East		✓		73
-14W			✓			14 west		✓		74
-16E			✓			16 East		✓		75
-16W			✓			16 west		✓		76
-17E			✓			17 East		✓		77
-17W			✓			17 west		✓		78
-18E			✓			18 East		✓		79
-18W			✓			18 west		✓		77000
-20E			✓			20 East		✓		01
-20W			✓			20 west		✓		07
-21E			✓			21 East		✓		03
-21W			✓			21 west		✓		04

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
Andrew J. Kucsma	9/15/95 2:35	Jennifer Knapp	Jennifer Knapp	9/15/95 3:45	H. Kotwas
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

W.E. Steam TECHNOLOGY
302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

CHAIN OF CUSTODY RECORD

9501-478

PROJECT NO: 95-113C
SITE NAME: U. S. Steel
SAMPLERS (SIGNATURE): [signature] BDC

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP Pb	PRESERVATIVES	REMARKS
95-113C-22E	9/1/95		✓		S	Soil Pile # 22 East	1-40z Glass	✓		4501-220 05
-22W			✓			22 West		✓		06
-23E			✓			23 East		✓		07
-23W			✓			23 West		✓		08
-24E			✓			24 East		✓		09
-24W			✓			24 West		✓		10
-25E			✓			25 East		✓		11
-25W			✓			25 West		✓		12
-26E			✓			26 East		✓		13
-26W			✓			26 West		✓		14
-27E			✓			27 East		✓		15
-27W			✓			27 West		✓		16
-28E			✓			28 East		✓		17

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
[signature]	9/15/95 2:30	[signature]	[signature]	9/15/95 3:45	[signature]
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

WASTE STREAM TECHNOLOGY
302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

CHAIN OF CUSTODY RECORD

9501-428.

PROJECT NO: 95-113c
SITE NAME: U. S. Steel
SAMPLERS (SIGNATURE): [signature] BDC

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP Pb	PRESERVATIVES	REMARKS
95-113c -28W	9/15/95		✓		S	Soil Pile # 28 west	1-4oz glass	✓		W # 2210 16
-29E			✓			29 East		✓		19
-29W			✓			29 west		✓		20
-30E			✓			30 East		✓		21
-30W			✓			30 west		✓		22
-31E			✓			31 East		✓		23
-31W			✓			31 west		✓		24
-32E			✓			32 East		✓		25
-32W			✓			32 west		✓		26
-33E			✓			33 East		✓		27
-33W			✓			33 west		✓		28
-35E			✓			35 East		✓		29
-35W			✓			35 west		✓		30

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
[signature]	9/15/95 1:35	[signature]	[signature]	9/15/95 3:45	[signature]
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

TECHNOLOGY
502 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

CHAIN OF CUSTODY RECORD

9501-428

PROJECT NO: 95-113C

SITE NAME: U.S. Steel

SAMPLERS (SIGNATURE): BDC

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP Pb	PRESERVATIVES	REMARKS
95-113C-36E	9/15/95		✓		S	Soil Plc # 36 East	1-4oz. Glass	✓		Wipe 31
-36W			✓			36 West		✓		32
-37E			✓			37 East		✓		33
-37W			✓			37 West		✓		34
-38E			✓			38 East		✓		35
-38W			✓			38 West		✓		36
-40E			✓			40 East		✓		37
-40W			✓			40 West		✓		38
-41E			✓			41 East		✓		39
-41W			✓			41 West		✓		40
-42E			✓			42 East		✓		41
-42W			✓			42 West		✓		42
-43E			✓			43 East		✓		43

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
[signature]	9/15/95 2:35	[signature]	[signature]	9/11/95 3:45	[signature]
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

WASTE STREAM TECHNOLOGY
302 GROTE STREET
BUFFALO, NY 14207
(716) 876-5290

RCI-428

CHAIN OF CUSTODY RECORD

PROJECT NO: 95-113C
SITE NAME: US STEEL
SAMPLERS (SIGNATURE): Rich Cuomo BDC

SAMPLE NO.	DATE	TIME	COMP	GRAB	MATRIX	SAMPLE LOCATION	SIZE & NO. OF CONTAINERS	TCLP (12 VOA)	PRESERVATIVES	REMARKS
95-113C 43W	9/15/95		✓		S	SOIL PILE #43 WEST	1-40z. Glass	✓		#43 #44 #45 #47
44E			✓			SOIL PILE #44 EAST		✓		44
44W			✓			SOIL PILE #44 WEST		✓		46
45E			✓			SOIL PILE #45 EAST		✓		47
45W			✓			SOIL PILE #45 WEST		✓		48
47E			✓			SOIL PILE #47 EAST		✓		49
47W			✓			SOIL PILE #47 WEST		✓		50

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
Andrew J. Bucci	9/15/95 2:31	Jennifer Knapp	Jennifer Knapp	9/15/95 3:45	[illegible]
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	DATE/TIME	REMARKS	

Distribution Original accompanies shipment. Copy to coordinator field files

LAB USE: REFRIGERATOR # _____ SHELF # _____

APPENDIX K

E&E'S DECEMBER 13 AND 14, 1995 WASTE CHARACTERIZATION ANALYTICAL AND QUALITY CONTROL RESULTS

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: [illegible] Date: 9/11/95

Report Title: [illegible]

Client: [illegible]

Laboratory Data Review	Supervisor	Date
Metals	[illegible]	9/11/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	[illegible]	[illegible]
1st Draft Reviewed by:	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
2nd Draft Reviewed by: (If needed)		
Final Review by Author:	[illegible]	9/11/95
ASC Manager:	[illegible]	9-11-95
QA Officer:		
Corp. Project Manager: [illegible] (Internal Job)	[illegible] 9/11/95	
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to:	[illegible]	9/11/95
1 Invoices Sent to Accounting	[illegible]	9/11/95

Comments/Notes: [illegible]

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Barb Peck

FROM: Gary Hahn Gary Hahn/kr

DATE: September 11, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9501.998

CC: Lab File

Attached is the laboratory report of the analysis conducted on nine samples received at the Analytical Services Center on August 30, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Facsimiles of draft results were sent to you on 8/31/95, 9/1/95 and 9/5/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.:	Project Name:	Project Manager:
30-6058	FANDI STEEL SITE	B PECK

Samplers: (Signatures) — Field Team Leader: J. PECK

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION — EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Total Lead + Chromium (only)	TCLP Lead + Chromium (only)	REMARKS
01	8-30-95	2:05	X			LEAD AND Chromium (low)	Stockpile #4	1	X		
02		2:16	X				Stockpile #5	1	X		
03		2:15	X				Stockpile #6	1	X		
04		2:20	X				Stockpile 4-6#	1			Hold sample for analysis upon approval or direction by project manager B. PECK x 2573 FE/E (TCLP)
05		2:25	X				TCLP #1	1		X	
06		2:30	X				TCLP #2	1		X	
07		2:35	X				TCLP #2 (DUP)	1		X	
08		2:40	X				TCLP #3	1		X	
09		2:45	X				TCLP #4	1		X	
	8-30-95										

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:	
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number	Date:
Relinquished By: (Signature)	Date/Time: 8-30-95	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

0571194

*See CONCENTRATION RANGE on back of form.

JOB NUMBER : 9501.998

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
32196.01	STOCKPILE #4	08/30/95	08/22/95	08/31/95
32197.01	STOCKPILE #5	08/30/95	08/22/95	08/31/95
32198.01	STOCKPILE #6	08/30/95	08/22/95	08/31/95
SOLIDS-TOTAL (MET) -S				
32196.01	STOCKPILE #4	08/30/95		08/30/95
32197.01	STOCKPILE #5	08/30/95		08/30/95
32198.01	STOCKPILE #6	08/30/95		08/30/95
TCLP - CHROMIUM (ICP)-S				
32199.01	STOCKPILE #4-#6	08/30/95	08/31/95	09/05/95
32200.01	TCLP #1	08/30/95	08/31/95	09/01/95
32201.01	TCLP #2	08/30/95	08/31/95	09/01/95
32202.01	TCLP #2 DUP	08/30/95	08/31/95	09/01/95
32203.01	TCLP #3	08/30/95	08/31/95	09/01/95
32204.01	TCLP #4	08/30/95	08/31/95	09/01/95
TCLP - LEAD (ICP)-S				
32199.01	STOCKPILE #4-#6	08/30/95	09/01/95	09/05/95
32200.01	TCLP #1	08/30/95	09/01/95	09/01/95
32201.01	TCLP #2	08/30/95	09/01/95	09/01/95
32202.01	TCLP #2 DUP	08/30/95	09/01/95	09/01/95
32203.01	TCLP #3	08/30/95	09/01/95	09/01/95
32204.01	TCLP #4	08/30/95	09/01/95	09/01/95

TEST CODE :STSMET1 JOB NUMBER :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-32196 STOCKPILE #4	96	
EE-95-32197 STOCKPILE #5	95	
EE-95-32198 STOCKPILE #6	95	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9501.998

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	32198	95.3	95.0	0.3

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 96 %
SAMPLE ID LAB : EE-95-32196 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #4

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	5600		5.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 95 %
SAMPLE ID LAB : EE-95-32197 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #5

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	6000		5.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 95 %
SAMPLE ID LAB : EE-95-32198 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #6

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1000		5.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (08/22)

9501.998

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	710	1000	71.0

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (1160) MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32199 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #4-#6 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	0.14		0.030	5.0
Lead	51		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32200 MATRIX: SOLID
SAMPLE ID CLIENT: TCLP #1 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	0.25		0.030	5.0
Lead	25		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32201 MATRIX: SOLID
SAMPLE ID CLIENT: TCLP #2 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	1.2		0.030	5.0
Lead	42		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32202 MATRIX: SOLID
SAMPLE ID CLIENT: TCLP #2 DUP UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	1.3		0.030	5.0
Lead	43		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32203 MATRIX: SOLID
SAMPLE ID CLIENT: TCLP #3 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	0.51		0.030	5.0
Lead	29		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-32204 MATRIX: SOLID
SAMPLE ID CLIENT: TCLP #4 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	0.59		0.030	5.0
Lead	55		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF TCLP SOLID SAMPLES

9501.998

(mg/L)

Parameter	E & E Laboratory No. 95-32200	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Chromium Total		0.247	0.250	1.2
Lead		25.4	25.4	0.1

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9501.998

(mg/L)

Parameter	E & E Laboratory No. 95-32200	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Chromium Total		0.247	5.26	5.0	101
Lead		25.4	31.3	5.0	118

THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (08/31)

9501.998

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Chromium Total	1070	1000	107
Lead	1070	1000	107

THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (09/01)

9501.998

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	973	1000	97.3

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (2005) MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Chromium	ND		0.030	5.0
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9501.998
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (2010) MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9502.874 Date: 12/27/95

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	[illegible]	12/27/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	[illegible]	12/27/95
1st Draft Reviewed by:	[illegible]	12/27/95
CIRCULATED:	[illegible]	12/27/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		
ASC Manager:	[illegible]	12.27.95
QA Officer:		
Corp. Project Manager: DAVE ALBERS (Internal Job)		
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: DAVE ALBERS, JK	JK	12/27/95
1 Invoices Sent to Accounting	JK	12/27/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers

FROM: Gary Hahn

DATE: December 27, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9502.874

CC: Lab File

Attached is the laboratory report of the analysis conducted on twenty-five samples received at the Analytical Services Center on December 13, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Facsimiles of draft results were sent to you on 12/18/95, 12/22/95 and 12/27/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Project No.	Project Name	Project Manager:
SD-6050	ERNST STEEL SITE	DAVE ALBERTS

Samplers: (Signatures) Rick Maxwell 12-13-95

Field Team Leader: G. MAXWELL

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCL-LEAD	TCLP-LEAD	REMARKS
1	12/13/95	2:00		X		LOW LEVEL LEAD	STOCKPILE #1	1	X	X	NOTE: If TCL-LEAD RESULTS ARE BELOW 500 PPM DON'T RUN ANALYSIS FOR TCLP LEAD ANY QUESTIONS CONTACT D. ALBERTS X-2404. FILE (HQ)
2		2:05		X			#2	1	X	X	
3		2:10		X			#3	1	X	X	
4		2:15		X			#4	1	X	X	
5		2:20		X			#5	1	X	X	
6		2:25		X			#6	1	X	X	
7		2:30		X			#7	1	X	X	
8		2:35		X			#8	1	X	X	
9		2:40		X			#9	1	X	X	
10		2:45		X			#10	1	X	X	
11		2:50		X			#11	1	X	X	
12		2:55		X			#12	1	X	X	
13		3:00		X			#13	1	X	X	
~~12~~ 42	12/13/95	3:05		X			STOCKPILE #13-2	1	X	X	MS/MSD SAMPLE B-2

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Relinquished By: (Signature)	Date/Time: 12/13/95 4PM	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number: N/a

Ship Via: N/a

Date: 12-13-95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No	Project Name	Project Manager
SD-6050	ERNST STEEL SITE	DAVE ADAMS

Samplers (Signatures)	Field Team Leader:
Rick Maxwell 12-13-95	G. MAXWELL

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCL-LEAD	TCLP-LEAD	REMARKS
14	12-13-95	3:07		X		LOW LEVEL LEAD	STOCKPILE #14	1	X	X	NOTE: IF TCL-LEAD RESULTS ARE BELOW 500 ppm DON'T RUN ANALYSIS FOR TCLP LEAD. ANY QUESTIONS CONTACT D. ADAMS X-2404 F/E (HQ)
15		3:09		X			#15	1	X	X	
16		3:11		X			#16	1	X	X	
17		3:13		X			#17	1	X	X	
18		3:15		X			#18	1	X	X	
19		3:17		X			#19	1	X	X	
20		3:19		X			#20	1	X	X	
21		3:21		X			#21	1	X	X	
22		3:23		X			#22	1	X	X	
23		3:25		X			#23	1	X	X	
24	12-13-95	3:27		X			STOCKPILE #24	1	X	X	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
						N/a
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: N/a
Relinquished By: (Signature) Rick Maxwell	Date/Time: 12-13-95 4PM	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 12-13-95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9502.874

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
37418.01	STOCKPILE #1	12/13/95	12/15/95	12/18/95
37419.01	STOCKPILE #2	12/13/95	12/15/95	12/18/95
37420.01	STOCKPILE #3	12/13/95	12/15/95	12/18/95
37421.01	STOCKPILE #4	12/13/95	12/15/95	12/18/95
37422.01	STOCKPILE #5	12/13/95	12/15/95	12/18/95
37423.01	STOCKPILE #6	12/13/95	12/15/95	12/18/95
37424.01	STOCKPILE #7	12/13/95	12/15/95	12/18/95
37425.01	STOCKPILE #8	12/13/95	12/15/95	12/18/95
37426.01	STOCKPILE #9	12/13/95	12/15/95	12/18/95
37427.01	STOCKPILE #10	12/13/95	12/15/95	12/18/95
37428.01	STOCKPILE #11	12/13/95	12/15/95	12/18/95
37429.01	STOCKPILE #12	12/13/95	12/15/95	12/18/95
37430.01	STOCKPILE #13	12/13/95	12/15/95	12/18/95
37431.01	STOCKPILE #13-2	12/13/95	12/15/95	12/18/95
37432.01	STOCKPILE #14	12/13/95	12/15/95	12/18/95
37433.01	STOCKPILE #15	12/13/95	12/15/95	12/18/95
37434.01	STOCKPILE #16	12/13/95	12/15/95	12/18/95
37435.01	STOCKPILE #17	12/13/95	12/15/95	12/18/95
37436.01	STOCKPILE #18	12/13/95	12/15/95	12/18/95
37437.01	STOCKPILE #19	12/13/95	12/15/95	12/18/95
37438.01	STOCKPILE #20	12/13/95	12/15/95	12/18/95
37439.01	STOCKPILE #21	12/13/95	12/15/95	12/18/95
37440.01	STOCKPILE #22	12/13/95	12/15/95	12/18/95
37441.01	STOCKPILE #23	12/13/95	12/15/95	12/18/95
37442.01	STOCKPILE #24	12/13/95	12/15/95	12/18/95
SOLIDS-TOTAL (MET) -S				
37418.01	STOCKPILE #1	12/13/95		12/15/95
37419.01	STOCKPILE #2	12/13/95		12/15/95
37420.01	STOCKPILE #3	12/13/95		12/15/95
37421.01	STOCKPILE #4	12/13/95		12/15/95
37422.01	STOCKPILE #5	12/13/95		12/15/95
37423.01	STOCKPILE #6	12/13/95		12/15/95
37424.01	STOCKPILE #7	12/13/95		12/15/95
37425.01	STOCKPILE #8	12/13/95		12/15/95
37426.01	STOCKPILE #9	12/13/95		12/15/95
37427.01	STOCKPILE #10	12/13/95		12/15/95
37428.01	STOCKPILE #11	12/13/95		12/15/95
37429.01	STOCKPILE #12	12/13/95		12/15/95
37430.01	STOCKPILE #13	12/13/95		12/15/95
37431.01	STOCKPILE #13-2	12/13/95		12/15/95
37432.01	STOCKPILE #14	12/13/95		12/15/95
37433.01	STOCKPILE #15	12/13/95		12/15/95
37434.01	STOCKPILE #16	12/13/95		12/15/95
37435.01	STOCKPILE #17	12/13/95		12/15/95
37436.01	STOCKPILE #18	12/13/95		12/15/95
37437.01	STOCKPILE #19	12/13/95		12/15/95

JOB NUMBER : 9502.874

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
SOLIDS-TOTAL (MET) -S				
37438.01	STOCKPILE #20	12/13/95		12/15/95
37439.01	STOCKPILE #21	12/13/95		12/15/95
37440.01	STOCKPILE #22	12/13/95		12/15/95
37441.01	STOCKPILE #23	12/13/95		12/15/95
37442.01	STOCKPILE #24	12/13/95		12/15/95
TCLP - LEAD (ICP)-S				
37418.01	STOCKPILE #1	12/13/95	12/22/95	12/22/95
37419.01	STOCKPILE #2	12/13/95	12/22/95	12/22/95
37425.01	STOCKPILE #8	12/13/95	12/22/95	12/22/95
37428.01	STOCKPILE #11	12/13/95	12/22/95	12/22/95
37430.01	STOCKPILE #13	12/13/95	12/22/95	12/22/95
37431.01	STOCKPILE #13-2	12/13/95	12/22/95	12/22/95
37433.01	STOCKPILE #15	12/13/95	12/22/95	12/22/95
37434.01	STOCKPILE #16	12/13/95	12/22/95	12/22/95
37435.01	STOCKPILE #17	12/13/95	12/22/95	12/22/95
37436.01	STOCKPILE #18	12/13/95	12/22/95	12/22/95
37439.01	STOCKPILE #21	12/13/95	12/22/95	12/22/95
37440.01	STOCKPILE #22	12/13/95	12/22/95	12/22/95

TEST CODE :STSMET1 JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-37418 STOCKPILE #1	84	
EE-95-37419 STOCKPILE #2	88	
EE-95-37420 STOCKPILE #3	79	
EE-95-37421 STOCKPILE #4	85	
EE-95-37422 STOCKPILE #5	80	
EE-95-37423 STOCKPILE #6	80	
EE-95-37424 STOCKPILE #7	91	
EE-95-37425 STOCKPILE #8	86	
EE-95-37426 STOCKPILE #9	66	
EE-95-37427 STOCKPILE #10	81	
EE-95-37428 STOCKPILE #11	80	
EE-95-37429 STOCKPILE #12	71	
EE-95-37430 STOCKPILE #13	77	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

TEST CODE :STSMET1 JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-37431 STOCKPILE #13-2	77	
EE-95-37432 STOCKPILE #14	78	
EE-95-37433 STOCKPILE #15	78	
EE-95-37434 STOCKPILE #16	77	
EE-95-37435 STOCKPILE #17	82	
EE-95-37436 STOCKPILE #18	78	
EE-95-37437 STOCKPILE #19	79	
EE-95-37438 STOCKPILE #20	80	
EE-95-37439 STOCKPILE #21	81	
EE-95-37440 STOCKPILE #22	79	
EE-95-37441 STOCKPILE #23	68	
EE-95-37442 STOCKPILE #24	71	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.874

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	37427	81.1	79.5	2.0
	37437	79.1	80.9	2.2

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 83 %
SAMPLE ID LAB : EE-95-37418 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #1

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	700		6.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 88 %
SAMPLE ID LAB : EE-95-37419 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #2

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2000		5.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 79 %
SAMPLE ID LAB : EE-95-37420 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #3

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	400		6.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 85 %
SAMPLE ID LAB : EE-95-37421 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #4

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	65		5.9	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 80 %
SAMPLE ID LAB : EE-95-37422 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #5

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	220		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 80 %
SAMPLE ID LAB : EE-95-37423 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #6

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	98		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 91 %
SAMPLE ID LAB : EE-95-37424 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #7

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	150		5.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 86 %
SAMPLE ID LAB : EE-95-37425 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #8

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	3300		5.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 66 %
SAMPLE ID LAB : EE-95-37426 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #9

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	360		7.6	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-37427 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #10

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	300		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-37428 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #11

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2600		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 71 %
SAMPLE ID LAB : EE-95-37429 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #12

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	120		7.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 77 %
SAMPLE ID LAB : EE-95-37430 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #13

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2100		6.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 77 %
SAMPLE ID LAB : EE-95-37431 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #13-2

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	820		6.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 78 %
SAMPLE ID LAB : EE-95-37432 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #14

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	220		6.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 78 %
SAMPLE ID LAB : EE-95-37433 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #15

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1900		6.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 77 %
SAMPLE ID LAB : EE-95-37434 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #16

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	870		6.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

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Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 82 %
SAMPLE ID LAB : EE-95-37435 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #17

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2200		6.1	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 78 %
SAMPLE ID LAB : EE-95-37436 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #18

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	640		6.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 79 %
SAMPLE ID LAB : EE-95-37437 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #19

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	480		6.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 80 %
SAMPLE ID LAB : EE-95-37438 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #20

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	430		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-37439 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #21

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	2400		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 79 %
SAMPLE ID LAB : EE-95-37440 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #22

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	760		6.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 68 %
SAMPLE ID LAB : EE-95-37441 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #23

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	58		7.4	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 71 %
SAMPLE ID LAB : EE-95-37442 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #24

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	120		7.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.874

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	37423	78.7	228	97.4*
	37442	86.8	28.2	102*

* = THESE RPDs ARE NOT WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.874

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37423	78.7	303	50	449*
	37442	86.8	97.1	50	20.6*

* = THESE RECOVERIES ARE NOT WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR POST SPIKED SOLID SAMPLES

9502.874

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37423	78.7	244	157	105
	37442	86.8	280	174	111

THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (133)

9502.874

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1060	1000	106

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (134)

9502.874

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1080	1000	108

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (133) MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (134) MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37418 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #1 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	2.0		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37419 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #2 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	4.4		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37425 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #8 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	13		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37428 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #11 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.73		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37430 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #13 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	4.5		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37431 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #13-2 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	2.0		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37433 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #15 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.8		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37434 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #16 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.6		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37435 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #17 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.7		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37436 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #18 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37439 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #21 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.3		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37440 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE #22 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.874

(mg/L)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	37440	ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.874

(mg/L)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37440	ND	5.14	5.0	103

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (156)

9502.874

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	988	1000	98.8

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (160)

9502.874

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1080	1000	108

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (156) MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.874
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (160)

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

QUALITY ASSURANCE PROTOCOL REVIEW

Job No.: 9502.880 Date: 12/27/95

Report Title:

Client: ERNST STEEL

Laboratory Data Review	Supervisor	Date
Metals	[illegible]	12/27/95
Gen. Chem.		
GC		
GC/MS		
Micro, Asbestos		
Other		

	Signature	Date
Report Written by:	[illegible]	12/27/95
1st Draft Reviewed by:	[illegible]	12/27/95
CIRCULATED:	[illegible]	12/27/95
2nd Draft Reviewed by: (If needed)		
Final Review by Author:		
ASC Manager:	[illegible]	12.27.95
QA Officer:		
Corp. Project Manager: (Internal Job) DAVE ALBERS		
All QA Protocol Review Forms Signed and in File (to be signed by report writer)		
1 Copies of Report Sent to: DAVE ALBERS	[illegible]	12/27/95
1 Invoices Sent to Accounting	[illegible]	12/27/95

Comments/Notes:

Copy Distribution: White - Report to Project File; Canary - Project Manager; Pink - Project File.

407064

MEMORANDUM

TO: Dave Albers

FROM: Gary Hahn G. Hahn/gk

DATE: December 27, 1995

SUBJECT: SD-6000 Ernst Steel Report

RE: 9502.880

CC: Lab File

Attached is the laboratory report of the analysis conducted on twelve samples received at the Analytical Services Center on December 14, 1995. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Facsimiles of draft results were sent to you on 12/18/95 and 12/27/95.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/gk
Enclosure

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No	Project Name	Project Manager:
SD-6050	ERNST STEEL SITE	DAVE ALBERS x-2404

Samplers: (Signatures) Kit Monbelle 12-14-95

Field Team Leader: G. MAXWELL R/E

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCL - (LEAD)	REMARKS
1	12-14-95	10:05		X		LOW LEVEL / LEAD	STOCKPILE #25 HOV	1	X	
2		10:15		X			#26	1	X	
3		10:17		X			#26-2	1	X	MS/MSD SAMPLE (26-2)
4		10:23		X			#27	1	X	
5		10:30		X			#28	1	X	
6		10:35		X			#29	1	X	
7		10:40		X			#30	1	X	
8		10:45		X			#31	1	X	
9		11:37		X			#32	1	X	
10		11:42		X			#33	1	X	
11		11:47		X			#34	1	X	
12		11:30		X			#35	1	X	
13		11:15		X			#36	1	X	
14	12-14-95	11:17		X			#36-2	1	X	MS/MSD SAMPLE (36-2)

Relinquished By: (Signature)	Date/Time	Received By (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Relinquished By: (Signature)	Date/Time:	Received By (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Relinquished By: (Signature) Kit Monbelle	Date/Time: 12-14-95/1215	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number: N/a

Ship Via: N/a

Date: 12-14-95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9502.880

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
LEAD (ICP)-S				
37491.01	STOCKPILE# 25	12/14/95	12/15/95	12/18/95
37492.01	STOCKPILE# 26	12/14/95	12/15/95	12/18/95
37493.01	STOCKPILE# 27	12/14/95	12/15/95	12/18/95
37494.01	STOCKPILE# 28	12/14/95	12/15/95	12/18/95
37495.01	STOCKPILE# 29	12/14/95	12/15/95	12/18/95
37496.01	STOCKPILE# 30	12/14/95	12/15/95	12/18/95
37497.01	STOCKPILE# 31	12/14/95	12/15/95	12/18/95
37498.01	STOCKPILE# 32	12/14/95	12/15/95	12/18/95
37499.01	STOCKPILE# 33	12/14/95	12/15/95	12/18/95
37500.01	STOCKPILE# 34	12/14/95	12/15/95	12/18/95
37501.01	STOCKPILE# 35	12/14/95	12/15/95	12/18/95
37502.01	STOCKPILE# 36	12/14/95	12/15/95	12/18/95
SOLIDS-TOTAL (MET) -S				
37491.01	STOCKPILE# 25	12/14/95		12/15/95
37492.01	STOCKPILE# 26	12/14/95		12/15/95
37493.01	STOCKPILE# 27	12/14/95		12/15/95
37494.01	STOCKPILE# 28	12/14/95		12/15/95
37495.01	STOCKPILE# 29	12/14/95		12/15/95
37496.01	STOCKPILE# 30	12/14/95		12/15/95
37497.01	STOCKPILE# 31	12/14/95		12/15/95
37498.01	STOCKPILE# 32	12/14/95		12/15/95
37499.01	STOCKPILE# 33	12/14/95		12/15/95
37500.01	STOCKPILE# 34	12/14/95		12/15/95
37501.01	STOCKPILE# 35	12/14/95		12/15/95
37502.01	STOCKPILE# 36	12/14/95		12/15/95
TCLP - LEAD (ICP)-S				
37491.01	STOCKPILE# 25	12/14/95	12/22/95	12/23/95
37492.01	STOCKPILE# 26	12/14/95	12/22/95	12/23/95
37494.01	STOCKPILE# 28	12/14/95	12/22/95	12/23/95
37495.01	STOCKPILE# 29	12/14/95	12/22/95	12/23/95

TEST CODE :STSMET1 JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
TEST NAME : SOLIDS-TOTAL (MET) UNITS : %
PARAMETER : Solids Total

SAMPLE ID	RESULTS	Q
EE-95-37491 STOCKPILE# 25	75	
EE-95-37492 STOCKPILE# 26	73	
EE-95-37493 STOCKPILE# 27	85	
EE-95-37494 STOCKPILE# 28	79	
EE-95-37495 STOCKPILE# 29	81	
EE-95-37496 STOCKPILE# 30	74	
EE-95-37497 STOCKPILE# 31	72	
EE-95-37498 STOCKPILE# 32	74	
EE-95-37499 STOCKPILE# 33	77	
EE-95-37500 STOCKPILE# 34	69	
EE-95-37501 STOCKPILE# 35	82	
EE-95-37502 STOCKPILE# 36	73	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.880

(%)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Solids-Total	37495	80.7	77.1	4.5

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 75 %
SAMPLE ID LAB : EE-95-37491 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 25

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	640		6.7	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 73 %
SAMPLE ID LAB : EE-95-37492 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 26

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	650		6.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 85 %
SAMPLE ID LAB : EE-95-37493 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 27

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	270		5.9	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 79 %
SAMPLE ID LAB : EE-95-37494 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 28

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	510		6.3	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 81 %
SAMPLE ID LAB : EE-95-37495 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 29

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	1900		6.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 74 %
SAMPLE ID LAB : EE-95-37496 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 30

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	42		6.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 72 %
SAMPLE ID LAB : EE-95-37497 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 31

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	210		6.9	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 74 %
SAMPLE ID LAB : EE-95-37498 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 32

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	420		6.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 77 %
SAMPLE ID LAB : EE-95-37499 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 33

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	100		6.5	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 69 %
SAMPLE ID LAB : EE-95-37500 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 34

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	180		7.2	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 82 %
SAMPLE ID LAB : EE-95-37501 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 35

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	56		6.1	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
RESULTS IN DRY WEIGHT %SOLIDS : 73 %
SAMPLE ID LAB : EE-95-37502 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 36

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	130		6.8	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF SOLID SAMPLES

9502.880

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead	37492	472	512	8.1
	37502	92.5	82.3	11.7

THESE RPDs ARE WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9502.880

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37492	472	495	50	4X
	37502	92.5	198	50	211*

WITH THE EXCEPTION OF THE VALUE FLAGGED "*", THESE RECOVERIES ARE WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR POST SPIKED SOLID SAMPLES

9502.880

(mg/kg as received)

Parameter	E & E Laboratory No. 95-	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead	37502	92.5	295	185	109

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (135)

9502.880

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1080	1000	108

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

METALS SECTION

JOB NUMBER :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (135) MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Lead	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37491 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 25 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.51		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37492 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 26 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.2		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37494 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 28 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB :EE-95-37495 MATRIX: SOLID
SAMPLE ID CLIENT: STOCKPILE# 29 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.96		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (160)

9502.880

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1080	1000	108

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9502.880
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : SD-6000 ERNST STEEL
SAMPLE ID LAB : METHOD BLANK (160)

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

APPENDIX L

PROCESSED SOIL WASTE CHARACTERIZATION
ANALYTICAL AND QUALITY CONTROL RESULTS

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347 Tel: (800) THE LABS Tel: (800) 843-5227 FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NWEC & C, Inc.
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14038
Attn:	RUSS SAVAGE/ GREG WEBER
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	Benderson/1746 Walden
Date FAXED:	01/19/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7915	
Sample ID #1 (CUST)	Pile # 1	
Sample ID #2 (CUST)	Grab # 1	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	01/15/96	
Date Received	01/15/96	04:45
Date Analyzed	01/16/95	
Date Reported	01/19/96	
	Results	Det Limit*
Lead	0.15	0.05

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NWEC & C, Inc.
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14038
Attn:	RUSS SAVAGE/ GREG WEBER
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	Benderson/1746 Walden
Date FAXED:	01/19/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7916	
Sample ID #1 (CUST)	Pile # 1	
Sample ID #2 (CUST)	Grab # 2	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	01/15/96	
Date Received	01/15/96	04:45
Date Analyzed	01/16/95	
Date Reported	01/19/96	

	Results	Det Limit*
Lead	0.07	0.05

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NWEC & C, Inc.
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14038
Attn:	RUSS SAVAGE/ GREG WEBER
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	Benderson/1746 Walden
Date FAXED:	01/19/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7917	
Sample ID #1 (CUST)	Pile # 1	
Sample ID #2 (CUST)	Grab # 3	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	01/15/96	
Date Received	01/15/96	04:45
Date Analyzed	01/16/95	
Date Reported	01/19/96	
	Results	Det Limit*
Lead	0.14	0.05

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Tel: (716) 554-5347 Tel: (800) THE LABS Tel: (800) 843-5227 FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NWEC & C, Inc.
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14038
Attn:	RUSS SAVAGE/ GREG WEBER
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	Benderson/1746 Walden
Date FAXED:	01/19/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7918	
Sample ID #1 (CUST)	Pile # 1	
Sample ID #2 (CUST)	Grab # 4	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	01/15/96	
Date Received	01/15/96	04:45
Date Analyzed	01/16/95	
Date Reported	01/19/96	
	Results	Det Limit*
Lead	0.37	0.05

7915 7916 7917 7918 WORK SHEET

Middlesex NY 14507
FAX 1-716-554-4114

WORKORDER NYS

VIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

CUSTOMER: NWEC & C, Inc
ADDRESS: 3553 Crittenden Rd.
CITY: Crittenden, NY 14038
STATE/ZIP:
PHONE: (716) 937-6527
FAX: 937-9360
CONTACT: R. Savage / G. Weber

PO NUMBER:
PROJECT NO:
PROJECT CUST:
PROJECT SITE: Benderson / 1746 Walden

SEND RESULTS: ☒FAX ☐EXPR MAIL
PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240 4	TOX	HERBICIDES
8260 (Stars) 4	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY (DIESEL)
		FLASH POINT (GAS OR OIL)

SUSPECT :

SPECIAL INSTRUCTIONS: ASAP Turnaround

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	TCLP Lead					
1/15/96		Pile #1 Grab #1	X					
1/15/96		Pile #1 Grab #2	X					
1/15/96		Pile #1 Grab #3	X					
1/15/96		Pile #1 Grab #4 — Randy Pile #1 Grab (will be labeled 1-4)	X					

CHAIN OF CUSTODY RECORD

of SAMPLES 4 # of CONTAINERS 4 (500 ml's)
SAMPLED BY: [illegible]
SIGNATURE:
NAME: [illegible]
DATED: / / TIME: :
HOW SENT: ☐EXP MAIL ☒HAND CARRY
SIGNATURE 2:
NAME 2: Greg Weber
DATED 2: 1/16/96 TIME: 3:28
HOW SENT 2: ☐EXP MAIL ☐HAND CARRY

SAMPLES RECEIVED BY:
SIGNATURE:
NAME:
DATE: 1/15/96 TIME: :
HOW RECD: ☐EXP MAIL ☐HAND CARRY
FREIGHT IN: $
LOGGED IN: 1/15/96 TIME: 4:45
SAMPLE COND: SAMPLE TEMP: 4°
LAB NOTES:

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347 Tel: (800) THE LABS Tel: (800) 843-5227 FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY, INC.
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14038
Attn:	RUSS SAVAGE/ GREG WEBER
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	Benderson/1746 Walden
Date FAXED:	01/17/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7919	
Sample ID #1 (CUST)	Pile # 2	
Sample ID #2 (CUST)	Comp # 1	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	01/16/96	NA
Date Received	01/16/96	04:45
Date Analyzed	01/17/96	
Date Reported	01/17/96	
	Results	Det Limit*
Lead	0.15	0.05

EXPRESSLAB

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY, INC.
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14038
Attn:	RUSS SAVAGE/ GREG WEBER
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	Benderson/1746 Walden
Date FAXED:	01/17/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7920	
Sample ID #1 (CUST)	Pile # 3	
Sample ID #2 (CUST)	Comp # 1	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	01/16/96	NA
Date Received	01/16/96	04:45
Date Analyzed	01/17/96	
Date Reported	01/17/96	

	Results	Det Limit*
Lead	0.68	0.05

EXPRESSLAB PO Box 40 501 Water Street Middlesex NY 14507
Tel: 1-716-554-5347 Tel: 1-800-THE LABS Tel: 1-800-843-5227 FAX 1-716-554-4114

WORKORDER NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

CUSTOMER: NWEC+C, Inc.
ADDRESS: 3553 Crittenden Rd
CITY: Crittenden, NY 14038
STATE/ZIP:
PHONE: (716) 937-6527
FAX: 937-9360
CONTACT: R. Savage / G. Weber

PO NUMBER:
PROJECT NO:
PROJECT CUST:
PROJECT SITE: Benderson / 1746 Walden

SEND RESULTS: ☐FAX ☐EXPR MAIL
PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY
		FLASH POINT

(DIESEL)
(GAS OR OIL)
SUSPECT : _____

SPECIAL INSTRUCTIONS: _____

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	TCLP Lead					
1/16/96		Treated Soil Pile 2 Comp #1	X					
1/16/96		Treated Soil Pile 3 Comp #1	X					

CHAIN OF CUSTODY RECORD

of SAMPLES 2 # of CONTAINERS 2
SAMPLED BY: Russel J. Savage
SIGNATURE: [signature]
NAME:
DATED: 1/16/96 TIME: ___:___
HOW SENT: ☐EXP MAIL ☐HAND CARRY
SIGNATURE 2: _____
NAME 2: _____
DATED 2: / / TIME: ___:___
HOW SENT 2: ☐EXP MAIL ☐HAND CARRY

SAMPLES RECEIVED BY: _____
SIGNATURE: _____
NAME: _____
DATE: / / TIME: ___:___
HOW RECD: ☐EXP MAIL ☐HAND CARRY
FREIGHT IN: $ _____
LOGGED IN: / / TIME: ___:___
SAMPLE COND: _____ SAMPLE TEMP: _____
LAB NOTES: _____

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

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EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347 Tel: (800) THE LABS Tel: (800) 843-5227 FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY, INC.
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14038
Attn:	RUSS SAVAGE/ GREG WEBER
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	Benderson/1746 Walden
Date FAXED:	01/18/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7921	
Sample ID #1 (CUST)	Pile # 4	
Sample ID #2 (CUST)		
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	01/17/96	NA
Date Received	01/16/96	05:20
Date Analyzed	01/18/96	
Date Reported	01/18/96	

Original:

	Results	Det Limit*
Lead	0.68	0.05

Duplicat (sample obtained from bottom of container and tumbled separately from sample obtained at top)

	Results	Det Limit*
Lead	0.39	0.05

PO Box 40 5611 Water Street Middlesex NY 14507
HE LABS Tel: 1-800-843-5227 FAX 1-716-554-4114

7921 FARM LAB MISC

WORKORDER NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

CUSTOMER: NATURES WAY ES & C
ADDRESS: 3553 CRITTENDEN RD.
CITY: CRITTENDEN
STATE/ZIP: NY 14004
PHONE: (716) 937-6527
FAX:
CONTACT: RUSS SAVAGE / GREG WEBER

PO NUMBER:
PROJECT NO:
PROJECT CUST:
PROJECT SITE: BENDERSON / WALDEN AVE

SEND RESULTS: ☑FAX ☐EXPR MAIL
PHONE RESULTS: ☑ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY
		FLASH POINT

(DIESEL)
(GAS OR OIL)
SUSPECT : _____

SPECIAL INSTRUCTIONS: QUICK TURNAROUND (4 H)

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	TCLP, LEAD ...					
11/7/96	11:30	TREATED SOIL PILE #4	✓					

CHAIN OF CUSTODY RECORD

of SAMPLES 1 # of CONTAINERS (250ml)
SAMPLED BY: P. CONNELLY
SIGNATURE:
NAME:
DATED: / / TIME: :
HOW SENT: ☐EXP MAIL ☐HAND CARRY
SIGNATURE 2:
NAME 2:
DATED 2: / / TIME: :
HOW SENT 2: ☐EXP MAIL ☐HAND CARRY

SAMPLES RECEIVED BY: Express Lab
SIGNATURE:
NAME:
DATE: 11/7/96 TIME: 5:20
HOW RECD: ☐EXP MAIL ☐HAND CARRY
FREIGHT IN: $
LOGGED IN: 11/7/96 TIME: 5:30
SAMPLE COND: SAMPLE TEMP: 4°C
LAB NOTES:

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

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EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347 Tel: (800) THE LABS Tel: (800) 843-5227 FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14004
Attn:	RUSS SAVAGE
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	Benderson/ Walden Ave.
Date FAXED:	01/19/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7929	
Sample ID #1 (CUST)	Treated Soil Pile	
Sample ID #2 (CUST)	# 5 Composite	
Matrix	Soil	
Sampled By	Brian O' Donnell	
Date Sampled	01/18/96	01:30
Date Received	01/18/96	04:55
Date Analyzed	01/19/96	
Date Reported	01/19/96	

	Results	Det Limit*
Lead	0.86	0.05

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 01/19/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7930	
Sample ID #1 (CUST)	Treated Soil Pile	
Sample ID #2 (CUST)	#6 Composite	
Matrix	Soil	
Sampled By	Brian O' Donnell	
Date Sampled	01/18/96	01:40
Date Received	01/18/96	04:55
Date Analyzed	01/19/96	
Date Reported	01/19/96	
	Results	Det Limit*
Lead	0.18	0.05

7929 7930 WORK SHEET

x 40 5611 Water Street Middlesex NY 14507
Tel: 1-800-843-5227 FAX 1-716-554-4114

WORKORDER NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

CUSTOMER: NATURES WAY
ADDRESS: 3553 CRITTENDEN RD
CITY: CRITTENDEN NY 14004
STATE/ZIP:
PHONE: (716) 937-6527
FAX:
CONTACT: RUSS GAVAGE / GREG WEBER

PO NUMBER:
PROJECT NO:
PROJECT CUST: 1746
PROJECT SITE: BENDERSON / WALDEN AVE

SEND RESULTS: ☒FAX ☐EXPR MAIL
PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY
		FLASH POINT

(DIESEL)
(GAS OR OIL)
SUSPECT : _____

SPECIAL INSTRUCTIONS: A.M. TURNAROUND

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	TCLP + LEAD					
1/11/96	1:30	TREATED SOIL PILE #5 COMPOSITE	✓					
1/11/96	1:40	TREATED SOIL PILE #6 COMPOSITE	✓					

CHAIN OF CUSTODY RECORD

of SAMPLES 2 # of CONTAINERS 2 (150 mls)
SAMPLED BY: B. O'Donnell
SIGNATURE: B. O'Donnell
NAME:
DATED: / / TIME: :
HOW SENT: ☐EXP MAIL ☒HAND CARRY
SIGNATURE 2: Greg Weber
NAME 2: Greg Weber
DATED 2: 1/18/96 TIME: :
HOW SENT 2: ☐EXP MAIL ☐HAND CARRY

SAMPLES RECEIVED BY: Expressmail
SIGNATURE: Colleen Kepper
NAME:
DATE: 1/18/96 TIME: 4:55
HOW RECD: ☒EXP MAIL ☐HAND CARRY
FREIGHT IN: $
LOGGED IN: 1/18/96 TIME: 5:00
SAMPLE COND: SAMPLE TEMP: 53
LAB NOTES:

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347 Tel: (800) THE LABS Tel: (800) 843-5227 FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 02/09/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7957	
Sample ID #1 (CUST)	PILE #7 COMP	
Sample ID #2 (CUST)		
Matrix	SOIL	
Sampled By	R.J. SAVAGE	
Date Sampled	01/29/96	01:45
Date Received	01/29/96	05:40
Date Analyzed	01/31/96	
Date Reported	02/09/96	

	Results	Det Limit*
Lead	0.36	0.05

Information used for TCLP fliud determination:

Initial pH	9.78
Final pH	1.99
pH of TCLP Fluid #1:	4.97

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 02/09/96
Lab Director William Sayer

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7958	
Sample ID #1 (CUST)	PILE #8	
Sample ID #2 (CUST)		
Matrix	SOIL	
Sampled By	R.J. SAVAGE	
Date Sampled	01/29/96	01:45
Date Received	01/29/96	05:40
Date Analyzed	01/31/96	
Date Reported	02/09/96	

	Results	Det Limit*
Lead	0.51	0.05

Information used for TCLP fliud determination:

Initial pH	8.86
Final pH	1.87
pH of TCLP Fluid #1:	4.97

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 02/09/96
Lab Director William Savage

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7959	
Sample ID #1 (CUST)	PILE #9	
Sample ID #2 (CUST)		
Matrix	SOIL	
Sampled By	R.J. SAVAGE	
Date Sampled	01/29/96	01:45
Date Received	01/29/96	05:40
Date Analyzed	01/31/96	
Date Reported	02/09/96	

	Results	Det Limit*
Lead	0.20	0.05

Information used for TCLP fliud determination:

Initial pH	7.82
Final pH	1.82
pH of TCLP Fluid #1:	4.97

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 02/09/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7960	
Sample ID #1 (CUST)	PILE #10	
Sample ID #2 (CUST)		
Matrix	SOIL	
Sampled By	R.J. SAVAGE	
Date Sampled	01/29/96	01:45
Date Received	01/29/96	05:40
Date Analyzed	01/31/96	
Date Reported	02/09/96	
	Results	Det Limit*
Lead	1.16	0.05

Information used for TCLP fliud determination:

Initial pH	8.96
Final pH	1.97
pH of TCLP Fluid #1:	4.97

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: Benderson/ Walden Ave.
Date FAXED: 01/31/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7961	
Sample ID #1 (CUST)	PILE # 11	
Sample ID #2 (CUST)		
Matrix	SOIL	
Sampled By	R.J. SAVAGE	
Date Sampled	01/29/96	03:00
Date Received	01/29/96	05:40
Date Analyzed	01/31/96	
Date Reported	01/31/96	

	Results	Det Limit*
Lead	0.34	0.05

Information used for TCLP fliud determination:

Initial pH	8.43
Final pH	1.98
pH of TCLP Fluid #1:	4.97

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14004
Attn:	RUSS SAVAGE
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	Benderson/ Walden Ave.
Date FAXED:	02/09/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7962	
Sample ID #1 (CUST)	PILE #9	
Sample ID #2 (CUST)		
Matrix	SOIL	
Sampled By	R.J. SAVAGE	
Date Sampled	01/29/96	01:45
Date Received	01/29/96	05:40
Date Analyzed	01/31/96	
Date Reported	02/09/96	

	Results	Det Limit*
Lead	0.69	0.05

Information used for TCLP fliud determination:

Initial pH	8.33
Final pH	1.90
pH of TCLP Fluid #1:	4.97

WORKORDER NYS

NY STATE CERTIFIED LAB #11360

CUSTOMER: AMEC E&C
ADDRESS:
CITY:
STATE/ZIP:
PHONE:
FAX:
CONTACT:

PO NUMBER:
PROJECT NO:
PROJECT CUST:
PROJECT SITE: 1746 WALDEN TREATED SOIL

SEND RESULTS: ☒FAX ☐EXPR MAIL
PHONE RESULTS: ☒YES ☐NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

3020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY (DIESEL)
		FLASH POINT (GAS OR OIL)

SUSPECT:

SPECIAL INSTRUCTIONS: Report pH @ 1:2 final extraction fluid pH. Label # of strips/extract tested

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	TCLP Pb					
11/29/96	1:45	PILE #7 Comp	X					
		PILE #8 Comp	X					
		PILE #9 Comp	X					
		PILE #9 Comp Duplicate	X					
		PILE #10 Comp	X					
	3:30	PILE #11 Comp	X					

CHAIN OF CUSTODY RECORD

of SAMPLES 6 # of CONTAINERS 6

SAMPLED BY: P. T Savage
SIGNATURE:
NAME: Patrick T Savage
DATED: 11/29/96 TIME: 3:30
HOW SENT: ☐EXP MAIL ☒HAND CARRY
SIGNATURE 2:
NAME 2: Charles Sax
DATED 2: 11/29/96 TIME: :
HOW SENT 2: ☐EXP MAIL ☒HAND CARRY

SAMPLES RECEIVED BY: Expresslab
SIGNATURE:
NAME:
DATE: 12/2/96 TIME: 5:40
HOW RECD: ☐EXP MAIL ☒HAND CARRY
FREIGHT IN: $
LOGGED IN: 12/3/96 TIME: 8:00
SAMPLE COND: SAMPLE TEMP: 4°C
LAB NOTES:

EXPRESSLAB

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14004
Attn:	RUSS SAVAGE
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	1746 Walden/Treated Soil
Date FAXED:	02/05/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7986	
Sample ID #1 (CUST)	Pile #12	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	02/01/96	01:00
Date Received	02/01/96	04:50
Date Analyzed	02/05/96	
Date Reported	02/05/96	
	Results	Det Limit*
Lead	0.71	0.05

pH of TCLP Fluid #1 and Sample:

Before Tumbling	5.32
After Tumbling	6.26

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14004
Attn:	RUSS SAVAGE
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	1746 Walden/Treated Soil
Date FAXED:	02/05/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7987	
Sample ID #1 (CUST)	Pile #13	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	02/01/96	01:00
Date Received	02/01/96	04:50
Date Analyzed	02/05/96	
Date Reported	02/05/96	
	Results	Det Limit*
Lead	1.15	0.05

pH of TCLP Fluid #1 and Sample:

Before Tumbling	5.24
After Tumbling	6.27

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/05/96
Lab Director Wilda Sayre

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7988	
Sample ID #1 (CUST)	Pile #14	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	02/01/96	01:00
Date Received	02/01/96	04:50
Date Analyzed	02/05/96	
Date Reported	02/05/96	
	Results	Det Limit*
Lead	1.33	0.05

pH of TCLP Fluid #1 and Sample:

Before Tumbling	5.11
After Tumbling	6.01

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14004
Attn:	RUSS SAVAGE
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	1746 Walden/Treated Soil
Date FAXED:	02/05/96
Lab Director	

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: **TCLP Metals**

Extraction Method: **Closed Cup Extraction for 18 hrs**

Analysis Method: **EPA 6010 ICP; AA/Cold Vapor**

Sample ID (LAB)	7989	
Sample ID #1 (CUST)	Pile #15	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russ Savage	
Date Sampled	02/01/96	02:00
Date Received	02/01/96	04:50
Date Analyzed	02/05/96	
Date Reported	02/05/96	

	Results	Det Limit*
Lead	0.77	0.05

pH of TCLP Fluid #1 and Sample:

Before Tumbling	5.12
After Tumbling	6.04

EXPRESS LAB

7986 7987 7988 7989

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FAX 1-716-554-4114

ENVIRONMENTAL SOILS TEST
CERTIFIED LAB #11369

CUSTOMER: NWEC+C
ADDRESS:
CITY:
STATE/ZIP:
PHONE:
FAX:
CONTACT:

PO NUMBER:
PROJECT NO:
PROJECT CUST:
PROJECT SITE: 1746 WALDEN TREATED SOIL
SEND RESULTS: ☐FAX ☐EXPR MAIL
PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY (DIESEL)
		FLASH POINT (GAS OR OIL)

SUSPECT :

SPECIAL INSTRUCTIONS: Report pH init, Final and on extract init + Final

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	LIST ANALYSIS REQUIRED: TCLP Pb
2/1/96	1:00	PILE #12 comp	X
		PILE #13 comp	X
		PILE #14 comp	X
	2:00	PILE #15 comp	X

CHAIN OF CUSTODY RECORD

of SAMPLES 4 # of CONTAINERS 4

SAMPLED BY: RJS
SIGNATURE:
NAME:
DATED: / / TIME: :
HOW SENT: ☐EXP MAIL ☒HAND CARRY
SIGNATURE 2:
NAME 2:
DATED 2: / / TIME: :
HOW SENT 2: ☐EXP MAIL ☐HAND CARRY

SAMPLES RECEIVED BY: EXPRESS LAB
SIGNATURE: Ann M. Whaley
NAME: ANN M. WHALEY
DATE: 2/1/96 TIME: 4:50
HOW RECD: ☐EXP MAIL ☒HAND CARRY
FREIGHT IN: $
LOGGED IN: 2/1/96 TIME: 5:30
SAMPLE COND: Sealed SAMPLE TEMP: 50°
LAB NOTES:

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc

EXPRESSLAB

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	7999	
Sample ID #1 (CUST)	PILE #16	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russell Savage	
Date Sampled	02/02/96	03:30
Date Received	02/07/96	11:30
Date Analyzed	02/08/96	
Date Reported	02/08/96	
	Results	Det Limit*
Lead	0.62	0.05

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14004
Attn:	RUSS SAVAGE
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	1746 Walden/Treated Soil
Date FAXED:	02/08/96
Lab Director	Wilh Savage

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8000	
Sample ID #1 (CUST)	PILE #17	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russell Savage	
Date Sampled	02/02/96	03:45
Date Received	02/07/96	11:30
Date Analyzed	02/08/96	
Date Reported	02/08/96	
	Results	Det Limit*
Lead	0.41	0.05

7999 8000 MANILLA COPY

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'S Tel: 1-800-843-5227 FAX 1-716-554-4114

WORKORDER NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

Due 2-8

CUSTOMER: NWEC+C
ADDRESS:
CITY:
STATE/ZIP:
PHONE:
FAX:
CONTACT:

PO NUMBER:
PROJECT NO.: 1746 WALDEN
PROJECT CUST.: TREATED SOIL
PROJECT SITE:

SEND RESULTS: ☒ FAX ☐ EXPR MAIL
PHONE RESULTS: ☒ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTDE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB's	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		COROSIVITY
		FLASH POINT

(DIESEL)
(GAS OR OIL)
SUSPECT:

SPECIAL INSTRUCTIONS: Report PH on extract

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	TCLP Pb
2/2/96	3:30	PILE #16 comp	X
2/2/96	3:45	PILE #17 comp	X

CHAIN OF CUSTODY RECORD

of SAMPLES 2 # of CONTAINERS 2
SAMPLED BY: CAS
SIGNATURE:
NAME: Cassie Bakes
DATED: 2/7/96 TIME: 7:30 AM
HOW SENT: ☐ EXP MAIL ☒ HAND CARRY
SIGNATURE 2: Charles Sax
NAME 2: Charles Sax
DATED 2: / / TIME:
HOW SENT 2: ☐ EXP MAIL ☐ HAND CARRY

SAMPLES RECEIVED BY: EXP LABS
SIGNATURE:
NAME: ANN M WINSLEY
DATE: 2/7/96 TIME: 11:30
HOW REC'D.: ☐ EXP MAIL ☒ HAND CARRY
FREIGHT IN: $
LOGGED IN: 2/7/96 TIME: 12:45
SAMPLE COND: Sealed SAMPLE TEMP.: 35°
LAB NOTES:

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347 Tel: (800) THE LABS Tel: (800) 843-5227 FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8001	
Sample ID #1 (CUST)	PILE #18	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russell Savage	
Date Sampled	02/06/96	03:00
Date Received	02/07/96	11:30
Date Analyzed	02/08/96	
Date Reported	02/08/96	
	Results	Det Limit*
Lead	0.84	0.05

EXPRESSLAB

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director Wilt Sgs C

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8002	
Sample ID #1 (CUST)	PILE #19	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russell Savage	
Date Sampled	02/06/96	03:00
Date Received	02/07/96	11:30
Date Analyzed	02/08/96	
Date Reported	02/08/96	
	Results	Det Limit*
Lead	2.01	0.05

EXPRESSLAB

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14004
Attn:	RUSS SAVAGE
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	1746 Walden/Treated Soil
Date FAXED:	02/08/96
Lab Director	Willi Szn

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8003	
Sample ID #1 (CUST)	PILE #20	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russell Savage	
Date Sampled	02/06/96	03:00
Date Received	02/07/96	11:30
Date Analyzed	02/08/96	
Date Reported	02/08/96	

	Results	Det Limit*
Lead	1.17	0.05

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/08/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8004	
Sample ID #1 (CUST)	PILE #21	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russell Savage	
Date Sampled	02/06/96	03:20
Date Received	02/07/96	11:30
Date Analyzed	02/08/96	
Date Reported	02/08/96	
	Results	Det Limit*
Lead	0.78	0.05

8001 8002 8003 8004 MANILLA COPY

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FAX 1-716-554-4114

WORKORDER NYS

SPECIALIZING IN ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

DW 2

CUSTOMER: NUFLEX
ADDRESS:
CITY:
STATE/ZIP:
PHONE:
FAX:
CONTACT:

PO NUMBER:
PROJECT NO.: 1746 WALDEN
PROJECT CUST.:
PROJECT SITE: WALDEN SOIL

SEND RESULTS: ☐ FAX ☐ EXPR MAIL
PHONE RESULTS: ☐ YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB's	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		COROSIVITY
		FLASH POINT

(DIESEL)
(GAS OR OIL)
SUSPECT: _____

SPECIAL INSTRUCTIONS: _____

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	TCLP Pb					
2/6/96	3:00	PILE #18 comp 3	X					
	↓	PILE #19 comp 3	X					
	↓	PILE #20 comp 3	X					
↓	3:30	PILE #21 comp 3	X					

CHAIN OF CUSTODY RECORD

of SAMPLES 4 # of CONTAINERS 4
SAMPLED BY: EXP
SIGNATURE:
NAME: Russell Savage
DATED: 2/7/96 TIME: 12:30 PM
HOW SENT: ☐ EXP MAIL ☐ HAND CARRY
SIGNATURE 2: Charles Say
NAME 2: Charles Say
DATED 2: / / TIME: :
HOW SENT 2: ☐ EXP MAIL ☐ HAND CARRY

SAMPLES RECEIVED BY: EXP LAB
SIGNATURE: Lynn M. Wheeler
NAME: LYNN M. WHEELER
DATE: 2/7/96 TIME: 11:30
HOW REC'D.: ☐ EXP MAIL ☒ HAND CARRY
FREIGHT IN: $
LOGGED IN: 2/7/96 TIME: 12:45
SAMPLE COND.: good SAMPLE TEMP.: 5°
LAB NOTES:

ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 13, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.213

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on four samples received at the Analytical Services Center on February 07, 1996. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983.

Under separate cover, you will be receiving an invoice for Job 9600.213.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

Verbal results were forwarded to you on 2/9/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

SENT TO: E+E INC

Company Name: NWEC+C

Project Name / Number: 1746 WALDEN / TREATED SOIL

Turn-Around Time
☐ - Standard Service
☒ - * Rush Service
Date requested by: FRI 2/9/96
Ph # (716) - 937 6527
Fax # (716) - 937 - 9360

Page _____ of _____

Send Report to: NWEC+C INC
3553 CRITTENDEN RD
CRITTENDEN, NY 14038

Send Invoice to: SAME

P.O. # _____

Chain of Custody Record

SAMPLE ID	Date	Time	TYPE: Comp.	Grab	Aqueous	Soil	Other	Laboratory ID Number	PARAMETERS FOR ANALYSIS: TCLP Pb
PILE #3 comp 1	2/6/96	3:00	X			X			X
PILE #3 comp 2	↓	↓	X			X			X
PILE #10 comp 1			X			X			X
PILE #10 comp 2			X			X			X

REMARKS: RUSH - Please fax results by FRI PM

Total Containers - 4

SAMPLER'S NAME: Russ Savage SIGNATURE: [signature]

SAMPLES RELINQUISHED BY:		SAMPLES RECEIVED BY:	
NAME: Russell Savage	DATE: 2/7/96	NAME:	DATE:
SIGNATURE: [signature]	TIME: 9:00 AM	SIGNATURE:	TIME:
NAME:	DATE:	NAME:	DATE:
SIGNATURE:	TIME:	SIGNATURE: [signature]	TIME:
NAME:	DATE	Received For Laboratory By	DATE: 2-7-96

Custody Seal Intact? Sample ☐ Yes ☐ No ☐ N.A.
Shipment Complete? ☐ Yes ☐ No

Temp _____ °C TS TB TM

Airbill #

JOB NUMBER : 9600.213

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
TCLP - LEAD	(ICP)-S			
39258.01	PILE#3 COMP 1	02/06/96	02/09/96	02/09/96
39259.01	PILE#3 COMP 2	02/06/96	02/09/96	02/09/96
39260.01	PILE#10 COMP 1	02/06/96	02/09/96	02/09/96
39261.01	PILE#10 COMP 2	02/06/96	02/09/96	02/09/96

Results of Analysis of TCLP Extracts Job Number :9600.213
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39258 MATRIX: SOLID
SAMPLE ID CLIENT: PILE#3 COMP 1 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	27		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.213
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39259 MATRIX: SOLID
SAMPLE ID CLIENT: PILE#3 COMP 2 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	39		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.213
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39260 MATRIX: SOLID
SAMPLE ID CLIENT: PILE#10 COMP 1 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	16		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.213
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39261 MATRIX: SOLID
SAMPLE ID CLIENT: PILE#10 COMP 2 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	11		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (276)

9600.213

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1060	1000	106

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.213
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8005	
Sample ID #1 (CUST)	PILE #22	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russell Savage	
Date Sampled	02/07/96	01:45
Date Received	02/08/96	11:30
Date Analyzed	02/12/96	
Date Reported	02/12/96	
	Results	Det Limit*
Lead	0.39	0.05

EXPRESSLAB

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust	NATURE'S WAY
Address:	3553 CRITTENDEN ROAD
	CRITTENDEN, NY 14004
Attn:	RUSS SAVAGE
Phone	716-937-6527
FAX	716-937-9360

PO Number:	
Project Number:	
Project Cust:	
Project Site:	1746 Walden/Treated Soil
Date FAXED:	02/12/96
Lab Director	Willa Sayre

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm

*See Individual Limits

Results shown are: TCLP Metals

Extraction Method: Closed Cup Extraction for 18 hrs

Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8006	
Sample ID #1 (CUST)	PILE #23	
Sample ID #2 (CUST)	Composite	
Matrix	Soil	
Sampled By	Russell Savage	
Date Sampled	02/07/96	01:45
Date Received	02/08/96	11:30
Date Analyzed	02/12/96	
Date Reported	02/12/96	
	Results	Det Limit*
Lead	0.94	0.05

EXPRESS LAB

Vater Street Middlesex NY 14507

800-843-5227 FAX 1-716-554-4114

8005 8006 8007 MANILLA COPY

ZING IN ENVIRONMENTAL SOILS TESTS

NY STATE CERTIFIED LAB #11369

WORK ORDER NO.

Due 2-9

CUSTOMER: NWEC+C
ADDRESS:
CITY:
STATE/ZIP:
PHONE:
FAX:
CONTACT:

PO NUMBER:
PROJECT NO: 1746 WALDEN
PROJECT CUST: TREATED SOIL
PROJECT SITE:

SEND RESULTS: ☐FAX ☐EXPR MAIL
PHONE RESULTS: ☒YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY (DIESEL)
		FLASH POINT (GAS OR OIL)

SUSPECT : _____

SPECIAL INSTRUCTIONS: _____

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	TCLP Pb					
2/7/96	1:45	Pile 22 Comp						
↓	↓	Pile 23 "						
↓	↓	Pile 24 "						

CHAIN OF CUSTODY RECORD

of SAMPLES 3 # of CONTAINERS 3
SAMPLED BY: KTS
SIGNATURE: KTS
NAME: Kara Sawyer
DATED: / / TIME: :
HOW SENT: ☐EXP MAIL ☐HAND CARRY
SIGNATURE 2:
NAME 2:
DATED 2: / / TIME: :
HOW SENT 2: ☐EXP MAIL ☐HAND CARRY

SAMPLES RECEIVED BY: EXP. LAB
SIGNATURE: Ann M. Wahley
NAME: ANN M. WAHLEY
DATE: 2/8/96 TIME: 11:30
HOW RECD: ☐EXP MAIL ☒HAND CARRY
FREIGHT IN: $
LOGGED IN: 2/8/96 TIME: 11:56
SAMPLE COND: Sealed SAMPLE TEMP: 50°
LAB NOTES:

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP: AA/Cold Vapor

Sample ID (LAB)	8014	
Sample ID #1 (CUST)	PILE #25	
Sample ID #2 (CUST)	Composite	
Matrix	SOIL	
Sampled By	Russell Savage	
Date Sampled	02/08/96	01:30
Date Received	02/08/96	06:00
Date Analyzed	02/12/96	
Date Reported	02/12/96	
	Results	Det Limit*
Lead	0.20	0.05

EXPRESSLAB

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director Wilh Sgra

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8015	
Sample ID #1 (CUST)	PILE #26	
Sample ID #2 (CUST)	Composite	
Matrix	SOIL	
Sampled By	Russell Savage	
Date Sampled	02/08/96	01:30
Date Received	02/08/96	06:00
Date Analyzed	02/12/96	
Date Reported	02/12/96	
	Results	Det Limit*
Lead	2.44	0.05

EXPRESSLAB

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

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LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director Wm Sp a

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8016	
Sample ID #1 (CUST)	PILE #26 DUP	
Sample ID #2 (CUST)	Composite	
Matrix	SOIL	
Sampled By	Russell Savage	
Date Sampled	02/08/96	01:30
Date Received	02/08/96	06:00
Date Analyzed	02/12/96	
Date Reported	02/12/96	

	Results	Det Limit*
Lead	1.84	0.05

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8017	
Sample ID #1 (CUST)	PILE #27	
Sample ID #2 (CUST)	Composite	
Matrix	SOIL	
Sampled By	Russell Savage	
Date Sampled	02/08/96	01:30
Date Received	02/08/96	06:00
Date Analyzed	02/12/96	
Date Reported	02/12/96	
	Results	Det Limit*
Lead	0.59	0.05

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

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SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8018	
Sample ID #1 (CUST)	PILE #28	
Sample ID #2 (CUST)	Composite	
Matrix	SOIL	
Sampled By	Russell Savage	
Date Sampled	02/08/96	02:00
Date Received	02/08/96	06:00
Date Analyzed	02/12/96	
Date Reported	02/12/96	
	Results	Det Limit*
Lead	0.43	0.05

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347 Tel: (800) THE LABS Tel: (800) 843-5227 FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - TCLP METALS

Cust NATURE'S WAY
Address: 3553 CRITTENDEN ROAD
CRITTENDEN, NY 14004
Attn: RUSS SAVAGE

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number:
Project Cust:
Project Site: 1746 Walden/Treated Soil
Date FAXED: 02/12/96
Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Detection Limits* = Water=mg/ =0.05 mg/L or ppm
*See Individual Limits

Results shown are: TCLP Metals
Extraction Method: Closed Cup Extraction for 18 hrs
Analysis Method: EPA 6010 ICP; AA/Cold Vapor

Sample ID (LAB)	8019	
Sample ID #1 (CUST)	Excavation 10	
Sample ID #2 (CUST)	STOCKPILED SOIL	
Matrix	SOIL	
Sampled By	Russell Savage	
Date Sampled	02/08/96	02:30
Date Received	02/08/96	06:00
Date Analyzed	02/12/96	
Date Reported	02/12/96	
	Results	Det Limit*
Lead	0.87	0.05

8014 8015 8016 8017 8018 8019 MANILLA COPY

WORKORDER NYS

ENVIRONMENTAL SOILS TESTS
NY STATE CERTIFIED LAB #11369

CUSTOMER: NWEC-C
ADDRESS:
CITY:
STATE/ZIP:
PHONE:
FAX:
CONTACT:

PO NUMBER: 12416 WHALEN
PROJECT NO: TREATED SOIL
PROJECT CUST:
PROJECT SITE:

SEND RESULTS: ☒FAX ☐EXPR MAIL
PHONE RESULTS: ☒YES ☐ NO

SAMPLE DEMOGRAPHICS AND TESTS REQUIRED

8020 BTEX + MTBE	8270 (Stars)	FULL TCLP
8021 + MTBE	625	TCLP LESS HERBS & PESTS
503.1	PCB'S	TCLP VOLATILES
TPH GASOLINE	602	TCLP SEMI-VOLATILES
TPH DIESEL	624	8 RCRA METALS (TCLP)
8240	TOX	HERBICIDES
8260 (Stars)	LEAD ONLY	PESTICIDES
8260		REACTIVITY
8 RCRA METALS (DIRECT)		CORROSIVITY
		FLASH POINT

(DIESEL)
(GAS OR OIL)
SUSPECT : _____

SPECIAL INSTRUCTIONS: _____

LIST ANALYSIS REQUIRED

DATE	TIME	SAMPLE DESCRIPTION / LOCATION / MATRIX	TCLP Pb					
2/8/96	1:20	File #25 Comp	X					
"	"	File #26 comp	X					
"	"	File #26 Comp duplicate	X					
"	"	File #27 comp	X					
"	2:00	File #28 comp	X					
2/8/96	2:20	EXCAVATION IN Stockpiled soil	X					

CHAIN OF CUSTODY RECORD

of SAMPLES 5 # of CONTAINERS 5
SAMPLED BY: RGS
SIGNATURE:
NAME: Robert J Savage
DATED: 2/8/96 TIME: 2:30
HOW SENT: ☐EXP MAIL ☒HAND CARRY
SIGNATURE 2:
NAME 2:
DATED 2: / / TIME: :
HOW SENT 2: ☐EXP MAIL ☐HAND CARRY

SAMPLES RECEIVED BY: EXP LAB
SIGNATURE: Ann M. Whaley
NAME: Ann M. Whaley
DATE: 2/8/96 TIME: 6:00pm
HOW RECD: ☐EXP MAIL ☒HAND CARRY
FREIGHT IN: $
LOGGED IN: 2/9/96 TIME: 8:00
SAMPLE COND: SAMPLE TEMP: 4°
LAB NOTES:

White-Lab, Yellow-Customer, Hard-Lab

RESULTS WHEN YOU WANT THEM

expwo20doc

General Testing Corporation

A FULL SERVICE ENVIRONMENTAL LABORATORY

February 20, 1996

Mr. Russ Savage
Nature's Way EC&C, Inc.
3553 Crittenden Road
Crittenden, NY 14038

PROJECT:1746 WALDEN AVE.
Submission #:9602000136

Dear Mr. Savage:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 02/14/96 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger

Janice Jaeger
Project Chemist

Enc.

This package has been reviewed by General Testing Corporation's QA Department/Laboratory Director prior to report submittal. Michael K. Pe

710 Exchange Street • Rochester, NY 14608 • Tele:(716)454-3760 • Fax:(716)454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele:(201)488-5242 • Fax:(201)488-6386
435 Lawrence Bell Drive • Amherst, NY 14421 • Tele:(716)634-0454 • Fax:(716)634-9019

General Testing Corporation

A Full Service Environmental Laboratory

Effective 10/30/95

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

GTC Lab ID # for State Certifications

NY ID # in Rochester: 10145
NY ID # in Hackensack: 10801
NY ID # in Massachusetts: M-NY032

NJ ID # in Rochester: 73331
NJ ID # in Hackensack: 02317

General Testing Corporation

1-800-695-7222

Tel: (716) 454-3760 FAX: (716) 454-1245
710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name:	Nature's Way EC&C, Inc.	PO Number:	
Address:	3553 Crittenden Road	Project Site:	1746 WALDEN AVE.
	Crittenden, NY 14038	Date faxed :	02/14/96
Phone:	716/937-6527	Lab Director:	Michael K. Perry
FAX:	716/937-9360		
Attention:	Mr. Russ Savage		

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63967
Client ID PILE #23
Matrix: SOIL/SEDIMENT
Date Sampled: 02/12/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

	Result	Det. Limit	Units
LEAD	2.89	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:
NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317
NY ID# in Massachusetts: M-NY032

General Testing Corporation

1-800-695-7222

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710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name:	Nature's Way EC&C, Inc.	PO Number:	
Address:	3553 Crittenden Road	Project Site:	1746 WALDEN AVE.
	Crittenden, NY 14038	Date faxed :	02/14/96
Phone:	716/937-6527	Lab Director:	Michael K. Perry
FAX:	716/937-9360		
Attention:	Mr. Russ Savage		

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63968
Client ID PILE #25
Matrix: SOIL/SEDIMENT
Date Sampled: 02/08/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

	Result	Det. Limit	Units
LEAD	0.705	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:
NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317
NY ID# in Massachusetts: M-NY032

General Testing Corporation

1-800-695-7222

Tel: (716) 454-3760 FAX: (716) 454-1245
710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name:	Nature's Way EC&C, Inc.	PO Number:	
Address:	3553 Crittenden Road	Project Site:	1746 WALDEN AVE.
	Crittenden, NY 14038	Date faxed :	02/14/96
Phone:	716/937-6527	Lab Director:	Michael K. Perry
FAX:	716/937-9360		
Attention:	Mr. Russ Savage		

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63969
Client ID PILE #26
Matrix: SOIL/SEDIMENT
Date Sampled: 02/08/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

	Result	Det. Limit	Units
LEAD	9.39	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:
NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317
NY ID# in Massachusetts: M-NY032

General Testing Corporation

1-800-695-7222

Tel: (716) 454-3760 FAX: (716) 454-1245
710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name:	Nature's Way EC&C, Inc.	PO Number:	
Address:	3553 Crittenden Road	Project Site:	1746 WALDEN AVE.
	Crittenden, NY 14038	Date faxed :	02/14/96
Phone:	716/937-6527	Lab Director:	Michael K. Perry
FAX:	716/937-9360		
Attention:	Mr. Russ Savage		

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63970
Client ID PILE #27
Matrix: SOIL/SEDIMENT
Date Sampled: 02/08/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

	Result	Det. Limit	Units
LEAD	1.08	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:
NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317
NY ID# in Massachusetts: M-NY032

General Testing Corporation

1-800-695-7222

Tel: (716) 454-3760 FAX: (716) 454-1245
710 Exchange St. Rochester, N.Y. 14608

Tel: (716) 634-0454 FAX: (716) 634-9019
435 Lawrence Bell Dr. Amherst, N.Y. 14221

Submission #: 9602000136

LABORATORY REPORT- TCLP METALS

Client Name:	Nature's Way EC&C, Inc.	PO Number:	
Address:	3553 Crittenden Road	Project Site:	1746 WALDEN AVE.
	Crittenden, NY 14038	Date faxed :	02/14/96
Phone:	716/937-6527	Lab Director:	Michael K. Perry
FAX:	716/937-9360		
Attention:	Mr. Russ Savage		

SAMPLE INFORMATION AND TEST RESULTS

Sample ID: 63971
Client ID PILE #28
Matrix: SOIL/SEDIMENT
Date Sampled: 02/08/96
Date Received: 02/13/96
Date Analyzed: 02/14/96
Date Reported: 02/20/96

	Result	Det. Limit	Units
LEAD	0.639	0.100	MG/L (PPM)

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

GTC Lab ID# for State Certifications:
NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NY ID# in Hackensack: 02317
NY ID# in Massachusetts: M-NY032

GENERAL TESTING CORPORATION
Affiliated With CAS, Kelso, WA (see below for other offices)
710 Exchange Street, Rochester, New York 14608
(716) 454-3760 • FAX (716) 454-1245

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

(800) 695-7222

DATE 2/12/96 PAGE 1 OF 1

PROJECT NAME 1746 WALDEN AVE
PROJECT MANAGER/CONTACT Russ Savage NWEC&C
COMPANY/ADDRESS 3553 Crittenden Rd.
Crittenden, NY 14038
TEL (716) 937-6527 FAX (716) 937-9360
SAMPLER'S SIGNATURE Russell J. Savage

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX	NUMBER OF CONTAINERS	TCLP - Pb
Treated Soil Composites					*	
Pile #23	2/12/96	3:00	63967	Soil	1	X
Pile #25	2/12/96	1:30	63968	"	1	X
Pile #26	2/12/96	1:30	63969	"	1	X
Pile #27	2/12/96	1:30	63970	"	1	X
Pile #28	2/12/96	1:30	63971	"	1	X

GC/MS VOA's ☐ 8260 ☐ 624
GC/MS SVOA's ☐ 8270A ☐ 625
GC VOA's ☐ 8010/8020 ☐ 601/602
PESTICIDES/PCB's ☐ 8080 ☐ 608
STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP
STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P
WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
METALS, TOTAL (LIST BELOW)
METALS, DISSOLVED (LIST BELOW)

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature: Tom Hastings
Printed Name: Tom Hastings
Firm: GTC
Date/Time: 2/13/96 14:00

TURNAROUND REQUIREMENTS
X 24 hr. ___ 48 hr. ___ 5 day
___ Standard (10-15 working days)
___ Provide Verbal Preliminary Results
___ Provide FAX Preliminary Results
Requested Report Date ___

REPORT REQUIREMENTS
X 1. Routine Report
___ 2. Routine Rep w/CASE Narrative
___ 3. EPA Level III Validatable Package
___ 4. N.J. Reduced Deliverables Level IV
___ 5. NY ASP/CLP Deliverables
___ 6. Site specific QC.

INVOICE INFORMATION:
P.O.#:
Bill To:

SAMPLE RECEIPT:
Shipping Via:
Shipping #:
Temperature:
Submission No.: 2-1336

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:
METALS:
ORGANICS: ☐ TCL ☐ PPL ☐ AE Only ☐ BN Only ☐ Special List

85 TRINITY PLACE 201-488-5242
HACKENSACK, NJ 07601 FAX 201-488-6386
435 LAWRENCE BELL DR. 716-634-0454
AMHERST, NY 14221 FAX 716-634-9019

ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 19, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.255

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on five samples received at the Analytical Services Center on February 13, 1996. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983.

Under separate cover, you will be receiving an invoice for Job 9600.255.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/15/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

ecology and environment, inc.

Analytical Services Center
4493 Waldon Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.:	Project Name: 1746 WALDEN TREATED SOIL	Project Manager:
Samplers: (Signatures)	937-6527 NWEC&C Inc.	Field Team Leader:

TCLP Pb (last: 48 hr T/A)

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS							REMARKS
Pile 23	2/14/96	3:00	X			* not submitted	Pile #23 comp	1	X						fax results immediately to NWEC&C @ 937-9360
Pile 24			X				" #24 "	1	X						
Pile 29			X				" #29 "	1	X						
Pile 30			X				" #30 "	1	X						
Pile 31			X				" #31 "	1	X						
Pile 32			X				" #32 "	1	X						

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
	2/13/96 7:30 C.S.					
Relinquished By: (Signature)	Date/Time: 2/13/96 4:15	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number:
Relinquished By: (Signature)	Date/Time: 2-13-96 / 0725	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date:

Distribution: Original accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571191

JOB NUMBER : 9600.255

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
TCLP - LEAD (ICP)-S				
39547.01	PILE #24	02/12/96	02/14/96	02/14/96
39548.01	PILE #29	02/12/96	02/14/96	02/14/96
39549.01	PILE #30	02/12/96	02/14/96	02/14/96
39550.01	PILE #31	02/12/96	02/14/96	02/14/96
39551.01	PILE #32	02/12/96	02/14/96	02/14/96

Results of Analysis of TCLP Extracts Job Number :9600.255
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39547 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #24 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	6.1		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.255
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39548 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #29 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	7.7		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.255
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39549 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #30 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.8		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.255
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39550 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #31 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	11		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.255
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39551
SAMPLE ID CLIENT: PILE #32

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	4.2		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.255

(mg/L)

Parameter	E & E Laboratory No. 96-39549	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		1.8	6.8	5.0	100

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.255
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.
International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 23, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.307

Dear Mr. Savage:

Attached is the laboratory report of the reanalysis conducted on two samples received at the Analytical Services Center on February 13, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.307.

A facsimile of draft results was sent to you on 02/21/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

JOB NUMBER : 9600.307

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
TCLP - LEAD (ICP)-S				
39865.01	PILE #24	02/12/96	02/21/96	02/21/96
39866.01	PILE #29	02/12/96	02/21/96	02/21/96

Results of Analysis of TCLP Extracts Job Number :9600.307
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39865 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #24 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.2		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.307
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39866 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #29 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	1.2		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (310)

9600.307

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1060	1000	106

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.307
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 19, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.263

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on February 13, 1996. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", USEPA-600/4-79-020, March 1983.

Under separate cover, you will be receiving an invoice for Job 9600.263.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/15/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn /gk

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

CHAIN OF CUSTODY RECORD

Client Name: NYS DEC

Mailing Address: Contact - Kevin Glasco
851-7220

Project Name: 1746 WALDEN AVE

SAMPLE NUMBER	DATE	TIME	LOCATION	SAMPLE TYPE	ANALYSIS: TCLP Lead	NUMBER OF CONTAINERS	REMARK
Treated Soil Pile 33	2/13/96		Pile 33	Soil Comp	X	1	48 Hour Rush T/A fax to 937-9360
Treated Soil Pile 34	2/13/96		Pile 34	Soil Comp	X	1	

SAMPLED BY: Greg Weber (Greg Weber NiWEC+C, Inc)
SIGN

	1	2	3	4
RELINQUISHED BY:	Greg Weber SIGN 2/13/96 DATE 15:50 TIME	SIGN DATE TIME	SIGN DATE TIME	SIGN DATE TIME
RECEIVED BY:	SIGN DATE TIME	SIGN DATE TIME	SIGN DATE TIME	SIGN DATE TIME

METHOD OF SHIPMENT:

SIGN

RECEIVED FOR LABORATORY BY:

William W. Howard SIGN 2-13-96 DATE 15:50 TIME

JOB NUMBER : 9600.263

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
TCLP - LEAD (ICP)-S				
39579.01	PILE #33	02/13/96	02/14/96	02/15/96
39580.01	PILE #34	02/13/96	02/14/96	02/15/96

Results of Analysis of TCLP Extracts Job Number :9600.263
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39579 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #33 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.37		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.263
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39580 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #34 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.76		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF TCLP SOLID SAMPLES

9600.263

(mg/L)

Parameter	E & E Laboratory No. 96-39579	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		0.371	0.367	1.1

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.263

(mg/L)

Parameter	E & E Laboratory No. 96-39579	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		0.371	5.42	5.0	101

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (295)

9600.263

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1070	1000	107

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.263
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 21, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.290

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on February 15, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.290.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/20/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn/gk

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Project No.:	Project Name:	Project Manager:
1	1746 WALDEN TREATED SOIL	
Samplers: (Signatures)		Field Team Leader:

STATION NUMBER	DATE	TIME	SAMPLE TYPE: COMP	GRAB	AIR	SAMPLE INFORMATION — EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCLP Pb	REMARKS
Pile #35	2/14/96	2:30	X				Pile #35 Comp	1	X	
Pile #36	2/14/96	2:30	X				" #36 "	1	X	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number: / Date:

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

JOB NUMBER : 9600.290

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
TCLP - LEAD (ICP)-S				
39757.01	PILE #35	02/14/96	02/20/96	02/20/96
39758.01	PILE #36	02/14/96	02/20/96	02/20/96

Results of Analysis of TCLP Extracts Job Number :9600.290
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39757 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #35 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.290

(mg/L)

Parameter	E & E Laboratory No. 96-39757	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		ND	4.84	5.0	96.8

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (309)

9600.290

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1110	1000	111

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.290
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 21, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.298

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on February 16, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.298.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/20/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No	Project Name	Project Manager
	1746 WALDEN AVE	Russ Sabie

Samplers (Signatures): Greg Weber, Greg Weber NUS EC IC

Field Team Leader: NUS EC 3553 Crittenden Rd Crittenden, NY 14038

STATION NUMBER	DATE	TIME	SAMPLE TYPE: COMP	GRAB	AIR	SAMPLE INFORMATION: EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCLP test	REMARKS
	2/16/95	2:30	X				File # 37 comp.	2	X	Rush 45 Hr Turnaround
	2/16/95	2:40	X				File # 35 Preprocessed comp	2	X	Fax to 937-4360

Relinquished By (Signature)	Date/Time	Received By: (Signature)	Relinquished By (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	
Relinquished By (Signature): Greg Weber	Date/Time: 2/16/95 15:00	Received For Laboratory By (Signature): [illegible]	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	BL/Airbill Number: / Date:

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571191

JOB NUMBER : 9600.298

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

- SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
TCLP - LEAD	(ICP)-S			
39812.01	PILE #37	02/16/96	02/20/96	02/20/96
39813.01	PILE #38	02/16/96	02/20/96	02/20/96

Results of Analysis of TCLP Extracts Job Number :9600.298
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39812 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #37 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.298
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39813 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #38 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.19		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (309)

9600.298

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1110	1000	111

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.298
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.

International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

March 01, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.319

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on four samples received at the Analytical Services Center on February 20, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.319.

A facsimile of draft results was sent to you on 02/22/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

Results of Analysis of TCLP Extracts Job Number :9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39918 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #40 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.30		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39917 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #39 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39918 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #40 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.30		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39919 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #41 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.23		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

Results of Analysis of TCLP Extracts Job Number :9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39920 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #31 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	0.85		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF DUPLICATE
ANALYSES OF TCLP SOLID SAMPLES

9600.319

(mg/L)

Parameter	E & E Laboratory No. 96-39918	Sample Result	Duplicate Result	Relative Percent Difference (RPD)
Lead		0.304	0.305	0.3

THIS RPD IS WITHIN E & E, INC. QC TARGETS.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.319

(mg/L)

Parameter	E & E Laboratory No. 96-39918	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		0.304	4.90	5.0	92.0

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.319
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

LABORATORY CONTROL SAMPLE (320)

9600.319

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1090	1000	109

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

JOB NUMBER : 9600.319

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
TCLP - LEAD (ICP)-S				
39917.01	PILE #39	02/20/96	02/22/96	02/22/96
39918.01	PILE #40	02/20/96	02/22/96	02/22/96
39919.01	PILE #41	02/20/96	02/22/96	02/22/96
39920.01	PILE #31	02/20/96	02/22/96	02/22/96

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel. 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.:

Project Name: 1746 WALDEN AVE

Project Manager: Russ Savage - Nature's Way

Samplers: (Signatures) Greg Weber (Greg Weber NWEC+C)

Field Team Leader:

STATION NUMBER	DATE	TIME	SAMPLE TYPE: COMP	GRAB	AIR	SAMPLE INFORMATION: EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCLP Pb	REMARKS
	2/20/96	1:45	X				Pile #39 (Reprocessed)	1	X	★ 48 Hour Rush T/A
	2/20/96	1:55	X				Pile #40 (Reprocessed)	1	X	fax to 631-9360
	2/20/96	2:05	X				Pile #41 (Reprocessed)	1	X	
	2/20/96	2:15	X				Pile #31 - RESAMPLE	1	X	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Relinquished By: (Signature) Greg Weber	Date/Time: 2/20/96 15:30	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number / Date

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571194

ecology and environment, inc.
International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 26, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.329

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on one sample received at the Analytical Services Center on February 22, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.329.

A facsimile of draft results was sent to you on 02/26/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to this sample are limited solely to the laboratory analysis of the sample presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

TCLP Pb PUSH 48HR TIA

Project No.:	Project Name: 1746 WALDEN TREATED SOIL	Project Manager:
Sampler: (Signature)		Field Team Leader:

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	REMARKS
Pile #42	2/22/94	11:00	X				Pile #42 treated Soil	1	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Relinquished By: (Signature)	Date/Time:	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By: (Signature)	BL/Airbill Number: / Date:
Relinquished By: (Signature)	Date/Time: 2/22/94 12:00	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571193

ecology and environment, inc.

Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

TCLP Pb RUSH 48HR TAT

Project No:	Project Name: 1746 WALDEN TREATED SOIL	Project Manager:
Samplers: (Signatures)		Field Team Leader:

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	REMARKS
Pile #42	2/22/96	11:00	X				Pile #42 treated Soil	1	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:	
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number:	Date:
Relinquished By: (Signature)	Date/Time: 2/22/96 12:00	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

0571191

JOB NUMBER : 9600.329

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
TCLP - LEAD (ICP)-S				
39971.01	PILE #42	02/22/96	02/23/96	02/24/96

Results of Analysis of TCLP Extracts Job Number :9600.329
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :EE-96-39971 MATRIX: SOLID
SAMPLE ID CLIENT: PILE #42 UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	2.4		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED TCLP SOLID SAMPLES

9600.329

(mg/L)

Parameter	E & E Laboratory No. 96-39971	Sample Result	Spiked Sample Result	Spike Amount	Percent Recovery
Lead		2.39	6.89	5.0	90.0

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

LABORATORY CONTROL SAMPLE (324)

9600.329

(ug/L)

ANALYTE	FOUND VALUE	TRUE VALUE	PERCENT RECOVERY
Lead	1130	1000	113

THIS RECOVERY IS WITHIN E & E, INC. QC TARGETS.

Results of Analysis of TCLP Extracts Job Number :9600.329
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB :METHOD BLANK MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE

ecology and environment, inc.
International Specialists in the Environment

ANALYTICAL SERVICES CENTER
4493 Walden Avenue
Lancaster, New York 14086
Tel. (716) 685-8080, Fax: (716) 685-0852

February 23, 1996

Mr. Russ Savage
Natures Way Inc.
11796 Genesee Street
Alden, New York 14004

RE: 9600.306

Dear Mr. Savage:

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on February 19, 1996. Analysis was performed according to the procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, USEPA, 1986.

Under separate cover, you will be receiving an invoice for Job 9600.306.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

A facsimile of draft results was sent to you on 02/21/96.

The accuracy of all analyses depends upon the representative nature of the sample and the reliability of collection procedures as well as the accuracy of the laboratory analysis of the sample as submitted. Ecology and Environment, Inc.'s activity and representations with respect to these samples are limited solely to the laboratory analysis of the samples presented to us.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

Very truly yours,

Gary Hahn/gk

Gary Hahn, Director
Analytical Services Center

GH/gk
Enclosure

recycled paper

NWEC+C

9600-306

ecology and environment, inc.
Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel: 716/685-8080, Fax 716/685-0852
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Project No.:	Project Name: 1746 WALDEN TREATED SOIL	Project Manager	
Samplers: (Signatures)		Field Team Leader	

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCLP Pb 48 HR T/A	REMARKS
Modern pile #1	2/14/96	13:00	X				Modern-Treated Soil Pile #1	1	X	48 HR T/A
Modern pile #2	2/14/96	12:00	X				Modern-Treated Soil Pile #2	1	X	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By (Signature)	Date/Time:	Received By: (Signature)	Ship Via:	
Relinquished By: (Signature)	Date/Time: 2/19/96 2:30	Received By: (Signature)	Relinquished By (Signature)	Date/Time:	Received By: (Signature)		
Relinquished By: (Signature)	Date/Time: 2-19-96 23:0	Received For Laboratory By: (Signature)	Relinquished By (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number:	Date:

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form

0571191

JOB NUMBER : 9600.306

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

SAMPLE NUMBER	CLIENT SAMPLE ID	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
TCLP - LEAD	(ICP)-S			
39863.01	TREATED SOIL PILE# 1	02/19/96	02/21/96	02/21/96
39864.01	TREATED SOIL PILE# 2	02/19/96	02/21/96	02/21/96

Results of Analysis of TCLP Extracts Job Number :9600.306
ELAP ID : 10486

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : NATURES WAY INC.
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID
UNITS : MG/L

PARAMETER	RESULTS	Q	QUANTITATION LIMIT	REGULATORY LEVEL
Lead	ND		0.15	5.0

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE