

**REMEDIAL INVESTIGATIONS REPORT**

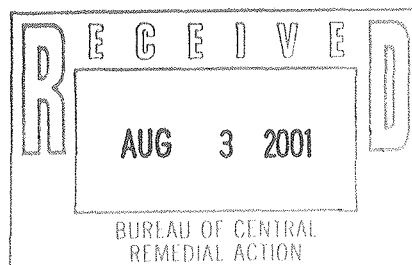
**WARD PRODUCTS CORPORATION  
61 EDSON STREET  
AMSTERDAM, NEW YORK  
SITE CODE 4-29-004**

**VOLUME TWO: APPENDICES**

**Prepared for  
WARD PRODUCTS CORPORATION  
61 Edson Street  
Amsterdam, New York 12010**

**Prepared by  
NORMANDEAU ASSOCIATES INC.  
25 Nashua Road  
Bedford, New Hampshire 03110-5500**

**July 2001**



***NORMANDEAU ASSOCIATES***  
**ENVIRONMENTAL CONSULTANTS**

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**APPENDIX A**

**LABORATORY RESULTS FOR SOIL/SEDIMENT  
SAMPLES COLLECTED FROM:**

**SLUDGE DRYING PAD  
VAPOR DEGREASING AREA  
FLOOR DRAIN**

**SLUDGE DRYING PAD**

Sample Reference List for SDG # WRD01  
with a NYSDEC Package Type

Lab Sample Number	Sample Code	Client Sample Description
-----	-----	-----
2738358	SLEX1	WP-SLEX1-070297 Grab Soil Sample
2738359	SLEX2	WP-SLEX2-070297 Grab Soil Sample
2738360	SLEDP	WP-SLEXDP-070297 Grab Soil Sample
2738361	SLEX3	WP-SLEX3-070297 Grab Soil Sample
2738362	SLEX4	WP-SLEX4-070297 Grab Soil Sample
2738363	SLEX5	WP-SLEX5-070297 Grab Soil Sample
2738364	SLEX6	WP-SLEX6-070297 Grab Soil Sample
2738365	SPA1-	× WP-SLSPA1-070297 Grab Soil Sample
2738366	SPA2-	× WP-SLSPA2-070297 Grab Soil Sample
2738367	SPB1-	× WP-SLSPB1-070297 Grab Soil Sample
2738368	SPB2-	× WP-SLSPB2-070297 Grab Soil Sample
2738369	SPB3-	× WP-SLSPB3-070297 Grab Soil Sample
2738370	SPC1-	× WP-SLSPC1-070397 Grab Soil Sample
2738371	SPC2-	× WP-SLSPC2-070397 Grab Soil Sample
2738372	SPD1-	× WP-SLSPD1-070397 Grab Soil Sample
2738373	SPD2-	× WP-SLSPD2-070397 Grab Soil Sample
2738374	SPE1-	× WP-SLSPE1-070397 Grab Soil Sample
2738375	SPE2-	× WP-SLSPE2-070397 Grab Soil Sample
2738376	LSPD-	× WP-SLSPDP-070397 Grab Soil Sample
2738377	LVDG-	WP-SLVDG1-070397 Grab Soil Sample



LLI Sample No. SW 2738365

Collected: 7/ 2/97 at 15:00 by AL

Submitted: 7/ 7/97 Reported: 7/24/97

Discard: 8/ 4/97

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

WP-SLSPA1-070297 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 SPA1- SDG#: WRD01-08

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I				
1421	CLP Form I - VOA's			See Page 2		
1649	Cadmium	N.D.	0.13	mg/kg	N.D.	0.14
1651	Chromium	42.5	0.47	mg/kg	47.0	0.52
1655	Lead	12.	2.4	mg/kg	13.	2.7
1661	Nickel	47.7	0.46	mg/kg	52.8	0.51
1672	Zinc	90.	0.40	mg/kg	99.	0.44
5895	Total Cyanide (solid)	N.D.	0.098	mg/kg	N.D.	0.11
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.						
0111	Moisture	9.65	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	3.9	0.40	mg/kg	4.3	0.44

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:27:16 D 0002 20 572236  
 609 90.00 00051700 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





LLI Sample No. SW 2738366

Collected: 7/ 2/97 at 16:55 by AL

Submitted: 7/ 7/97 Reported: 7/24/97

Discard: 8/ 4/97

WP-SLSPA2-070297 Grab Soil Sample

Project #17092.003

Ward Products - NY

SPA2- SDG#: WRD01-09

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Re1.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD
1177	PPL + Xylene (total) by 8240	see form I				
1421	CLP Form I - VOA's			See Page 2		
1649	Cadmium	4.4	0.13	mg/kg	5.0	0.14
1651	Chromium	124.	0.46	mg/kg	139.	0.51
1655	Lead	44.4	2.3	mg/kg	50.	2.6
1661	Nickel	97.6	0.45	mg/kg	110.	0.50
1672	Zinc	193.	0.39	mg/kg	217.	0.44
5895	Total Cyanide (solid)	N.D.	0.097	mg/kg	N.D.	0.11
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.						
0111	Moisture	11.2	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	9.9	0.40	mg/kg	11.2	0.45

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:27:47 D 0002 20 572236  
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 2425 New Holland Pike  
 PO Box 12425  
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Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SPA2-

Lab Name: LANCASTER LABS	Contract: _____
Lab Code: LANCAS Case No.: _____	SAS No.: _____
Matrix: (soil/water) SOIL	SDG No.: _____
Sample wt/vol: 5.0 (g/mL) G	Lab Sample ID: 2738366
Level: (low/med) LOW	Lab File ID: >ELD11
% Moisture: not dec. 11	Date Received: 07/07/97
Column: (pack/cap) CAP	Date Analyzed: 07/13/97
	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	!U
75-01-4	Vinyl Chloride	6	!U
74-83-9	Bromomethane	6	!U
75-00-3	Chloroethane	6	!U
75-69-4	Trichlorofluoromethane	6	!U
107-02-8	Acrolein	110	!U
75-35-4	1,1-Dichloroethene	6	!U
75-09-2	Methylene Chloride	3	!J
107-13-1	Acrylonitrile	56	!U
156-60-5	trans-1,2-Dichloroethene	6	!U
75-34-3	1,1-Dichloroethane	6	!U
156-59-2	cis-1,2-Dichloroethene	6	!U
67-66-3	Chloroform	6	!U
107-06-2	1,2-Dichloroethane	6	!U
71-55-6	1,1,1-Trichloroethane	6	!U
56-23-5	Carbon Tetrachloride	6	!U
71-43-2	Benzene	6	!U
79-01-6	Trichloroethene	1	!J
78-87-5	1,2-Dichloropropane	6	!U
75-27-4	Bromodichloromethane	6	!U
110-75-8	2-Chloroethyl Vinyl Ether	11	!U
10061-01-5	cis-1,3-Dichloropropene	6	!U
10061-02-6	trans-1,3-Dichloropropene	6	!U
79-00-5	1,1,2-Trichloroethane	6	!U
124-48-1	Dibromochloromethane	6	!U
75-25-2	Bromoform	6	!U
108-88-3	Toluene	6	!U
127-18-4	Tetrachloroethene	6	!U
108-90-7	Chlorobenzene	6	!U
100-41-4	Ethylbenzene	6	!U
1330-20-7	Xylene (total)	6	!U
79-34-5	1,1,2,2-Tetrachloroethane	6	!U

FORM I VOA

1787 Rev.

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96

35





**L/LI Sample No. SW 2738367**

Collected: 7/ 2/97 at 18:13 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
Discard: 8/ 4/97

WP-SLSPB1-070297 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
SPB1- SDG#: WRD01-10

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I				
1421	CLP Form I - VOA's			See Page 2		
1649	Cadmium	7.1	0.13	mg/kg	7.9	0.14
1651	Chromium	146.	0.47	mg/kg	162.	0.52
1655	Lead	15.	2.4	mg/kg	16.	2.7
1661	Nickel	244.	0.46	mg/kg	270.	0.51
1672	Zinc	115.	0.40	mg/kg	128.	0.44
5895	Total Cyanide (solid)	25.6	0.48	mg/kg	28.4	0.53
<p>The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.</p>						
0111	Moisture	9.93	0.080	% by wt.		
<p>"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.</p>						
0425	Hexavalent Chromium (SOLIDS)	13.2	0.40	mg/kg	14.7	0.44

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:28:26 D 0002 20 572236  
609 90.00 00051700 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
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Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SPB1-

Lab Name: LANCASTER LABS	Contract: _____
Lab Code: LANCAS Case No.: _____	SAS No.: _____
Matrix: (soil/water) SOIL	SDG No.: _____
Sample wt/vol: 5.0 (g/mL) G	Lab Sample ID: 2738367
Level: (low/med) LOW	Lab File ID: >ELD12
% Moisture: not dec. 10	Date Received: 07/07/97
Column: (pack/cap) CAP	Date Analyzed: 07/14/97
	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6 !U	!
75-01-4	Vinyl Chloride	6 !U	!
74-83-9	Bromomethane	6 !U	!
75-00-3	Chloroethane	6 !U	!
75-69-4	Trichlorofluoromethane	6 !U	!
107-02-8	Acrolein	110 !U	!
75-35-4	1,1-Dichloroethene	6 !U	!
75-09-2	Methylene Chloride	4 ! J	!
107-13-1	Acrylonitrile	56 !U	!
156-60-5	trans-1,2-Dichloroethene	6 !U	!
75-34-3	1,1-Dichloroethane	6 !U	!
156-59-2	cis-1,2-Dichloroethene	6 !U	!
67-66-3	Chloroform	6 !U	!
107-06-2	1,2-Dichloroethane	6 !U	!
71-55-6	1,1,1-Trichloroethane	6 !U	!
56-23-5	Carbon Tetrachloride	6 !U	!
71-43-2	Benzene	6 !U	!
79-01-6	Trichloroethene	3 ! J	!
78-87-5	1,2-Dichloropropane	6 !U	!
75-27-4	Bromodichloromethane	6 !U	!
110-75-8	2-Chloroethyl Vinyl Ether	11 !U	!
10061-01-5	cis-1,3-Dichloropropene	6 !U	!
10061-02-6	trans-1,3-Dichloropropene	6 !U	!
79-00-5	1,1,2-Trichloroethane	6 !U	!
124-48-1	Dibromochloromethane	6 !U	!
75-25-2	Bromoform	6 !U	!
108-88-3	Toluene	6 !U	!
127-18-4	Tetrachloroethene	6 !U	!
108-90-7	Chlorobenzene	6 !U	!
100-41-4	Ethylbenzene	6 !U	!
1330-20-7	Xylene (total)	6 !U	!
79-34-5	1,1,2,2-Tetrachloroethane	6 !U	!

FORM I VOA 1/87 Rev.

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles





L/LI Sample No. SW 2738368  
 Collected: 7/ 2/97 at 19:00 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
 Discard: 8/ 4/97

WP-SLSPB2-070297 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 SPB2- SDG#: WRD01-11

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	DETECTION	METHOD LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I				
1421	CLP Form I - VOA's			See Page 2		
1649	Cadmium	14.7	0.13	mg/kg	16.4	0.15
1651	Chromium	244.	0.47	mg/kg	273.	0.53
1655	Lead	30.	2.4	mg/kg	33.	2.7
1661	Nickel	276.	0.46	mg/kg	309.	0.51
1672	Zinc	527.	0.40	mg/kg	588.	0.45
5895	Total Cyanide (solid)	0.21	0.10	mg/kg	0.24	0.11
The matrix spike duplicate analyzed with this batch of samples was out of specifications due to low recovery (41.9%). Post-digestion spiking of the background sample yielded a recovery of 14.5%. This may suggest the presence of a matrix interference during the distillation process.						
0111	Moisture	10.5	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	10.5	0.40	mg/kg	11.8	0.45

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:29:09 D 0002 20 572236  
 609 90.00 00051700 ASR000



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 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SPB2-

Lab Name: LANCASTER LABS      Contract: \_\_\_\_\_  
 Lab Code: LANCAS      Case No.: \_\_\_\_\_      SAS No.: \_\_\_\_\_      SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL      Lab Sample ID: 2738368  
 Sample wt/vol: 5.0 (g/mL) G      Lab File ID: >ELD13  
 Level: (low/med) LOW      Date Received: 07/07/97  
 % Moisture: not dec. 10      Date Analyzed: 07/14/97  
 Column: (pack/cap) CAP      Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG      Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	!U
75-01-4	Vinyl Chloride	6	!U
74-83-9	Bromomethane	6	!U
75-00-3	Chloroethane	6	!U
75-69-4	Trichlorofluoromethane	6	!U
107-02-8	Acrolein	110	!U
75-35-4	1,1-Dichloroethene	6	!U
75-09-2	Methylene Chloride	6	!U
107-13-1	Acrylonitrile	56	!U
156-60-5	trans-1,2-Dichloroethene	6	!U
75-34-3	1,1-Dichloroethane	6	!U
156-59-2	cis-1,2-Dichloroethene	6	!U
67-66-3	Chloroform	6	!U
107-06-2	1,2-Dichloroethane	6	!U
71-55-6	1,1,1-Trichloroethane	6	!U
56-23-5	Carbon Tetrachloride	6	!U
71-43-2	Benzene	6	!U
79-01-6	Trichloroethene	1	! J
78-87-5	1,2-Dichloropropane	6	!U
75-27-4	Bromodichloromethane	6	!U
110-75-8	2-Chloroethyl Vinyl Ether	11	!U
10061-01-5	cis-1,3-Dichloropropene	6	!U
10061-02-6	trans-1,3-Dichloropropene	6	!U
79-00-5	1,1,2-Trichloroethane	6	!U
124-48-1	Dibromochloromethane	6	!U
75-25-2	Bromoform	6	!U
108-88-3	Toluene	6	!U
127-18-4	Tetrachloroethene	6	!U
108-90-7	Chlorobenzene	6	!U
100-41-4	Ethylbenzene	6	!U
1330-20-7	Xylene (total)	6	!U
79-34-5	1,1,2,2-Tetrachloroethane	6	!U

FORM I VOA

1/87 Rev.

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





**LLI Sample No. SW 2738369**

Collected: 7/ 2/97 at 19:00 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
Discard: 8/ 4/97

WP-SLSPB3-070297 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
SPB3- SDG#: WRD01-12

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT		
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD	DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I					
1421	CLP Form I - VOA's			See Page 2			
1649	Cadmium	1.05	J	0.13 mg/kg	1.18	J	0.15
1651	Chromium	32.9		0.47 mg/kg	37.0		0.53
1655	Lead	8.7	J	2.4 mg/kg	9.8	J	2.7
1661	Nickel	15.3		0.46 mg/kg	17.2		0.52
1672	Zinc	46.		0.40 mg/kg	52.		0.45
5895	Total Cyanide (solid)	N.D.		0.097 mg/kg	N.D.		0.11
0111	Moisture	11.1		0.080 % by wt.			
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.							
0425	Hexavalent Chromium (SOLIDS)	5.6		0.40 mg/kg	6.3		0.45

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:29:52 D 0002 20 572236  
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Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SPB3-

Lab Name: LANCASTER LABS	Contract: _____
Lab Code: LANCAS Case No.: _____	SAS No.: _____
Matrix: (soil/water) SOIL	SDG No.: _____
Sample wt/vol: 5.0 (g/mL) G	Lab Sample ID: 2738369
Level: (low/med) LOW	Lab File ID: >ELD14
% Moisture: not dec. 11	Date Received: 07/07/97
Column: (pack/cap) CAP	Date Analyzed: 07/14/97
	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	!U
75-01-4	Vinyl Chloride	6	!U
74-83-9	Bromomethane	6	!U
75-00-3	Chloroethane	6	!U
75-69-4	Trichlorofluoromethane	6	!U
107-02-8	Acrolein	110	!U
75-35-4	1,1-Dichloroethene	6	!U
75-09-2	Methylene Chloride	5	!J
107-13-1	Acrylonitrile	56	!U
156-60-5	trans-1,2-Dichloroethene	6	!U
75-34-3	1,1-Dichloroethane	6	!U
156-59-2	cis-1,2-Dichloroethene	6	!U
67-66-3	Chloroform	6	!U
107-06-2	1,2-Dichloroethane	6	!U
71-55-6	1,1,1-Trichloroethane	6	!U
56-23-5	Carbon Tetrachloride	6	!U
71-43-2	Benzene	6	!U
79-01-6	Trichloroethene	6	!U
78-87-5	1,2-Dichloropropane	6	!U
75-27-4	Bromodichloromethane	6	!U
110-75-8	2-Chloroethyl Vinyl Ether	11	!U
10061-01-5	cis-1,3-Dichloropropene	6	!U
10061-02-6	trans-1,3-Dichloropropene	6	!U
79-00-5	1,1,2-Trichloroethane	6	!U
124-48-1	Dibromochloromethane	6	!U
75-25-2	Bromoform	6	!U
108-88-3	Toluene	6	!U
127-18-4	Tetrachloroethene	6	!U
108-90-7	Chlorobenzene	6	!U
100-41-4	Ethylbenzene	6	!U
1330-20-7	Xylene (total)	6	!U
79-34-5	1,1,2,2-Tetrachloroethane	6	!U

FORM I VOA

1/87 Rev.

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. SW 2738370

Collected: 7/ 3/97 at 08:42 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
Discard: 8/ 4/97

WP-SLSPC1-070397 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
SPC1- SDG#: WRD01-13

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT		
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD	DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I					
1421	CLP Form I - VOA's			See Page 2			
1649	Cadmium	28.7	0.13	mg/kg	31.9	0.14	
1651	Chromium	138.	0.47	mg/kg	153.	0.52	
1655	Lead	11.	2.4	mg/kg	13.	2.7	
1661	Nickel	16.3	0.46	mg/kg	18.1	0.51	
1672	Zinc	25.	0.40	mg/kg	28.	0.44	
5895	Total Cyanide (solid)	12.4	0.39	mg/kg	13.8	0.44	
0111	Moisture	9.99	0.080	% by wt.			
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	7.9	0.40	mg/kg	8.8	0.44	

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:30:28 D 0002 20 572236  
609 90.00 00051700 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SPC1-

Lab Name: LANCASTER LABS      Contract: \_\_\_\_\_  
 Lab Code: LANCAS      Case No.: \_\_\_\_\_      SAS No.: \_\_\_\_\_      SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL      Lab Sample ID: 2738370  
 Sample wt/vol: 5.0 (g/mL) G      Lab File ID: >ELD15  
 Level: (low/med) LOW      Date Received: 07/07/97  
 % Moisture: not dec. 10      Date Analyzed: 07/14/97  
 Column: (pack/cap) CAP      Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
74-87-3	Chloromethane	6	!U
75-01-4	Vinyl Chloride	6	!U
74-83-9	Bromomethane	6	!U
75-00-3	Chloroethane	6	!U
75-69-4	Trichlorofluoromethane	6	!U
107-02-8	Acrolein	110	!U
75-35-4	1,1-Dichloroethene	6	!U
75-09-2	Methylene Chloride	5	!J
107-13-1	Acrylonitrile	56	!U
156-60-5	trans-1,2-Dichloroethene	6	!U
75-34-3	1,1-Dichloroethane	6	!U
156-59-2	cis-1,2-Dichloroethene	6	!U
67-66-3	Chloroform	6	!U
107-06-2	1,2-Dichloroethane	6	!U
71-55-6	1,1,1-Trichloroethane	6	!U
56-23-5	Carbon Tetrachloride	6	!U
71-43-2	Benzene	6	!U
79-01-6	Trichloroethene	2	!J
78-87-5	1,2-Dichloropropane	6	!U
75-27-4	Bromodichloromethane	6	!U
110-75-8	2-Chloroethyl Vinyl Ether	11	!U
10061-01-5	cis-1,3-Dichloropropene	6	!U
10061-02-6	trans-1,3-Dichloropropene	6	!U
79-00-5	1,1,2-Trichloroethane	6	!U
124-48-1	Dibromochloromethane	6	!U
75-25-2	Bromoform	6	!U
108-88-3	Toluene	6	!U
127-18-4	Tetrachloroethene	6	!U
108-90-7	Chlorobenzene	6	!U
100-41-4	Ethylbenzene	6	!U
1330-20-7	Xylene (total)	6	!U
79-34-5	1,1,2,2-Tetrachloroethane	6	!U

FORM I VOA

1787 Rev.

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. SW 2738371

Collected: 7/ 3/97 at 09:25 by AL

Submitted: 7/ 7/97 Reported: 7/24/97

Discard: 8/ 4/97

WP-SLSPC2-070397 Grab Soil Sample

Project #17092.003

Ward Products - NY

SPC2- SDG#: WRD01-14

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I				
1421	CLP Form I - VOA's			See Page 2		
1649	Cadmium	50.4		0.13 mg/kg	56.9	0.15
1651	Chromium	21.5		0.47 mg/kg	24.3	0.53
1655	Lead	9.6	J	2.4 mg/kg	10.9	J 2.7
1661	Nickel	16.3		0.46 mg/kg	18.4	0.52
1672	Zinc	56.		0.40 mg/kg	63.	0.45
5895	Total Cyanide (solid)	8.50		0.40 mg/kg	9.61	0.45
0111	Moisture	11.5		0.080 % by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	1.5		0.40 mg/kg	1.7	0.45

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

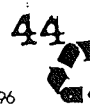
ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:31:08 D 0002 20 572236  
 609 90.00 00051700 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SPC2-

Lab Name: LANCASTER LABS	Contract: _____
Lab Code: LANCAS Case No.: _____	SAS No.: _____
Matrix: (soil/water) SOIL	SDG No.: _____
Sample wt/vol: 5.0 (g/mL) G	Lab Sample ID: 2738371
Level: (low/med) LOW	Lab File ID: >ELE02
% Moisture: not dec. 12	Date Received: 07/07/97
Column: (pack/cap) CAP	Date Analyzed: 07/14/97
	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
! 74-87-3-! ! ! !	! Chloromethane ! ! ! !	! 6 !U ! !	! ! ! !
! 75-01-4-! ! ! !	! Vinyl Chloride ! ! ! !	! 6 !U ! !	! ! ! !
! 74-83-9-! ! ! !	! Bromomethane ! ! ! !	! 6 !U ! !	! ! ! !
! 75-00-3-! ! ! !	! Chloroethane ! ! ! !	! 6 !U ! !	! ! ! !
! 75-69-4-! ! ! !	! Trichlorofluoromethane ! ! ! !	! 6 !U ! !	! ! ! !
! 107-02-8-! ! ! !	! Acrolein ! ! ! !	! 110 !U ! !	! ! ! !
! 75-35-4-! ! ! !	! 1,1-Dichloroethene ! ! ! !	! 6 !U ! !	! ! ! !
! 75-09-2-! ! ! !	! Methylene Chloride ! ! ! !	! 6 ! ! ! !	! ! B ! !
! 107-13-1-! ! ! !	! Acrylonitrile ! ! ! !	! 57 !U ! !	! ! ! !
! 156-60-5-! ! ! !	! trans-1,2-Dichloroethene ! ! ! !	! 6 !U ! !	! ! ! !
! 75-34-3-! ! ! !	! 1,1-Dichloroethane ! ! ! !	! 6 !U ! !	! ! ! !
! 156-59-2-! ! ! !	! cis-1,2-Dichloroethene ! ! ! !	! 6 !U ! !	! ! ! !
! 67-66-3-! ! ! !	! Chloroform ! ! ! !	! 6 !U ! !	! ! ! !
! 107-06-2-! ! ! !	! 1,2-Dichloroethane ! ! ! !	! 6 !U ! !	! ! ! !
! 71-55-6-! ! ! !	! 1,1,1-Trichloroethane ! ! ! !	! 6 !U ! !	! ! ! !
! 56-23-5-! ! ! !	! Carbon Tetrachloride ! ! ! !	! 6 !U ! !	! ! ! !
! 71-43-2-! ! ! !	! Benzene ! ! ! !	! 6 !U ! !	! ! ! !
! 79-01-6-! ! ! !	! Trichloroethene ! ! ! !	! 6 !U ! !	! ! ! !
! 78-87-5-! ! ! !	! 1,2-Dichloropropane ! ! ! !	! 6 !U ! !	! ! ! !
! 75-27-4-! ! ! !	! Bromodichloromethane ! ! ! !	! 6 !U ! !	! ! ! !
! 110-75-8-! ! ! !	! 2-Chloroethyl Vinyl Ether ! ! ! !	! 11 !U ! !	! ! ! !
! 10061-01-5-! ! ! !	! cis-1,3-Dichloropropene ! ! ! !	! 6 !U ! !	! ! ! !
! 10061-02-6-! ! ! !	! trans-1,3-Dichloropropene ! ! ! !	! 6 !U ! !	! ! ! !
! 79-00-5-! ! ! !	! 1,1,2-Trichloroethane ! ! ! !	! 6 !U ! !	! ! ! !
! 124-48-1-! ! ! !	! Dibromochloromethane ! ! ! !	! 6 !U ! !	! ! ! !
! 75-25-2-! ! ! !	! Bromoform ! ! ! !	! 6 !U ! !	! ! ! !
! 108-88-3-! ! ! !	! Toluene ! ! ! !	! 6 !U ! !	! ! ! !
! 127-18-4-! ! ! !	! Tetrachloroethene ! ! ! !	! 6 !U ! !	! ! ! !
! 108-90-7-! ! ! !	! Chlorobenzene ! ! ! !	! 6 !U ! !	! ! ! !
! 100-41-4-! ! ! !	! Ethylbenzene ! ! ! !	! 6 !U ! !	! ! ! !
! 1330-20-7-! ! ! !	! Xylene (total) ! ! ! !	! 6 !U ! !	! ! ! !
! 79-34-5-! ! ! !	! 1,1,2,2-Tetrachloroethane ! ! ! !	! 6 !U ! !	! ! ! !

FORM I VOA

1/87 Rev.

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. SW 2738372

Collected: 7/ 3/97 at 10:20 by AL

Submitted: 7/ 7/97 Reported: 7/24/97

Discard: 8/ 4/97

WP-SLSPD1-070397 Grab Soil Sample

Project #17092.003

Ward Products - NY

SPD1- SDG#: WRD01-15

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I				
1421	CLP Form I - VOA's			See Page 2		
1649	Cadmium	23.3	0.13	mg/kg	26.6	0.15
1651	Chromium	62.1	0.47	mg/kg	70.7	0.53
1655	Lead	9.7	2.4	mg/kg	11.1	2.7
1661	Nickel	64.6	0.46	mg/kg	73.4	0.52
1672	Zinc	75.	0.40	mg/kg	86.	0.46
5895	Total Cyanide (solid)	11.6	0.39	mg/kg	13.2	0.45
0111	Moisture	12.1	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	3.1	0.40	mg/kg	3.5	0.46

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:31:44 D 0002 20 572236  
 609 90.00 00051700 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SPD1-

Lab Name: LANCASTER LABS	Contract: _____
Lab Code: LANCAS Case No.: _____	SAS No.: _____
Matrix: (soil/water) SOIL	SDG No.: _____
Sample wt/vol: 5.0 (g/mL) G	Lab Sample ID: 2738372
Level: (low/med) LOW	Lab File ID: >ELE03
% Moisture: not dec. 12	Date Received: 07/07/97
Column: (pack/cap) CAP	Date Analyzed: 07/14/97
	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	!U
75-01-4	Vinyl Chloride	6	!U
74-83-9	Bromomethane	6	!U
75-00-3	Chloroethane	6	!U
75-69-4	Trichlorofluoromethane	6	!U
107-02-8	Acrolein	110	!U
75-35-4	1,1-Dichloroethene	6	!U
75-09-2	Methylene Chloride	4	! J B!
107-13-1	Acrylonitrile	57	!U
156-60-5	trans-1,2-Dichloroethene	6	!U
75-34-3	1,1-Dichloroethane	6	!U
156-59-2	cis-1,2-Dichloroethene	6	!U
67-66-3	Chloroform	6	!U
107-06-2	1,2-Dichloroethane	6	!U
71-55-6	1,1,1-Trichloroethane	6	!U
56-23-5	Carbon Tetrachloride	6	!U
71-43-2	Benzene	6	!U
79-01-6	Trichloroethene	5	! J
78-87-5	1,2-Dichloropropane	6	!U
75-27-4	Bromodichloromethane	6	!U
110-75-8	2-Chloroethyl Vinyl Ether	11	!U
10061-01-5	cis-1,3-Dichloropropene	6	!U
10061-02-6	trans-1,3-Dichloropropene	6	!U
79-00-5	1,1,2-Trichloroethane	6	!U
124-48-1	Dibromochloromethane	6	!U
75-25-2	Bromoform	6	!U
108-88-3	Toluene	3	! J
127-18-4	Tetrachloroethene	6	!U
108-90-7	Chlorobenzene	6	!U
100-41-4	Ethylbenzene	6	!U
1330-20-7	Xylene (total)	6	!U
79-34-5	1,1,2,2-Tetrachloroethane	6	!U

FORM I VOA

1/87 Rev.

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





**LLI Sample No. SW 2738373**

Collected: 7/ 3/97 at 11:10 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
Discard: 8/ 4/97

WP-SLSPD2-070397 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
SPD2- SDG#: WRD01-16

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT		
		RESULTS	DETECTION	METHOD LIMIT UNITS	RESULTS	DETECTION	METHOD LIMIT
1177	PPL + Xylene (total) by 8240	see form I					
1421	CLP Form I - VOA's			See Page 2			
1649	Cadmium	63.4	0.13	mg/kg	72.4	0.15	
1651	Chromium	51.9	0.47	mg/kg	59.2	0.53	
1655	Lead	10.2	2.4	mg/kg	12.	2.7	
1661	Nickel	18.1	0.46	mg/kg	20.7	0.52	
1672	Zinc	64.6	0.40	mg/kg	74.	0.45	
5895	Total Cyanide (solid)	9.08	0.39	mg/kg	10.4	0.44	
0111	Moisture	12.4	0.080	% by wt.			
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	2.0	0.40	mg/kg	2.3	0.46	

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:32:14 D 0002 20 572236  
609 90.00 00051700 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





## Lancaster Laboratories

A division of Thermo Analytical Inc.

Page 2 of 3

1A

EPA SAMPLE NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET

SPD2-

Lab Name: LANCASTER LABS	Contract: _____
Lab Code: LANCAS	Case No.: _____
Matrix: (soil/water) SOIL	SAS No.: _____
Sample wt/vol: 5.0 (g/mL) G	SDG No.: _____
Level: (low/med) LOW	Lab Sample ID: 2738373
% Moisture: not dec. 12	Lab File ID: >ELE04
Column: (pack/cap) CAP	Date Received: 07/07/97
	Date Analyzed: 07/14/97
	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	!U
75-01-4	Vinyl Chloride	6	!U
74-83-9	Bromomethane	6	!U
75-00-3	Chloroethane	6	!U
75-69-4	Trichlorofluoromethane	6	!U
107-02-8	Acrolein	110	!U
75-35-4	1,1-Dichloroethene	6	!U
75-09-2	Methylene Chloride	3	! J B!
107-13-1	Acrylonitrile	57	!U
156-60-5	trans-1,2-Dichloroethene	6	!U
75-34-3	1,1-Dichloroethane	6	!U
156-59-2	cis-1,2-Dichloroethene	6	!U
67-66-3	Chloroform	6	!U
107-06-2	1,2-Dichloroethane	6	!U
71-55-6	1,1,1-Trichloroethane	6	!U
56-23-5	Carbon Tetrachloride	6	!U
71-43-2	Benzene	6	!U
79-01-6	Trichloroethene	6	!U
78-87-5	1,2-Dichloropropane	6	!U
75-27-4	Bromodichloromethane	6	!U
110-75-8	2-Chloroethyl Vinyl Ether	11	!U
10061-01-5	cis-1,3-Dichloropropene	6	!U
10061-02-6	trans-1,3-Dichloropropene	6	!U
79-00-5	1,1,2-Trichloroethane	6	!U
124-48-1	Dibromochloromethane	6	!U
75-25-2	Bromoform	6	!U
108-88-3	Toluene	6	!U
127-18-4	Tetrachloroethene	6	!U
108-90-7	Chlorobenzene	6	!U
100-41-4	Ethylbenzene	6	!U
1330-20-7	Xylene (total)	6	!U
79-34-5	1,1,2,2-Tetrachloroethane	6	!U

FORM 1 VOA

1/87 Rev.

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev 5/01/96



LLI Sample No. SW 2738374

Collected: 7/ 3/97 at 11:50 by AL

Submitted: 7/ 7/97 Reported: 7/24/97

Discard: 8/ 4/97

WP-SLSPE1-070397 Grab Soil Sample

Project #17092.003

Ward Products - NY

SPE1- SDG#: WRD01-17

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	DETECTION	METHOD LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I				
1421	CLP Form I - VOA's			See Page 2		
1649	Cadmium	230.	0.13	mg/kg	263.	0.15
1651	Chromium	47.3	0.47	mg/kg	54.1	0.53
1655	Lead	9.5	2.4	mg/kg	10.9	2.7
1661	Nickel	39.8	0.46	mg/kg	45.5	0.52
1672	Zinc	169.	0.40	mg/kg	193.	0.45
5895	Total Cyanide (solid)	N.D.	0.095	mg/kg	N.D.	0.11
0111	Moisture	12.6	0.080	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	3.1	0.40	mg/kg	3.6	0.46

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

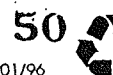
ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:32:49 D 0002 20 572236  
 609 90.00 00051700 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





Page 2 of 3

1A

## VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SPE1-

Lab Name: LANCASTER LABS	Contract: _____	
Lab Code: LANCAS	Case No.: _____	SAS No.: _____
Matrix: (soil/water) SOIL	SDG No.: _____	Lab Sample ID: 2738374
Sample wt/vol: 5.0 (g/mL) G		Lab File ID: >ELE05
Level: (low/med) LOW		Date Received: 07/07/97
% Moisture: not dec. 12		Date Analyzed: 07/14/97
Column: (pack/cap) CAP		Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	!U
75-01-4	Vinyl Chloride	6	!U
74-83-9	Bromomethane	6	!U
75-00-3	Chloroethane	6	!U
75-69-4	Trichlorofluoromethane	6	!U
107-02-8	Acrolein	110	!U
75-35-4	1,1-Dichloroethene	6	!U
75-09-2	Methylene Chloride	4	! J B!
107-13-1	Acrylonitrile	57	!U
156-60-5	trans-1,2-Dichloroethene	6	!U
75-34-3	1,1-Dichloroethane	6	!U
156-59-2	cis-1,2-Dichloroethene	6	!U
67-66-3	Chloroform	6	!U
107-06-2	1,2-Dichloroethane	6	!U
71-55-6	1,1,1-Trichloroethane	6	!U
56-23-5	Carbon Tetrachloride	6	!U
71-43-2	Benzene	6	!U
79-01-6	Trichloroethene	6	!
78-87-5	1,2-Dichloropropane	6	!U
75-27-4	Bromodichloromethane	6	!U
110-75-8	2-Chloroethyl Vinyl Ether	11	!U
10061-01-5	cis-1,3-Dichloropropene	6	!U
10061-02-6	trans-1,3-Dichloropropene	6	!U
79-00-5	1,1,2-Trichloroethane	6	!U
124-48-1	Dibromochloromethane	6	!U
75-25-2	Bromoform	6	!U
108-88-3	Toluene	6	!U
127-18-4	Tetrachloroethene	6	!U
108-90-7	Chlorobenzene	6	!U
100-41-4	Ethylbenzene	6	!U
1330-20-7	Xylene (total)	6	!U
79-34-5	1,1,2,2-Tetrachloroethane	6	!U

FORM I VOA

1/87 Rev.

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations

2216 Rev. 5/01/96







Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SPE2-

Lab Name: LANCASTER LABS Contract: \_\_\_\_\_  
 Lab Code: LANCAS Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 2738375  
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: >ELE06  
 Level: (low/med) LOW Date Received: 07/07/97  
 % Moisture: not dec. 12 Date Analyzed: 07/14/97  
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
! 74-87-3-.....	! Chloromethane	! 6	! U
! 75-01-4-.....	! Vinyl Chloride	! 6	! U
! 74-83-9-.....	! Bromomethane	! 6	! U
! 75-00-3-.....	! Chloroethane	! 6	! U
! 75-69-4-.....	! Trichlorofluoromethane	! 6	! U
! 107-02-8-.....	! Acrolein	! 110	! U
! 75-35-4-.....	! 1,1-Dichloroethene	! 6	! U
! 75-09-2-.....	! Methylene Chloride	! 4	! J B!
! 107-13-1-.....	! Acrylonitrile	! 57	! U
! 156-60-5-.....	! trans-1,2-Dichloroethene	! 6	! U
! 75-34-3-.....	! 1,1-Dichloroethane	! 6	! U
! 156-59-2-.....	! cis-1,2-Dichloroethene	! 6	! U
! 67-66-3-.....	! Chloroform	! 6	! U
! 107-06-2-.....	! 1,2-Dichloroethane	! 6	! U
! 71-55-6-.....	! 1,1,1-Trichloroethane	! 6	! U
! 56-23-5-.....	! Carbon Tetrachloride	! 6	! U
! 71-43-2-.....	! Benzene	! 6	! U
! 79-01-6-.....	! Trichloroethene	! 13	! !
! 78-87-5-.....	! 1,2-Dichloropropane	! 6	! U
! 75-27-4-.....	! Bromodichloromethane	! 6	! U
! 110-75-8-.....	! 2-Chloroethyl Vinyl Ether	! 11	! U
! 10061-01-5-.....	! cis-1,3-Dichloropropene	! 6	! U
! 10061-02-6-.....	! trans-1,3-Dichloropropene	! 6	! U
! 79-00-5-.....	! 1,1,2-Trichloroethane	! 6	! U
! 124-48-1-.....	! Dibromochloromethane	! 6	! U
! 75-25-2-.....	! Bromoform	! 6	! U
! 108-88-3-.....	! Toluene	! 6	! U
! 127-18-4-.....	! Tetrachloroethene	! 6	! U
! 108-90-7-.....	! Chlorobenzene	! 6	! U
! 100-41-4-.....	! Ethylbenzene	! 6	! U
! 1330-20-7-.....	! Xylene (total)	! 6	! U
! 79-34-5-.....	! 1,1,2,2-Tetrachloroethane	! 6	! U

FORM I VOA

1/87 Rev.

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LSPD-

Lab Name: LANCASTER LABS Contract: \_\_\_\_\_  
 Lab Code: LANCAS Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 2738376  
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: >ELE07  
 Level: (low/med) LOW Date Received: 07/07/97  
 % Moisture: not dec. 12 Date Analyzed: 07/14/97  
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6	!U
75-01-4	Vinyl Chloride	6	!U
74-83-9	Bromomethane	6	!U
75-00-3	Chloroethane	6	!U
75-69-4	Trichlorofluoromethane	6	!U
107-02-8	Acrolein	110	!U
75-35-4	1,1-Dichloroethene	6	!U
75-09-2	Methylene Chloride	4	!J B!
107-13-1	Acrylonitrile	57	!U
156-60-5	trans-1,2-Dichloroethene	6	!U
75-34-3	1,1-Dichloroethane	6	!U
156-59-2	cis-1,2-Dichloroethene	6	!U
67-66-3	Chloroform	6	!U
107-06-2	1,2-Dichloroethane	6	!U
71-55-6	1,1,1-Trichloroethane	6	!U
56-23-5	Carbon Tetrachloride	6	!U
71-43-2	Benzene	6	!U
79-01-6	Trichloroethene	8	!
78-87-5	1,2-Dichloropropane	6	!U
75-27-4	Bromodichloromethane	6	!U
110-75-8	2-Chloroethyl Vinyl Ether	11	!U
10061-01-5	cis-1,3-Dichloropropene	6	!U
10061-02-6	trans-1,3-Dichloropropene	6	!U
79-00-5	1,1,2-Trichloroethane	6	!U
124-48-1	Dibromochloromethane	6	!U
75-25-2	Bromoform	6	!U
108-88-3	Toluene	6	!U
127-18-4	Tetrachloroethene	6	!U
108-90-7	Chlorobenzene	6	!U
100-41-4	Ethylbenzene	6	!U
1330-20-7	Xylene (total)	6	!U
79-34-5	1,1,2,2-Tetrachloroethane	6	!U

FORM 1 VOA

1/87 Rev.

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





2738358-77  
 2738293-99  
 2738404-23  
 2738434-43  
 2738448-64

For Lancaster Laboratories use only

Acct. # 8863 Sample # \_\_\_\_\_

Please print. Instructions on reverse side correspond with circled numbers.

Client: NORMANDEAN ASSOC. Acct. #: \_\_\_\_\_  
 Project Name/ID: WARD / 17692.003 PWSID #: \_\_\_\_\_  
 Project Manager: ALLANSON P.O.# \_\_\_\_\_  
 Sampler: ALLANSON / STEVE LEE Quote #: \_\_\_\_\_  
 Name of state where samples were collected: NEW YORK

Matrix **4**  
 Soil  
 Water  
 Other  
 Total of Containers

Analyses Requested **5**  
 CADMIUM  
 CHROMIUM (TOT+HEX)  
 CYANIDE  
 MOISTURE  
 LEAD  
 NICKEL  
 ZINC  
 VOC'S

For lab use only  
 FSC: \_\_\_\_\_  
 SCR #: 1099652

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total of Containers	CADMIUM	CHROMIUM (TOT+HEX)	CYANIDE	MOISTURE	LEAD	NICKEL	ZINC	VOC'S	Remarks
WP-SLEX1-070297	7/2/97	1025	X		X			1	X	X	X	X	X	X	X	X	TOTAL + TCLPM CHAL
WP-SLEX2-070297		1052															
WP-SLEX DP-070297		1050															
WP-SLEX3-070297		1127															
WP-SLEX4-070297		1154															
WP-SLEX5-070297		1235															
WP-SLEX6-070297		1245						4									
WP-SLSPA1-070297		1500														X	TOTAL + TCLP Metals AND
WP-SLSPA2-070297		1655														X	TOTAL + TCLP VOC'S
WP-SLSPB1-070297		1813														X	

Turnaround Time Requested (TAT) (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone Fax  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	7/2/97	1630	<i>[Signature]</i>	8/14/97	0805
<i>[Signature]</i>	7/5/97	1135	<i>[Signature]</i>	7/5/97	1138
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Data Package Options (please circle if requested)  
 QC Summary Type VI (Raw Data)   
 Type I (Tier I)  GLP  
 Type II (Tier II)  Other  
 Type III (NJ Red. Del.)   
 Type IV (CLP)  NY ASP/ATB  
 Site-specific QC required? Yes No  
 (If yes, indicate QC sample and submit triplicate volume.)  
 Internal Chain of Custody required? Yes No



2738358-77  
2738393-99  
2738404-23  
2738434-43  
2738448-64

For Lancaster Laboratories use only

Acct. # 8863 Sample # \_\_\_\_\_

Please print. Instructions on reverse side correspond with circled numbers.

Client: Normandean Associates Acct. #: \_\_\_\_\_  
 Project Name/#: WARD / 17092.003 PWSID #: \_\_\_\_\_  
 Project Manager: Al Larson P.O.# \_\_\_\_\_  
 Sampler: Al Larson / Steve Lee Quote #: \_\_\_\_\_  
 Name of state where samples were collected: New York

Matrix	4		Total # of Containers	5								6	
	Soil	Water		Analyses Requested								FSC:	SCR #:
	<input type="checkbox"/> Potable (check if INPDES applicable)	<input type="checkbox"/> Other		CADMIUM	CHROMIUM (TOTAL + Hex)	CYANIDE	MOLYBDE	LEAD	NICKEL	ZINC	VOCs		

Sample Identification	Date Collected	Time Collected	Soil	Water	Other	Total # of Containers	CADMIUM	CHROMIUM (TOTAL + Hex)	CYANIDE	MOLYBDE	LEAD	NICKEL	ZINC	VOCs	Remarks
WP-SLSPB2-070297	7/2/97	1900	X	X		4	X	X	X	X	X	X	X	X	Total + TCLP for Metals + VOCs
WP-SLSPB3-070297	7/2/97	1900													
WP-SLSPC1-070397	7/3/97	0842													
WP-SLSPC2-070397		0925													
WP-SLSPD1-070397		1020													
WP-SLSPD2-070397		1110													
WP-SLSP E1-070397		1150													
WP-SLSP E2-070397		1225													
WP-SLSPDP-070397															
WP-SLVDG1-070397		1520													

Turnaround Time Requested (TAT) (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone Fax  
 Phone #: C2 Fax #: \_\_\_\_\_

Data Package Options (please circle if requested)  
 QC Summary: Type VI (Raw Data)  Type I (Tier I) N GLP   
 Type II (Tier II) Other Site-specific QC required? Yes No  
 Type III (NJ Red. Del.)  (If yes, indicate QC sample and submit triplicate volume.)  
 Type IV (CLP) NYRSP-CAS B Internal Chain of Custody required? Yes No

Relinquished by: <u>M Hufford</u>	Date: <u>9/26/97</u>	Time: <u>1105</u>	Received by: <u>Col Larson</u>	Date: <u>9/14/97</u>	Time: <u>805</u>
Relinquished by: <u>Col Larson</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>	Received by: <u>Col Larson</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: <u>Harlan Collins</u>	Date: <u>7/17/97</u>	Time: <u>0925</u>



LLI Sample No. TL 2752278  
Collected: 7/ 2/97 at 16:55 by AL

Submitted: 7/30/97 Reported: 8/14/97  
Discard: 8/25/97

WP-SLSPA2-070297 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY/Associated LL# 2738366  
PA2NV SDG#: WAR08-02

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
1751	Chromium	0.0229 J	0.0066	mg/l
1761	Nickel	0.080	0.0078	mg/l
1772	Zinc	0.585	0.0090	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

0276 The limits are published in March 29, 1990 Federal Register, pp. 11845-6.  
Hexavalent Chromium 0.018 0.0030 mg/l

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
08:50:34 D 0002 14 575583  
665 110.00 00017600 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





LLI Sample No. TL 2752280

Collected: 7/ 2/97 at 19:00 by AL

Submitted: 7/30/97 Reported: 8/14/97

Discard: 8/25/97

WP-SLSPB2-070297 Grab Soil Sample

TCLP NON-VOLATILE EXTRACTION

Ward Products - NY/Associated LL# 2738368

PB2NV SDG#: WAR08-04

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
1751	Chromium	0.056	0.0066	mg/l
1761	Nickel	0.139	0.0078	mg/l
1772	Zinc	1.54	0.0090	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0	Cadmium 1.0	Lead 5.0	Selenium 1.0
Barium 100.0	Chromium 5.0	Mercury 0.2	Silver 5.0

0276 The limits are published in March 29, 1990 Federal Register, pp. 11845-6.  
 Hexavalent Chromium 0.049 0.0030 mg/l

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 08:50:57 D 0002 14 575583  
 665 110.00 00017600 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

22



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. TL 2752281

Collected: 7/ 3/97 at 08:42 by AL

Submitted: 7/30/97 Reported: 8/14/97  
Discard: 8/25/97

WP-SLSPC1-070397 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY/Associated LL# 2738370  
PC1NV SDG#: WAR08-05

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	DETECTION LIMIT	UNITS
1749	Cadmium	0.248		0.0031	mg/l
1751	Chromium	0.038		0.0066	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
08:51:03 D 0002 14 575583  
665 110.00 00013800 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. TL 2752282

Collected: 7/ 3/97 at 09:25 by AL

Submitted: 7/30/97 Reported: 8/14/97

Discard: 8/25/97

WP-SLSPC2-070397 Grab Soil Sample

TCLP NON-VOLATILE EXTRACTION

Ward Products - NY/Associated LL# 2738371

PC2NV SDG#: WAR08-06

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD	
		RESULTS	DETECTION LIMIT UNITS
1749	Cadmium	0.611	0.0031 mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

1 COPY TO Normandeu Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 08:51:16 D 0002 14 575583  
 665 110.00 00012400 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.







LLI Sample No. TL 2752283  
Collected: 7/ 3/97 at 10:20 by AL

Submitted: 7/30/97 Reported: 8/14/97  
Discard: 8/25/97

WP-SLSPD1-070397 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY/Associated LL# 2738372  
PDINV SDG#: WAR08-07

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

AS RECEIVED

METHOD

CAT NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
---------	---------------	---------	-----------------	-------

1749	Cadmium	0.491	0.0031	mg/l
------	---------	-------	--------	------

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
08:51:26 D 0002 14 575583  
665 110.00 00012400 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leaphates

25



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. TL 2752284

Collected: 7/ 3/97 at 11:10 by AL

Submitted: 7/30/97 Reported: 8/14/97

Discard: 8/25/97

WP-SLSPD2-070397 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY/Associated LL# 2738373  
PD2NV SDG#: WAR08-08

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	DETECTION LIMIT	UNITS
---------	---------------	---------	--------	-----------------	-------

1749	Cadmium	0.734		0.0031	mg/l
------	---------	-------	--	--------	------

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
08:51:40 D 0002 14 575583  
665 110.00 00012400 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. TL 2752285

Collected: 7/ 3/97 at 11:50 by AL

Submitted: 7/30/97 Reported: 8/14/97  
Discard: 8/25/97

WP-SLSPE1-070397 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY/Associated LL# 2738374  
PEINV SDG#: WAR08-09

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
1749	Cadmium	1.82		0.0031 mg/l
1772	Zinc	0.840		0.0090 mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
08:51:52 D 0002 14 575583  
665 110.00 00013800 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

27





LLI Sample No. TL 2752286  
Collected: 7/ 3/97 at 12:25 by AL

Submitted: 7/30/97 Reported: 8/14/97  
Discard: 8/25/97

WP-SLSPE2-070397 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY/Associated LL# 2738375  
PE2NV SDG#: WAR08-10

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
1749	Cadmium	1.42	0.0031	mg/l
1772	Zinc	0.843	0.0090	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

1 COPY TO Normandeau Associates                      ATTN: Mr. Al Larson  
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative  
Lisa M. Hetrick                      at (717) 656-2300  
08:52:07 D 0002 14                      575583  
665 110.00 00013800 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. SW **2753118**  
 Collected: 7/ 3/97 by DL

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Re1.

Submitted: 7/ 7/97 Reported: 8/ 7/97  
 Discard: 8/22/97

WP-SLSPDP-070397 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 -LSPD SDG#: WAR08-15

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT		
		RESULTS	METHOD DETECTION	LIMIT UNITS	RESULTS	METHOD DETECTION	LIMIT
1651	Chromium	116.		0.48 mg/kg	131.		0.54
1655	Lead	8.5	J	2.5 mg/kg	9.7	J	2.9
1661	Nickel	52.7		0.82 mg/kg	59.7		0.92
1672	Zinc	229.		1.2 mg/kg	259.		1.3
7801	Moisture (Re-Entry)	11.8		0.060 % by wt.			

1 COPY TO Normandeau Associates                      ATTN: Mr. Al Larson  
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:27:36 D 0002 1 575802  
 652 25.00 00008100 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

34



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



# Analysis Request Form Environmental Services Chain of Custody



2738298-77  
 2738293-99  
 2738404-23  
 2738434-43  
 2738448-64

For Lancaster Laboratories use only  
 Acct. # 8863 Sample # \_\_\_\_\_

Please print. Instructions on reverse side correspond with circled numbers.

Client: <u>NORMANDEAU ASSOC.</u>		Acct. #: _____		Matrix 4 Soil <input type="checkbox"/> Potable <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Totes Total of Containers		5 Analyzes Requested										For lab use only FSC: _____ SCR #: <u>1099652</u>	
Project Name/ID: <u>WARD / 17692.003</u>		PWSID #: _____				6 CADMIUM CHROMIUM (TOT+Hex) CYANIDE MOISTURE LEAD NICKEL ZINC VOCs										Remarks	
Project Manager: <u>ALLISON</u>		P.O.# _____															
Sampler: <u>A. LARSON / STEVE LEE</u>		Quote #: _____															
Name of state where samples were collected: <u>NEW YORK</u>				3 Grab Composite													

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	NPDES	Totes	Total of Containers	CADMIUM	CHROMIUM (TOT+Hex)	CYANIDE	MOISTURE	LEAD	NICKEL	ZINC	VOCs	Remarks	
WP-SLEX1-070297	7/2/97	1025	X		X				1	X	X	X	X	X	X	X	X		TOTAL + TCLPM + ALL
WP-SLEX2-070297		1052																	
WP-SLEX DP - 070297		1050																	
WP-SLEX3-070297		1127																	
WP-SLEX4-070297		1154																	
WP-SLEX5-070297		1235																	
WP-SLEX6-070297		1245																	
WP-SLSPA1-070297		1500							4								X		TOTAL + TCLP METALS AND
WP-SLSPA2-070297		1655															X		TOTAL + TCLP VOCs
WP-SLSPB1-070297		1813															X		

Turnaround Time Requested (TAT) (please circle: Normal) Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone Fax  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Data Package Options (please circle if requested)

QC Summary	Type VI (Raw Data)	SDG Complete?
Type I (Tier I)	GLP	Yes No
Type II (Tier II)	<u>Other</u>	
Type III (NJ Red. Del.)		
Type IV	<u>NJ: CRATB</u>	

Site-specific QC required? Yes No  
 (If yes, indicate QC sample and submit triplicate volume.)  
 Internal Chain of Custody required? Yes No

Relinquished by: <u>[Signature]</u>	Date: <u>6-27-97</u>	Time: <u>1630</u>	Received by: <u>[Signature]</u>	Date: <u>6/14/97</u>	Time: <u>805</u>
Relinquished by: <u>[Signature]</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>	Received by: <u>[Signature]</u>	Date: <u>7/5/97</u>	Time: <u>1138</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>[Signature]</u>	Date: <u>7/1/97</u>	Time: <u>0925</u>



2738358-77  
2738393-99  
2738404-23  
2738434-43  
2738448-64

For Lancaster Laboratories use only  
Acct. # 8863 Sample # 2752277-90

Please print. Instructions on reverse side correspond with circled numbers.

Client: Normandeau Associates Acct. #: \_\_\_\_\_  
Project Name/ID: WARD / 17092.003 PWSID #: \_\_\_\_\_  
Project Manager: Al Larson P.O.# \_\_\_\_\_  
Sampler: Al Larson / Steve Lee Quote #: \_\_\_\_\_  
Name of state where samples were collected: New York

Matrix: <u>4</u>		Analyses Requested: <u>5</u>							For lab use only				
Soil	Water	Other	Total of Containers	Cadmium	Chromium (Total + Hex)	Cyanide	Manganese	Lead	Nickel	Zinc	VOCs	FSC: _____	Temperature of samples upon receipt (if requested)
												SCR #: <u>1098274</u>	
Grab	Composite	Remarks										6	

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total of Containers	Cadmium	Chromium (Total + Hex)	Cyanide	Manganese	Lead	Nickel	Zinc	VOCs	Remarks
WP-SLSPB2-070297	7/2/97	1900	X		X			4	X	X	X	X	X	X	X	X	Total + TCCP for Metals + VOCs
WP-SLSPB3-070297	7/2/97	1900															
WP-SLSPC1-070397	7/3/97	0842															
WP-SLSPC2-070397		0925															
WP-SLSPD1-070397		1020															
WP-SLSPD2-070397		1110															
WP-SLSP E1-070397		1150															
WP-SLSP E2-070397		1225															
WP-SLSPDP-070397																	
WP-SLVDGL-070397		1520															

Turnaround Time Requested (TAT) (please circle): Normal Rush  
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
Date results are needed: \_\_\_\_\_  
Rush results requested by (please circle): Phone Fax  
Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Data Package Options (please circle if requested)

QC Summary	Type VI (Raw Data)	SDG Complete?
Type I (Tier I)	GLP	Yes No
Type II (Tier II)	Other	
Type III (NU Red. Del.)		
Type IV (CLP NY ASP CAS B)		

Site-specific QC required? Yes No  
(If yes, indicate QC sample and submit triplicate volume.)  
Internal Chain of Custody required? Yes No

Relinquished by: <u>M Hufford</u>	Date: <u>6/25/97</u>	Time: <u>1105</u>	Received by: <u>Col James</u>	Date: <u>6/14/97</u>	Time: <u>805</u>
Relinquished by: <u>Col James</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>	Received by: <u>Col James</u>	Date: <u>7/5/97</u>	Time: <u>1735</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>Harlan Collins</u>	Date: <u>7/16/97</u>	Time: <u>0925</u>



2738358-77  
2738393-99  
2738404-23  
2738434-43  
2738448-64

For Lancaster Laboratories use only  
Acct. # 863 Sample # \_\_\_\_\_

Please print. Instructions on reverse side correspond with circled numbers.

Client: <u>NORMANDEAU ASSOC.</u>		Acct. #: _____		Matrix <b>4</b>		<b>Analyses Requested</b>							For lab use only	
Project Name/ID: <u>Wood/17092.003</u>		PWSID ID: _____		Soil		<input type="checkbox"/> Potable (max tr) <input type="checkbox"/> Water <input type="checkbox"/> NPDES applicable <input type="checkbox"/> Other							FSC: _____	
Project Manager: <u>AL LARSON</u>		P.O.# _____		Composite									SCR #: <u>2098974</u>	
Sampler: <u>AL LARSON/Steve Lee</u>		Quote #: _____		Total # of Containers		CHROMIUM CHROMIUM (total + hex) CYANIDE MOISTURE LEAD NICKEL ZINC VOCs							Temperature of sample upon receipt (if applicable) <b>6</b>	
Name of state where samples were collected: <u>New York</u>		Date Collected		Time Collected									Grab	
Sample Identification		Date Collected		Time Collected		Grab		Composite		Remarks				
WP-SLVD F1 - 070397		07/03/97		1555		X		X		Total + TCLP for Metals + VOCs				
WP-SLVD F2 - 070397		07/03/97		1639		X		X						
WP-SLVD BP - 070397		07/03/97		---		X		X						
WP-SLVD F3 - 070397		07/03/97		1710		X		X						
WP-SLSP1 - 070297		07/02/97		0828		X		X		2 PERLA Metals				
WP-SLSP2 - 070297		07/02/97		0834		X		X		3 Total + TCLP				
WP-SLSP3 - 070297		07/02/97		0840		X		X		CYANIDE total + TCLP MOISTURE				

Turnaround Time Requested (TAT) (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone Fax  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Data Package Options (please circle if requested) **SDG Complete?**  
 QC Summary Type VI (Raw Data) Yes No  
 Type I (Tier I), GLP  
 Type II (Tier II) Other  
 Type III (NJ Red. Del.)  
 Type IV (CMAA/ASPC/ARB)  
 Site-specific QC required? Yes No  
 (If yes, indicate QC sample and submit triplicate volume.)  
 Internal Chain of Custody required? Yes No

Relinquished by: <u>M. Hufferd</u>	Date: <u>6/13/97</u>	Time: <u>1105</u>	Received by: <u>Col. Jensen</u>	Date: <u>6/14/97</u>	Time: <u>805</u>
Relinquished by: <u>Col. Jensen</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>	Received by: <u>Col. Jensen</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>Mr. Herman Collins</u>	Date: <u>7/6/97</u>	Time: <u>11:00</u>



**VAPOR DEGREASING AREA**



Sample Reference List for SDG # WRD02  
with a Package Type of NYSDEC

Lab Sample Number -----	Sample Code -----	Client Sample Description -----
2738393	VDF1-	X WP-SLVDF1-070397 Grab Soil Sample
2738394	VDF2-	X WP-SLVDF2-070397 Grab Soil Sample
2738395	VDDP-	X WP-SLVDDP-070397 Grab Soil Sample
2738396	VDF3-	X WP-SLVDF3-070397 Grab Soil Sample
2738397	LSP1-	WP-SLSP1-070297 Grab Soil Sample
2738398	LSP2-	WP-SLSP2-070297 Grab Soil Sample
2738399	LSP3-	WP-SLSP3-070297 Grab Soil Sample



LLI Sample No. SW 2738393

Collected: 7/ 3/97 at 15:55 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
Discard: 8/ 4/97

WP-SLVDF1-070397 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
VDF1- SDG#: WRD02-01

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		DRY WEIGHT	
		RESULTS	METHOD DETECTION LIMIT	RESULTS	METHOD DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I			
1421	CLP Form I - VOA's		See Page 2		
1649	Cadmium	55.2	0.19 mg/kg	62.8	0.21
1651	Chromium	24.1	0.48 mg/kg	27.4	0.55
1655	Lead	6.4	2.5 mg/kg	7.2	2.9
1661	Nickel	17.1	0.82 mg/kg	19.5	0.94
1672	Zinc	65.9	1.2 mg/kg	75.	1.3
5895	Total Cyanide (solid)	5.71	0.100 mg/kg	6.50	0.11
<p>The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 20% and 19%. The acceptance window for this analysis is 75% to 120%. Post digest spiking of the background sample yielded a recovery of 102%. This suggests the presence of a matrix interference during the distillation step of the analysis.</p> <p>The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 108%. The acceptable RPD for this analysis is 20%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.</p>					
0111	Moisture	12.1	0.080 % by wt.		
<p>"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.</p>					
0425	Hexavalent Chromium (SOLIDS)	1.5	0.40 mg/kg	1.7	0.46

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:38:27 D 0002 7 572244  
609 90.00 00051700 ASR000

12



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VDF1-

Lab Name: LANCASTER LABS	Contract: _____
Lab Code: LANCAS Case No.: _____	SAS No.: _____
Matrix: (soil/water) SOIL	SDG No.: _____
Sample wt/vol: 5.0 (g/mL) G	Lab Sample ID: 2738393
Level: (low/med) LOW	Lab File ID: >ELE09
% Moisture: not dec. 12	Date Received: 07/07/97
Column: (pack/cap) CAP	Date Analyzed: 07/14/97
	Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
! 74-87-3-.....	! Chloromethane	! 6 !U	! !
! 75-01-4-.....	! Vinyl Chloride	! 6 !U	! !
! 74-83-9-.....	! Bromomethane	! 6 !U	! !
! 75-00-3-.....	! Chloroethane	! 6 !U	! !
! 75-69-4-.....	! Trichlorofluoromethane	! 6 !U	! !
! 107-02-8-.....	! Acrolein	! 110 !U	! !
! 75-35-4-.....	! 1,1-Dichloroethene	! 6 !U	! !
! 75-09-2-.....	! Methylene Chloride	! 6 !	! B!
! 107-13-1-.....	! Acrylonitrile	! 57 !U	! !
! 156-60-5-.....	! trans-1,2-Dichloroethene	! 6 !U	! !
! 75-34-3-.....	! 1,1-Dichloroethane	! 6 !U	! !
! 156-59-2-.....	! cis-1,2-Dichloroethene	! 6 !U	! !
! 67-66-3-.....	! Chloroform	! 6 !U	! !
! 107-06-2-.....	! 1,2-Dichloroethane	! 6 !U	! !
! 71-55-6-.....	! 1,1,1-Trichloroethane	! 6 !U	! !
! 56-23-5-.....	! Carbon Tetrachloride	! 6 !U	! !
! 71-43-2-.....	! Benzene	! 6 !U	! !
! 79-01-6-.....	! Trichloroethene	! 3 ! J	! !
! 78-87-5-.....	! 1,2-Dichloropropane	! 6 !U	! !
! 75-27-4-.....	! Bromodichloromethane	! 6 !U	! !
! 110-75-8-.....	! 2-Chloroethyl Vinyl Ether	! 11 !U	! !
! 10061-01-5-.....	! cis-1,3-Dichloropropene	! 6 !U	! !
! 10061-02-6-.....	! trans-1,3-Dichloropropene	! 6 !U	! !
! 79-00-5-.....	! 1,1,2-Trichloroethane	! 6 !U	! !
! 124-48-1-.....	! Dibromochloromethane	! 6 !U	! !
! 75-25-2-.....	! Bromoform	! 6 !U	! !
! 108-88-3-.....	! Toluene	! 6 !U	! !
! 127-18-4-.....	! Tetrachloroethene	! 6 !U	! !
! 108-90-7-.....	! Chlorobenzene	! 6 !U	! !
! 100-41-4-.....	! Ethylbenzene	! 6 !U	! !
! 1330-20-7-.....	! Xylene (total)	! 6 !U	! !
! 79-34-5-.....	! 1,1,2,2-Tetrachloroethane	! 6 !U	! !

FORM I VOA

1/87 Rev.

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles





LLI Sample No. SW 2738394

Collected: 7/ 3/97 at 16:39 by AL

Submitted: 7/ 7/97 Reported: 7/24/97

Discard: 8/ 4/97

WP-SLVDF2-070397 Grab Soil Sample

Project #17092.003

Ward Products - NY

VDF2- SDG#: WRD02-02

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED				DRY WEIGHT		
		RESULTS		METHOD	DETECTION LIMIT	RESULTS	METHOD	DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I						
1421	CLP Form I - VOA's			See Page	2			
1649	Cadmium	1.01	J	0.18	mg/kg	1.17	J	0.21
1651	Chromium	14.9		0.47	mg/kg	17.3		0.55
1655	Lead	7.2	J	2.5	mg/kg	8.4	J	2.9
1661	Nickel	19.5		0.81	mg/kg	22.7		0.94
1672	Zinc	49.5		1.2	mg/kg	57.		1.3
5895	Total Cyanide (solid)	2.67		0.100	mg/kg	3.10		0.12
<p>The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 20% and 19%. The acceptance window for this analysis is 75% to 120%. Post digest spiking of the background sample yielded a recovery of 102%. This suggests the presence of a matrix interference during the distillation step of the analysis.</p> <p>The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 108%. The acceptable RPD for this analysis is 20%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.</p>								
0111	Moisture	13.8		0.080	% by wt.			
<p>"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.</p>								
0425	Hexavalent Chromium (SOLIDS)	N.D.		0.40	mg/kg	N.D.		0.46

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:38:58 D 0002 7 572244  
 609 90.00 00051700 ASR000

14



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VDF2-

Lab Name: LANCASTER LABS Contract: \_\_\_\_\_  
 Lab Code: LANCAS Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 2738394  
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: >ELE10  
 Level: (low/med) LOW Date Received: 07/07/97  
 % Moisture: not dec. 14 Date Analyzed: 07/14/97  
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	6	!U	!
75-01-4	Vinyl Chloride	6	!U	!
74-83-9	Bromomethane	6	!U	!
75-00-3	Chloroethane	6	!U	!
75-69-4	Trichlorofluoromethane	6	!U	!
107-02-8	Acrolein	120	!U	!
75-35-4	1,1-Dichloroethene	6	!U	!
75-09-2	Methylene Chloride	8	! B!	!
107-13-1	Acrylonitrile	58	!U	!
156-60-5	trans-1,2-Dichloroethene	6	!U	!
75-34-3	1,1-Dichloroethane	6	!U	!
156-59-2	cis-1,2-Dichloroethene	7	!	!
67-66-3	Chloroform	6	!U	!
107-06-2	1,2-Dichloroethane	6	!U	!
71-55-6	1,1,1-Trichloroethane	6	!U	!
56-23-5	Carbon Tetrachloride	6	!U	!
71-43-2	Benzene	6	!U	!
79-01-6	Trichloroethene	79	!	!
78-87-5	1,2-Dichloropropane	6	!U	!
75-27-4	Bromodichloromethane	6	!U	!
110-75-8	2-Chloroethyl Vinyl Ether	12	!U	!
10061-01-5	cis-1,3-Dichloropropene	6	!U	!
10061-02-6	trans-1,3-Dichloropropene	6	!U	!
79-00-5	1,1,2-Trichloroethane	6	!U	!
124-48-1	Dibromochloromethane	6	!U	!
75-25-2	Bromoform	6	!U	!
108-88-3	Toluene	6	!U	!
127-18-4	Tetrachloroethene	6	!U	!
108-90-7	Chlorobenzene	6	!U	!
100-41-4	Ethylbenzene	6	!U	!
1330-20-7	Xylene (total)	6	!U	!
79-34-5	1,1,2,2-Tetrachloroethane	6	!U	!

FORM I VOA

1/87 Rev.

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





## Lancaster Laboratories

A division of Thermo Analytical Inc.

Page: 1 of 3

LLI Sample No. SW 2738395  
Collected: 7/ 3/97 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
Discard: 8/ 4/97

WP-SLVDDP-070397 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
VDDP- SDG#: WRD02-03

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	DETECTION	METHOD LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I				
1421	CLP Form I - VOA's			See Page 2		
1649	Cadmium	51.8	0.19	mg/kg	58.4	0.21
1651	Chromium	20.8	0.49	mg/kg	23.5	0.55
1655	Lead	4.7 J	2.6	mg/kg	5.3 J	2.9
1661	Nickel	12.8	0.83	mg/kg	14.5	0.94
1672	Zinc	57.0	1.2	mg/kg	64.	1.3
5895	Total Cyanide (solid)	6.04	0.100	mg/kg	6.81	0.11
<p>The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 20% and 19%. The acceptance window for this analysis is 75% to 120%. Post digest spiking of the background sample yielded a recovery of 102%. This suggests the presence of a matrix interference during the distillation step of the analysis.</p> <p>The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 108%. The acceptable RPD for this analysis is 20%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.</p>						
0111	Moisture	11.3	0.080	% by wt.		
<p>"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.</p>						
0425	Hexavalent Chromium (SOLIDS)	1.5	0.40	mg/kg	1.7	0.45

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:39:32 D 0002 7 572244  
609 90.00 00051700 ASR000

16



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates







Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VDDP-

Lab Name: LANCASTER LABS Contract: \_\_\_\_\_  
 Lab Code: LANCAS Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 2738395  
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: >ELE11  
 Level: (low/med) LOW Date Received: 07/07/97  
 % Moisture: not dec. 11 Date Analyzed: 07/14/97  
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
! 74-87-3-.....	! Chloromethane	! 6 !U	! !
! 75-01-4-.....	! Vinyl Chloride	! 6 !U	! !
! 74-83-9-.....	! Bromomethane	! 6 !U	! !
! 75-00-3-.....	! Chloroethane	! 6 !U	! !
! 75-69-4-.....	! Trichlorofluoromethane	! 6 !U	! !
! 107-02-8-.....	! Acrolein	! 110 !U	! !
! 75-35-4-.....	! 1,1-Dichloroethene	! 6 !U	! !
! 75-09-2-.....	! Methylene Chloride	! 6 !	! B!
! 107-13-1-.....	! Acrylonitrile	! 56 !U	! !
! 156-60-5-.....	! trans-1,2-Dichloroethene	! 6 !U	! !
! 75-34-3-.....	! 1,1-Dichloroethane	! 6 !U	! !
! 156-59-2-.....	! cis-1,2-Dichloroethene	! 6 !U	! !
! 67-66-3-.....	! Chloroform	! 6 !U	! !
! 107-06-2-.....	! 1,2-Dichloroethane	! 6 !U	! !
! 71-55-6-.....	! 1,1,1-Trichloroethane	! 6 !U	! !
! 56-23-5-.....	! Carbon Tetrachloride	! 6 !U	! !
! 71-43-2-.....	! Benzene	! 6 !U	! !
! 79-01-6-.....	! Trichloroethene	! 6 !	! !
! 78-87-5-.....	! 1,2-Dichloropropane	! 6 !U	! !
! 75-27-4-.....	! Bromodichloromethane	! 6 !U	! !
! 110-75-8-.....	! 2-Chloroethyl Vinyl Ether	! 11 !U	! !
! 10061-01-5-.....	! cis-1,3-Dichloropropene	! 6 !U	! !
! 10061-02-6-.....	! trans-1,3-Dichloropropene	! 6 !U	! !
! 79-00-5-.....	! 1,1,2-Trichloroethane	! 6 !U	! !
! 124-48-1-.....	! Dibromochloromethane	! 6 !U	! !
! 75-25-2-.....	! Bromoform	! 6 !U	! !
! 108-88-3-.....	! Toluene	! 6 !U	! !
! 127-18-4-.....	! Tetrachloroethene	! 6 !U	! !
! 108-90-7-.....	! Chlorobenzene	! 6 !U	! !
! 100-41-4-.....	! Ethylbenzene	! 6 !U	! !
! 1330-20-7-.....	! Xylene (total)	! 6 !U	! !
! 79-34-5-.....	! 1,1,2,2-Tetrachloroethane	! 6 !U	! !

FORM I VOA

1/87 Rev.

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles **17**





LLI Sample No. SW 2738396  
 Collected: 7/ 3/97 at 17:10 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
 Discard: 8/ 4/97

WP-SLVDF3-070397 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 VDF3- SDG#: WRD02-04

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT		
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD	DETECTION LIMIT
1177	PPL + Xylene (total) by 8240	see form I					
1421	CLP Form I - VOA's			See Page 2			
1649	Cadmium	57.1	0.18	mg/kg	65.9	0.21	
1651	Chromium	31.0	0.48	mg/kg	35.8	0.55	
1655	Lead	6.7	2.5	mg/kg	7.8	2.9	
1661	Nickel	17.9	0.82	mg/kg	20.7	0.94	
1672	Zinc	62.3	1.2	mg/kg	72.	1.3	
5895	Total Cyanide (solid)	9.42	0.20	mg/kg	10.9	0.23	
<p>The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 20% and 19%. The acceptance window for this analysis is 75% to 120%. Post digest spiking of the background sample yielded a recovery of 102%. This suggests the presence of a matrix interference during the distillation step of the analysis.</p> <p>The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 108%. The acceptable RPD this analysis is 20%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.</p>							
0111	Moisture	13.4	0.080	% by wt.			
<p>"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.</p>							
0425	Hexavalent Chromium (SOLIDS)	2.4	0.40	mg/kg	2.8	0.46	

1 COPY TO Normandeau Associates      ATTN: Mr. Al Larson  
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:40:05 D 0002 7 572244  
 609 90.00 00051700 ASR000

18



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Page 2 of 3 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VDF3-

Lab Name: LANCASTER LABS Contract: \_\_\_\_\_  
 Lab Code: LANCAS Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 2738396  
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: >ELF01  
 Level: (low/med) LOW Date Received: 07/07/97  
 % Moisture: not dec. 13 Date Analyzed: 07/15/97  
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
! 74-87-3-.....	! Chloromethane	! 6 !U	! !
! 75-01-4-.....	! Vinyl Chloride	! 6 !U	! !
! 74-83-9-.....	! Bromomethane	! 6 !U	! !
! 75-00-3-.....	! Chloroethane	! 6 !U	! !
! 75-69-4-.....	! Trichlorofluoromethane	! 6 !U	! !
! 107-02-8-.....	! Acrolein	! 110 !U	! !
! 75-35-4-.....	! 1,1-Dichloroethene	! 6 !U	! !
! 75-09-2-.....	! Methylene Chloride	! 8 !	! !
! 107-13-1-.....	! Acrylonitrile	! 57 !U	! !
! 156-60-5-.....	! trans-1,2-Dichloroethene	! 6 !U	! !
! 75-34-3-.....	! 1,1-Dichloroethane	! 6 !U	! !
! 156-59-2-.....	! cis-1,2-Dichloroethene	! 20 !	! !
! 67-66-3-.....	! Chloroform	! 6 !U	! !
! 107-06-2-.....	! 1,2-Dichloroethane	! 6 !U	! !
! 71-55-6-.....	! 1,1,1-Trichloroethane	! 6 !U	! !
! 56-23-5-.....	! Carbon Tetrachloride	! 6 !U	! !
! 71-43-2-.....	! Benzene	! 6 !U	! !
! 79-01-6-.....	! Trichloroethene	! 98 !	! !
! 78-87-5-.....	! 1,2-Dichloropropane	! 6 !U	! !
! 75-27-4-.....	! Bromodichloromethane	! 6 !U	! !
! 110-75-8-.....	! 2-Chloroethyl Vinyl Ether	! 11 !U	! !
! 10061-01-5-.....	! cis-1,3-Dichloropropene	! 6 !U	! !
! 10061-02-6-.....	! trans-1,3-Dichloropropene	! 6 !U	! !
! 79-00-5-.....	! 1,1,2-Trichloroethane	! 6 !U	! !
! 124-48-1-.....	! Dibromochloromethane	! 6 !U	! !
! 75-25-2-.....	! Bromoform	! 6 !U	! !
! 108-88-3-.....	! Toluene	! 6 !U	! !
! 127-18-4-.....	! Tetrachloroethene	! 6 !U	! !
! 108-90-7-.....	! Chlorobenzene	! 6 !U	! !
! 100-41-4-.....	! Ethylbenzene	! 6 !U	! !
! 1330-20-7-.....	! Xylene (total)	! 6 !U	! !
! 79-34-5-.....	! 1,1,2,2-Tetrachloroethane	! 6 !U	! !

FORM I VOA

1/87 Rev.

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles

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Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations

2216 Rev. 5/01/96



# Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only  
 2735358-77  
 2738393-99  
 2738404-27 Acct. # 8863 Sample # \_\_\_\_\_  
 2738434-43  
 2738448-64

Please print. Instructions on reverse side correspond with circled numbers.

Client: <u>Normandeau Assoc.</u>		Acct. #: _____		Matrix <b>4</b>		Analyses Requested <b>5</b>							For lab use only						
Project Name/#: <u>Wood/17092.003</u>		PWSID #: _____											FSC: _____						
Project Manager: <u>Al Larson</u>		P.O.# _____											SCR #: <u>1098974</u>						
Sampler: <u>Al Larson/Steve Lee</u>		Quote #: _____											Total # of Containers <b>6</b>						
Name of state where samples were collected: <u>New York</u>																			
Sample Identification		Date Collected	Time Collected	Grab <b>3</b>	Composite	Soil	Potable Water	Groundwater	NPDES	Other	Remarks								
WP-SLVD F1 - 070397		07/03/97	1555	X	X						4	X	X	X	X	X	X	X	Total + TCLP for Metals + VOCs ↓ } RCRA Metals } Total + TCLP } CYANIDE TOTAL/TCLP } Moisture
WP-SLVD F2 - 070397		07/03/97	1639	X	X						4	X	X	X	X	X	X		
WP-SLVD BP - 070397		07/03/97	—	X	X						4	X	X	X	X	X	X		
WP-SLVD F3 - 070397		07/03/97	1710	X	X						4	X	X	X	X	X	X		
WP-SLSP1 - 070297		07/02/97	0828	X	X						2	X	X	X	X	X			
WP-SLSP2 - 070297		07/02/97	0834	X	X						2	X	X	X	X	X			
WP-SLSP3 - 070297		07/02/97	0840	X	X						2	X	X	X	X	X			

Turnaround Time Requested (TAT) (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone Fax  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Data Package Options (please circle if requested)

QC Summary	Type VI (Raw Data)	SDG Complete?
Type I (Tier I)	GLP	Yes No
Type II (Tier II)	<u>Other</u>	
Type III (NJ Red. Del.)		
Type IV (NYC/NTB)		

Site-specific QC required? Yes No  
 (If yes, indicate QC sample and submit triplicate volume.)  
 Internal Chain of Custody required? Yes No

Relinquished by: <u>M Hubbard</u>	Date: <u>6/13/97</u>	Time: <u>1105</u>	Received by: <u>[Signature]</u>	Date: <u>6/14/97</u>	Time: <u>805</u>
Relinquished by: <u>[Signature]</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>	Received by: <u>[Signature]</u>	Date: <u>7/5/97</u>	Time: <u>950</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>Mr. Harold Collins</u>	Date: <u>7/7/97</u>	Time: <u>1925</u>

**FLOOR DRAIN**



Sample Reference List for SDG # WRD01  
with a NYSDEC Package Type

Lab Sample Number	Sample Code	Client Sample Description
-----	-----	-----
2738358	SLEX1	WP-SLEX1-070297 Grab Soil Sample
2738359	SLEX2	WP-SLEX2-070297 Grab Soil Sample
2738360	SLEDP	WP-SLEXDP-070297 Grab Soil Sample
2738361	SLEX3	WP-SLEX3-070297 Grab Soil Sample
2738362	SLEX4	WP-SLEX4-070297 Grab Soil Sample
2738363	SLEX5	WP-SLEX5-070297 Grab Soil Sample
2738364	SLEX6	WP-SLEX6-070297 Grab Soil Sample
2738365	SPA1-	WP-SLSPA1-070297 Grab Soil Sample
2738366	SPA2-	WP-SLSPA2-070297 Grab Soil Sample
2738367	SPB1-	WP-SLSPB1-070297 Grab Soil Sample
2738368	SPB2-	WP-SLSPB2-070297 Grab Soil Sample
2738369	SPB3-	WP-SLSPB3-070297 Grab Soil Sample
2738370	SPC1-	WP-SLSPC1-070397 Grab Soil Sample
2738371	SPC2-	WP-SLSPC2-070397 Grab Soil Sample
2738372	SPD1-	WP-SLSPD1-070397 Grab Soil Sample
2738373	SPD2-	WP-SLSPD2-070397 Grab Soil Sample
2738374	SPE1-	WP-SLSPE1-070397 Grab Soil Sample
2738375	SPE2-	WP-SLSPE2-070397 Grab Soil Sample
2738376	LSPD-	WP-SLSPDP-070397 Grab Soil Sample
2738377	LVDG-	X WP-SLVDG1-070397 Grab Soil Sample



LLI Sample No. SW 2738377

Collected: 7/ 3/97 at 15:20 by AL

Submitted: 7/ 7/97 Reported: 7/24/97

Discard: 8/ 4/97

WP-SLVDG1-070397 Grab Soil Sample

Project #17092.003

Ward Products - NY

LVDG- SDG#: WRD01-20\*

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Re1.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD
1177	PPL + Xylene (total) by 8240 see form I The quantitation limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.					
1421	CLP Form I - VOA's			See Page 2		
1649	Cadmium	156.		0.13 mg/kg	192.	0.16
1651	Chromium	31.2		0.47 mg/kg	38.5	0.58
1655	Lead	9.3	J	2.4 mg/kg	11.5	J 3.0
1661	Nickel	26.3		0.46 mg/kg	32.4	0.57
1672	Zinc	132.		0.40 mg/kg	163.	0.49
5895	Total Cyanide (solid)	N.D.		0.099 mg/kg	N.D.	0.12
0111	Moisture "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.	18.8		0.080 % by wt.		
0425	Hexavalent Chromium (SOLIDS)	236.		0.40 mg/kg	291.	0.49

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:34:32 D 0002 20 572236  
 609 90.00 00051700 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
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Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





Page 2 of 4 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LVDG-

Lab Name: LANCASTER LABS Contract: \_\_\_\_\_  
 Lab Code: LANCAS Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 2738377  
 Sample wt/vol: 1.0 (g/mL) G Lab File ID: >ELE08  
 Level: (low/med) LOW Date Received: 07/07/97  
 % Moisture: not dec. 19 Date Analyzed: 07/14/97  
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	31	!U
75-01-4	Vinyl Chloride	380	!
74-83-9	Bromomethane	31	!U
75-00-3	Chloroethane	31	!U
75-69-4	Trichlorofluoromethane	31	!U
107-02-8	Acrolein	620	!U
75-35-4	1,1-Dichloroethene	130	!
75-09-2	Methylene Chloride	24	! J B!
107-13-1	Acrylonitrile	310	!U
156-60-5	trans-1,2-Dichloroethene	31	!U
75-34-3	1,1-Dichloroethane	31	!U
156-59-2	cis-1,2-Dichloroethene	4100	! E
67-66-3	Chloroform	31	!U
107-06-2	1,2-Dichloroethane	31	!U
71-55-6	1,1,1-Trichloroethane	31	!U
56-23-5	Carbon Tetrachloride	31	!U
71-43-2	Benzene	31	!U
79-01-6	Trichloroethene	7400	! E
78-87-5	1,2-Dichloropropane	31	!U
75-27-4	Bromodichloromethane	31	!U
110-75-8	2-Chloroethyl Vinyl Ether	62	!U
10061-01-5	cis-1,3-Dichloropropene	31	!U
10061-02-6	trans-1,3-Dichloropropene	31	!U
79-00-5	1,1,2-Trichloroethane	31	!U
124-48-1	Dibromochloromethane	31	!U
75-25-2	Bromoform	31	!U
108-88-3	Toluene	19	! J
127-18-4	Tetrachloroethene	17	! J
108-90-7	Chlorobenzene	31	!U
100-41-4	Ethylbenzene	180	!
1330-20-7	Xylene (total)	940	!
79-34-5	1,1,2,2-Tetrachloroethane	31	!U

FORM I VOA

1/87 Rev.

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations

2216 Rev. 5/01/96





Page 3 of 4 1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LVDG-DL

Lab Name: LANCASTER LABS Contract: \_\_\_\_\_  
 Lab Code: LANCAS Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 2738377  
 Sample wt/vol: 4.0 (g/mL) G Lab File ID: >DLH01  
 Level: (low/med) MED Date Received: 07/07/97  
 % Moisture: not dec. 19 Date Analyzed: 07/17/97  
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	770	!U	!
75-01-4	Vinyl Chloride	770	!U	!
74-83-9	Bromomethane	770	!U	!
75-00-3	Chloroethane	770	!U	!
75-69-4	Trichlorofluoromethane	770	!U	!
107-02-8	Acrolein	15000	!U	!
75-35-4	1,1-Dichloroethene	770	!U	!
75-09-2	Methylene Chloride	770	!U	!
107-13-1	Acrylonitrile	7700	!U	!
156-60-5	trans-1,2-Dichloroethene	770	!U	!
75-34-3	1,1-Dichloroethane	770	!U	!
156-59-2	cis-1,2-Dichloroethene	6200	! D	!
67-66-3	Chloroform	770	!U	!
107-06-2	1,2-Dichloroethane	770	!U	!
71-55-6	1,1,1-Trichloroethane	770	!U	!
56-23-5	Carbon Tetrachloride	770	!U	!
71-43-2	Benzene	770	!U	!
79-01-6	Trichloroethene	19000	! D	!
78-87-5	1,2-Dichloropropane	770	!U	!
75-27-4	Bromodichloromethane	770	!U	!
110-75-8	2-Chloroethyl Vinyl Ether	1500	!U	!
10061-01-5	cis-1,3-Dichloropropene	770	!U	!
10061-02-6	trans-1,3-Dichloropropene	770	!U	!
79-00-5	1,1,2-Trichloroethane	770	!U	!
124-48-1	Dibromochloromethane	770	!U	!
75-25-2	Bromoform	770	!U	!
108-88-3	Toluene	770	!U	!
127-18-4	Tetrachloroethene	770	!U	!
108-90-7	Chlorobenzene	770	!U	!
100-41-4	Ethylbenzene	340	! J D	!
1330-20-7	Xylene (total)	1900	! D	!
79-34-5	1,1,2,2-Tetrachloroethane	770	!U	!

FORM I VOA

1/87 Rev.

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96

58

2738358-77  
 2738393-99  
 2738404-23  
 2738434-43  
 2738448-64

For Lancaster Laboratories use only

Acct. # 8863 Sample # \_\_\_\_\_



Please print. Instructions on reverse side correspond with circled numbers.

Client: Normandean Associates Acct. #: \_\_\_\_\_  
 Project Name/ID: WARD / 17092.003 PWSID #: \_\_\_\_\_  
 Project Manager: Al Larson P.O.# \_\_\_\_\_  
 Sampler: Al Larson / Steve Lee Quote #: \_\_\_\_\_  
 Name of state where samples were collected: New York

Matrix: 4  
 Potable (check if NPDES applicable)  
 Water  
 Soil  
 Other  
 Total # of containers

Analyses Requested  
5  
 CADMIUM  
 CHROMIUM (TOTAL + Hex)  
 CYANIDE  
 MUISTURE  
 LEAD  
 NICKEL  
 ZINC  
 VOCs

For lab use only  
 FSC: \_\_\_\_\_  
 SCR #: 1098274

Sample Identification	Date Collected	Time Collected	Grab <u>3</u>	Composite	Soil	Water	Other	Total # of containers	Analyses Requested	Remarks
WP-SLSPB2-070297	7/2/97	1900	X		X			4	X X X X X X X X	Total + TCLP for Metals + VOCs
WP-SLSPB3-070297	7/2/97	1900								
WP-SLSPC1-070397	7/3/97	0842								
WP-SLSPC2-070397		0925								
WP-SLSPD1-070397		1020								
WP-SLSPD2-070397		1110								
WP-SLSP E1-070397		1150								
WP-SLSP E2-070397		1225								
WP-SLSPDP-070397										
WP-SLV D G1-070397		1520								

Turnaround Time Requested (TAT) (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone Fax  
 Phone #: C2 Fax #: \_\_\_\_\_

Relinquished by:	Date	Time	Received by:	Date	Time
<u>M Hufford</u>	<u>6/29/97</u>	<u>1105</u>	<u>Al Larson</u>	<u>6/14/97</u>	<u>805</u>
<u>Al Larson</u>	<u>7/5/97</u>	<u>1135</u>	<u>Steve Lee</u>	<u>7/5/97</u>	<u>1735</u>
			<u>Harlan Collins</u>	<u>7/7/97</u>	<u>0925</u>

Data Package Options (please circle if requested)  
 QC Summary Type VI (Raw Data) SDG Complete? Yes No  
 Type I (Tier I) N GLP  
 Type II (Tier II) Other  
 Type III (NJ Red. Del.)  
 Type IV (CLP) NY ASP, CAS B  
 Site-specific QC required? Yes No  
 (If yes, indicate QC sample and submit triplicate volume.)  
 Internal Chain of Custody required? Yes No

Sample Reference List for SDG # WAR08  
with a Package Type of NYSDEC

Lab Sample Number	Sample Code	Client Sample Description
2752278	PA2NV	WP-SLSPA2-070297 Grab Soil Sample
2752279	PB1NV	WP-SLSPB1-070297 Grab Soil Sample
2752280	PB2NV	WP-SLSPB2-070297 Grab Soil Sample
2752281	PC1NV	WP-SLSPC1-070397 Grab Soil Sample
2752282	PC2NV	WP-SLSPC2-070397 Grab Soil Sample
2752283	PD1NV	WP-SLSPD1-070397 Grab Soil Sample
2752284	PD2NV	WP-SLSPD2-070397 Grab Soil Sample
2752285	PE1NV	WP-SLSPE1-070397 Grab Soil Sample
2752286	PE2NV	WP-SLSPE2-070397 Grab Soil Sample
2752287	DG1NV	X WP-SLVDG1-070397 Grab Soil Sample
2752288	DG1ZH	X WP-SLVDG1-070397 Grab Soil Sample
2752289	DF1NV	WP-SLVDF1-070397 Grab Soil Sample
2752290	DF3NV	WP-SLVDF3-070397 Grab Soil Sample
2753118	-LSPD	WP-SLSPDP-070397 Grab Soil Sample



LLI Sample No. TL 2752288

Collected: 7/ 3/97 at 15:20 by AL

Submitted: 7/30/97 Reported: 8/14/97  
Discard: 8/25/97

WP-SLVDG1-070397 Grab Soil Sample  
TCLP ZERO HEADSPACE EXTRACTION  
Ward Products - NY/Associated LL# 2738377  
DG1ZH SDG#: WAR08-12

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD	
		RESULTS	DETECTION LIMIT UNITS
1508	PPL + Xylene (total) by 8240		See Page 2

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
08:52:34 D 0002 14 575583  
665 140.00 00040000 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. TL 2752288

Collected: 7/ 3/97 at 15:20 by AL

Submitted: 7/30/97 Reported: 8/14/97

Discard: 8/25/97

WP-SLVDG1-070397 Grab Soil Sample  
 TCLP ZERO HEADSPACE EXTRACTION  
 Ward Products - NY/Associated LL# 2738377  
 DG1ZH SDG#: WAR08-12

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS		METHOD	
				DETECTION LIMIT	UNITS
PPL + Xylene (total) by 8240					
1258	Chloromethane	N.D.		3.	ug/l
1257	Bromomethane	N.D.		3.	ug/l
3492	Vinyl Chloride	5.	J	2.	ug/l
3494	Chloroethane	N.D.		3.	ug/l
3495	Acrolein	N.D.		40.	ug/l
3496	Acrylonitrile	N.D.		10.	ug/l
3497	Methylene Chloride	N.D.		2.	ug/l
1264	Trichlorofluoromethane	N.D.		2.	ug/l
3500	1,1-Dichloroethene	2.	J	1.	ug/l
3501	1,1-Dichloroethane	N.D.		2.	ug/l
3503	Chloroform	N.D.		1.	ug/l
3504	1,2-Dichloroethane	N.D.		2.	ug/l
3505	1,1,1-Trichloroethane	N.D.		1.	ug/l
3506	Carbon Tetrachloride	N.D.		1.	ug/l
3508	Bromodichloromethane	N.D.		1.	ug/l
3523	1,1,2,2-Tetrachloroethane	N.D.		2.	ug/l
3509	1,2-Dichloropropane	N.D.		1.	ug/l
3510	trans-1,3-Dichloropropene	N.D.		1.	ug/l
3511	Trichloroethene	530.		5.	ug/l
3512	Dibromochloromethane	N.D.		2.	ug/l
3513	1,1,2-Trichloroethane	N.D.		2.	ug/l
3515	Benzene	1.	J	1.	ug/l
3516	cis-1,3-Dichloropropene	N.D.		1.	ug/l
3645	2-Chloroethyl Vinyl Ether	N.D.		2.	ug/l
3518	Bromoform	N.D.		1.	ug/l
3522	Tetrachloroethene	N.D.		1.	ug/l
3524	Toluene	4.	J	2.	ug/l
3525	Chlorobenzene	N.D.		1.	ug/l
3526	Ethylbenzene	3.	J	2.	ug/l
3529	Xylene (total)	20.		1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.		2.	ug/l
6268	cis-1,2-Dichloroethene	92.		2.	ug/l

Toluene and xylene (total) were detected in the method blank at concentrations of 6. and 14. ug/l, respectively. The blank values were not subtracted from the analytical result.

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles

31



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax 717-656-2681



2738358-77  
2738393-99  
2738404-23  
2738434-43  
2738448-64

For Lancaster Laboratories use only  
Acct. # 8863 Sample # 2752277-90

Please print. Instructions on reverse side correspond with circled numbers.

Client: Normandeau Associates Acct. #: \_\_\_\_\_  
 Project Name/ID: WARD / 17092.003 PWSID #: \_\_\_\_\_  
 Project Manager: Al Larson P.O. #: \_\_\_\_\_  
 Sampler: Al Larson / Steve Lee Quote #: \_\_\_\_\_  
 Name of state where samples were collected: New York

Matrix (4)	Analyses Requested (5)											For lab use only			
	Soil	Water	Other	Total of Containers	Cadmium	Chromium (Total + Hex)	Cyanide	Muiskup	Lead	Nickel	Zinc	VOCs	Remarks	FSC:	SCR #:
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		4	X	X	X	X	X	X	X	X	Total + TCLP for Metals + VOCs		1098874

Sample Identification	Date Collected	Time Collected	Grab (3)	Composite	Soil	Water	Other	Total of Containers	Cadmium	Chromium (Total + Hex)	Cyanide	Muiskup	Lead	Nickel	Zinc	VOCs	Remarks	Temperature of samples upon receipt (if requested) (6)
WP-SLSPB2-070297	7/2/97	1900	X		X			4	X	X	X	X	X	X	X	X	Total + TCLP for Metals + VOCs	
WP-SLSPB3-070297	7/2/97	1900																
WP-SLSPC1-070397	7/3/97	0842																
WP-SLSPC2-070397		0925																
WP-SLSPD1-070397		1020																
WP-SLSPD2-070397		1110																
WP-SLSP E1-070397		1150																
WP-SLSP E2-070397		1225																
WP-SLSPDP-070397																		
WP-SLVDG1-070397		1520																

Turnaround Time Requested (TAT) (please circle): Normal Rush  
 Rush TAT is subject to Lancaster Laboratories approval and surcharge.  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone Fax  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

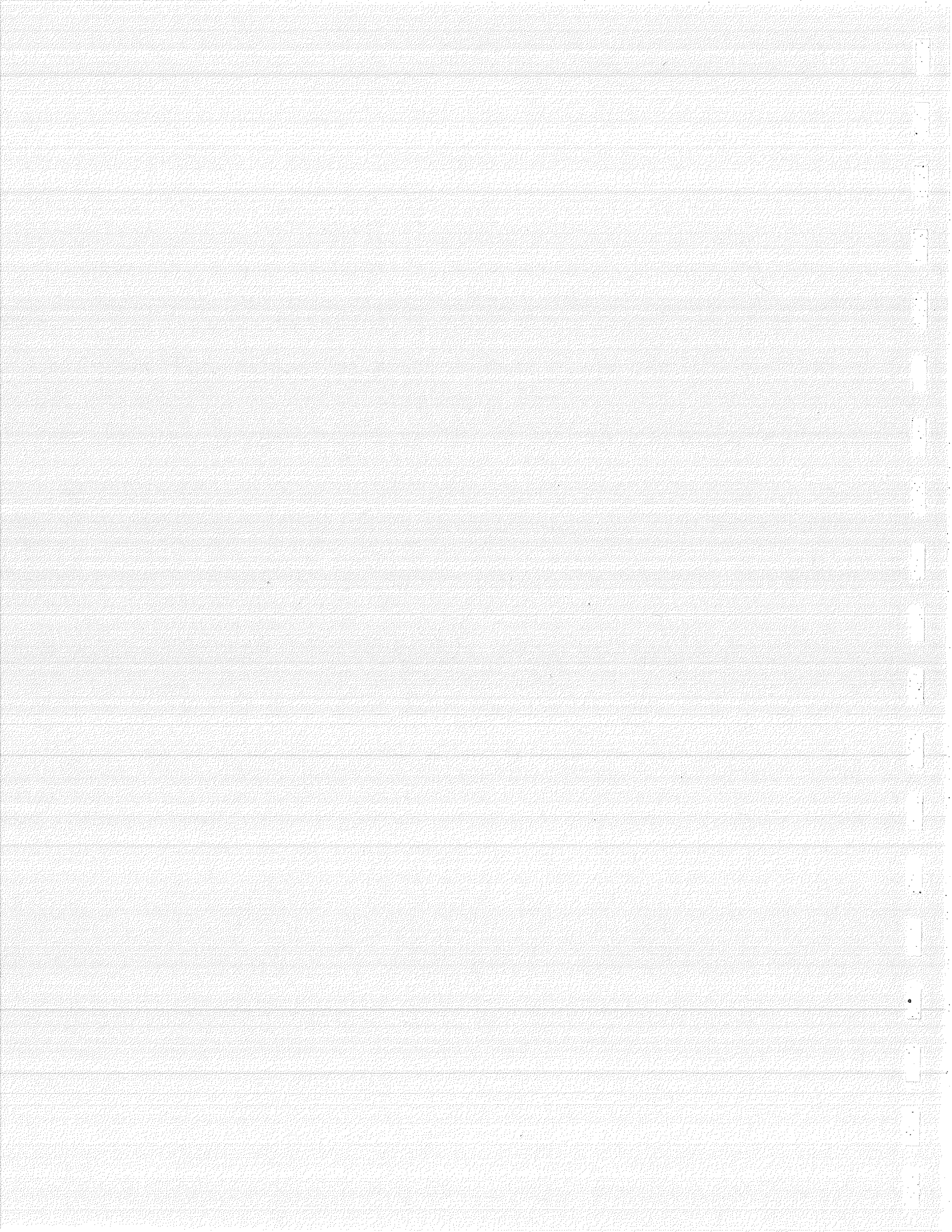
Relinquished by: <u>M Hufford</u>	Date: <u>6/26/97</u>	Time: <u>1105</u>	Received by: <u>Al Larson</u>	Date: <u>6/14/97</u>	Time: <u>805</u>
Relinquished by: <u>Al Larson</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>	Received by: <u>Al Larson</u>	Date: <u>7/5/97</u>	Time: <u>1735</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: <u>Harlan Collins</u>	Date: <u>7/17/97</u>	Time: <u>0925</u>

Data Package Options (please circle if requested) SDG Complete? Yes No  
 QC Summary Type VI (Raw Data) Yes No  
 Type I (Tier I) GLP  
 Type II (Tier II) Other Site-specific QC required? Yes No  
 Type III (NJ Red. Del.) Internal Chain of Custody required? Yes No  
 Type IV (CLP NY ASP CAT B)





**APPENDIX B**  
**SOIL SAMPLES COLLECTED FROM**  
**THE SOIL PILE**



Sample Reference List for SDG # WRD02  
 with a Package Type of NYSDEC

Lab Sample Number -----	Sample Code -----	Client Sample Description -----
2738393	VDF1-	WP-SLVDF1-070397 Grab Soil Sample
2738394	VDF2-	WP-SLVDF2-070397 Grab Soil Sample
2738395	VDDP-	WP-SLVDDP-070397 Grab Soil Sample
2738396	VDF3-	WP-SLVDF3-070397 Grab Soil Sample
2738397	LSP1-	X WP-SLSP1-070297 Grab Soil Sample
2738398	LSP2-	X WP-SLSP2-070297 Grab Soil Sample
2738399	LSP3-	X WP-SLSP3-070297 Grab Soil Sample



LLI Sample No. SW 2738397
Collected: 7/ 3/97 at 08:28 by AL
Submitted: 7/ 7/97 Reported: 7/24/97
Discard: 8/ 4/97

Account No: 08863
Normandeau Associates
25 Nashua Road
Bedford NH 03110-5500

P.O. 17092.003
Rel.

WP-SLSP1-070297 Grab Soil Sample
Project #17092.003
Ward Products - NY
LSP1- SDG#: WRD02-05

Table with columns: CAT NO., ANALYSIS NAME, AS RECEIVED (RESULTS, METHOD, DETECTION LIMIT, UNITS), DRY WEIGHT (RESULTS, METHOD, DETECTION LIMIT). Rows include Barium, Cadmium, Chromium, Lead, Silver, Arsenic TR, Selenium TR, Mercury, Total Cyanide (solid), Moisture, and Hexavalent Chromium (SOLIDS).

The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 20% and 19%. The acceptance window for this analysis is 75% to 120%. Post digest spiking of the background sample yielded a recovery of 102%. This suggests the presence of a matrix interference during the distillation step of the analysis.
The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 108%. The acceptable RPD for this analysis is 20%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.

1 COPY TO Normandeau Associates ATTN: Mr. Al Larson
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Lisa M. Metrick at (717) 656-2300
19:40:43 D 0002 7 572244
609 90.00 00031300 ASR000

20

MEMBER ACIL Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



LLI Sample No. SW 2738398

Collected: 7/7/97 at 08:34 by AL

Submitted: 7/7/97 Reported: 7/24/97  
Discard: 8/4/97

WP-SLSP2-070297 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
LSP2- SDG#: WRD02-06

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD
1646	Barium	46.3	0.39	mg/kg	48.	0.41
1649	Cadmium	23.6	0.18	mg/kg	24.7	0.19
1651	Chromium	301.	0.48	mg/kg	315.	0.50
1655	Lead	53.3	2.5	mg/kg	56.	2.6
1666	Silver	N.D.	0.44	mg/kg	N.D.	0.46
6935	Arsenic TR	4.1	0.37	mg/kg	4.3	0.39
6936	Selenium TR	N.D.	0.36	mg/kg	N.D.	0.38
0159	Mercury	0.0429 J	0.0028	mg/kg	0.0448 J	0.0029
5895	Total Cyanide (solid)	2.68	0.100	mg/kg	2.80	0.10
0111	Moisture	4.29	0.080	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	42.	4.0	mg/kg	44.	4.2

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:40:57 D 0002 7 572244  
609 90.00 00031300 ASR000

21



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





LLI Sample No. SW 2738399

Collected: 7/3/97 at 08:40 by AL  
*2/14/97*

Submitted: 7/7/97 Reported: 7/24/97

Discard: 8/4/97

WP-SLSP3-070297 Grab Soil Sample

Project #17092.003

Ward Products - NY

LSP3- SDG#: WRD02-07

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1646	Barium	49.6		0.39 mg/kg	53.	0.42
1649	Cadmium	30.4		0.18 mg/kg	32.6	0.20
1651	Chromium	461.		0.48 mg/kg	495.	0.51
1655	Lead	116.		2.5 mg/kg	125.	2.7
1666	Silver	1.49	J	0.44 mg/kg	1.59	J 0.47
6935	Arsenic TR	5.8		0.37 mg/kg	6.2	0.40
6936	Selenium TR	N.D.		0.36 mg/kg	N.D.	0.39
0159	Mercury	0.0540	J	0.0028 mg/kg	0.0580	J 0.0030
5895	Total Cyanide (solid)	2.65		0.100 mg/kg	2.84	0.11
<p>The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 20% and 19%. The acceptance window for this analysis is 75% to 120%. Post digest spiking of the background sample yielded a recovery of 102%. This suggests the presence of a matrix interference during the distillation step of the analysis.</p> <p>The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 108%. The acceptable RPD for this analysis is 20%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.</p>						
0111	Moisture	6.79		0.080 % by wt.		
<p>"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.</p>						
0425	Hexavalent Chromium (SOLIDS)	28.1		1.6 mg/kg	30.2	1.7

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:41:12 D 0002 7 572244  
609 90.00 00031300 ASR000

22



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





2735358-77  
2738373-99  
2738404-23  
2738434-43  
2738448-64

For Lancaster Laboratories use only  
Acct. # 8863 Sample # \_\_\_\_\_

Please print. Instructions on reverse side correspond with circled numbers.

Client: <u>Normandeau Assoc.</u> Acct. #: _____		Matrix <b>4</b>				Analyses Requested <b>5</b>							For lab use only	
Project Name/#: <u>Ward/17092.003</u> PWSID #: _____		Soil <input type="checkbox"/> Potable <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Other <input type="checkbox"/>	Total # of Containers	CALCIUM							CHROMIUM (Total + Hex)		REMARKS	FSC: _____
Project Manager: <u>Al Larson</u> P.O.# _____				CYANIDE							MOISTURE			SCR #: <u>2098974</u>
Sampler: <u>Al Larson/Steve Lee</u> Quote #: _____				LEAD							NICKEL			
Name of state where samples were collected: <u>New York</u>		Grab <b>3</b>	Composite	ZINC							VOCs		6 9 Total + TCLP for Metals + VOCs 2 RCRA Metals 3 Total + TCLP Cyanide Total + TCLP Moisture	
Sample Identification	Date Collected	Time Collected	Soil	Total # of Containers	Remarks									
WP-SLVD F1 - 070397	07/03/97	1555	X	4	X	X	X	X	X	X	X	X		
WP-SLVD F2 - 070397	07/03/97	1639	X	4	X	X	X	X	X	X	X	X		
WP-SLVD BP - 070397	07/03/97	—	X	4	X	X	X	X	X	X	X	X		
WP-SLVD F3 - 070397	07/03/97	1710	X	4	X	X	X	X	X	X	X	X		
WP-SLSP1 - 070297	07/02/97	0828	X	2	X	X	X	X	X					
WP-SLSP2 - 070297	07/02/97	0834	X	2	X	X	X	X	X					
WP-SLSP3 - 070297	07/02/97	0840	X	2	X	X	X	X	X					

Turnaround Time Requested (TAT) (please circle): Normal Rush  
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
Date results are needed: \_\_\_\_\_  
Rush results requested by (please circle): Phone Fax  
Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Relinquished by: <u>M. Hubbard</u>	Date: <u>6/13/97</u>	Time: <u>1105</u>	Received by: <u>[Signature]</u>	Date: <u>6/14/97</u>	Time: <u>805</u>
Relinquished by: <u>[Signature]</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>	Received by: <u>[Signature]</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>An. Harlan Collins</u>	Date: <u>7/2/97</u>	Time: <u>1925</u>

**3 Data Package Options** (please circle if requested)

QC Summary	Type VI (Raw Data)	SDG Complete? Yes No
Type I (Tier I)	GLP	
Type II (Tier II)	<u>Other</u>	
Type III (NJ Red. Del.)		
Type IV (CLP) NYASPCAT B		

Site-specific QC required? Yes No  
(If yes, indicate QC sample and submit triplicate volume.)  
Internal Chain of Custody required? Yes No



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Sample Reference List for SDG # WAR07  
with a Package Type of I

Lab Sample Number	Sample Code	Client Sample Description
2751174	NVSL1	WP-SLSP1-070297 Grab Soil Sample
2751175	NVSL2	WP-SLSP2-070297 Grab Soil Sample
2751176	NVSL3	WP-SLSP3-070297 Grab Soil Sample

Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Shipping Address:  
Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17601  
717-656-2300 Fax: 717-656-2681

Environmental • Foods • Pharmaceuticals



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LLI Sample No. TL 2751174  
Collected:

Submitted: 7/28/97 Reported: 8/ 8/97  
Discard: 8/23/97

WP-SLSP1-070297 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Project No. 17092-003 Ward Products, NY  
NVSL1 SDG#: WAR07-01

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O.  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1446	Hexavalent Chromium	0.0578	0.0050	mg/l

1 COPY TO Normandeau Associates  
2 COPIES TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
11:04:05 D 0003 3 575309  
665 95.00 00012400 ASR000

Respectfully Submitted  
Erik Frederiksen, BA  
Group Leader, Water Quality



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. TL 2751176

Collected:

Submitted: 7/28/97 Reported: 8/ 8/97

Discard: 8/23/97

WP-SLSP3-070297 Grab Soil Sample

TCLP NON-VOLATILE EXTRACTION

Project No. 17092-003 Ward Products, NY

NVSL3 SDG#: WAR07-03

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O.  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1446	Hexavalent Chromium	0.164	0.0050	mg/l

1 COPY TO Normandeau Associates  
2 COPIES TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
11:04:35 D 0003 3 575309  
665 95.00 00012400 ASR000

Respectfully Submitted  
Erik Frederiksen, BA  
Group Leader, Water Quality

8



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. TL 2738440  
 Collected: 7/ 2/97 at 08:34 by AL  
 Submitted: 7/ 7/97 Reported: 7/20/97  
 Discard: 7/31/97

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Re1.

WP-SLSP2-070297 Grab Soil Sample  
 TCLP NON-VOLATILE EXTRACTION  
 Ward Products - NY  
 LSP2N SDG#: WRD04-07

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION	LIMIT UNITS
1335	Arsenic	N.D.	0.029	mg/l
1336	Selenium	N.D.	0.048	mg/l
1746	Barium	0.75	0.0028	mg/l
1749	Cadmium	0.624	0.0031	mg/l
1751	Chromium	0.147	0.0066	mg/l
1755	Lead	N.D.	0.021	mg/l
1766	Silver	N.D.	0.0047	mg/l
0259	Mercury	0.000041J	0.00002	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

1 COPY TO Normandeau Associates      ATTN: Mr. Al Larson  
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 20:12:42 D 0002 10 572249  
 126 110.00 00023300 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



LLI Sample No. WW 2738441  
Collected: 7/ 2/97 at 08:34 by AL

Submitted: 7/ 7/97 Reported: 7/20/97  
Discard: 7/31/97

WP-SLSP2-070297 Grab Soil Sample  
ASTM LEACHATE EXTRACTION  
Ward Products - NY  
LSP2A SDG#: WRD04-08

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
0237	Total Cyanide (water)	0.0301		0.0040 mg/l

The above analyses were performed on a leachate prepared from the submitted waste according to ASTM method 3987-85.

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
20:12:50 D 0002 10 572249  
126 52.00 00009200 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

13





**LLI Sample No. SW 2774812**

Collected: 9/ 5/97 at 15:00 by AL

Submitted: 9/ 6/97 Reported: 9/21/97  
Discard: 10/ 6/97

WP-SP4-090597 Grab Soil Sample

Ward RI  
1500- SDG#: WRD07-01\*

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O.  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD
1649	Cadmium	45.1	0.19	mg/kg	48.7	0.20
1651	Chromium	414.	0.49	mg/kg	447.	0.52
1655	Lead	458.	2.6	mg/kg	494.	2.8
1661	Nickel	1,480.	0.83	mg/kg	1,600.	0.90
1672	Zinc	3,130.	1.2	mg/kg	3,380.	1.3
5895	Total Cyanide (solid)	1.14	0.098	mg/kg	1.23	0.11
The matrix spike and matrix spike duplicate for this batch of samples were out of specification due to low recoveries (50% and 72%). Post digest spiking of the background sample yielded a recovery of 105%. The blank and LCS/LCSD analyzed with this sample were within specifications.						
0111	Moisture	7.36	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	0.88	J	0.40 mg/kg	0.95	J 0.43

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
20:22:04 D 0002 1 580981  
665 90.00 00024200 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

Sample Reference List for SDG # WRI01  
with a Package Type of NYSDEC

Lab Sample Number	Sample Code	Client Sample Description
2828252	WP701	X WP-SP701-112197 Grab Soil Sample
2828253	WP712	X WP-SP712-112197 Grab Soil Sample
2828254	MD01-	WP-SDMD01-112197 Grab Soil Sample
2828255	MD12-	WP-SDMD12-112197 Grab Soil Sample
2828256	10005	WP-SDDN10005-112197 Grab Soil Sample
2828257	10051	WP-SDDN10051-112197 Grab Soil Sample
2828258	20005	WP-SDDN20005-112197 Grab Soil Sample
2828259	20051	WP-SDDN20051-112197 Grab Soil Sample
2828260	OUT-1	WP-SDOUT01-112197 Grab Soil Sample
2828261	OUT12	WP-SDOUT12-112197 Grab Soil Sample
2828262	SL705	WP-SL705-112197 Grab Soil Sample
2828263	SL805	WP-SL805-112197 Grab Soil Sample
2828264	SL905	WP-SL905-112197 Grab Soil Sample
2828265	S1005	WP-SL1005-112197 Grab Soil Sample
2828266	S1105	WP-SL1105-112197 Grab Soil Sample
2828267	S1205	WP-SL1205-112197 Grab Soil Sample
2828268	SP501	X WP-SP501-112197 Grab Soil Sample
2828269	SP512	X WP-SP512-112197 Grab Soil Sample
2828270	SP601	X WP-SP601-112197 Grab Soil Sample
2828271	SP612	X WP-SP612-112197 Grab Soil Sample



LLI Sample No. SW 2828268

Collected: 11/21/97 at 09:35 by SL

Submitted: 11/22/97 Reported: 12/26/97  
Discard: 1/10/98

WP-SP501-112197 Grab Soil Sample

Ward RI - Project No. 17092.003  
SP501 SDG#: WRI01-17

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	8.4	2.0	mg/kg
1651	Chromium	113.	4.0	mg/kg
1655	Lead	35.	10.	mg/kg
1672	Zinc	253.	10.	mg/kg
6961	Nickel TR	154.	0.60	mg/kg
5895	Total Cyanide (solid)	1.30	0.12	mg/kg
0111	Moisture	17.1	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	2.6	1.0	mg/kg

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
12:16:33 D 0002 20 127551 592259  
232 0.00 00015450 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

43





LLI Sample No. SW 2828270

Collected: 11/21/97 at 10:00 by SL

Submitted: 11/22/97 Reported: 12/26/97  
Discard: 1/10/98

WP-SP601-112197 Grab Soil Sample

Ward RI - Project No. 17092.003  
SP601 SDG#: WRI01-19

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	LIMIT OF QUANTITATION	
1649	Cadmium	16.7	2.0	mg/kg
1651	Chromium	289.	4.0	mg/kg
1655	Lead	78.	10.	mg/kg
1672	Zinc	11,800.	100.	mg/kg
6961	Nickel TR	1,400.	0.60	mg/kg
5895	Total Cyanide (solid)	0.46	0.12	mg/kg
0111	Moisture	23.9	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 1.0	1.0	mg/kg

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
12:17:34 D 0002 20 127551 592259  
232 0.00 00015450 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

45







LLI Sample No. SW 2828252  
 Collected: 11/21/97 at 10:10 by SL

Submitted: 11/22/97 Reported: 12/26/97  
 Discard: 1/10/98

WP-SP701-112197 Grab Soil Sample

Ward RI - Project No. 17092.003  
 WP701 SDG#: WRI01-01

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Re1.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	26.7	2.0	mg/kg
1651	Chromium	307.	4.0	mg/kg
1655	Lead	102.	10.	mg/kg
1672	Zinc	3,580.	10.	mg/kg
6961	Nickel TR	1,700.	0.60	mg/kg
5895	Total Cyanide (solid)	1.69	0.13	mg/kg
0111	Moisture	12.9	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 1.0	1.0	mg/kg

1 COPY TO Normandeau Associates                      ATTN: Mr. Al Larson  
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick    at (717) 656-2300  
 12:04:18 D 0002 20                                      127551 592259  
 232 0.00 00015450 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

25



# Analysis Request / Environmental Services Chain of Custody



Lancaster Laboratories  
A division of Thermo Analytical Inc.

For Lancaster Laboratories use only

Acct. # 8863 Sample # 2828252-71

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: Normanton Assoc. Acct. #:  
Project Name#: WARD REI/17092.003 PWSID #:   
Project Manager: A. LORSON P.O. #:  
Sampler: A. LORSON/STEVE LEE Quote #:  
Name of state where samples were collected: NY

4

5

For lab use only	
FSC	
SCR #	
<u>CALC 6</u>	
<u>Pb2 EN 6</u>	
<u>Cr</u>	
<u>MOISTURE</u>	
<u>TCR 70</u>	

6

2

Sample ID	Date	Time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
WP-SL705-112197	11/21/97	1110	X	X				1	X	X	X	X											
WP-SL805-112197		1115						1															
WP-SL905-112197		1128						1															
WP-SL1005-112197		1140						1															
WP-SL1105-112197		1150						1															
WP-SL1205-112197		1200						1															
WP-SP501-112197		935						2										X					NOTE: PERFORM
WP-SP512-112197		940						2										X					TCR ONLY IF
WP-SP601-112197		1000						2										X					TOTAL CONC. > 70X
WP-SP612-112197		1020						2										X					TC STANDARD

3 Turnaround Time Requested (TAT) (please circle): Normal Rush  
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
Date results are needed: \_\_\_\_\_  
Rush results requested by (please circle): Phone: Fax  
Phone #: 603-472-5191 Fax #: 603-472-7652

9

Relinquished by:	Date	Time	Received by:	Date	Time
<u>A. Larson</u>	<u>11/21/97</u>	<u>8:20</u>	<u>Steve Lee</u>	<u>11/21/97</u>	<u>8:45</u>
<u>Steve Lee</u>	<u>11/21/97</u>				

Data Package Options (please circle if requested)

QC Summary	Type VI (Raw Data)	SDG Complete?
Type I (Tier I)	GLP	Yes No
Type II (Tier II)	Other <u>Other</u>	
Type III (No Red. Del.)	Site-specific QC required? Yes No (If yes, indicate QC sample and submit triplicate volume.)	
Type IV (CLP)	Internal Chain of Custody required? Yes No	

# Analytic Request, Environmental Services Chain of Custody



**Lancaster Laboratories**  
A division of Thermo Analytical Inc.

For Lancaster Laboratories use only

Acct. # 8863 Sample # 2828252-71

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: NORMANDEAN ASSOC Acct. #: \_\_\_\_\_  
 Project Name #: WARD RI/17092.003 PWSID #: \_\_\_\_\_  
 Project Manager: DeLorson PO #: \_\_\_\_\_  
 Sampler: DeLorson/STEVE LEE Quote #: \_\_\_\_\_  
 Name of state where samples were collected: NY

4

5

For lab use only

FSC: \_\_\_\_\_  
 SCR #: \_\_\_\_\_

6

*(Handwritten in diagonal lines):*  
 CELECECED  
 Pb, Zn, Ni  
 CN, CUDISI  
 MOISTURE  
 TCLP CDTPH  
 VOC + TPH  
 TCLP VOC

2

Sample Identification	Date Collected	Time Collected	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
WP-SP701-112197	11/2/97	1010	X	X	2														NOTE: PERFORM TCLP
WP-SP712-112197		1028			2														ONLY IF TOTAL CONC
WP-SDM001-112197		1215			1														20X TCL STANDARD
WP-SDM012-112197		1230			1														
WP-SDDN10005-112197		1440			1														
WP-SDDN10051-112197		1450			1														
WP-SDDN20005-112197		1505			1														
WP-SDDN20051-112197		1520			1														
WP-SDOUT01-112197		1315			2														
WP-SDOUT12-112197		1325			2														

7 Turnaround Time Requested (TAT) (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone Fax  
 Phone #: 603-472-5191 Fax #: 603-472-7052

Relinquished by: <u>[Signature]</u>	Date: <u>11/18/97</u>	Time: <u>8:25</u>	Received by: <u>[Signature]</u>	Date: <u>11/26/97</u>	Time: <u>8:45</u>
Relinquished by: <u>[Signature]</u>	Date: <u>11/19/97</u>	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: <u>[Signature]</u>	Date:	Time:

8 Data Package Options (please circle if requested)

QC Summary Type VI (Raw Data)  SDG Complete? Yes No  
 Type I (Tier I)  GLP  
 Type II (Tier II)  Other Site-specific QC required? Yes No  
 (If yes, indicate QC sample and submit triplicate volume.)  
 Type III (NJ Red. Del.) NYSDEC Internal Chain of Custody required? Yes No  
 Type IV (CLP) [Signature]



Experience is the solution

314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SP523-82599

Date sample received: 08/26/99

AES sample #: 990825BD10

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	198	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	22.9	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	171	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	290	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	720	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SP623-82599

Date sample received: 08/26/99

AES sample #: 990825BD11

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	21.4	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	1.40	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	11.5	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	52.5	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	126	ug/g	CG-I-3A-72	08/27/99



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### CHAIN OF CUSTODY RECORD

CLIENT NAME <i>NORMANDEAN ASSOC.</i>	PROJECT NAME (Location) <i>WARD PRODUCTS AMSTERDAM, NY</i>	SAMPLERS: (Names) <i>DE LARSON / STEVE LEE</i>
ADDRESS <i>25 NASHUA ROAD BEDFORD, NH 03110</i>	PO NUMBER	SAMPLERS: (Signature) <i>[Signature]</i>

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	COMB	GRAB		
<i>Q90825 B001</i>	<i>WP-SDCULE 0.2-82599</i>	<i>8/25/99</i>	<i>946</i>	A P	<i>SD</i>	<i>X</i>	<i>1</i>	<i>ALL SAMPLES TO BE ANALYZED FOR</i>
<i>B002</i>	<i>WP-SDCULE, 2.5-82599</i>	<i>[Large arrow pointing down]</i>	<i>954</i>	A P				<i>TOTAL CHROMIUM,</i>
<i>B003</i>	<i>WP-SDCULE, 51-82599</i>		<i>958</i>	A P				<i>HEXAVALENT CHROMIUM</i>
<i>B004</i>	<i>WP-SDCULW 0.2-82599</i>		<i>917</i>	A P				<i>CHLORIDE, CADMIUM,</i>
<i>B005</i>	<i>WP-SDCULW, 51-82599</i>		<i>933</i>	A P				<i>LEAD, NICKEL &amp;</i>
<i>B006</i>	<i>WP-SDCULW, 2.5-82599</i>		<i>923</i>	A P				<i>ZINC</i>
<i>B007</i>	<i>WP-SDDS400.2-82599</i>		<i>1020</i>	A P				
<i>B008</i>	<i>WP-SDDS400.51-82599</i>		<i>1030</i>	A P				
<i>B009</i>	<i>WP-SDDS400.2.5-82599</i>		<i>1027</i>	A P				
<i>B010</i>	<i>WP-SP523-082599</i>		<i>1307</i>	A P	<i>SOIL</i>			
<i>B011</i>	<i>WP-SP623-82599</i>		<i>1155</i>	A P				
<i>B012</i>	<i>WP-SP80.2-082599</i>		<i>1145</i>	A P				
<i>B013</i>	<i>WP-SP 8.21-082599</i>		<i>1205</i>	A P				

Turnaround Time:

*NORMAL*

Laboratory Approval:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <i>[Signature]</i>
Method of Shipment: <i>DROP OFF</i>	Send Report To: <i>DE LARSON</i>	Date/Time <i>8/25/99 18:15</i>
		Client Phone No.: <i>603-472-5191</i>

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy

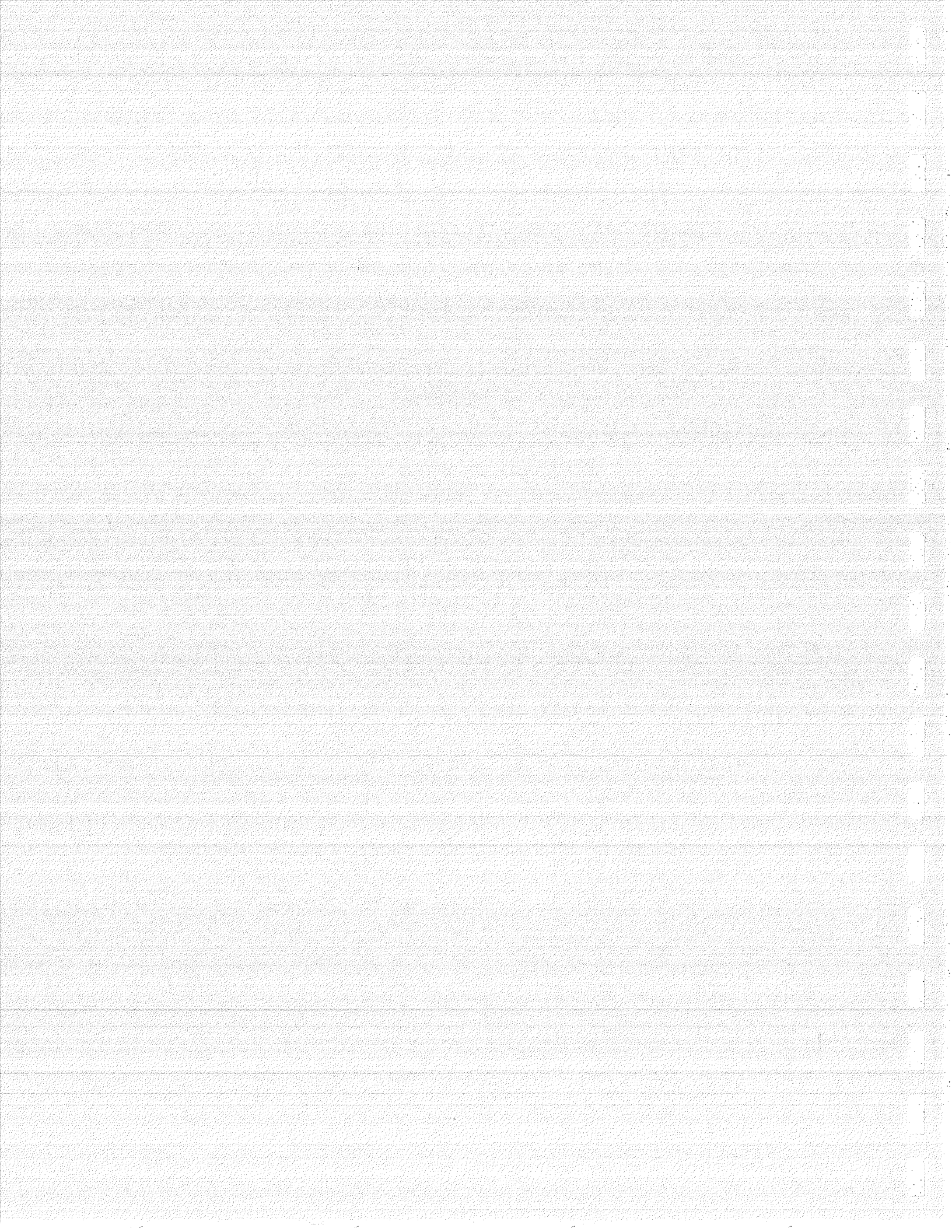
YELLOW - Sampler Copy

PINK - Generator Copy



**APPENDIX C**

**SOIL SAMPLES COLLECTED  
FROM THE EXTERIOR OF THE  
MANUFACTURING BUILDING**







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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP80.2-082599  
AES sample #: 990825BD12  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	120	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	13.9	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	103	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	225	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	660	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SP8.21-082599

Date sample received: 08/26/99

AES sample #: 990825BD13

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	96.5	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	7.90	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	113	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	183	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	381	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates Date Sampled: 08/25/99  
 CLIENT'S SAMPLE ID: WP-SP90.2-082599 Date sample received: 08/26/99  
 AES sample #: 990825BD14 Samples taken by: A.L./S.L. Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	250	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	36.6	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	154	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	251	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	760	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SP9.21-082599

Date sample received: 08/26/99

AES sample #: 990825BD15

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	472	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	54.5	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	430	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	740	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	1240	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates Date Sampled: 08/25/99  
 CLIENT'S SAMPLE ID: WP-SP812-082599 Date sample received: 08/26/99  
 AES sample #: 990825BD16 Samples taken by: A.L./S.L. Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	13.2	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	0.35	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	11.1	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	21.5	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	63.0	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SP10.21-082599  
 AES sample #: 990825BD19

Date Sampled: 08/25/99  
 Date sample received: 08/26/99  
 Samples taken by: A.L./S.L.  
 Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	447	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	60.5	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	280	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	725	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	1120	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP911.5-082599  
AES sample #: 990825BD20  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-H-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	75.0	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	14.9	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	117	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	99.0	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	195	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SP110.2-082599  
 AES sample #: 990825BD21

Date Sampled: 08/25/99  
 Date sample received: 08/26/99

Samples taken by: A.L./S.L.  
 MATRIX: Soil

Location: Ward Products  
 grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	810	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	59.5	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	318	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	1750	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	2020	ug/g	CG-I-3A-72	08/27/99





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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP11.21-082599  
AES sample #: 990825BD22  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	735	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	61.5	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	354	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	1760	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	2080	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP1111.3-082599  
AES sample #: 990825BD23  
Samples taken by: A.L./S.L.  
MATRIX: Soil

Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	565	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	50.0	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	265	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	845	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	1290	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SP120.2-082599  
 AES sample #: 990825BD24

Samples taken by: A.L./S.L.  
 MATRIX: Soil

Date Sampled: 08/25/99  
 Date sample received: 08/26/99  
 Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	206	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	26.6	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	65.0	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	262	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	362	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SP12.21-082599  
 AES sample #: 990825BD25  
 Samples taken by: A.L./S.L.  
 MATRIX: Soil

Date Sampled: 08/25/99  
 Date sample received: 08/26/99  
 Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	0.56	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	299	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	25.0	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	71.0	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	338	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	444	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP1212-082599  
AES sample #: 990825BD26  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	224	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	22.6	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	50.0	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	169	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	282	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SP1222.5-082599

Date sample received: 08/26/99

AES sample #: 990825BD27

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	382	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	42.7	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	193	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	510	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	860	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates Date Sampled: 08/25/99  
 CLIENT'S SAMPLE ID: WP-SP130.2-082599 Date sample received: 08/26/99  
 AES sample #: 990825BD28 Samples taken by: A.L./S.L. Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	111	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	46.2	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	24.5	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	100	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	187	ug/g	CG-I-3A-73	08/30/99

*IN THE REPORT  
SAMPLE 13A*



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP130.21-82599  
AES sample #: 990825BD29  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	HC-D	09/02/99
Chromium	EPA-6010	146	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	21.0	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	39.2	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	174	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	246	ug/g	CG-I-3A-73	08/30/99





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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP1311.7-082599  
AES sample #: 990825BD30  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	29.6	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	3.30	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	11.4	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	30.5	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	133	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SP1322.5-082599

Date sample received: 08/26/99

AES sample #: 990825BD31

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	134	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	6.25	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	15.1	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	48.3	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	146	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SP140.2-082599

Date sample received: 08/26/99

AES sample #: 990825BD32

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	280	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	30.2	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	84	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	290	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	420	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP140.21-082599  
AES sample #: 990825BD33

Date Sampled: 08/25/99  
Date sample received: 08/26/99

Samples taken by: A.L./S.L.  
MATRIX: Soil

Location: Ward Products  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	206	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	87.0	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	41.8	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	171	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	515	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SP1412-082599  
 AES sample #: 990825BD34

Date Sampled: 08/25/99  
 Date sample received: 08/26/99  
 Location: Ward Products grab

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	19.1	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	0.95	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	12.3	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	23.6	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	64.5	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SP1423-082599

Date sample received: 08/26/99

AES sample #: 990825BD35

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	18.0	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	1.50	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	10.2	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	25.0	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	61.0	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP150.2-082599  
AES sample #: 990825BD36  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	207	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	24.1	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	80.5	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	221	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	331	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP15.21-082599  
AES sample #: 990825BD37  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	0.54	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	885	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	66.0	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	300	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	855	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	1100	ug/g	CG-I-3A-73	08/30/99





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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP160.2-082599  
AES sample #: 990825BD38  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	409	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	37.8	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	110	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	414	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	880	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP16.21-082599  
AES sample #: 990825BD39  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	0.44	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	695	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	61	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	208	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	1120	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	1010	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SP170.2-082599  
AES sample #: 990825BD40  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	302	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	33.0	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	122	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	349	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	515	ug/g	CG-I-3A-73	08/30/99



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SP17.21-082599  
 AES sample #: 990825BD41

Date Sampled: 08/25/99  
 Date sample received: 08/26/99  
 Location: Ward Products grab

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-41	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	479	ug/g	CG-I-3A-73	08/30/99
Cadmium	EPA-6010	44.4	ug/g	CG-I-3A-73	08/30/99
Lead	EPA-6010	160	ug/g	CG-I-3A-73	08/30/99
Nickel	EPA-6010	427	ug/g	CG-I-3A-73	08/30/99
Zinc	EPA-6010	800	ug/g	CG-I-3A-73	08/30/99

APPROVED BY:   
 Report date: 09/08/99



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### CHAIN OF CUSTODY RECORD

CLIENT NAME <b>NORMANDEAU ASSOC.</b>	PROJECT NAME (Location) <b>WARD PRODUCTS AMSTERDAM, NY</b>	SAMPLERS: (Names) <b>AL LARSON / STEVE LEE</b>
ADDRESS <b>25 NASHUA ROAD SEDFORD, NH 03110</b>	PO NUMBER	SAMPLERS (Signature) <i>[Signature]</i>

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A = a.m. P = p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	SOIL	SLURRY		
990825 BD01	WP-SDCULE 0.2-82599	8/25/99	946	A P	SO	X	1	ALL SAMPLES TO BE ANALYZED FOR
BD02	WP-SDCULE 2.5-82599	↓	954	A P				TOTAL CHROMIUM,
BD03	WP-SDCULE 5.1-82599		958	A P				HEXAVALENT CHROMIUM, COPPER, CADMIUM
BD04	WP-SDCULW 0.2-82599		917	A P				LEAD, NICKEL &
BD05	WP-SDCULW 5.1-82599		933	A P				ZINC
BD06	WP-SDCULW 2.5-82599		925	A P				
BD07	WP-SDS400 0.2-82599		1020	A P				
BD08	WP-SDS400 5.1-82599		1030	A P				
BD09	WP-SDS400 2.5-82599		1027	A P				
BD10	WP-SP523-082599		1307	A P	SOIL			
BD11	WP-SP623-82599		1155	A P				
BD12	WP-SP80.2-082599		1145	A P				
BD13	WP-SP 8.21-082599		1205	A P				

Turnaround Time: <b>NORMAL</b>	Laboratory Approval:
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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <i>[Signature]</i>	Date/Time 8/25/99 18:15
Method of Shipment: <b>DROP OFF</b>	Send Report To: <b>AL LARSON</b>	Client Phone No.:	603-472-5191

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy





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### CHAIN OF CUSTODY RECORD

CLIENT NAME <i>NORMANDEAN ASSOC.</i>	PROJECT NAME (Location) <i>WARD PRODUCTS AMSTERDAM, NY</i>	SAMPLERS: (Names) <i>AL LARSON / STEVE LEE</i>
ADDRESS <i>25 NASHUA ROAD BEDFORD, NH 03110</i>	PO NUMBER	SAMPLERS: (Signature) <i>[Signature]</i>

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED	
				MATRIX	CONC	GRAB			
990825 BD14	WP-SP90.2-082599	8/25/99	1215	A	SOIL		x	1	ALL SAMPLES TO BE
BD15	WP-SP9.21-082599		1230	A					ANALYZED FOR:
BD16	WP-SP812-082599		1440	A					TOTAL CHROMIUM,
BD17	WP-SP822.5-082599		1524	A					HEXAVALENT CR,
BD18	WP-SP100.2-082599		1241	A					CYANIDE, CADMIUM
BD19	WP-SP10.21-082599		1310	A					LEAD, NICKEL B
BD20	WP-SP911.5-082599		150	A					ZINC
BD21	WP-SP110.2-082599		1258	A					
BD22	WP-SP11.21-082599		1325	A					
BD23	WP-SP111.3-082599		1336	A					
BD24	WP-SP120.2-082599		1330	A					
BD25	WP-SP12.21-082599		1357	A					
BD26	WP-SP1212-082599		1532	A					

Turnaround Time: *NORMAL*      Laboratory Approval:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <i>[Signature]</i>	Date/Time <i>8/25/99 15:15</i>
Method of Shipment: <i>DROP OFF</i>	Send Report To: <i>AL LARSON</i>	Client Phone No.: <i>603-472-5191</i>	

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

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**CHAIN OF CUSTODY RECORD**

CLIENT NAME NORMANDEAU B350L	PROJECT NAME (Location) WIND PRODUCTS AMSTERDAM, NY	SAMPLERS: (Names) ALLANSON / STEVE LEE
ADDRESS 25 NOSHUB ROAD BEDFORD, NH 03110	PO NUMBER	SAMPLERS: (Signature) <i>[Signature]</i>

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED	
				MATRIX	COMP	GRAB			
990825 BD27	WP-SF1222.5-082599	8/25/99	537	A P	SOIL		X	1	ALL SAMPLES TO BE ANALYZED FOR:
BD28	WP-SF130.2-082599		1345	A P					TOTAL CHROMIUM,
BD29	WP-SF130.21-082599		1357	A P					HEX CHROMIUM,
BD30	WP-SF1311.7-082599		1409	A P					CYANIDE, CADMIUM,
BD31	WP-SF1322.5-082599		1553	A P					LEAD, NICKEL & ZINC.
BD32	WP-SF140.2-082599		1352	A P					
BD33	WP-SF140.21-082599		1402	A P					
BD34	WP-SF1412-082599		1444	A P					
BD35	WP-SF1423-082599		1443	A P					
BD36	WP-SF150.2-082599		1603	A P					
BD37	WP-SF15.21-082599		1606	A P					
BD38	WP-SF160.2-082599		1612	A P					
BD39	WP-SF16.21-082599		1616	A P					

Turnaround Time: NORMAL Laboratory Approval:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: <i>[Signature]</i>	Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <i>[Signature]</i>
Method of Shipment: <u>DROP OFF</u>	Send Report To: <u>ALLANSON</u>	Date/Time <u>8/25/99 18:15</u>
		Client Phone No.: <u>603-472-5191</u>

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

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**CHAIN OF CUSTODY RECORD**

CLIENT NAME <i>NORMAN DEAN ASSOCIATES</i>	PROJECT NAME (Location) <i>WARP PRODUCTS AMSTERDAM NY</i>	SAMPLERS: (Names) <i>AL LARSON / STEVE LEE</i>
ADDRESS <i>25 NASHUA ROAD BEEFORD NH 03110</i>	PO NUMBER	SAMPLERS: (Signature) <i>[Signature]</i>

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	COMP	GRAB		
<i>990825 BD40</i>	<i>WP-SP170.2-082599</i>	<i>8/25/99</i>	<i>1620</i>	A P	<i>SOIL</i>	<input checked="" type="checkbox"/>	<i>1</i>	<i>ALL SAMPLES TO BE ANALYZED FOR:</i>
<i>BD41</i>	<i>WP-SP17.21-082599</i>	<i>6</i>	<i>1625</i>	A P	<i>↓</i>	<input checked="" type="checkbox"/>	<i>↓</i>	<i>TOTAL CHROMIUM, HEX CHROMIUM, CYANIDE, CADMIUM, LEAD, NICKEL  3 ZINC</i>
				A P				
				A P				
				A P				
				A P				
				A P				
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				A P				
				A P				

Turnaround Time: *NORMAL* Laboratory Approval:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <i>[Signature]</i>	Date/Time <i>8/25/99 18:15</i>
Method of Shipment: <i>DROP OFF</i>	Send Report To: <i>AL LARSON</i>	Client Phone No.: <i>603-472-5191</i>	

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy      YELLOW - Sampler Copy      PINK - Generator Copy





Sample Reference List for SDG # WRD01  
with a NYSDEC Package Type

Lab Sample Number	Sample Code	Client Sample Description
2738358	SLEX1	X WP-SLEX1-070297 Grab Soil Sample
2738359	SLEX2	X WP-SLEX2-070297 Grab Soil Sample
2738360	SLEDP	X WP-SLEDP-070297 Grab Soil Sample
2738361	SLEX3	X WP-SLEX3-070297 Grab Soil Sample
2738362	SLEX4	X WP-SLEX4-070297 Grab Soil Sample
2738363	SLEX5	X WP-SLEX5-070297 Grab Soil Sample
2738364	SLEX6	X WP-SLEX6-070297 Grab Soil Sample
2738365	SPA1-	WP-SLSPA1-070297 Grab Soil Sample
2738366	SPA2-	WP-SLSPA2-070297 Grab Soil Sample
2738367	SPB1-	WP-SLSPB1-070297 Grab Soil Sample
2738368	SPB2-	WP-SLSPB2-070297 Grab Soil Sample
2738369	SPB3-	WP-SLSPB3-070297 Grab Soil Sample
2738370	SPC1-	WP-SLSPC1-070397 Grab Soil Sample
2738371	SPC2-	WP-SLSPC2-070397 Grab Soil Sample
2738372	SPD1-	WP-SLSPD1-070397 Grab Soil Sample
2738373	SPD2-	WP-SLSPD2-070397 Grab Soil Sample
2738374	SPE1-	WP-SLSPE1-070397 Grab Soil Sample
2738375	SPE2-	WP-SLSPE2-070397 Grab Soil Sample
2738376	LSPD-	WP-SLSPDP-070397 Grab Soil Sample
2738377	LVDG-	WP-SLVDG1-070397 Grab Soil Sample



LLI Sample No. SW 2738358  
 Collected: 7/ 2/97 at 10:25 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
 Discard: 8/ 4/97

WP-SLEX1-070297 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 SLEX1 SDG#: WRD01-01

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	DETECTION	METHOD LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1649	Cadmium	2.1	0.13	mg/kg	2.2	0.13
1651	Chromium	66.3	0.47	mg/kg	68.6	0.49
1655	Lead	19.	2.4	mg/kg	20.	2.5
1661	Nickel	60.9	0.46	mg/kg	63.0	0.48
1672	Zinc	141.	0.40	mg/kg	146.	0.41
5895	Total Cyanide (solid)	0.16	0.099	mg/kg	0.17	0.10
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.						
0111	Moisture	3.33	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	5.8	2.0	mg/kg	6.0	2.1

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:25:11 D 0002 20 572236  
 609 90.00 00024200 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

25



**LLI Sample No. SW 2738359**

Collected: 7/ 2/97 at 10:52 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
Discard: 8/ 4/97

WP-SLEX2-070297 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
SLEX2 SDG#: WRD01-02

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT		
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD	DETECTION LIMIT
1649	Cadmium	1.71	J	0.13 mg/kg	1.78	J	0.13
1651	Chromium	63.9		0.47 mg/kg	66.2		0.49
1655	Lead	17.		2.4 mg/kg	18.		2.5
1661	Nickel	48.3		0.46 mg/kg	50.1		0.48
1672	Zinc	105.		0.40 mg/kg	108.		0.41
5895	Total Cyanide (solid)	N.D.		0.097 mg/kg	N.D.		0.10
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.							
0111	Moisture	3.54		0.080 % by wt.			
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.							
0425	Hexavalent Chromium (SOLIDS)	7.4		2.0 mg/kg	7.7		2.1

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:25:32 D 0002 20 572236  
609 90.00 00024200 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2738360  
 Collected: 7/ 2/97 at 10:50 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
 Discard: 8/ 4/97

WP-SLEXDP-070297 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 SLEDP SDG#: WRD01-03

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	DETECTION	METHOD LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1649	Cadmium	2.0	0.13	mg/kg	2.1	0.13
1651	Chromium	57.0	0.47	mg/kg	59.1	0.49
1655	Lead	17.	2.4	mg/kg	18.	2.5
1661	Nickel	51.8	0.46	mg/kg	53.7	0.48
1672	Zinc	120.	0.40	mg/kg	124.	0.41
5895	Total Cyanide (solid)	0.120 J	0.098	mg/kg	0.12 J	0.10
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.						
0111	Moisture	3.59	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	6.1	2.0	mg/kg	6.4	2.1

1 COPY TO Normandeu Associates                      ATTN: Mr. Al Larson  
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick                      at (717) 656-2300  
 19:25:55 D 0002 20                      572236  
 609 90.00 00024200 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





LLI Sample No. SW 2738361

Collected: 7/ 2/97 at 11:27 by AL

Submitted: 7/ 7/97 Reported: 7/24/97

Discard: 8/ 4/97

WP-SLEX3-070297 Grab Soil Sample

Project #17092.003

Ward Products - NY

SLEX3 SDG#: WRD01-04

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT		
		RESULTS	DETECTION	METHOD LIMIT UNITS	RESULTS	DETECTION	METHOD LIMIT
1649	Cadmium	186.	0.13	mg/kg	206.	0.14	
1651	Chromium	454.	0.47	mg/kg	502.	0.52	
1655	Lead	70.	2.4	mg/kg	77.	2.7	
1661	Nickel	749.	0.46	mg/kg	828.	0.51	
1672	Zinc	1,590.	0.40	mg/kg	1,760.	0.44	
5895	Total Cyanide (solid)	8.01	0.099	mg/kg	8.85	0.11	
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.							
0111	Moisture	9.55	0.080	% by wt.			
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.							
0425	Hexavalent Chromium (SOLIDS)	10.5	0.40	mg/kg	11.6	0.44	

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 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:26:17 D 0002 20 572236  
 609 90.00 00024200 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2738362

Collected: 7/ 2/97 at 11:54 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
Discard: 8/ 4/97

WP-SLEX4-070297 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
SLEX4 SDG#: WRD01-05

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD DETECTION LIMIT	UNITS	RESULTS	METHOD DETECTION LIMIT
1649	Cadmium	N.D.	0.13	mg/kg	N.D.	0.14
1651	Chromium	14.2	0.47	mg/kg	15.3	0.50
1655	Lead	15.0	2.4	mg/kg	16.	2.5
1661	Nickel	13.2	0.46	mg/kg	14.2	0.49
1672	Zinc	49.2	0.40	mg/kg	53.	0.42
5895	Total Cyanide (solid)	0.13	0.098	mg/kg	0.14	0.10
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.						
0111	Moisture	6.65	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	N.D.	4.0	mg/kg	N.D.	4.3
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.						

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:26:35 D 0002 20 572236  
609 90.00 00024200 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

29



LLI Sample No. SW 2738363

Collected: 7/ 2/97 at 12:35 by AL

Submitted: 7/ 7/97 Reported: 7/24/97  
Discard: 8/ 4/97

WP-SLEX5-070297 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
SLEX5 SDG#: WRD01-06

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	DETECTION	METHOD LIMIT UNITS	RESULTS	METHOD DETECTION LIMIT
1649	Cadmium	N.D.	0.13	mg/kg	N.D.	0.14
1651	Chromium	14.5	0.47	mg/kg	15.9	0.51
1655	Lead	11.	2.4	mg/kg	12.	2.6
1661	Nickel	18.5	0.46	mg/kg	20.3	0.50
1672	Zinc	111.	0.40	mg/kg	122.	0.44
5895	Total Cyanide (solid)	N.D.	0.097	mg/kg	N.D.	0.11
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.						
0111	Moisture	8.64	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	N.D.	2.0	mg/kg	N.D.	2.2
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.						

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:26:50 D 0002 20 572236  
 609 90.00 00024200 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



LLI Sample No. SW 2738364

Collected: 7/ 2/97 at 12:45 by AL

Submitted: 7/ 7/97 Reported: 7/24/97

Discard: 8/ 4/97

WP-SLEX6-070297 Grab Soil Sample

Project #17092.003

Ward Products - NY

SLEX6 SDG#: WRD01-07

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	METHOD	DETECTION LIMIT UNITS	RESULTS	METHOD
1649	Cadmium	N.D.	0.13	mg/kg	N.D.	0.15
1651	Chromium	12.1	0.47	mg/kg	13.8	0.54
1655	Lead	8.2 J	2.4	mg/kg	9.3 J	2.7
1661	Nickel	17.2	0.46	mg/kg	19.7	0.53
1672	Zinc	48.	0.40	mg/kg	55.	0.46
5895	Total Cyanide (solid)	N.D.	0.098	mg/kg	N.D.	0.11
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 59% and 53%. The acceptance window for this analysis is 75% to 125%. Post digest spiking of the background sample yielded recoveries of 102% and 103%. This suggests the presence of a matrix interference during the distillation step of the analysis.						
0111	Moisture	12.7	0.080	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	N.D.	0.40	mg/kg	N.D.	0.46

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:27:03 D 0002 20 572236  
 609 90.00 00024200 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates







2738358-77  
 2738293-99  
 2738404-23  
 2738434-43  
 2738448-64

For Lancaster Laboratories use only  
 Acct. # 8863 Sample # \_\_\_\_\_

Please print. Instructions on reverse side correspond with circled numbers.

Client: Norman Assoc. Acct. #: \_\_\_\_\_  
 Project Name/ID: WARD / 17692.003 PWSID #: \_\_\_\_\_  
 Project Manager: ALLANSON P.O.# \_\_\_\_\_  
 Sampler: A. LARSON / STEVE LEE Quote #: \_\_\_\_\_  
 Name of state where samples were collected: New York

Matrix: 4  
 Total of containers: \_\_\_\_\_

Analyses Requested: 5  
 CADMIUM, CHROMIUM (TOT+HEX), CYANIDE, MOISTURE, LEAD, NICKEL, ZINC, VOCs

For lab use only  
 FSC: \_\_\_\_\_  
 SCR #: 1099652

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water Potable (Grav)	Water W/TPDES	Other	Total of containers	Analyses Requested	Remarks
WP-SLEX1-070297	7/2/97	1025	X		X				1	X X X X X X X	Total + TCLPM & A1
WP-SLEX2-070297		1052									
WP-SLEX DP - 070297		1050									
WP-SLEX3-070297		1129									
WP-SLEX4-070297		1154									
WP-SLEX5-070297		1235									
WP-SLEX6-070297		1245									
WP-SLSPA1-070297		1500							4		TOTAL + TCLP Metals AND
WP-SLSPA2-070297		1655									TOTAL + TCLP VOCs
WP-SLSPB1-070297		1813									

Turnaround Time Requested (TAT) (please circle: Normal Rush)  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone Fax  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Data Package Options (please circle if requested)  
 QC Summary Type VI (Raw Data) Type I (Tier I) Type II (Tier II) Type III (NJ Red. Del.) Type IV (CLP) NY ASP/ATB  
 Type I (Tier I) GLP  
 Type II (Tier II) Other  
 Site-specific QC required? Yes No  
 (If yes, indicate QC sample and submit triplicate volume.)  
 Internal Chain of Custody required? Yes No

SDG Complete? Yes No

Relinquished by: <u>[Signature]</u>	Date: <u>6-22-97</u>	Time: <u>1630</u>	Received by: <u>[Signature]</u>	Date: <u>6/14/97</u>	Time: <u>805</u>
Relinquished by: <u>[Signature]</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>	Received by: <u>[Signature]</u>	Date: <u>7/5/97</u>	Time: <u>1135</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>Harlan Collins</u>	Date: <u>7/1/97</u>	Time: <u>0925</u>

Sample Reference List for SDG # WRI01  
with a Package Type of NYSDEC

Lab Sample Number	Sample Code	Client Sample Description
-----	-----	-----
2828252	WP701	WP-SP701-112197 Grab Soil Sample
2828253	WP712	WP-SP712-112197 Grab Soil Sample
2828254	MD01-	WP-SDMD01-112197 Grab Soil Sample
2828255	MD12-	WP-SDMD12-112197 Grab Soil Sample
2828256	10005	WP-SDDN10005-112197 Grab Soil Sample
2828257	10051	WP-SDDN10051-112197 Grab Soil Sample
2828258	20005	WP-SDDN20005-112197 Grab Soil Sample
2828259	20051	WP-SDDN20051-112197 Grab Soil Sample
2828260	OUT-1	WP-SDOUT01-112197 Grab Soil Sample
2828261	OUT12	WP-SDOUT12-112197 Grab Soil Sample
2828262	SL705	X WP-SL705-112197 Grab Soil Sample
2828263	SL805	X WP-SL805-112197 Grab Soil Sample
2828264	SL905	X WP-SL905-112197 Grab Soil Sample
2828265	S1005	X WP-SL1005-112197 Grab Soil Sample
2828266	S1105	X WP-SL1105-112197 Grab Soil Sample
2828267	S1205	X WP-SL1205-112197 Grab Soil Sample
2828268	SP501	WP-SP501-112197 Grab Soil Sample
2828269	SP512	WP-SP512-112197 Grab Soil Sample
2828270	SP601	WP-SP601-112197 Grab Soil Sample
2828271	SP612	WP-SP612-112197 Grab Soil Sample



**LLI Sample No. SW 2828262**

Collected: 11/21/97 at 11:10 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SL705-112197 Grab Soil Sample

Ward RI - Project No. 17092.003

SL705 SDG#: WRI01-11

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	< 2.0	2.0	mg/kg
1651	Chromium	22.2	4.0	mg/kg
1655	Lead	16.	10.	mg/kg
1672	Zinc	150.	10.	mg/kg
6961	Nickel TR	37.0	0.60	mg/kg
5895	Total Cyanide (solid)	< 0.12	0.12	mg/kg
0111	Moisture	19.9	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 10.	10.	mg/kg
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.				

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 12:12:12 D 0002 20 127551 592259  
 232 0.00 00015450 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

37



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 2425 New Holland Pike  
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 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2828263

Collected: 11/21/97 at 11:15 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SL805-112197 Grab Soil Sample

Ward RI - Project No. 17092.003

SL805 SDG#: WRI01-12

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	5.1	2.0	mg/kg
1651	Chromium	101.	4.0	mg/kg
1655	Lead	55.	10.	mg/kg
1672	Zinc	239.	10.	mg/kg
6961	Nickel TR	277.	0.60	mg/kg
5895	Total Cyanide (solid)	< 0.12	0.12	mg/kg
0111	Moisture	15.6	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 5.0	5.0	mg/kg
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.				

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
12:13:05 D 0002 20 127551 592259  
232 0.00 00015450 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

38



LLI Sample No. SW 2828264

Collected: 11/21/97 at 11:28 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SL905-112197 Grab Soil Sample

Ward RI - Project No. 17092.003

SL905 SDG#: WRI01-13

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	26.3	2.0	mg/kg
1651	Chromium	157.	4.0	mg/kg
1655	Lead	198.	10.	mg/kg
1672	Zinc	634.	10.	mg/kg
6961	Nickel TR	234.	0.60	mg/kg
5895	Total Cyanide (solid)	0.18	0.12	mg/kg
0111	Moisture	19.8	0.50	% by wt.
	*Moisture* represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
0425	Hexavalent Chromium (SOLIDS)	< 5.0	5.0	mg/kg
	Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.			

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 12:14:04 D 0002 20 127551 592259  
 232 0.00 00015450 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

39



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2828265

Collected: 11/21/97 at 11:40 by SL

Submitted: 11/22/97 Reported: 12/26/97  
Discard: 1/10/98

WP-SL1005-112197 Grab Soil Sample

Ward RI - Project No. 17092.003  
S1005 SDG#: WRI01-14

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	< 2.0	2.0	mg/kg
1651	Chromium	12.3	4.0	mg/kg
1655	Lead	14.	10.	mg/kg
1672	Zinc	60.	10.	mg/kg
6961	Nickel TR	12.5	0.60	mg/kg
5895	Total Cyanide (solid)	0.24	0.12	mg/kg
0111	Moisture	24.7	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 10.	10.	mg/kg
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.				

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
12:14:43 D 0002 20 127551 592259  
232 0.00 00015450 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

40



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2828266

Collected: 11/21/97 at 11:50 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SL1105-112197 Grab Soil Sample

Ward RI - Project No. 17092.003

S1105 SDG#: WRI01-15

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	< 2.0	2.0	mg/kg
1651	Chromium	13.4	4.0	mg/kg
1655	Lead	17.	10.	mg/kg
1672	Zinc	48.	10.	mg/kg
6961	Nickel TR	13.3	0.60	mg/kg
5895	Total Cyanide (solid)	0.13	0.12	mg/kg
0111	Moisture	28.4	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 10.	10.	mg/kg
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.				

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
12:15:27 D 0002 20 127551 592259  
232 0.00 00015450 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

41





LLI Sample No. SW 2828267

Collected: 11/21/97 at 12:00 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SL1205-112197 Grab Soil Sample

Ward RI - Project No. 17092.003

S1205 SDG#: WRI01-16

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	< 2.0	2.0	mg/kg
1651	Chromium	11.5	4.0	mg/kg
1655	Lead	18.	10.	mg/kg
1672	Zinc	40.	10.	mg/kg
6961	Nickel TR	12.5	0.60	mg/kg
5895	Total Cyanide (solid)	0.14	0.12	mg/kg
0111	Moisture	28.7	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 10.	10.	mg/kg
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.				

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 12:16:01 D 0002 20 127551 592259  
 232 0.00 00015450 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

42





For Lancaster Laboratories use only

Acct. # 8863 Sample # 2828252-71



Please print. Instructions on reverse side correspond with circled numbers.

Client: NORMAN OGAN ASSOC Acct. #: \_\_\_\_\_  
 Project Name/#: WARD RI/17092.003 PWSID #: \_\_\_\_\_  
 Project Manager: D. LARSON P.O. #: \_\_\_\_\_  
 Sampler: D. LARSON / STEVE LEE Quote #: \_\_\_\_\_  
 Name of state where samples were collected: NY

For lab use only

FSC: \_\_\_\_\_

SCR #: \_\_\_\_\_

1  
CALCULATED  
2  
PHENOL  
3  
CUMULATIVE  
4  
MOISTURE  
5  
TCLO & PHENOL  
6  
VOC + TPH  
7  
TCLO VOC

6

Sample ID	Date	Time	1	2	3	4	5	6	7	8	9	Notes	
WP-4701-112197	11/2/97	1010	X	X					2				NOTE: PERFORM TCLO
WP-SP712-11297		1028							2				ONLY IF TOTAL CONC
WP-SDM001-112197		1215							1				20X TC STANDARD
WP-SDM012-112197		1230							1				
WP-SDDN10005-112197		1440							1				
WP-SDDN10051-112197		1440							1				
WP-SDDN20005-112197		1505							1				
WP-SDDN20051-112197		1520							1				
WP-SDOUT01-112197		1315							2				
WP-SDOUT12-112197	Y	1325							2				

Turnaround Time Requested (TAT) (please circle): Normal Rush \_\_\_\_\_  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: \_\_\_\_\_  
 Rush results requested by (please circle): Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 Phone #: 603-472-5191 Fax #: 603-472-7052

Data Package Options (please circle if requested):  
 QC Summary: Type I (Tier I)  Type VI (Raw Data)  SDG Complete? Yes  No   
 Type II (Tier II)  Other  Site-specific QC required? Yes  No   
 Type III (NJ Red. Del.)  Internal Chain of Custody required? Yes  No   
 Type IV (CLP)  NY/SDOC  OR IS

Relinquished by: <u>KO CAMP</u>	Date: <u>11/16/97</u>	Time: <u>8:25</u>	Received by: <u>Al Larson</u>	Date: <u>11/16/97</u>	Time: <u>8:45</u>
Relinquished by: <u>D. Larson</u>	Date: <u>11/2/97</u>	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Arthur [Signature] 11/29/97



**Lancaster Laboratories**

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Sample Reference List for SDG # WAR13  
with a Package Type of NYSDEC

Lab Sample Number	Sample Code	Client Sample Description
2863367	L1305	WP-SL1305-012298 Grab Soil Sample
2863368	L1405	WP-SL1405-012298 Grab Soil Sample
2863369	L1505	WP-SL1505-012298 Grab Soil Sample
2863370	L1601	WP-SL1601-012398 Grab Soil Sample
2863371	L1612	WP-SL1612-012398 Grab Soil Sample
2863372	L1701	WP-SL1701-012398 Grab Soil Sample
2863373	L1712	WP-SL1712-012398 Grab Soil Sample
2863374	L1801	WP-SL1801-012398 Grab Soil Sample
2863375	L1812	WP-SL1812-012398 Grab Soil Sample
2863376	L1901	WP-SL1901-012398 Grab Soil Sample
2863377	L1912	WP-SL1912-012398 Grab Soil Sample
2863378	L0312	WP-SL0312-012398 Grab Soil Sample
2863379	L2001	WP-SL2001-012398 Grab Soil Sample
2863380	L2101	WP-SL2101-012398 Grab Soil Sample

Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Shipping Address:  
Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17601  
717-656-2300 Fax: 717-656-2681

Environmental • Foods • Pharmaceuticals



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LLI Sample No. SW 2863367

Collected: 1/22/98 at 17:20 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL1305-012298 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1305 SDG#: WAR13-01

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	6.9	2.0	mg/kg	7.8	2.2
1651	Chromium	120.	3.9	mg/kg	135.	4.4
1655	Lead	44.4	9.8	mg/kg	50.	11.
1672	Zinc	210.	9.8	mg/kg	236.	11.
6961	Nickel TR	113.	0.59	mg/kg	127.	0.66
0111	Moisture	11.2	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	5.2	1.0	mg/kg	5.8	1.1

1 COPY TO Normandeu Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:42:29 D 0002 14 599971  
 278 75.00 00019100 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





**LLI Sample No. SW 2863368**

Collected: 1/22/98 at 17:35 by SL

Submitted: 1/26/98 Reported: 2/18/98  
Discard: 3/1/98

WP-SL1405-012298 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
L1405 SDG#: WAR13-02

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	8.5	2.0	mg/kg	9.5	2.2
1651	Chromium	460.	3.9	mg/kg	510.	4.3
1655	Lead	19.7	9.8	mg/kg	22.	11.
1672	Zinc	200.	9.8	mg/kg	222.	11.
6961	Nickel TR	895.	0.59	mg/kg	991.	0.65
0111	Moisture	9.78	0.50	% by wt.		
	*Moisture* represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	9.2	1.0	mg/kg	10.2	1.1

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
21:42:52 D 0002 14 599971  
278 75.00 00019100 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863369

Collected: 1/22/98 at 17:50 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL1505-012298 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1505 SDG#: WAR13-03

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	26.1	1.9	mg/kg	28.9	2.1
1651	Chromium	114.	3.9	mg/kg	126.	4.3
1655	Lead	27.1	9.7	mg/kg	30.	11.
1672	Zinc	185.	9.7	mg/kg	204.	11.
6961	Nickel TR	130.	0.58	mg/kg	144.	0.64
0111	Moisture	9.55	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	3.4	1.0	mg/kg	3.8	1.1

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:43:13 D 0002 14 599971  
 278 75.00 00019100 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863370

Collected: 1/23/98 at 10:10 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL1601-012398 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1601 SDG#: WAR13-04

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1177	PPL + Xylene (total) by 8240			See Page 2		
1649	Cadmium	< 2.0	2.0	mg/kg	< 2.2	2.2
1651	Chromium	25.5	4.0	mg/kg	27.6	4.3
1655	Lead	12.	10.	mg/kg	13.	11.
1672	Zinc	97.	10.	mg/kg	105.	11.
6961	Nickel TR	28.9	0.60	mg/kg	31.3	0.65
0111	Moisture	7.69	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	< 1.0	1.0	mg/kg	< 1.1	1.1

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:43:43 D 0002 14 599971  
 278 75.00 00046600 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

23



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863370

Collected: 1/23/98 at 10:10 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/1/98

WP-SL1601-012398 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1601 SDG#: WAR13-04

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
PPL + Xylene (total) by 8240						
3434	Chloromethane	< 5.	5.	ug/kg	< 5.	5.
3435	Bromomethane	< 5.	5.	ug/kg	< 5.	5.
3436	Vinyl Chloride	< 5.	5.	ug/kg	< 5.	5.
3437	Chloroethane	< 5.	5.	ug/kg	< 5.	5.
3438	Acrolein	< 100.	100.	ug/kg	< 110.	110.
3439	Acrylonitrile	< 50.	50.	ug/kg	< 54.	54.
3440	Methylene Chloride	< 5.	5.	ug/kg	< 5.	5.
3441	Trichlorofluoromethane	< 5.	5.	ug/kg	< 5.	5.
1180	1,1-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.
3442	1,1-Dichloroethane	< 5.	5.	ug/kg	< 5.	5.
3444	Chloroform	< 5.	5.	ug/kg	< 5.	5.
3445	1,2-Dichloroethane	< 5.	5.	ug/kg	< 5.	5.
3446	1,1,1-Trichloroethane	< 5.	5.	ug/kg	< 5.	5.
3447	Carbon Tetrachloride	< 5.	5.	ug/kg	< 5.	5.
3448	Bromodichloromethane	< 5.	5.	ug/kg	< 5.	5.
3449	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/kg	< 5.	5.
3450	1,2-Dichloropropane	< 5.	5.	ug/kg	< 5.	5.
3451	trans-1,3-Dichloropropene	< 5.	5.	ug/kg	< 5.	5.
1181	Trichloroethene	< 5.	5.	ug/kg	< 5.	5.
3452	Dibromochloromethane	< 5.	5.	ug/kg	< 5.	5.
3453	1,1,2-Trichloroethane	< 5.	5.	ug/kg	< 5.	5.
1182	Benzene	< 5.	5.	ug/kg	< 5.	5.
3454	cis-1,3-Dichloropropene	< 5.	5.	ug/kg	< 5.	5.
3455	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/kg	< 11.	11.
3456	Bromoform	< 5.	5.	ug/kg	< 5.	5.
3457	Tetrachloroethene	< 5.	5.	ug/kg	< 5.	5.
1183	Toluene	< 5.	5.	ug/kg	< 5.	5.
1184	Chlorobenzene	< 5.	5.	ug/kg	< 5.	5.
3458	Ethylbenzene	< 5.	5.	ug/kg	< 5.	5.
3355	Xylene (total)	< 5.	5.	ug/kg	< 5.	5.
6187	trans-1,2-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.
6277	cis-1,2-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681







**LLI Sample No. SW 2863371**

Collected: 1/23/98 at 10:25 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL1612-012398 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1612 SDG#: WAR13-05

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1177	PPL + Xylene (total) by 8240			See Page 2		
1649	Cadmium	< 2.0	2.0	mg/kg	< 2.1	2.1
1651	Chromium	23.8	3.9	mg/kg	25.9	4.3
1655	Lead	< 9.8	9.8	mg/kg	< 11.	11.
1672	Zinc	72.7	9.8	mg/kg	79.	11.
6961	Nickel TR	25.1	0.59	mg/kg	27.3	0.64
0111	Moisture	8.10	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	< 1.0	1.0	mg/kg	< 1.1	1.1

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:44:29 D 0002 14 599971  
 278 75.00 00046600 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



LLI Sample No. SW 2863371

Collected: 1/23/98 at 10:25 by SL

Submitted: 1/26/98 Reported: 2/18/98  
Discard: 3/1/98

WP-SL1612-012398 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
L1612 SDG#: WAR13-05

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
PPL + Xylene (total) by 8240						
3434	Chloromethane	< 5.	5.	ug/kg	< 5.	5.
3435	Bromomethane	< 5.	5.	ug/kg	< 5.	5.
3436	Vinyl Chloride	< 5.	5.	ug/kg	< 5.	5.
3437	Chloroethane	< 5.	5.	ug/kg	< 5.	5.
3438	Acrolein	< 100.	100.	ug/kg	< 110.	110.
3439	Acrylonitrile	< 50.	50.	ug/kg	< 54.	54.
3440	Methylene Chloride	< 5.	5.	ug/kg	< 5.	5.
3441	Trichlorofluoromethane	< 5.	5.	ug/kg	< 5.	5.
1180	1,1-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.
3442	1,1-Dichloroethane	< 5.	5.	ug/kg	< 5.	5.
3444	Chloroform	< 5.	5.	ug/kg	< 5.	5.
3445	1,2-Dichloroethane	< 5.	5.	ug/kg	< 5.	5.
3446	1,1,1-Trichloroethane	< 5.	5.	ug/kg	< 5.	5.
3447	Carbon Tetrachloride	< 5.	5.	ug/kg	< 5.	5.
3448	Bromodichloromethane	< 5.	5.	ug/kg	< 5.	5.
3449	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/kg	< 5.	5.
3450	1,2-Dichloropropane	< 5.	5.	ug/kg	< 5.	5.
3451	trans-1,3-Dichloropropene	< 5.	5.	ug/kg	< 5.	5.
1181	Trichloroethene	< 5.	5.	ug/kg	< 5.	5.
3452	Dibromochloromethane	< 5.	5.	ug/kg	< 5.	5.
3453	1,1,2-Trichloroethane	< 5.	5.	ug/kg	< 5.	5.
1182	Benzene	< 5.	5.	ug/kg	< 5.	5.
3454	cis-1,3-Dichloropropene	< 5.	5.	ug/kg	< 5.	5.
3455	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/kg	< 11.	11.
3456	Bromoform	< 5.	5.	ug/kg	< 5.	5.
3457	Tetrachloroethene	< 5.	5.	ug/kg	< 5.	5.
1183	Toluene	< 5.	5.	ug/kg	< 5.	5.
1184	Chlorobenzene	< 5.	5.	ug/kg	< 5.	5.
3458	Ethylbenzene	< 5.	5.	ug/kg	< 5.	5.
3355	Xylene (total)	< 5.	5.	ug/kg	< 5.	5.
6187	trans-1,2-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.
6277	cis-1,2-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles

23



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





**LLI Sample No. SW 2863372**

Collected: 1/23/98 at 10:45 by SL

Submitted: 1/26/98 Reported: 2/18/98  
Discard: 3/ 1/98

WP-SL1701-012398 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
L1701 SDG#: WAR13-06

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1177	PPL + Xylene (total) by 8240			See Page 2		
1649	Cadmium	< 2.0	2.0	mg/kg	< 2.2	2.2
1651	Chromium	30.6	4.0	mg/kg	33.6	4.3
1655	Lead	14.2	9.9	mg/kg	16.	11.
1672	Zinc	89.9	9.9	mg/kg	99.	11.
6961	Nickel TR	36.6	0.59	mg/kg	40.2	0.65
0111	Moisture	8.92	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	< 1.0	1.0	mg/kg	< 1.1	1.1

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
21:45:05 D 0002 14 599971  
278 75.00 00046600 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863372  
 Collected: 1/23/98 at 10:45 by SL

Submitted: 1/26/98 Reported: 2/18/98  
 Discard: 3/ 1/98

WP-SL1701-012398 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 L1701 SDG#: WAR13-06

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
PPL + Xylene (total) by 8240						
3434	Chloromethane	< 5.	5.	ug/kg	< 5.	5.
3435	Bromomethane	< 5.	5.	ug/kg	< 5.	5.
3436	Vinyl Chloride	< 5.	5.	ug/kg	< 5.	5.
3437	Chloroethane	< 5.	5.	ug/kg	< 5.	5.
3438	Acrolein	< 100.	100.	ug/kg	< 110.	110.
3439	Acrylonitrile	< 50.	50.	ug/kg	< 55.	55.
3440	Methylene Chloride	< 5.	5.	ug/kg	< 5.	5.
3441	Trichlorofluoromethane	< 5.	5.	ug/kg	< 5.	5.
1180	1,1-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.
3442	1,1-Dichloroethane	< 5.	5.	ug/kg	< 5.	5.
3444	Chloroform	< 5.	5.	ug/kg	< 5.	5.
3445	1,2-Dichloroethane	< 5.	5.	ug/kg	< 5.	5.
3446	1,1,1-Trichloroethane	< 5.	5.	ug/kg	< 5.	5.
3447	Carbon Tetrachloride	< 5.	5.	ug/kg	< 5.	5.
3448	Bromodichloromethane	< 5.	5.	ug/kg	< 5.	5.
3449	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/kg	< 5.	5.
3450	1,2-Dichloropropane	< 5.	5.	ug/kg	< 5.	5.
3451	trans-1,3-Dichloropropene	< 5.	5.	ug/kg	< 5.	5.
1181	Trichloroethene	< 5.	5.	ug/kg	< 5.	5.
3452	Dibromochloromethane	< 5.	5.	ug/kg	< 5.	5.
3453	1,1,2-Trichloroethane	< 5.	5.	ug/kg	< 5.	5.
1182	Benzene	< 5.	5.	ug/kg	< 5.	5.
3454	cis-1,3-Dichloropropene	< 5.	5.	ug/kg	< 5.	5.
3455	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/kg	< 11.	11.
3456	Bromoform	< 5.	5.	ug/kg	< 5.	5.
3457	Tetrachloroethene	< 5.	5.	ug/kg	< 5.	5.
1183	Toluene	< 5.	5.	ug/kg	< 5.	5.
1184	Chlorobenzene	< 5.	5.	ug/kg	< 5.	5.
3458	Ethylbenzene	< 5.	5.	ug/kg	< 5.	5.
3355	Xylene (total)	< 5.	5.	ug/kg	< 5.	5.
6187	trans-1,2-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.
6277	cis-1,2-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863373

Collected: 1/23/98 at 11:00 by SL

Submitted: 1/26/98 Reported: 2/18/98  
Discard: 3/ 1/98

WP-SL1712-012398 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
L1712 SDG#: WAR13-07

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1177	PPL + Xylene (total) by 8240			See Page 2		
1649	Cadmium	< 2.0	2.0	mg/kg	< 2.2	2.2
1651	Chromium	43.8	4.0	mg/kg	48.0	4.3
1655	Lead	10.3	9.9	mg/kg	11.	11.
1672	Zinc	88.0	9.9	mg/kg	96.	11.
6961	Nickel TR	25.2	0.59	mg/kg	27.6	0.65
0111	Moisture	8.74	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	4.1	1.0	mg/kg	4.5	1.1

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
21:45:41 D 0002 14 599971  
278 75.00 00046600 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863373

Collected: 1/23/98 at 11:00 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL1712-012398 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1712 SDG#: WAR13-07

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
PPL + Xylene (total) by 8240						
3434	Chloromethane	< 5.	5.	ug/kg	< 5.	5.
3435	Bromomethane	< 5.	5.	ug/kg	< 5.	5.
3436	Vinyl Chloride	< 5.	5.	ug/kg	< 5.	5.
3437	Chloroethane	< 5.	5.	ug/kg	< 5.	5.
3438	Acrolein	< 100.	100.	ug/kg	< 110.	110.
3439	Acrylonitrile	< 50.	50.	ug/kg	< 55.	55.
3440	Methylene Chloride	< 5.	5.	ug/kg	< 5.	5.
3441	Trichlorofluoromethane	< 5.	5.	ug/kg	< 5.	5.
1180	1,1-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.
3442	1,1-Dichloroethane	< 5.	5.	ug/kg	< 5.	5.
3444	Chloroform	< 5.	5.	ug/kg	< 5.	5.
3445	1,2-Dichloroethane	< 5.	5.	ug/kg	< 5.	5.
3446	1,1,1-Trichloroethane	< 5.	5.	ug/kg	< 5.	5.
3447	Carbon Tetrachloride	< 5.	5.	ug/kg	< 5.	5.
3448	Bromodichloromethane	< 5.	5.	ug/kg	< 5.	5.
3449	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/kg	< 5.	5.
3450	1,2-Dichloropropane	< 5.	5.	ug/kg	< 5.	5.
3451	trans-1,3-Dichloropropene	< 5.	5.	ug/kg	< 5.	5.
1181	Trichloroethene	< 5.	5.	ug/kg	< 5.	5.
3452	Dibromochloromethane	< 5.	5.	ug/kg	< 5.	5.
3453	1,1,2-Trichloroethane	< 5.	5.	ug/kg	< 5.	5.
1182	Benzene	< 5.	5.	ug/kg	< 5.	5.
3454	cis-1,3-Dichloropropene	< 5.	5.	ug/kg	< 5.	5.
3455	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/kg	< 11.	11.
3456	Bromoform	< 5.	5.	ug/kg	< 5.	5.
3457	Tetrachloroethene	< 5.	5.	ug/kg	< 5.	5.
1183	Toluene	< 5.	5.	ug/kg	< 5.	5.
1184	Chlorobenzene	< 5.	5.	ug/kg	< 5.	5.
3458	Ethylbenzene	< 5.	5.	ug/kg	< 5.	5.
3355	Xylene (total)	< 5.	5.	ug/kg	< 5.	5.
6187	trans-1,2-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.
6277	cis-1,2-Dichloroethene	< 5.	5.	ug/kg	< 5.	5.

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. SW **2863374**  
 Collected: 1/23/98 at 11:25 by SL

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

Submitted: 1/26/98 Reported: 2/18/98  
 Discard: 3/ 1/98

WP-SL1801-012398 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 L1801 SDG#: WAR13-08

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1177	PPL + Xylene (total) by 8240			See Page 2		
1649	Cadmium	112.	2.0	mg/kg	129.	2.3
1651	Chromium	441.	4.0	mg/kg	507.	4.5
1655	Lead	50.8	9.9	mg/kg	58.	11.
1672	Zinc	995.	9.9	mg/kg	1,140.	11.
6961	Nickel TR	296.	0.59	mg/kg	339.	0.68
1216	PCBs in Solids			See Page 3		
0111	Moisture	12.9	0.50	% by wt.		
	*Moisture* represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	20.2	1.0	mg/kg	23.2	1.1

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:46:28 D 0002 14 599971  
 278 75.00 00059100 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863374

Collected: 1/23/98 at 11:25 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/1/98

WP-SL1801-012398 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1801 SDG#: WAR13-08

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
PPL + Xylene (total) by 8240						
3434	Chloromethane	< 5.	5.	ug/kg	< 6.	6.
3435	Bromomethane	< 5.	5.	ug/kg	< 6.	6.
3436	Vinyl Chloride	< 5.	5.	ug/kg	< 6.	6.
3437	Chloroethane	< 5.	5.	ug/kg	< 6.	6.
3438	Acrolein	< 100.	100.	ug/kg	< 110.	110.
3439	Acrylonitrile	< 50.	50.	ug/kg	< 57.	57.
3440	Methylene Chloride	13.	5.	ug/kg	15.	6.
3441	Trichlorofluoromethane	< 5.	5.	ug/kg	< 6.	6.
1180	1,1-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.
3442	1,1-Dichloroethane	< 5.	5.	ug/kg	< 6.	6.
3444	Chloroform	< 5.	5.	ug/kg	< 6.	6.
3445	1,2-Dichloroethane	< 5.	5.	ug/kg	< 6.	6.
3446	1,1,1-Trichloroethane	< 5.	5.	ug/kg	< 6.	6.
3447	Carbon Tetrachloride	< 5.	5.	ug/kg	< 6.	6.
3448	Bromodichloromethane	< 5.	5.	ug/kg	< 6.	6.
3449	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/kg	< 6.	6.
3450	1,2-Dichloropropane	< 5.	5.	ug/kg	< 6.	6.
3451	trans-1,3-Dichloropropene	< 5.	5.	ug/kg	< 6.	6.
1181	Trichloroethene	< 6.	5.	ug/kg	7.	6.
3452	Dibromochloromethane	< 5.	5.	ug/kg	< 6.	6.
3453	1,1,2-Trichloroethane	< 5.	5.	ug/kg	< 6.	6.
1182	Benzene	< 5.	5.	ug/kg	< 6.	6.
3454	cis-1,3-Dichloropropene	< 5.	5.	ug/kg	< 6.	6.
3455	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/kg	< 11.	11.
3456	Bromoform	< 5.	5.	ug/kg	< 6.	6.
3457	Tetrachloroethene	< 5.	5.	ug/kg	< 6.	6.
1183	Toluene	< 5.	5.	ug/kg	< 6.	6.
1184	Chlorobenzene	< 5.	5.	ug/kg	< 6.	6.
3458	Ethylbenzene	< 5.	5.	ug/kg	< 6.	6.
3355	Xylene (total)	< 5.	5.	ug/kg	< 6.	6.
6187	trans-1,2-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.
6277	cis-1,2-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681







LLI Sample No. SW 2863374  
 Collected: 1/23/98 at 11:25 by SL

Submitted: 1/26/98 Reported: 2/18/98  
 Discard: 3/ 1/98

WP-SL1801-012398 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 L1801 SDG#: WAR13-08

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
<b>PCBs in Solids</b>						
1495	PCB-1016	< 140.	140.	ug/kg	< 160.	160.
1496	PCB-1221	< 140.	140.	ug/kg	< 160.	160.
1497	PCB-1232	< 140.	140.	ug/kg	< 160.	160.
1498	PCB-1242	< 140.	140.	ug/kg	< 160.	160.
1499	PCB-1248	< 140.	140.	ug/kg	< 160.	160.
1500	PCB-1254	5,370.	140.	ug/kg	6,170.	160.
1501	PCB-1260	< 140.	140.	ug/kg	< 160.	160.

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
 Jenifer E. Hess, B.S.  
 Group Leader Pesticides/PCBs



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863375  
 Collected: 1/23/98 at 11:55 by SL

Submitted: 1/26/98 Reported: 2/18/98  
 Discard: 3/ 1/98

WP-SL1812-012398 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 L1812 SDG#: WAR13-09

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1177	PPL + Xylene (total) by 8240			See Page 2		
1649	Cadmium	< 2.0	2.0	mg/kg	< 2.2	2.2
1651	Chromium	27.1	4.0	mg/kg	30.4	4.5
1655	Lead	< 10.	10.	mg/kg	< 11.	11.
1672	Zinc	67.	10.	mg/kg	75.	11.
6961	Nickel TR	27.9	0.60	mg/kg	31.4	0.67
0111	Moisture	11.0	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	1.3	1.0	mg/kg	1.5	1.1

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:47:27 D 0002 14 599971  
 278 75.00 00046600 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





**LLI Sample No. SW 2863375**

Collected: 1/23/98 at 11:55 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL1812-012398 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1812 SDG#: WAR13-09

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
* PPL + Xylene (total) by 8240						
3434	Chloromethane	< 5.	5.	ug/kg	< 6.	6.
3435	Bromomethane	< 5.	5.	ug/kg	< 6.	6.
3436	Vinyl Chloride	< 5.	5.	ug/kg	< 6.	6.
3437	Chloroethane	< 5.	5.	ug/kg	< 6.	6.
3438	Acrolein	< 100.	100.	ug/kg	< 110.	110.
3439	Acrylonitrile	< 50.	50.	ug/kg	< 56.	56.
3440	Methylene Chloride	7.	5.	ug/kg	7.	6.
3441	Trichlorofluoromethane	< 5.	5.	ug/kg	< 6.	6.
1180	1,1-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.
3442	1,1-Dichloroethane	< 5.	5.	ug/kg	< 6.	6.
3444	Chloroform	< 5.	5.	ug/kg	< 6.	6.
3445	1,2-Dichloroethane	< 5.	5.	ug/kg	< 6.	6.
3446	1,1,1-Trichloroethane	< 5.	5.	ug/kg	< 6.	6.
3447	Carbon Tetrachloride	< 5.	5.	ug/kg	< 6.	6.
3448	Bromodichloromethane	< 5.	5.	ug/kg	< 6.	6.
3449	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/kg	< 6.	6.
3450	1,2-Dichloropropane	< 5.	5.	ug/kg	< 6.	6.
3451	trans-1,3-Dichloropropene	< 5.	5.	ug/kg	< 6.	6.
1181	Trichloroethene	< 5.	5.	ug/kg	< 6.	6.
3452	Dibromochloromethane	< 5.	5.	ug/kg	< 6.	6.
3453	1,1,2-Trichloroethane	< 5.	5.	ug/kg	< 6.	6.
1182	Benzene	< 5.	5.	ug/kg	< 6.	6.
3454	cis-1,3-Dichloropropene	< 5.	5.	ug/kg	< 6.	6.
3455	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/kg	< 11.	11.
3456	Bromoform	< 5.	5.	ug/kg	< 6.	6.
3457	Tetrachloroethene	< 5.	5.	ug/kg	< 6.	6.
1183	Toluene	< 5.	5.	ug/kg	< 6.	6.
1184	Chlorobenzene	< 5.	5.	ug/kg	< 6.	6.
3458	Ethylbenzene	< 5.	5.	ug/kg	< 6.	6.
3355	Xylene (total)	< 5.	5.	ug/kg	< 6.	6.
6187	trans-1,2-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.
6277	cis-1,2-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles

35





**LLI Sample No. SW 2863376**

Collected: 1/23/98 at 12:55 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL1901-012398 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1901 SDG#: WAR13-10

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1177	PPL + Xylene (total) by 8240			See Page 2		
1649	Cadmium	62.0	1.9	mg/kg	71.0	2.2
1651	Chromium	365.	3.9	mg/kg	419.	4.4
1655	Lead	25.8	9.7	mg/kg	30.	11.
1672	Zinc	1,810.	9.7	mg/kg	2,080.	11.
6961	Nickel TR	1,140.	0.58	mg/kg	1,300.	0.67
0111	Moisture	12.7	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	32.0	1.0	mg/kg	36.7	1.1

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:48:06 D 0002 14 599971  
 278 75.00 00046600 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

33



LLI Sample No. SW 2863376

Collected: 1/23/98 at 12:55 by SL

Submitted: 1/26/98 Reported: 2/18/98  
Discard: 3/ 1/98

WP-SL1901-012398 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
L1901 SDG#: WAR13-10

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
<b>PPL + Xylene (total) by 8240</b>						
3434	Chloromethane	< 5.	5.	ug/kg	< 6.	6.
3435	Bromomethane	< 5.	5.	ug/kg	< 6.	6.
3436	Vinyl Chloride	< 5.	5.	ug/kg	< 6.	6.
3437	Chloroethane	< 5.	5.	ug/kg	< 6.	6.
3438	Acrolein	< 100.	100.	ug/kg	< 110.	110.
3439	Acrylonitrile	< 50.	50.	ug/kg	< 57.	57.
3440	Methylene Chloride	8.	5.	ug/kg	9.	6.
3441	Trichlorofluoromethane	< 5.	5.	ug/kg	< 6.	6.
1180	1,1-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.
3442	1,1-Dichloroethane	< 5.	5.	ug/kg	< 6.	6.
3444	Chloroform	< 5.	5.	ug/kg	< 6.	6.
3445	1,2-Dichloroethane	< 5.	5.	ug/kg	< 6.	6.
3446	1,1,1-Trichloroethane	< 5.	5.	ug/kg	< 6.	6.
3447	Carbon Tetrachloride	< 5.	5.	ug/kg	< 6.	6.
3448	Bromodichloromethane	< 5.	5.	ug/kg	< 6.	6.
3449	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/kg	< 6.	6.
3450	1,2-Dichloropropane	< 5.	5.	ug/kg	< 6.	6.
3451	trans-1,3-Dichloropropene	< 5.	5.	ug/kg	< 6.	6.
1181	Trichloroethene	< 5.	5.	ug/kg	< 6.	6.
3452	Dibromochloromethane	< 5.	5.	ug/kg	< 6.	6.
3453	1,1,2-Trichloroethane	< 5.	5.	ug/kg	< 6.	6.
1182	Benzene	< 5.	5.	ug/kg	< 6.	6.
3454	cis-1,3-Dichloropropene	< 5.	5.	ug/kg	< 6.	6.
3455	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/kg	< 11.	11.
3456	Bromoform	< 5.	5.	ug/kg	< 6.	6.
3457	Tetrachloroethene	< 5.	5.	ug/kg	< 6.	6.
1183	Toluene	< 5.	5.	ug/kg	< 6.	6.
1184	Chlorobenzene	< 5.	5.	ug/kg	< 6.	6.
3458	Ethylbenzene	< 5.	5.	ug/kg	< 6.	6.
3355	Xylene (total)	< 5.	5.	ug/kg	< 6.	6.
6187	trans-1,2-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.
6277	cis-1,2-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
Duane A. Luckenbill, B.S.  
Group Leader, GC/MS Volatiles



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





## Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. SW 2863377

Collected: 1/23/98 at 13:15 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL1912-012398 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1912 SDG#: WAR13-11

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1177	PPL + Xylene (total) by 8240			See Page 2		
1649	Cadmium	< 2.0	2.0	mg/kg	< 2.3	2.3
1651	Chromium	105.	3.9	mg/kg	122.	4.6
1655	Lead	< 9.8	9.8	mg/kg	< 11.	11.
1672	Zinc	49.0	9.8	mg/kg	57.	11.
6961	Nickel TR	23.1	0.59	mg/kg	26.8	0.68
0111	Moisture	14.1	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	8.6	1.0	mg/kg	10.0	1.2

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:48:46 D 0002 14 599971  
 278 75.00 00046600 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

31



**LLI Sample No. SW 2863377**

Collected: 1/23/98 at 13:15 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL1912-012398 Grab Soil Sample

Project #17092.003

Ward Products - NY

L1912 SDG#: WAR13-11

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

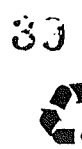
CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
<b>PPL + Xylene (total) by 8240</b>						
3434	Chloromethane	< 5.	5.	ug/kg	< 6.	6.
3435	Bromomethane	< 5.	5.	ug/kg	< 6.	6.
3436	Vinyl Chloride	< 5.	5.	ug/kg	< 6.	6.
3437	Chloroethane	< 5.	5.	ug/kg	< 6.	6.
3438	Acrolein	< 100.	100.	ug/kg	< 120.	120.
3439	Acrylonitrile	< 50.	50.	ug/kg	< 58.	58.
3440	Methylene Chloride	5.	5.	ug/kg	6.	6.
3441	Trichlorofluoromethane	< 5.	5.	ug/kg	< 6.	6.
1180	1,1-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.
3442	1,1-Dichloroethane	< 5.	5.	ug/kg	< 6.	6.
3444	Chloroform	< 5.	5.	ug/kg	< 6.	6.
3445	1,2-Dichloroethane	< 5.	5.	ug/kg	< 6.	6.
3446	1,1,1-Trichloroethane	< 5.	5.	ug/kg	< 6.	6.
3447	Carbon Tetrachloride	< 5.	5.	ug/kg	< 6.	6.
3448	Bromodichloromethane	< 5.	5.	ug/kg	< 6.	6.
3449	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/kg	< 6.	6.
3450	1,2-Dichloropropane	< 5.	5.	ug/kg	< 6.	6.
3451	trans-1,3-Dichloropropene	< 5.	5.	ug/kg	< 6.	6.
1181	Trichloroethene	< 5.	5.	ug/kg	< 6.	6.
3452	Dibromochloromethane	< 5.	5.	ug/kg	< 6.	6.
3453	1,1,2-Trichloroethane	< 5.	5.	ug/kg	< 6.	6.
1182	Benzene	< 5.	5.	ug/kg	< 6.	6.
3454	cis-1,3-Dichloropropene	< 5.	5.	ug/kg	< 6.	6.
3455	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/kg	< 12.	12.
3456	Bromoform	< 5.	5.	ug/kg	< 6.	6.
3457	Tetrachloroethene	< 5.	5.	ug/kg	< 6.	6.
1183	Toluene	< 5.	5.	ug/kg	< 6.	6.
1184	Chlorobenzene	< 5.	5.	ug/kg	< 6.	6.
3458	Ethylbenzene	< 5.	5.	ug/kg	< 6.	6.
3355	Xylene (total)	< 5.	5.	ug/kg	< 6.	6.
6187	trans-1,2-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.
6277	cis-1,2-Dichloroethene	< 5.	5.	ug/kg	< 6.	6.

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863379

Collected: 1/23/98 at 13:40 by SL

Submitted: 1/26/98 Reported: 2/18/98

Discard: 3/ 1/98

WP-SL2001-012398 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 L2001 SDG#: WAR13-13

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Re1.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	5.3	2.0	mg/kg	6.4	2.4
1651	Chromium	108.	4.0	mg/kg	130.	4.8
1655	Lead	17.9	9.9	mg/kg	22.	12.
1672	Zinc	494.	9.9	mg/kg	595.	12.
6961	Nickel TR	296.	0.59	mg/kg	357.	0.71
1216	PCBs in Solids			See Page 2		
0111	Moisture	16.9	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	< 1.0	1.0	mg/kg	< 1.2	1.2

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:50:05 D 0002 14 599971  
 278 75.00 00031600 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681







**LLI Sample No. SW 2863379**

Collected: 1/23/98 at 13:40 by SL

Submitted: 1/26/98 Reported: 2/18/98  
Discard: 3/ 1/98

WP-SL2001-012398 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
L2001 SDG#: WAR13-13

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
<b>PCBs in Solids</b>						
1495	PCB-1016	< 16.	16.	ug/kg	< 19.	19.
1496	PCB-1221	< 16.	16.	ug/kg	< 19.	19.
1497	PCB-1232	< 16.	16.	ug/kg	< 19.	19.
1498	PCB-1242	< 16.	16.	ug/kg	< 19.	19.
1499	PCB-1248	< 16.	16.	ug/kg	< 19.	19.
1500	PCB-1254	66.	16.	ug/kg	80.	19.
1501	PCB-1260	< 16.	16.	ug/kg	< 19.	19.

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
Jennifer E. Hess, B.S.  
Group Leader Pesticides/PCBs



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2863380  
 Collected: 1/23/98 at 14:05 by SL

Submitted: 1/26/98 Reported: 2/18/98  
 Discard: 3/1/98

WP-SL2101-012398 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 L2101 SDG#: WAR13-14\*

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	< 2.0	2.0	mg/kg	< 2.4	2.4
1651	Chromium	37.5	4.0	mg/kg	45.6	4.9
1655	Lead	< 10.	10.	mg/kg	< 12.	12.
1672	Zinc	82.	10.	mg/kg	100.	12.
6961	Nickel TR	40.9	0.60	mg/kg	49.8	0.73
1216	PCBs in Solids			See Page 2		
0111	Moisture	17.8	0.50	% by wt.		
	*Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	1.9	1.0	mg/kg	2.3	1.2

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 21:50:35 D 0002 14 599971  
 278 75.00 00031600 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





**LLI Sample No. SW 2863380**

Collected: 1/23/98 at 14:05 by SL

Submitted: 1/26/98 Reported: 2/18/98  
Discard: 3/ 1/98

WP-SL2101-012398 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
L2101 SDG#: WAR13-14\*

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
<b>PCBs in Solids</b>						
1495	PCB-1016	< 16.	16.	ug/kg	< 19.	19.
1496	PCB-1221	< 16.	16.	ug/kg	< 19.	19.
1497	PCB-1232	< 16.	16.	ug/kg	< 19.	19.
1498	PCB-1242	< 16.	16.	ug/kg	< 19.	19.
1499	PCB-1248	< 16.	16.	ug/kg	< 19.	19.
1500	PCB-1254	< 16.	16.	ug/kg	< 19.	19.
1501	PCB-1260	< 16.	16.	ug/kg	< 19.	19.

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
Jenifer E. Hess, B.S.  
Group Leader Pesticides/PCBs



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



# Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only  
 Acct. # 8963 Sample # 7403307-80

Please print. Instructions on reverse side correspond with circled numbers.

Client: Norwalk Assoc Acct. #: \_\_\_\_\_  
 Project Name: WMO 17092.003 PWSID #: \_\_\_\_\_  
 Project Manager: Belinson P.O.#: \_\_\_\_\_  
 Sampler: Steve Lee / Belinson Quote #: \_\_\_\_\_  
 Name of state where samples were collected: NY

For lab use only  
 FSC: \_\_\_\_\_  
 SCR #: 1107496

W.P. #	SL #	Date	Time	✓	✓	1	2	3	4	5	6	7	8	9	10
W.P. SL 1305	012298	01/22/98	1720	✓	✓	1	✓								
W.P. SL 1405	012298	01/23/98	1735	✓	✓	1	✓								
W.P. SL 1505	012298	01/22/98	1750	✓	✓	1	✓								
W.P. SL 1601	012398	01/23/98	1010	✓	✓	2	✓								
W.P. SL 1612	012398		1025	✓	✓	2	✓								
W.P. SL 1701	0123-98		1045	✓	✓	2	✓								
W.P. SL 1712	012398		1100	✓	✓	2	✓								
W.P. SL 1801	012398		1125	✓	✓	3	✓								
W.P. SL 1810	012398		1155	✓	✓	2	✓								

Cd, Cr, Cu, Pb, Ni, Zn  
 PCB  
 VOC's

**Turnaround Time Requested (TAT)** (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: 2-3 wks  
 Rush results requested by (please circle): Phone Fax  
 Phone #: 603-472-5191 Fax #: 603-472-7052

**Data Package Options** (please circle if requested):  
 QC Summary Type VI (Raw Data) SDG Complete? Yes No  
 Type I (Tier I) GLP  
 Type II (Tier II) Other Site-specific QC required? Yes No  
 (If yes, indicate QC sample and submit triplicate volume.)  
 Type III (NI Red. Del.) NI  
 Type IV (CD) CD Internal Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	1/15/98	1405	<i>[Signature]</i>	1/14/98	1530
<i>[Signature]</i>	1/16/98	1515			

# Analysis Request - Environmental Services Chain of Custody



For Lancaster Laboratories use only  
 Acct. # 8863 Sample # 28633107-80

Please print. Instructions on reverse side correspond with circled numbers.

Client: Normanideau Assoc. Acct. #: \_\_\_\_\_  
 Project Name/#: Ward 17092.003 PWSID #: \_\_\_\_\_  
 Project Manager: AL LARSON P.O.#: \_\_\_\_\_  
 Sampler: STEVE LEE/AL LARSON Quote #: \_\_\_\_\_  
 Name of state where samples were collected: NY

For lab use only  
 FSC: \_\_\_\_\_  
 SCR #: 1106428

Cd Cr Co Pb Ni Zn  
 PCB  
 VOC

Sample ID	Date	Time	✓	✓	2	✓	✓										
WP-SL1901-012398	01/23/98	1255	✓	✓	2	✓	✓										
WP-SL1912-012398		1315	✓	✓	2	✓	✓										
WP-SL0218-012398		1230	✓	✓	2	✓	✓										
WP-SL2001-012398		1340	✓	✓	2	✓	✓										
WP-SL2181-012398		1405	✓	✓	2	✓	✓										

Turnaround Time Requested (TAT) (please circle): Normal - Rush  
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: 2-3 wks  
 Rush results requested by (please circle): \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Phone #: 603-972-3911 Fax #: 603-472-7052

Relinquished by:	Date	Time	Received by:	Date	Time
<u>Henry Maurer</u>	<u>12/19/97</u>	<u>0830</u>	<u>Al Larson</u>	<u>1/14/98</u>	<u>1530</u>
<u>Al Larson</u>	<u>1/23/98</u>	<u>1515</u>			

Data Package Options (please circle if requested):  
 QC Summary: Type VI (Raw Data) \_\_\_\_\_  
 Type I (Tier I) \_\_\_\_\_  
 Type II (Tier II) \_\_\_\_\_  
 Type III (U-Red-Del.) \_\_\_\_\_  
 Type IV (GLP) \_\_\_\_\_  
 SDG Complete? Yes  No   
 Site-specific QC required? Yes  No   
(If yes, indicate QC sample and submit triplicate volume.)  
 Internal Chain of Custody required? Yes  No



Experience is the solution

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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS220.2-082400  
AES sample #: 000825AU01  
Date Sampled: 08/24/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	1.6	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	13	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	170	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	27	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	749	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	663	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS22.21-082400  
 AES sample #: 000825AU02

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Location: Ward Products grab

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	8.3	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	118	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	18	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	593	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	678	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS230.2-082400  
 AES sample #: 000825AU03  
 Samples taken by: A.L./S.L.  
 MATRIX: Soil

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	7.7	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	90	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	20	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	206	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	367	ug/g	KH-I-3D-29	09/06/00





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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS23.21-082400  
 AES sample #: 000825AU04

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Samples taken by: A.L./S.L.  
 Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	17	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	67	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	8.6	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	231	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	304	ug/g	KH-I-3D-29	09/06/00



Experience is the solution

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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS240.2-082400  
 AES sample #: 000825AU05

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Samples taken by: A.L./S.L.  
 Location: Ward Products grab  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	2.9	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	54	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	13	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	143	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	165	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS24.21-082400  
 AES sample #: 000825AU06

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Samples taken by: A.L./S.L.  
 Location: Ward Products grab  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	0.43	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	18	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	5.0	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	24	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	59	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS250.2-082400  
AES sample #: 000825AU07  
Date Sampled: 08/24/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	5.3	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	45	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	9.5	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	106	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	231	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates

Date Sampled: 08/24/00

CLIENT'S SAMPLE ID: WP-SS25.21-082400

Date sample received: 08/25/00

AES sample #: 000825AU08

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	3.5	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	63	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	12	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	103	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	220	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates Date Sampled: 08/24/00  
 CLIENT'S SAMPLE ID: WP-SS260.2-082400 Date sample received: 08/25/00  
 AES sample #: 000825AU09 Samples taken by: A.L./S.L. Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	2.4	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	32	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	11	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	34	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	78	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS26.21-082400  
AES sample #: 000825AU10  
Date Sampled: 08/24/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-Q-28	09/01/00
Cadmium	EPA-6010	1.3	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	30	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	8.9	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	33	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	78	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates Date Sampled: 08/24/00  
 CLIENT'S SAMPLE ID: WP-SS270.2-082400 Date sample received: 08/25/00  
 AES sample #: 000825AU11 Samples taken by: A.L./S.L. Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	14	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	6.8	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	9.9	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	52	ug/g	KH-I-3D-29	09/06/00





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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS27.21-082400  
AES sample #: 000825AU12  
Samples taken by: A.L./S.L.  
MATRIX: Soil

Date Sampled: 08/24/00  
Date sample received: 08/25/00  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	20	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	0.99	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	22	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	58	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS280.2-082400  
 AES sample #: 000825AU13  
 Samples taken by: A.L./S.L.  
 MATRIX: Soil

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	4.1	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	69	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	18	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	59	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	129	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS28.21-082400  
 AES sample #: 000825AU14  
 Samples taken by: A.L./S.L.  
 MATRIX: Soil

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	16	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	191	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	47	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	172	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	292	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS290.2-082400  
 AES sample #: 000825AU15

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Samples taken by: A.L./S.L.  
 Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	15	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	4.1	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	17	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	54	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS29.21-082400  
 AES sample #: 000825AU16

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Location: Ward Products grab

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	17	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	3.5	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	19	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	53	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS300.2-082400  
 AES sample #: 000825AU17

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Location: Ward Products grab

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	16	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	6.6	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	60	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	12	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	49	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	88	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS30.21-082400  
AES sample #: 000825AU18  
Samples taken by: A.L./S.L.  
MATRIX: Soil

Date Sampled: 08/24/00  
Date sample received: 08/25/00  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	11	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	21	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	6.9	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	30	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	65	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS310.2-082400  
 AES sample #: 000825AU19

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Samples taken by: A.L./S.L.  
 Location: Ward Products grab  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	16	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	5.2	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	19	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	49	ug/g	KH-I-3D-29	09/06/00





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CLIENT: Normandeau Associates Date Sampled: 08/24/00  
 CLIENT'S SAMPLE ID: WP-SS31.21-082400 Date sample received: 08/25/00  
 AES sample #: 000825AU20 Samples taken by: A.L./S.L. Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	16	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	4.3	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	20	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	59	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS320.2-082400  
 AES sample #: 000825AU21

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Samples taken by: A.L./S.L.  
 Location: Ward Products grab  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	4.5	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	25	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	7.4	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	26	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	63	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates Date Sampled: 08/24/00  
 CLIENT'S SAMPLE ID: WP-SS32.21-082400 Date sample received: 08/25/00  
 AES sample #: 000825AU22 Samples taken by: A.L./S.L. Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	3.3	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	42	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	11	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	41	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	91	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS330.2-082400  
 AES sample #: 000825AU23

Date Sampled: 08/24/00  
 Date sample received: 08/25/00

Samples taken by: A.L./S.L.  
 MATRIX: Soil

Location: Ward Products  
 grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	15	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	4.5	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	17	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	52	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS33.21-082400  
 AES sample #: 000825AU24

Samples taken by: A.L./S.L.  
 MATRIX: Soil

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-36	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	14	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	4.3	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	20	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	51	ug/g	KH-I-3D-29	09/06/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS40.21-082400  
AES sample #: 000825AU43  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 08/24/00  
Date sample received: 08/25/00  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-37	08/29/00
Cyanide, Total	EPA-9012	16	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	47	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	229	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	82	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	681	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	336	ug/g	KH-I-3D-29	09/06/00




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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS410.2-082400  
 AES sample #: 000825AU44  
 Samples taken by: A.L./S.L.  
 MATRIX: Soil

Date Sampled: 08/24/00  
 Date sample received: 08/25/00  
 Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	SZ-N-37	08/29/00
Cyanide, Total	EPA-9012	<1	ug/g	MC-F	09/08/00
Cadmium	EPA-6010	12	ug/g	KH-I-3D-29	09/06/00
Chromium	EPA-6010	230	ug/g	KH-I-3D-29	09/06/00
Lead	EPA-6010	55	ug/g	KH-I-3D-29	09/06/00
Nickel	EPA-6010	136	ug/g	KH-I-3D-29	09/06/00
Zinc	EPA-6010	372	ug/g	KH-I-3D-29	09/06/00

APPROVED BY:   
 Report date: 09/08/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-SS440.2-22401

AES sample #: 010307BB01

Samples taken by: A.L./S.L.

MATRIX: Soil

Date Sampled: 02/24/01

Date sample received: 03/07/01

Location: Ward 17092.003  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	6.40	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	62.0	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	50.8	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	54.5	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	144	ug/g	SM-I-3E-55	03/16/01





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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS44.21-22401  
 AES sample #: 010307BB02

Date Sampled: 02/24/01  
 Date sample received: 03/07/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	14.6	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	236	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	104	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	198	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	375	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS450.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB03

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	3.18	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	37.4	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	20.0	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	40.3	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	114	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS45.21-22401  
 AES sample #: 010307BB04

Date Sampled: 02/24/01  
 Date sample received: 03/07/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	3.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	1.97	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	37.9	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	25.6	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	31.9	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	94.9	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS460.2-22401  
AES sample #: 010307BB05  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Soil  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	3.96	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	39.0	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	13.6	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	27.1	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	89.2	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS46.21-22401  
AES sample #: 010307BB06  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Soil  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	38.0	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	447	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	252	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	369	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	585	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS470.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB07

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	1.35	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	27.8	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	18.3	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	31.8	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	86.0	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS47.21-22401

Date sample received: 03/07/01

AES sample #: 010307BB08

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	44.7	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	282	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	137	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	427	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	549	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS480.2-22401  
AES sample #: 010307BB09  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Soil  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	11.8	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	6.35	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	8.55	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	28.8	ug/g	SM-I-3E-55	03/16/01





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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS48.21-22401  
AES sample #: 010307BB10  
Samples taken by: A.L./S.L.  
MATRIX: Soil

Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	16.8	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	9.65	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	12.8	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	34.6	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS490.2-22401  
AES sample #: 010307BB11  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Soil  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	0.72	ug/g	MC-0-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	0.82	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	28	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	12.6	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	23.8	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	58.8	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS49.21-22401  
 AES sample #: 010307BB12

Date Sampled: 02/24/01  
 Date sample received: 03/07/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	24.9	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	10.4	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	24.6	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	64.8	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS500.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB13

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	0.48	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	28.3	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	17.2	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	17.8	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	45.2	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS50.21-22401  
AES sample #: 010307BB14  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	17.8	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	12.8	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	12.6	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	36.5	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS510.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB15

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	13.5	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	12.8	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	11.4	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	32.6	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS51.21-22401  
AES sample #: 010307BB16  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-3E-55	03/16/01
Chromium	EPA-6010	22.6	ug/g	SM-I-3E-55	03/16/01
Lead	EPA-6010	12.9	ug/g	SM-I-3E-55	03/16/01
Nickel	EPA-6010	19.4	ug/g	SM-I-3E-55	03/16/01
Zinc	EPA-6010	53.3	ug/g	SM-I-3E-55	03/16/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS520.2-22401  
AES sample #: 010307BB17  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Soil  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	0.42	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	15.9	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	15.5	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	15.5	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	44.0	ug/g	KH-I-3E-56	03/19/01





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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS52.21-22401  
 AES sample #: 010307BB18

Date Sampled: 02/24/01  
 Date sample received: 03/07/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	11.3	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	12.6	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	10.9	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	34.3	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates Date Sampled: 02/24/01  
 CLIENT'S SAMPLE ID: WP-SS530.2-22401 Date sample received: 03/07/01  
 AES sample #: 010307BB19 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Soil composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	52.2	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	730	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	548	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	689	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	927	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS53.21-22401  
AES sample #: 010307BB20  
Samples taken by: A.L./S.L.  
MATRIX: Soil

Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	7.15	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	102	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	145	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	113	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	245	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS540.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB21

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	4.98	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	42.3	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	33.5	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	37.0	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	119	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS54.21-22401  
 AES sample #: 010307BB22

Date Sampled: 02/24/01  
 Date sample received: 03/07/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	2.40	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	463	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	12.1	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	880	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	836	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS550.2-22401  
 AES sample #: 010307BB23

Date Sampled: 02/24/01  
 Date sample received: 03/07/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	2.65	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	53.0	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	13.8	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	92.5	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	155	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS55.21-22401  
AES sample #: 010307BB24

Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	0.90	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	3.05	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	21.4	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	17.7	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	24.7	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	73.9	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS560.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB25

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	5.94	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	51.4	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	14.5	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	169	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	264	ug/g	KH-I-3E-56	03/19/01





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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS56.21-22401  
 AES sample #: 010307BB26      Samples taken by: A.L./S.L.      Location: Ward 17092.003  
 MATRIX: Soil      composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	20.3	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	266	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	46.2	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	945	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	778	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS570.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB27

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	2.92	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	34.3	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	10.3	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	107	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	172	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS57.21-22401  
AES sample #: 010307BB28  
Samples taken by: A.L./S.L.  
MATRIX: Soil

Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	1.24	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	23.7	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	8.02	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	60.3	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	89.5	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS580.2-22401  
AES sample #: 010307BB29

Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	1.15	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	27.2	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	8.59	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	33.9	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	77.1	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS58.21-22401  
AES sample #: 010307BB30  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Soil  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	<0.25	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	28.9	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	7.49	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	18.5	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	50.1	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS590.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB31

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	5.89	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	54.8	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	13.8	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	95.7	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	175	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS59.21-22401  
AES sample #: 010307BB32

Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	0.26	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	20.7	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	8.80	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	54.9	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	88.2	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS600.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB33

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	2.51	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	23.6	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	10.4	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	28.0	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	58.9	ug/g	KH-I-3E-56	03/19/01





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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS60.21-22401  
AES sample #: 010307BB34  
Samples taken by: A.L./S.L.  
MATRIX: Soil

Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	0.34	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	20.5	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	8.06	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	23.3	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	48.9	ug/g	KH-I-3E-56	03/18/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS610.2-22401  
AES sample #: 010307BB35  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	7.92	ug/g	KH-I-3E-56	03/18/01
Chromium	EPA-6010	84.1	ug/g	KH-I-3E-56	03/18/01
Lead	EPA-6010	40.9	ug/g	KH-I-3E-56	03/18/01
Nickel	EPA-6010	236	ug/g	KH-I-3E-56	03/18/01
Zinc	EPA-6010	385	ug/g	KH-I-3E-56	03/18/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS61.21-22401  
AES sample #: 010307BB36  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	0.56	ug/g	KH-I-3E-56	03/18/01
Chromium	EPA-6010	22.9	ug/g	KH-I-3E-56	03/18/01
Lead	EPA-6010	10.6	ug/g	KH-I-3E-56	03/18/01
Nickel	EPA-6010	76.1	ug/g	KH-I-3E-56	03/18/01
Zinc	EPA-6010	117	ug/g	KH-I-3E-56	03/18/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS620.2-22401  
AES sample #: 010307BB37  
Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Soil  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	6.08	ug/g	KH-I-3E-56	03/18/01
Chromium	EPA-6010	41.1	ug/g	KH-I-3E-56	03/18/01
Lead	EPA-6010	13.1	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	506	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	504	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS62.21-22401  
AES sample #: 010307BB38  
Samples taken by: A.L./S.L.  
MATRIX: Soil

Date Sampled: 02/24/01  
Date sample received: 03/07/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	12.6	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	91.1	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	21.1	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	313	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	564	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates

Date Sampled: 02/24/01

CLIENT'S SAMPLE ID: WP-SS630.2-22401

Date sample received: 03/07/01

AES sample #: 010307BB39

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Soil

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	4.06	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	35.4	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	13.5	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	120	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	206	ug/g	KH-I-3E-56	03/19/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS63.21-22401  
 AES sample #: 010307BB40

Date Sampled: 02/24/01  
 Date sample received: 03/07/01  
 Samples taken by: A.L./S.L.  
 Location: Ward 17092.003  
 MATRIX: Soil composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-23	03/15/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	03/20/01
Cadmium	EPA-6010	0.83	ug/g	KH-I-3E-56	03/19/01
Chromium	EPA-6010	31.0	ug/g	KH-I-3E-56	03/19/01
Lead	EPA-6010	14.0	ug/g	KH-I-3E-56	03/19/01
Nickel	EPA-6010	53.6	ug/g	KH-I-3E-56	03/19/01
Zinc	EPA-6010	84.7	ug/g	KH-I-3E-56	03/19/01

APPROVED BY:   
 Report date: 03/21/01



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Albany, New York 12207  
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1043

CHAIN OF CUSTODY RECORD

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Client Name: NORMANDEAU ASSOC.		Address: 25 NASHUA ROAD	
Send Report To: ALLARSON		Project Name (Location): WARD 17092.003	Samplers: (Names): ALLARSON / Stephen Lee
Client Phone No: 603-472-5191		PO Number:	Samplers: (Signature): <i>[Signature]</i> / Stephen Lee
Client Fax No: 603-472-7052			

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
D10307 BB01	WP-SS440.2-22401	2/24/01	1340	SOIL	X		1	SEE
BB02	WP-SS44.21-22401		1344					SPECIAL
BB03	WP-SS450.2-22401		1349					INSTRUCTIONS
BB04	WP-SS45.21-22401		1356					
BB05	WP-SS460.2-22401		1404					
BB06	WP-SS46.21-22401		1408					
BB07	WP-SS470.2-22401		1411					
BB08	WP-SS47.21-22401		1414					
BB09	WP-SS480.2-22401		1440					
BB10	WP-SS48.21-22401		1442					
BB11	WP-SS490.2-22401		1450					
BB12	WP-SS49.21-22401		1455					
BB13	WP-SS500.2-22401		1505					
BB14	WP-SS50.21-22401	✓	1510					

Turnaround Time Request: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day	Special Instructions/Remarks: ALL SAMPLES TO BE ANALYZED FOR: • CADMIUM • CHROMIUM (TOTAL + HEXAVALENT) • CYANIDE • LEAD • NICKEL • ZINC
---	---

CC Report To:	Received by: (Signature)	Date/Time
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Relinquished by: (Signature)	Received ofr Laboratory by:	Date/Time
------------------------------	-----------------------------	-----------

Relinquished by: (Signature)	Received ofr Laboratory by:	Date/Time
------------------------------	-----------------------------	-----------

TEMPERATURE Ambient or Chilled Notes: _____	PROPERLY PRESERVED Y      N Notes: _____ N/A	RECEIVED WITHIN HOLDING TIMES Y      N Notes: _____
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WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy





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243

# CHAIN OF CUSTODY RECORD

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Client Name: NORMANDEAU ASSOC.		Address: 25 NASHUA ROAD	
Send Report To: ALLARSON		Project Name (Location): WARD 17092.003	Samplers: (Names) BLARSON / Stephen Lee
Client Phone No: 603-472-5191		PO Number:	Samplers: (Signature) [Signature] / Stephen & Lee
Client Fax No: 603-472-7052			

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grid		
010307 BB15	WP-SS510.2-22401	2/24/01	1525	SOIL	X		1	SEC
BB16	WP-SS51.21-22401		1528					SPECIAL
BB17	WP-SS520.2-22401		1550					INSTRUCTIONS
BB18	WP-SS52.21-22401		1554					
BB19	WP-SS530.2-22401		1605					
BB20	WP-SS53.21-22401		1608					
BB21	WP-SS540.2-22401		1625					
BB22	WP-SS54.21-22401		1630					
BB23	WP-SS550.2-22401		1711					
BB24	WP-SS55.21-22401		1716					
BB25	WP-SS560.2-22401		1720					
BB26	WP-SS56.21-22401		1730					
BB27	WP-SS570.2-22401		1735					
BB28	WP-SS57.21-22401		1740					

Turnaround Time Request: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day	Special Instructions/Remarks ALL SAMPLES TO BE ANALYZED FOR: • CADMIUM • CHROMIUM (TOTAL + HEXAVALENT) • CYANIDE • LEAD • NICKEL • ZINC
CC Report To:	

Relinquished by (Signature): [Signature]	Received by (Signature):	Date/Time:
Relinquished by (Signature):	Received off Laboratory by: [Signature]	Date/Time: 3/7/01 18:45

TEMPERATURE Ambient or <u>Chilled</u>	PROPERLY PRESERVED Y N <u>N/A</u>	RECEIVED WITHIN HOLDING TIMES Y N <u>Y</u>
Notes: _____	Notes: _____	Notes: _____

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy





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Albany, New York 12207  
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CHAIN OF CUSTODY RECORD

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Client Name: NORMANDEAN ASSOC. Address: 25 NASHUA ROAD  
 Send Report To: ALLARSON Project Name (Location): Waco Samplers: (Names) ALLARSON / Stephen F. Lee  
 Client Phone No: 603-472-5191 PO Number: \_\_\_\_\_ Samplers: (Signature) [Signature] / Stephen F. Lee  
 Client Fax No: 603-472-7052

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A-a.m. P-p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
010307 BB29	WP-SS580.2-22401	2/24/01	1749	A P	SOIL	X	1	SEE
BB30	WP-SS58.21-22401		1757	A P				SPECIAL
BB31	WP-SS596.2-22401		1812	A P				INSTRUCTIONS
BB32	WP-SS59.21-22401		1816	A P				
BB33	WP-SS60.2-22401		1825	A P				
BB34	WP-SS60.21-22401		1831	A P				
BB35	WP-SS610.2-22401		1840	A P				
BB36	WP-SS61.21-22401		1847	A P				
BB37	WP-SS620.2-22401		1858	A P				
BB38	WP-SS62.21-22401		1903	A P				
BB39	WP-SS630.2-22401		1915	A P				
BB40	WP-SS69.21-22401		1920	A P				
				A P				
				A P				

Turnaround Time Request:  
 1 Day     3 Day     Normal  
 2 Day     5 Day

Special Instructions/Remarks:  
**ALL SAMPLES TO BE ANALYZED FOR:**  
 • CADMIUM  
 • CHROMIUM (TOTAL + HEXAVALENT)  
 • CYANIDE                      • NICKEL  
 • LEAD                            • ZINC

Relinquished by: (Signature) [Signature] Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Relinquished by: (Signature) [Signature] Received ofr Laboratory by: [Signature] Date/Time 3/7/01 18:4

TEMPERATURE Ambient or Chilled Notes: _____	PROPERLY PRESERVED Y N Notes: <u>N/A</u>	RECEIVED WITHIN HOLDING TIMES Y N Notes: _____
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WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy





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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SDEKUP0.5-040601

Date sample received: 04/09/01

AES sample #: 010409 A01

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	4.38	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SDEKUP.51-040601

Date sample received: 04/09/01

AES sample #: 010409 A02

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	9.01	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SDBKDN0.5-040601

Date sample received: 04/09/01

AES sample #: 010409 A03

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	4.56	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDBKDN.51-040601  
AES sample #: 010409 A04  
Date Sampled: 04/06/01  
Date sample received: 04/09/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Sediment  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	6.25	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS640.2-040601  
AES sample #: 010409 A05  
Date Sampled: 04/06/01  
Date sample received: 04/09/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Sediment  
composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	1.15	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	41.0	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	10.3	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	46.3	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	117	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS64.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A06

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	20.0	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	5.80	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	41.6	ug/g	SM-I-4B-2	04/09/01





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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS650.2-040601  
AES sample #: 010409 A07  
Samples taken by: A.L./S.L.  
MATRIX: Sediment  
Date Sampled: 04/06/01  
Date sample received: 04/09/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	10.4	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	120	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	40.5	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	112	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	266	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS55.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A08

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/BK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	3.00	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	63.8	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	9.90	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	55.4	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	79.9	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates Date Sampled: 04/06/01  
 CLIENT'S SAMPLE ID: WP-SS660.2-040601 Date sample received: 04/09/01  
 AES sample #: 010409 A09 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	1.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	25.4	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	14.8	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	13.0	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	59.5	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS66.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A10

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	45.8	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	12.2	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	15.7	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	72.5	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS670.2-040601  
 AES sample #: 010409 A11

Date Sampled: 04/06/01  
 Date sample received: 04/09/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	1.35	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	27.4	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	16.7	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	115	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	155	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS67.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A12

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	10.2	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	6.90	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	11.4	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	49.6	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS680.2-040601  
 AES sample #: 010409 A13

Date Sampled: 04/06/01  
 Date sample received: 04/09/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	1.00	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	33.3	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	17.2	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	63.0	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	135	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS68.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A14

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	12.5	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	7.05	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	8.05	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	51.5	ug/g	SM-I-4B-2	04/09/01





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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS690.2-040601

Date sample received: 04/09/01

AES sample #: 010409 A15

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	0.32	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	25.3	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	12.7	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	20.1	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	68	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS69.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A16

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	16.5	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	7.20	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	45.2	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS700.2-040601  
 AES sample #: 010409 A17

Date Sampled: 04/06/01  
 Date sample received: 04/09/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	26.8	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	12.6	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	7.30	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	63.0	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS70.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A18

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	51.0	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	11.9	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	3.23	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	33.8	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS710.2-040601  
AES sample #: 010409 A19  
Samples taken by: A.L./S.L.  
MATRIX: Sediment

Date Sampled: 04/06/01  
Date sample received: 04/09/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	0.30	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	14.8	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	18.7	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	4.85	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	132	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS71.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A20

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	12.3	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	8.10	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	2.80	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	46.6	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-SS720.2-040601

AES sample #: 010409 A21

Samples taken by: A.L./S.L.

MATRIX: Sediment

Date Sampled: 04/06/01

Date sample received: 04/09/01

Location: Ward 17092.003

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	4.86	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	78.7	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	26.2	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	132	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	292	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS72.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A22

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	11.8	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	5.30	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	39.0	ug/g	SM-I-4B-2	04/09/01





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CLIENT: Normandeau Associates Date Sampled: 04/06/01  
 CLIENT'S SAMPLE ID: WP-SS730.2-040601 Date sample received: 04/09/01  
 AES sample #: 010409 A23 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-2	04/09/01
Chromium	EPA-6010	19.7	ug/g	SM-I-4B-2	04/09/01
Lead	EPA-6010	13.2	ug/g	SM-I-4B-2	04/09/01
Nickel	EPA-6010	39.4	ug/g	SM-I-4B-2	04/09/01
Zinc	EPA-6010	95.0	ug/g	SM-I-4B-2	04/09/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS73.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A24

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	15.2	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	7.55	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	50.4	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates Date Sampled: 04/06/01  
CLIENT'S SAMPLE ID: WP-SS740.2-040601 Date sample received: 04/09/01  
AES sample #: 010409 A25 Samples taken by: A.L./S.L. Location: Ward 17092.003  
MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	8.75	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	5.55	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	30.3	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/06/01

CLIENT'S SAMPLE ID: WP-SS74.21-040601

Date sample received: 04/09/01

AES sample #: 010409 A26

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	11.2	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	10.6	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	37.3	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS750.2-040701  
AES sample #: 010409 A27  
Date Sampled: 04/07/01  
Date sample received: 04/09/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	2.90	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	56.5	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	22.5	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	22.8	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	140	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS75.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A28

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-29	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	6.95	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	96.0	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	38.1	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	94.0	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	263	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS760.2-040701  
 AES sample #: 010409 A29

Date Sampled: 04/07/01  
 Date sample received: 04/09/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	14.1	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	9.15	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	66	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS76.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A30

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	17.1	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	4.80	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	47.0	ug/g	SM-I-4B-3	04/10/01





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CLIENT: Normandeau Associates Date Sampled: 04/07/01  
 CLIENT'S SAMPLE ID: WP-SS770.2-040701 Date sample received: 04/09/01  
 AES sample #: 010409 A31 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	2.72	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	54.2	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	34.0	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	54.0	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	236	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS77.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A32

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	0.95	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	19.2	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	24.7	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	3.86	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	73	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates Date Sampled: 04/07/01  
 CLIENT'S SAMPLE ID: WP-SS780.2-040701 Date sample received: 04/09/01  
 AES sample #: 010409 A33 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	2.28	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	35.8	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	27.0	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	10.8	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	132	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS78.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A34

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	16.0	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	6.40	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	55.6	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS790.2-040701  
AES sample #: 010409 A35  
Samples taken by: A.L./S.L.  
MATRIX: Sediment  
Date Sampled: 04/07/01  
Date sample received: 04/09/01  
Location: Ward 17092.003 composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	3.03	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	42.5	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	17.2	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	28.2	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	94.5	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS79.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A36

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	1.35	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	32.0	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	17.0	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	19.0	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	160	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates Date Sampled: 04/07/01  
 CLIENT'S SAMPLE ID: WP-SS800.2-040701 Date sample received: 04/09/01  
 AES sample #: 010409 A37 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	2.67	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	59.0	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	28.8	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	30.1	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	157	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS80.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A38

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	27.0	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	19.8	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	8.00	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	106	ug/g	SM-I-4B-3	04/10/01





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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS810.2-040701

Date sample received: 04/09/01

AES sample #: 010409 A39

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	13.1	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	15.6	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	44.0	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS81.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A40

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	10.2	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	7.50	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	34.6	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates Date Sampled: 04/07/01  
 CLIENT'S SAMPLE ID: WP-SS820.2-040701 Date sample received: 04/09/01  
 AES sample #: 010409 A41 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	19.9	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	171	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	69.4	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	134	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	424	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS82.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A42

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	47.5	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	1134	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	496	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	670	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	962	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS830.2-040701  
AES sample #: 010409 A43

Date Sampled: 04/07/01  
Date sample received: 04/09/01  
Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	13.0	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	16.9	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	41.4	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates Date Sampled: 04/07/01  
 CLIENT'S SAMPLE ID: WP-SS83.21-040701 Date sample received: 04/09/01  
 AES sample #: 010409 A44 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	15.0	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	14.2	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	43.8	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS840.2-040701  
AES sample #: 010409 A45  
Date Sampled: 04/07/01  
Date sample received: 04/09/01  
Samples taken by: A.L./S.L.  
Location: Ward 17092.003  
MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	10.2	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	13.2	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	35.3	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS84.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A46

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	10.7	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	10.4	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	32.4	ug/g	SM-I-4B-3	04/10/01





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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS850.2-040701

Date sample received: 04/09/01

AES sample #: 010409 A47

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	5.65	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	10.6	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	22.3	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS85.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A48

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	8.30	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	6.95	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	24.7	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS860.2-040701  
 AES sample #: 010409 A49

Date Sampled: 04/07/01  
 Date sample received: 04/09/01  
 Location: Ward 17092.003 composite

Samples taken by: A.L./S.L.  
 MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-0-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	12.1	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	18.5	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	45.7	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS86.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A50

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	11.9	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	17.0	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	41.6	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS870.2-040701

Date sample received: 04/09/01

AES sample #: 010409 A51

Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	10.3	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	15.6	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	36.6	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates Date Sampled: 04/07/01  
 CLIENT'S SAMPLE ID: WP-SS87.21-040701 Date sample received: 04/09/01  
 AES sample #: 010409 A52 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	14.1	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	18.6	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.4	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	44.4	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates Date Sampled: 04/07/01  
 CLIENT'S SAMPLE ID: WP-SS880.2-040701 Date sample received: 04/09/01  
 AES sample #: 010409 A53 Samples taken by: A.L./S.L. Location: Ward 17092.003  
 MATRIX: Sediment composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	9.15	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	12.5	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	31.2	ug/g	SM-I-4B-3	04/10/01



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CLIENT: Normandeau Associates

Date Sampled: 04/07/01

CLIENT'S SAMPLE ID: WP-SS88.21-040701

Date sample received: 04/09/01

AES sample #: 010409 A54

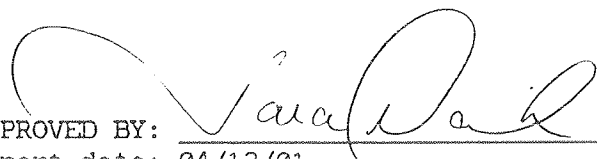
Samples taken by: A.L./S.L.

Location: Ward 17092.003

MATRIX: Sediment

composite

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	MC-O-30	04/12/01
Cyanide, Total	EPA-9012	<1	ug/g	MC-G	04/12/01
Cadmium	EPA-6010	<0.25	ug/g	SM-I-4B-3	04/10/01
Chromium	EPA-6010	16.5	ug/g	SM-I-4B-3	04/10/01
Lead	EPA-6010	10.8	ug/g	SM-I-4B-3	04/10/01
Nickel	EPA-6010	<2.5	ug/g	SM-I-4B-3	04/10/01
Zinc	EPA-6010	41.6	ug/g	SM-I-4B-3	04/10/01

APPROVED BY:   
 Report date: 04/13/01





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10/5

CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: **NORMANDEAU ASSOC.** Address: **25 NASHUA ROAD, BEDFORD, NH 03110**

Send Report To: **AL LARSON** Project Name (Location): **WARD PRODUCTS 17092.003** Samplers (Names): **AL LARSON / STEVE LEE**

Client Phone No: **603-472-5191** PO Number: \_\_\_\_\_ Samplers (Signature): *[Signature]*

Client Fax No: **603-472-**

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
010409 A01	WP-SDBKUP.0.5-040601	4/6/01	1407	A	SED	X	1	TOTAL: CADMIUM CHROMIUM NICKEL
A02	WP-SDBKUP.51-040601	}	1411	A				
A03	WP-SDBKDN.0.5-040601		1435	A				
A04	WP-SDBKDN.51-040601		1440	A				
					P			
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				

**(\*) NOTE (\*)** → AES # 010409 A22

Client ID taken from bottle

M. Kaskel, Fixed or Coc

(called Al Larson 4/9/01 9:20)

Will Fax over COC

Turnaround Time Request:  
 1 Day     3 Day     Normal  
 2 Day     5 Day → ONE WEEK

Special Instructions/Remarks:  
**ALL SAMPLES TO BE ANALYZED FOR:**  
 • CADMIUM  
 • CHROMIUM  
 • NICKEL  
**ALL TOTALS**

Relinquished by (Signature): *[Signature]* Received by (Signature): \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished by (Signature): \_\_\_\_\_ Received ofr Laboratory by: *M. L. P.* Date/Time: **4/9/01 6:45 am**

TEMPERATURE: Ambient or **Chilled**

PROPERLY PRESERVED: Y N  
 Notes: **N/A**

RECEIVED WITHIN HOLDING TIMES: **Y** N  
 Notes: \_\_\_\_\_

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy



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2015

# CHAIN OF CUSTODY RECORD

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Client Name: <b>NORMANDEAN ASSOCIATES</b>		Address: <b>25 NASHUA ROAD, BEEREE, NH 03110</b>	
Send Report To: <b>AL LARSON</b>		Project Name (Location): <b>WARD PRODUCTS</b>	Samplers: (Names): <b>AL LARSON / STEVE LEE</b>
Client Phone No: <b>603-472-5191</b>		PO Number:	Samplers: (Signature): <i>[Signatures]</i>
Client Fax No: <b>603-472-7052</b>			

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
010409 A05	WP-55640.2-040601	4/6/01	1551	SOIL	Y		1	SEE
A06	WP-5564.21-040601	↓	1555					REMARKS
A07	WP-55650.2-040601		1559					BELOW
A08	WP-5565.21-040601		1602					
A09	WP-55660.2-040601		1605					
A10	WP-5566.21-040601		1609					
A11	WP-55670.2-040601		1618					
A12	WP-5567.21-040601		1620					
A13	WP-55680.2-040601		1630					
A14	WP-5568.21-040601		1633					
A15	WP-55690.2-040601		1640					
A16	WP-5569.21-040601		1642					
A17	WP-55700.2-040601		1650					
A18	WP-5570.21-040601		1652					

Turnaround Time Request: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Normal <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> 5 Day → ONE WEEK	Special Instructions/Remarks: <b>ALL SAMPLES TO BE ANALYZED FOR:          CADMIUM, HEX CHROMIUM, TOTAL CHROMIUM, TOTAL CYANIDE, LEAD, NICKEL, ZINC</b>
--	---

CC Report To:	Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature)	Date/Time
	Relinquished by: (Signature)		Received for Laboratory by: <i>M-LP</i>	Date/Time: <b>4/9/01 6:45 AM</b>

TEMPERATURE Ambient or <b>Chilled</b>	PROPERLY PRESERVED Y N	RECEIVED WITHIN HOLDING TIMES <b>Y</b> N
Notes: _____	Notes: <i>[Signature]</i>	Notes: _____

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy





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Client Name: <b>NORMANDEAU ASSOCIATES</b>		Address: <b>25 NASHUA ROAD, BEAFORD, NH 03110</b>	
Send Report To: <b>AL LARSON</b>		Project Name (Location): <b>WARD PRODUCTS</b>	Samplers: (Names): <b>AL LARSON / STEVE LEE</b>
Client Phone No: <b>603-472-5191</b>		PO Number:	Samplers: (Signature): <i>Al Larson / Steve Lee</i>
Client Fax No: <b>603-472-7052</b>			

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required	
				Matrix	Comp	Grab			
010409 A19	WP-SS710.Z-040601	04/06/01	1704	SOIL	X		1	SEE REMARKS	
A20	WP-SS71.Z1-040601	↓	1705					BELOW	
A21	WP-SS720.Z-040601		1712						
A22	WP- <sup>(SS72.Z1)</sup> SS720.Z-040601		1718						
A23	WP-SS730.Z-040601		1725						
A24	WP-SS73.Z1-040601		1728						
A25	WP-SS740.Z-040601		1736						
A26	WP-SS74.Z1-040601		1738						
A27	WP-SS750.Z-040701		04/09/01	1057					
A28	WP-SS75.Z1-040701		↓	1010					
A29	WP-SS760.Z-040701			1016					
A30	WP-SS76.Z1-040701			1018					
A31	WP-SS770.Z-040701			1025					
A32	WP-SS77.Z1-040701			1029					

Turnaround Time Request: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Normal <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> 5 Day → ONE WEEK	Special Instructions/Remarks: <b>ALL SAMPLES TO BE ANALYZED: CADMIUM, HEX CHROMIUM, TOTAL CHROMIUM, TOTAL CYANIDE, LEAD NICKEL, ZINC</b>
CC Report To:	

Relinquished by: (Signature) <i>Al Larson</i>	Received by: (Signature) <i>M-LP</i>	Date/Time
Relinquished by: (Signature)	Received for Laboratory by:	Date/Time <b>4/9/01 6:45 AM</b>

TEMPERATURE: Ambient or <u>Chilled</u>	PROPERLY PRESERVED Y N <u>N/A</u>	RECEIVED WITHIN HOLDING TIMES <u>Y</u> N
Notes: _____	Notes: _____	Notes: _____

WHITE - Lab Copy      YELLOW - Sampler Copy      PINK - Generator Copy





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Albany, New York 12207  
518-434-4546/434-0891 FAX

4/5

CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: Normandeau Assoc		Address: 25 NASHUA ROAD, BEDFORD, NH 03110	
Send Report To: D. Larson		Project Name (Location): WIND PRODUCTS	Samplers: (Names): D. Larson, STEVE LEE
Client Phone No: 603-472-5191		PO Number:	Samplers: (Signature): <i>[Signatures]</i>
Client Fax No: 603-472-7052			

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
<del>A33</del> A33	WP-55780.2-040701	4/7/01	1032	SOIL	X		1	SEE REMARKS
A34	WP-5578.21-040701	↓	1034					BELW
010409 A35	WP-55790.2-040701		1040					
A36	WP-5579.21-040701		1044					
A37	WP-55800.2-040701		1048					
A38	WP-5580.21-040701		1050					
A39	WP-55810.2-040701		1146					
A40	WP-5581.21-040701		1150					
A41	WP-55820.2-040701		1216					
A42	WP-5582.21-040701		1218					
A43	WP-55830.2-040701		1234					
A44	WP-5583.21-040701		1238					
A45	WP-55840.2-040701		1234					
A46	WP-5584.21-040701		1238					

Turnaround Time Request: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Normal <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> 5 Day - 1 wk	Special Instructions/Remarks: All samples to be analyzed for: CADMIUM, HEX CHROMIUM, TOTAL CHROMIUM, TOTAL CYANIDE, LEAD, NICKEL & ZINC.
--	--

CC Report To:	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by: M.L.P.	Date/Time: 4/9/01 → 6:45 AM

TEMPERATURE: Ambient or <u>Chilled</u>	PROPERLY PRESERVED: Y    N <u>N/A</u>	RECEIVED WITHIN HOLDING TIMES: Y    N <u>Y</u>
Notes: _____	Notes: _____	Notes: _____

WHITE - Lab Copy      YELLOW - Sampler Copy      PINK - Generator Copy



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5015

CHAIN OF CUSTODY RECORD

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Client Name: Normanocan Associates	Address: 25 WASHINGTON ROAD, BEDFORD, NH 03110	
Send Report To: A Larson	Project Name (Location): WARD PRODUCTS	Samplers: (Names): A Larson / Steve Lee
Client Phone No: 603-472-5191	PO Number:	Samplers: (Signature): <i>[Signature]</i>
Client Fax No: 603-472-7052		

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time		Sample Type			Number of Cont's	Analysis Required
			A=a.m.	P=p.m.	Matrix	Comp	Grab		
010409 A47	WP-55850.2-040701	4/7/01	1306	A	SOIL	X		1	SEE REMARKS
A48	WP-5585.21-040701	↓	1310	A	↓	↓	↓	↓	BELOW
A49	WP-55860.2-040701		1320	A					
A50	WP-5586.2-1-040701		1322	A					
A51	WP-55870.2-040701		1334	A					
A52	WP-5587.21-040701		1338	A					
A53	WP-55880.2-040701		1342	A					
A54	WP-5588.21-040701		1344	A					
				P					
			P						
			P						
			P						
			P						
			P						
			P						
			P						
			P						
			P						
			P						

Turnaround Time Request: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Normal <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> 5 Day (1 WEEK)	Special Instructions/Remarks: ALL SAMPLES TO BE ANALYZED FOR: CADMIUM, HEX CHROMIUM, TOTAL CHROMIUM, TOTAL CYANIDE, LEAD, NICKEL & ZINC.	
CC Report To:		
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date/Time
Relinquished by: (Signature)	Received for Laboratory by: M. L. P.	Date/Time 4/9/01 6:45 PM

TEMPERATURE Ambient or <u>Chilled</u>	PROPERLY PRESERVED Y    N <u>N/A</u>	RECEIVED WITHIN HOLDING TIMES <u>Y</u> N
Notes: _____	Notes: _____	Notes: _____

WHITE - Lab Copy      YELLOW - Sampler Copy      PINK - Generator Copy





Experience is the solution

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CLIENT: Normandeau Associates Date Sampled: 06/06/01  
CLIENT'S SAMPLE ID: WP-SS-S53VOC-060601 Date sample received: 06/05/01  
AES sample #: 010606BA01 Samples taken by: A.L./S.L. Location: Ward Products  
MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromomethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Vinyl Chloride	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Chloroethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Methylene Chloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichlorofluoromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2-Dichloroethene Total	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chloroform	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Carbon Tetrachloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Bromo dichloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2 Dichloropropane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
trans-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Benzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Dibromochloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS-S53VOC-060601  
 AES sample #: 010606BA01  
 Samples taken by: A.L./S.L.  
 MATRIX: Soil

Date Sampled: 06/06/01  
 Date sample received: 06/06/01  
 Location: Ward Products grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
2-Chloroethylvinylether	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromoform	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,2,2-Tetrachloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Tetrachloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Toluene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chlorobenzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Ethylbenzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Xylenes, Total	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS-S88VOC-060601  
AES sample #: 010606BA02  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 06/06/01  
Date sample received: 06/06/01  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromomethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Vinyl Chloride	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Chloroethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Methylene Chloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichlorofluoromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2-Dichloroethene Total	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chloroform	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Carbon Tetrachloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Bromo dichloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2 Dichloropropane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
trans-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Benzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Dibromochloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01





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CLIENT: Normandeau Associates

Date Sampled: 06/06/01

CLIENT'S SAMPLE ID: WP-SS-S88VOC-060601

Date sample received: 06/06/01

AES sample #: 010606BA02

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
2-Chloroethylvinylether	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromoform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1,2,2-Tetrachloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Tetrachloroethene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Toluene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chlorobenzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Ethylbenzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Xylenes, Total	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS-S89VOC-060601  
AES sample #: 010606BA03  
Date Sampled: 06/06/01  
Date sample received: 06/06/01  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromomethane	EPA-8260	<10	ug/kg	JF-EY-04	06/07/01
Vinyl Chloride	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Chloroethane	EPA-8260	<10	ug/kg	JF-EY-04	06/07/01
Methylene Chloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichlorofluoromethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1-Dichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2-Dichloroethene Total	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chloroform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Carbon Tetrachloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Bromo dichloromethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2 Dichloropropane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
trans-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Trichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Benzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Dibromochloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates

Date Sampled: 06/06/01

CLIENT'S SAMPLE ID: WP-SS-S89VOC-060601

Date sample received: 06/06/01

AES sample #: 010606BA03

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-FY-04	06/07/01
2-Chloroethylvinylether	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromoform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1,2,2-Tetrachloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Tetrachloroethene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Toluene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chlorobenzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Ethylbenzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Xylenes, Total	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-SS-S90VOC-060601

AES sample #: 010606BA04

Samples taken by: A.L./S.L.

MATRIX: Soil

Date Sampled: 06/06/01

Date sample received: 06/06/01

Location: Ward Products  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromomethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Vinyl Chloride	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Chloroethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Methylene Chloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichlorofluoromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2-Dichloroethene Total	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chloroform	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Carbon Tetrachloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Bromo dichloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2 Dichloropropane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
trans-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Benzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Dibromochloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01



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CLIENT: Normandeau Associates

Date Sampled: 06/06/01

CLIENT'S SAMPLE ID: WP-SS-S90VOC-050501

Date sample received: 06/06/01

AES sample #: 010606BA04

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
2-Chloroethylvinylether	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromoform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1,2,2-Tetrachloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Tetrachloroethene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Toluene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chlorobenzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Ethylbenzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Xylenes, Total	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS-S91VOC-060601  
 AES sample #: 010606BA05  
 Date Sampled: 06/06/01  
 Date sample received: 06/06/01  
 Samples taken by: A.L./S.L.  
 Location: Ward Products  
 MATRIX: Soil  
 grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromomethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Vinyl Chloride	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Chloroethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Methylene Chloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichlorofluoromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2-Dichloroethene Total	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chloroform	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Carbon Tetrachloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Bromo dichloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,2 Dichloropropane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
trans-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Benzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Dibromochloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SS-S91VOC-060601  
 AES sample #: 010606BA05  
 Samples taken by: A.L./S.L.  
 MATRIX: Soil

Date Sampled: 06/06/01  
 Date sample received: 06/06/01  
 Location: Ward Products grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
2-Chloroethylvinylether	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromoform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1,2,2-Tetrachloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Tetrachloroethene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Toluene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chlorobenzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Ethylbenzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Xylenes, Total	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates Date Sampled: 05/06/01  
 CLIENT'S SAMPLE ID: WP-SS-S92VOC-060601 Date sample received: 05/06/01  
 AES sample #: 010606BA06 Samples taken by: A.L./S.L. Location: Ward Products  
 MATRIX: Soil grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8260	<10	ug/kg	JF-BY-04	05/07/01
Bromomethane	EPA-8260	<10	ug/kg	JF-EY-04	05/07/01
Vinyl Chloride	EPA-8260	<10	ug/kg	JF-BY-04	05/07/01
Chloroethane	EPA-8260	<10	ug/kg	JF-EY-04	05/07/01
Methylene Chloride	EPA-8260	<5	ug/kg	JF-BY-04	05/07/01
Trichlorofluoromethane	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
1,1-Dichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	05/07/01
1,1-Dichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
1,2-Dichloroethene Total	EPA-8260	<5	ug/kg	JF-BY-04	05/07/01
Chloroform	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
1,2-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	05/07/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
Carbon Tetrachloride	EPA-8260	<5	ug/kg	JF-BY-04	05/07/01
Bromo dichloromethane	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
1,2 Dichloropropane	EPA-8260	<5	ug/kg	JF-BY-04	05/07/01
trans-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
Trichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	05/07/01
Benzene	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
Dibromochloromethane	EPA-8260	<5	ug/kg	JF-BY-04	05/07/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01





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CLIENT: Normandeau Associates

Date Sampled: 06/06/01

CLIENT'S SAMPLE ID: WP-SS-S92VOC-050601

Date sample received: 05/06/01

AES sample #: 010606BA06

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
2-Chloroethylvinylether	EPA-8260	<10	ug/kg	JF-BY-04	05/07/01
Bromoform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1,2,2-Tetrachloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Tetrachloroethene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Toluene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chlorobenzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Ethylbenzene	EPA-8260	<5	ug/kg	JF-BY-04	05/07/01
Xylenes, Total	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates

Date Sampled: 06/06/01

CLIENT'S SAMPLE ID: WP-SS-393VOC-060601

Date sample received: 06/06/01

AES sample #: 010606BA07

Samples taken by: A.L./S.L.

Location: Ward Products  
grab

MATRIX: Soil

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromomethane	EPA-8260	<10	ug/kg	JF-EY-04	06/07/01
Vinyl Chloride	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Chloroethane	EPA-8260	<10	ug/kg	JF-EY-04	06/07/01
Methylene Chloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichlorofluoromethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1-Dichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2-Dichloroethene Total	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chloroform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Carbon Tetrachloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Bromo dichloromethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2 Dichloropropane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
trans-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Trichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Benzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Dibromochloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SS-S93VOC-060601  
AES sample #: 010606BA07  
Samples taken by: A.L./S.L.  
MATRIX: Soil  
Date Sampled: 06/06/01  
Date sample received: 06/06/01  
Location: Ward Products grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
2-Chloroethylvinylether	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromoform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1,2,2-Tetrachloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Tetrachloroethene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Toluene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chlorobenzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Ethylbenzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Xylenes, Total	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates

Date Sampled: 05/06/01

CLIENT'S SAMPLE ID: WP-SS-S94VOC-060601

Date sample received: 06/06/01

AES sample #: 010606BA08

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromomethane	EPA-8260	<10	ug/kg	JF-EY-04	06/07/01
Vinyl Chloride	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Chloroethane	EPA-8260	<10	ug/kg	JF-EY-04	06/07/01
Methylene Chloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichlorofluoromethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1-Dichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2-Dichloroethene Total	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chloroform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Carbon Tetrachloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Bromo dichloromethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2 Dichloropropane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
trans-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Trichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Benzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Dibromochloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates

Date Sampled: 06/06/01

CLIENT'S SAMPLE ID: WP-SS-S94VOC-060601

Date sample received: 06/06/01

AES sample #: 010606BA08

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
2-Chloroethylvinylether	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromoform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1,2,2-Tetrachloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Tetrachloroethene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Toluene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chlorobenzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Ethylbenzene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Xylenes, Total	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates

Date Sampled: 06/06/01

CLIENT'S SAMPLE ID: WP-SS-S95VOC-060501

Date sample received: 06/06/01

AES sample #: 010606BA09

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chloromethane	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Bromomethane	EPA-8260	<10	ug/kg	JF-EY-04	06/07/01
Vinyl Chloride	EPA-8260	<10	ug/kg	JF-BY-04	06/07/01
Chloroethane	EPA-8260	<10	ug/kg	JF-EY-04	06/07/01
Methylene Chloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Trichlorofluoromethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,1-Dichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1-Dichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2-Dichloroethene Total	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Chloroform	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2-Dichloroethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,1-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Carbon Tetrachloride	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Bromo dichloromethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
1,2 Dichloropropane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
trans-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Trichloroethene	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
Benzene	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01
Dibromochloromethane	EPA-8260	<5	ug/kg	JF-BY-04	06/07/01
1,1,2-Trichloroethane	EPA-8260	<5	ug/kg	JF-EY-04	06/07/01



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CLIENT: Normandeau Associates

Date Sampled: 05/05/01

CLIENT'S SAMPLE ID: WP-SS-S95VOC-060601

Date sample received: 05/05/01

AES sample #: 010606BA09

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Soil

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
cis-1,3-Dichloropropene	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
2-Chloroethylvinylether	EPA-8260	<10	ug/kg	JF-EY-04	05/07/01
Bromoform	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
1,1,2,2-Tetrachloroethane	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
Tetrachloroethene	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
Toluene	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
Chlorobenzene	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
Ethylbenzene	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01
Xylenes, Total	EPA-8260	<5	ug/kg	JF-EY-04	05/07/01

APPROVED BY:

Report date: 05/08/01



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Albany, New York 12207  
518-434-4546/434-0891 FAX

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Client Name: <b>NORMANDEAN ASSOCIATES</b>	Address: <b>25 NASHUA ROAD, BEAFORD, NH 03110</b>	
Send Report To: <b>ALLARSON</b>	Project Name (Location): <b>WORD PRODUCTS</b>	Samplers: (Names) <b>ALLARSON / STEVE LEE</b>
Client Phone No: <b>603-472-5191</b>	PO Number:	Samplers: (Signature) <i>[Signature]</i>
Client Fax No: <b>603-472-7052</b>		<i>[Signature]</i>

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time		Sample Type			Number of Cont's	Analysis Required
			A=a.m.	P=p.m.	Matrix	Comp	Grab		
D10606 BA01	WP-SS-553VOC-060601	06/06/01	1920	A	SOIL		X	1	8260
BA02	WP-SS-588VOC-060601		1440	A					
BA03	WP-SS-589VOC-060601		1505	A					
BA04	WP-SS-590VOC-060601		1525	A					
BA05	WP-SS-591VOC-060601		1600	A					
BA06	WP-SS-592VOC-060601		165	A					
BA07	WP-SS-593VOC-060601		1640	A					
BA08	WP-SS-594VOC-060601		1700	A					
BA09	WP-SS-595VOC-060601		1720	A					
				P					
				A					
				P					
				A					
				P					
				A					
				P					
				A					
				P					

Turnaround Time Request: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Normal <input checked="" type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day <b>IF POSSIBLE MONDAY PM?</b>	Special Instructions/Remarks <b>I will call TARD on THURSDAY MORNING TO SEE IF A TWO DAY TURNAROUND IS POSSIBLE.</b>
CC Report To:	

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date/Time <b>6/6/01</b>
Relinquished by: (Signature) <i>[Signature]</i>	Received for Laboratory by: <i>[Signature]</i>	Date/Time <b>6/6/01 18:40</b>

TEMPERATURE Ambient or <input checked="" type="radio"/> Chilled Notes: _____	PROPERLY PRESERVED <input checked="" type="radio"/> Y <input type="radio"/> N Notes: _____	RECEIVED WITHIN HOLDING TIMES <input checked="" type="radio"/> Y <input type="radio"/> N Notes: _____
--	--	---

WHITE - Lab Copy

YELLOW - Sampler Copy

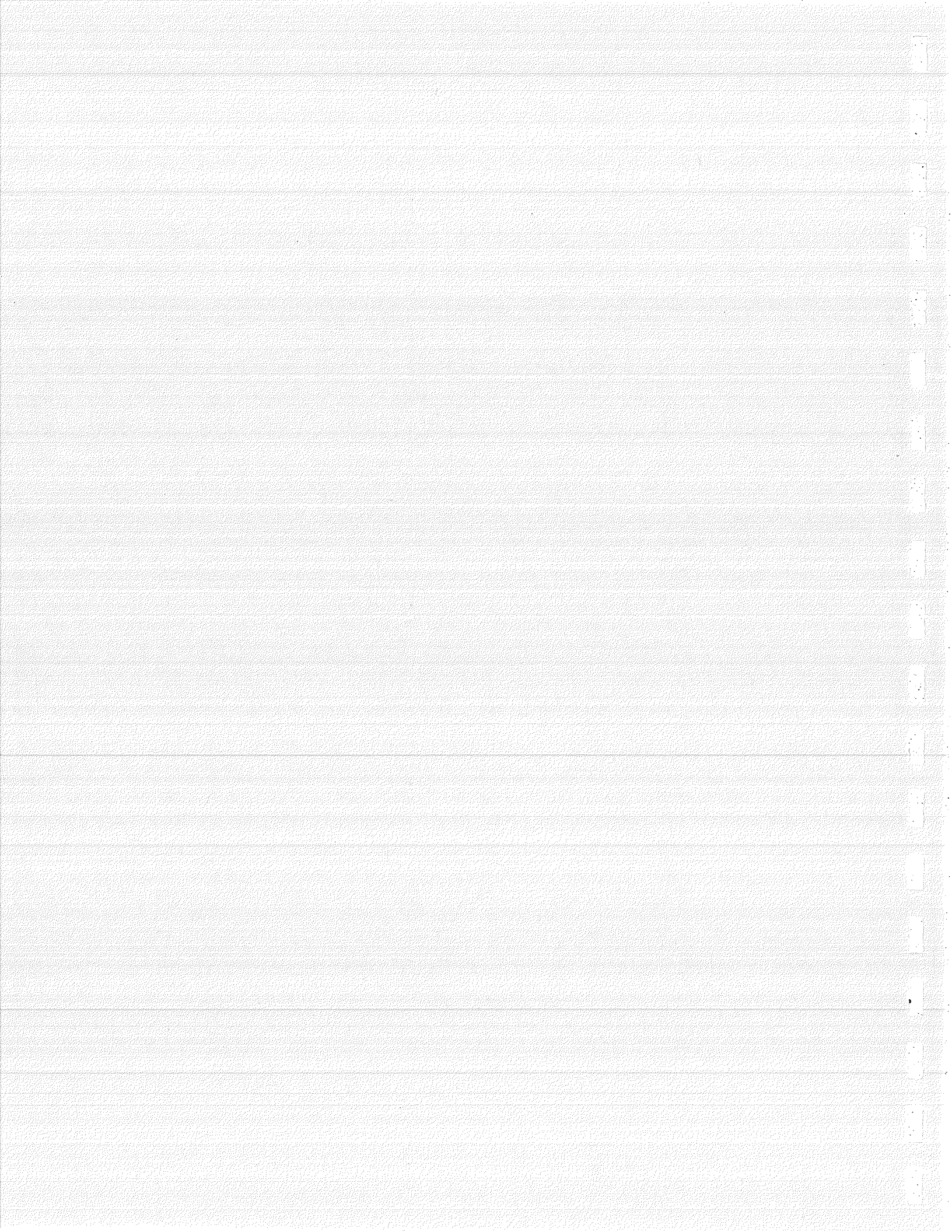
PINK - Generator Copy





**APPENDIX D**

**SEDIMENT SAMPLES COLLECTED  
FROM THE DRAINAGE DITCH  
AND LOWER DRAINAGES**



Sample Reference List for SDG # WAR09  
with a NYSDEC Package Type

Lab Sample Number	Sample Code	Client Sample Description
-----	-----	-----
2763692	SD105	WP-SD105-081897 Grab Soil Sample
2763693	105TL	WP-SD105-081897 Grab Soil Sample
2763694	SD151	WP-SD151-081897 Grab Soil Sample
2763695	151TL	WP-SD151-081897 Grab Soil Sample
2763696	SD205	WP-SD205-081897 Grab Soil Sample
2763697	205TL	WP-SD205-081897 Grab Soil Sample
2763698	SD251	WP-SD251-081897 Grab Soil Sample
2763699	251TL	WP-SD251-081897 Grab Soil Sample
2763700	SD305	WP-SD305-081897 Grab Soil Sample
2763701	305TL	WP-SD305-081897 Grab Soil Sample
2763702	SD351	WP-SD351-081897 Grab Soil Sample
2763703	351TL	WP-SD351-081897 Grab Soil Sample
2763704	SD405	WP-SD405-081897 Grab Soil Sample
2763705	405TL	WP-SD405-081897 Grab Soil Sample
2763706	SDDP-	WP-SDDP-081897 Grab Soil Sample
2763707	DDPTL	WP-SDDP-081897 Grab Soil Sample
2763708	SD451	WP-SD451-081897 Grab Soil Sample
2763709	451TL	WP-SD451-081897 Grab Soil Sample
2763710	SD505	WP-SD505-081897 Grab Soil Sample
2763711	505TL	WP-SD505-081897 Grab Soil Sample



LLI Sample No. SW 2763692

Collected: 8/18/97 at 14:40 by AL

Submitted: 8/20/97 Reported: 9/ 8/97

Discard: 9/19/97

WP-SD105-081897 Grab Soil Sample

Project #17092.003

Ward Products - NY

SD105 SDG#: WAR09-01

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	516.	2.0	mg/kg	628.	2.4
1651	Chromium	2,580.	4.0	mg/kg	3,130.	4.8
1655	Lead	179.	9.9	mg/kg	218.	12.
1661	Nickel	2,610.	5.0	mg/kg	3,170.	6.0
1672	Zinc	831.	9.9	mg/kg	1,010.	12.
5895	Total Cyanide (solid)	39.2	1.2	mg/kg	47.6	1.5
0111	Moisture	17.7	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	30.3	5.0	mg/kg	36.8	6.1

1 COPY TO Normandeu Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:09:53 D 0002 20 127551 578486  
 609 0.00 00015050 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

25





**LLI Sample No. TL 2763693**

Collected: 8/18/97 at 14:40 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
Discard: 9/19/97

WP-SD105-081897 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY  
105TL SDG#: WAR09-02

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	8.35	0.010	mg/l
1751	Chromium	0.128	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	3.10	0.050	mg/l
1772	Zinc	1.15	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:10:03 D 0002 20 127551 578486  
609 95.00 00020630 ASR000



Lancaster Laboratories  
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PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

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LLI Sample No. SW 2763694  
 Collected: 8/18/97 at 14:45 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
 Discard: 9/19/97

WP-SD151-081897 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 SD151 SDG#: WAR09-03

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	2.0	1.9	mg/kg	2.5	2.4
1651	Chromium	40.0	3.9	mg/kg	49.8	4.8
1655	Lead	31.0	9.7	mg/kg	39.	12.
1661	Nickel	46.0	4.9	mg/kg	57.3	6.0
1672	Zinc	193.	9.7	mg/kg	240.	12.
5895	Total Cyanide (solid)	0.33	0.12	mg/kg	0.42	0.15
0111	Moisture	19.7	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	< 10.	10.	mg/kg	< 12.	12.
	Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.					

1 COPY TO Normandeau Associates                      ATTN: Mr. Al Larson  
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick                      at (717) 656-2300  
 19:10:10 D 0002 20                      127551 578486  
 609 0.00 00015050 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





LLI Sample No. TL 2763695

Collected: 8/18/97 at 14:45 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
Discard: 9/19/97

WP-SD151-081897 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY  
151TL SDG#: WAR09-04

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	0.022	0.010	mg/l
1751	Chromium	< 0.030	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	0.077	0.050	mg/l
1772	Zinc	0.418	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:10:20 D 0002 20 127551 578486  
609 95.00 00020630 ASR000

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Ramona V. Layman  
Manager, Metals/Leachates

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Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





**LLI Sample No. SW 2763700**

Collected: 8/18/97 at 17:05 by AL

Submitted: 8/20/97 Reported: 9/ 8/97

Discard: 9/19/97

WP-SD305-081897 Grab Soil Sample

Project #17092.003

Ward Products - NY

SD305 SDG#: WAR09-09

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	52.1	2.0	mg/kg	66.5	2.5
1651	Chromium	460.	4.0	mg/kg	587.	5.1
1655	Lead	171.	9.9	mg/kg	219.	13.
1661	Nickel	310.	5.0	mg/kg	396.	6.3
1672	Zinc	189.	9.9	mg/kg	241.	13.
5895	Total Cyanide (solid)	2.62	0.12	mg/kg	3.35	0.16
0111	Moisture	21.6	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	27.	10.	mg/kg	35.	13.

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
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Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

33







LLI Sample No. TL 2763701

Collected: 8/18/97 at 17:05 by AL

Submitted: 8/20/97 Reported: 9/ 8/97

Discard: 9/19/97

WP-SD305-081897 Grab Soil Sample

TCLP NON-VOLATILE EXTRACTION

Ward Products - NY

305TL SDG#: WAR09-10

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	1.32	0.010	mg/l
1751	Chromium	0.053	0.030	mg/l
1755	Lead	0.20	0.10	mg/l
1761	Nickel	0.794	0.050	mg/l
1772	Zinc	0.728	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

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Questions? Contact your Client Services Representative  
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Lancaster, PA 17605-2425  
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Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





LLI Sample No. SW 2763702

Collected: 8/18/97 at 17:15 by AL

Submitted: 8/20/97 Reported: 9/ 8/97

Discard: 9/19/97

WP-SD351-081897 Grab Soil Sample

Project #17092.003

Ward Products - NY

SD351 SDG#: WAR09-11

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	< 2.0	2.0	mg/kg	< 2.6	2.6
1651	Chromium	29.7	4.0	mg/kg	38.1	5.1
1655	Lead	27.	10.	mg/kg	34.	13.
1661	Nickel	33.8	5.0	mg/kg	43.4	6.4
1672	Zinc	150.	10.	mg/kg	193.	13.
5895	Total Cyanide (solid)	1.83	0.12	mg/kg	2.35	0.16
0111	Moisture	22.1	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	< 10.	10.	mg/kg	< 13.	13.
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.						

1 COPY TO Normandeu Associates  
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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:11:23 D 0002 20 127551 578486  
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 PO Box 12425  
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Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





**LLI Sample No. TL 2763703**  
Collected: 8/18/97 at 17:15 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
Discard: 9/19/97

WP-SD351-081897 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY  
351TL SDG#: WAR09-12

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	0.017	0.010	mg/l
1751	Chromium	< 0.030	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	0.052	0.050	mg/l
1772	Zinc	0.515	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:11:33 D 0002 20 127551 578486  
609 95.00 00020630 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





**LLI Sample No. SW 2763704**

Collected: 8/18/97 at 17:55 by AL

Submitted: 8/20/97 Reported: 9/ 8/97

Discard: 9/19/97

WP-SD405-081897 Grab Soil Sample

Project #17092.003

Ward Products - NY

SD405 SDG#: WAR09-13

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	127.	2.0	mg/kg	165.	2.6
1651	Chromium	1,320.	3.9	mg/kg	1,730.	5.1
1655	Lead	142.	9.8	mg/kg	185.	13.
1661	Nickel	1,230.	4.9	mg/kg	1,600.	6.4
1672	Zinc	466.	9.8	mg/kg	607.	13.
5895	Total Cyanide (solid)	15.1	0.62	mg/kg	19.7	0.81
The matrix spike duplicate analyzed on this sample had a recovery of 146%. The acceptance window for this analysis is 75% to 125%. The blank and LCS/LCSD analyzed with the sample were within specifications.						
0111	Moisture	23.3	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	25.0	4.0	mg/kg	32.5	5.2

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:11:40 D 0002 20 127551 578486  
 609 0.00 00015050 ASR000



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 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
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Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

37





**LLI Sample No. TL 2763705**

Collected: 8/18/97 at 17:55 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
Discard: 9/19/97

WP-SD405-081897 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY  
405TL SDG#: WAR09-14

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	1.57	0.010	mg/l
1751	Chromium	0.042	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	0.889	0.050	mg/l
1772	Zinc	1.21	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

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1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:11:52 D 0002 20 127551 578486  
609 95.00 00020630 ASR000

**MEMBER**  
**ACIL**  
Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leadhates

38





LLI Sample No. SW **2763706**  
 Collected: 8/18/97 by AL

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Re1.

Submitted: 8/20/97 Reported: 9/ 8/97  
 Discard: 9/19/97

WP-SDDP-081897 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 SDDP- SDG#: WAR09-15

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	133.	2.0	mg/kg	160.	2.4
1651	Chromium	1,470.	4.0	mg/kg	1,770.	4.8
1655	Lead	131.	9.9	mg/kg	157.	12.
1661	Nickel	1,160.	5.0	mg/kg	1,400.	6.0
1672	Zinc	434.	9.9	mg/kg	522.	12.
5895	Total Cyanide (solid)	15.0	0.63	mg/kg	18.1	0.75
0111	Moisture	16.9	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	33.2	4.0	mg/kg	39.9	4.8

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:12:01 D 0002 20 127551 578486  
 609 0.00 00015050 ASR000



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 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

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LLI Sample No. TL **2763707**  
Collected: 8/18/97 by AL

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

Submitted: 8/20/97 Reported: 9/ 8/97  
Discard: 9/19/97

WP-SDDP-081897 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY  
DOPTL SDG#: WAR09-16

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	1.57	0.010	mg/l
1751	Chromium	0.041	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	0.956	0.050	mg/l
1772	Zinc	1.03	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:12:17 D 0002 20 127551 578486  
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Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

40





LLI Sample No. SW 2763708

Collected: 8/18/97 at 18:35 by AL

Submitted: 8/20/97 Reported: 9/ 8/97

Discard: 9/19/97

WP-SD451-081897 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 SD451 SDG#: WAR09-17

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Re1.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	31.4	2.0	mg/kg	37.2	2.4
1651	Chromium	334.	4.0	mg/kg	395.	4.7
1655	Lead	31.	10.	mg/kg	37.	12.
1661	Nickel	349.	5.0	mg/kg	413.	5.9
1672	Zinc	104.	10.	mg/kg	123.	12.
5895	Total Cyanide (solid)	3.91	0.12	mg/kg	4.63	0.15
0111	Moisture	15.5	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	21.	10.	mg/kg	25.	12.

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
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 609 0.00 00015050 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

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Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





LLI Sample No. TL **2763709**  
 Collected: 8/18/97 at 18:35 by AL

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

Submitted: 8/20/97 Reported: 9/ 8/97  
 Discard: 9/19/97

WP-SD451-081897 Grab Soil Sample  
 TCLP NON-VOLATILE EXTRACTION  
 Ward Products - NY  
 451TL SDG#: WAR09-18

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	0.276	0.010	mg/l
1751	Chromium	< 0.030	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	0.264	0.050	mg/l
1772	Zinc	0.147	0.025	mg/l
0237	Total Cyanide (water)	0.0189	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

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ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
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 19:12:36 D 0002 20 127551 578486  
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 Ramona V. Layman  
 Manager, Metals/Leachates

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LLI Sample No. SW 2763710

Collected: 8/18/97 at 18:55 by AL

Submitted: 8/20/97 Reported: 9/ 8/97

Discard: 9/19/97

WP-SD505-081897 Grab Soil Sample

Project #17092.003

Ward Products - NY

SD505 SDG#: WAR09-19

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	142.	2.0	mg/kg	171.	2.4
1651	Chromium	1,210.	4.0	mg/kg	1,460.	4.8
1655	Lead	188.	10.	mg/kg	227.	12.
1661	Nickel	1,550.	5.0	mg/kg	1,860.	6.0
1672	Zinc	901.	10.	mg/kg	1,080.	12.
5895	Total Cyanide (solid)	7.78	0.25	mg/kg	9.35	0.30
0111	Moisture	16.8	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	17.8	4.0	mg/kg	21.3	4.8

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:12:42 D 0002 20 127551 578486  
 609 0.00 00015050 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

43



LLI Sample No. TL 2763711  
 Collected: 8/18/97 at 18:55 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
 Discard: 9/19/97

WP-SD505-081897 Grab Soil Sample  
 TCLP NON-VOLATILE EXTRACTION  
 Ward Products - NY  
 505TL SDG#: WAR09-20\*

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	LIMIT OF QUANTITATION	
1749	Cadmium	1.50	0.010	mg/l
1751	Chromium	0.046	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	1.36	0.050	mg/l
1772	Zinc	2.28	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:12:55 D 0002 20 127551 578486  
 609 95.00 00020630 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681





Sample Reference List for SDG # WAR10  
with a Package Type of I

Lab Sample Number	Sample Code	Client Sample Description
2763754	LVDG-	WP-SD551-081897 Grab Soil Sample
2763755	551TL	WP-SD551-081897 Grab Soil Sample
2763756	SD605	WP-SD605-081897 Grab Soil Sample
2763757	605TL	WP-SD605-081897 Grab Soil Sample
2763758	SD651	WP-SD651-081897 Grab Soil Sample
2763759	651TL	WP-SD651-081897 Grab Soil Sample



LLI Sample No. SW 2763754

Collected: 8/18/97 at 19:05 by AL

Submitted: 8/20/97 Reported: 9/ 8/97

Discard: 9/19/97

WP-SD551-081897 Grab Soil Sample

Project #17092.003

Ward Products - NY

LVVG- SDG#: WAR10-01

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	131.	2.0	mg/kg	149.	2.3
1651	Chromium	1,200.	4.0	mg/kg	1,360.	4.5
1655	Lead	118.	10.	mg/kg	133.	11.
1661	Nickel	1,390.	5.0	mg/kg	1,580.	5.7
1672	Zinc	712.	10.	mg/kg	808.	11.
5895	Total Cyanide (solid)	9.08	0.25	mg/kg	10.3	0.28
0111	Moisture	11.9	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	8.2	5.0	mg/kg	9.3	5.7

1 COPY TO Normandeu Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:13:39 D 0002 6 578493  
 609 90.00 00024200 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates





**LLI Sample No. TL 2763755**  
 Collected: 8/18/97 at 19:05 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
 Discard: 9/19/97

WP-SD551-081897 Grab Soil Sample  
 TCLP NON-VOLATILE EXTRACTION  
 Ward Products - NY  
 551TL SDG#: WAR10-02

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	1.77	0.010	mg/l
1751	Chromium	0.056	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	1.61	0.050	mg/l
1772	Zinc	1.81	0.025	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic 5.0	Cadmium 1.0	Lead 5.0	Selenium 1.0
Barium 100.0	Chromium 5.0	Mercury 0.2	Silver 5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.			
0237	Total Cyanide (water)	< 0.0050	0.0050 mg/l
0276	Hexavalent Chromium	0.016	0.010 mg/l

1 COPY TO Normandeau Associates                      ATTN: Mr. Al Larson  
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick                      at (717) 656-2300  
 19:13:54 D 0002                      6                      578493  
 609 125.00 00025900 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

12





**LLI Sample No. SW 2763756**

Collected: 8/18/97 at 19:25 by AL

Submitted: 8/20/97 Reported: 9/ 8/97

Discard: 9/19/97

WP-SD605-081897 Grab Soil Sample  
 Project #17092.003  
 Ward Products - NY  
 SD605 SDG#: WAR10-03

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	86.3	2.0	mg/kg	111.	2.6
1651	Chromium	731.	4.0	mg/kg	943.	5.2
1655	Lead	117.	10.	mg/kg	151.	13.
1661	Nickel	772.	5.0	mg/kg	996.	6.5
1672	Zinc	429.	10.	mg/kg	553.	13.
5895	Total Cyanide (solid)	6.00	0.12	mg/kg	7.74	0.16
0111	Moisture	22.5	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0425	Hexavalent Chromium (SOLIDS)	22.9	4.0	mg/kg	29.5	5.2

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 19:14:04 D 0002 6 578493  
 609 90.00 00024200 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates







**LLI Sample No. TL 2763757**

Collected: 8/18/97 at 19:25 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
Discard: 9/19/97

WP-SD605-081897 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY  
605TL SDG#: WAR10-04

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	1.33	0.010	mg/l
1751	Chromium	0.031	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	0.840	0.050	mg/l
1772	Zinc	1.17	0.025	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:14:18 D 0002 6 578493  
609 125.00 00025900 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681



**LLI Sample No. SW 2763758**

Collected: 8/18/97 at 19:35 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
Discard: 9/19/97

WP-SD651-081897 Grab Soil Sample  
Project #17092.003  
Ward Products - NY  
SD651 SDG#: WAR10-05

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED			DRY WEIGHT	
		RESULTS	LIMIT OF QUANTITATION	UNITS	RESULTS	LIMIT OF QUANTITATION
1649	Cadmium	50.3	1.9	mg/kg	61.6	2.4
1651	Chromium	255.	3.9	mg/kg	313.	4.8
1655	Lead	20.6	9.7	mg/kg	25.	12.
1661	Nickel	285.	4.9	mg/kg	349.	5.9
1672	Zinc	149.	9.7	mg/kg	183.	12.
5895	Total Cyanide (solid)	5.66	0.12	mg/kg	6.94	0.15
0111	Moisture	18.4	0.50	% by wt.		
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.						
0425	Hexavalent Chromium (SOLIDS)	12.	10.	mg/kg	15.	12.

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:14:27 D 0002 6 578493  
609 90.00 00024200 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717.656.2300 Fax 717.656.2691

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

15



**LLI Sample No. TL 2763759**

Collected: 8/18/97 at 19:35 by AL

Submitted: 8/20/97 Reported: 9/ 8/97  
Discard: 9/19/97

WP-SD651-081897 Grab Soil Sample  
TCLP NON-VOLATILE EXTRACTION  
Ward Products - NY  
651TL SDG#: WAR10-06\*

Account No: 08863  
Normandeu Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1749	Cadmium	1.15	0.010	mg/l
1751	Chromium	< 0.030	0.030	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	0.469	0.050	mg/l
1772	Zinc	0.598	0.025	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in the June 29, 1990 Federal Register. A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

The limits are published in March 29, 1990 Federal Register, pp. 11845-6.

0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l

1 COPY TO Normandeu Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
19:14:40 D 0002 6 578493  
609 125.00 00025900 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

16

## Metals Data (Soil)



For Lancaster Laboratories use only  
 Acct. # 8863 Sample # 2763754-59

Please print. Instructions on reverse side correspond with circled numbers.

Client: NORMANDEAU ASSOC. Acct. #: \_\_\_\_\_  
 Project Name #: WARD 17092.003 PWSID #: \_\_\_\_\_  
 Project Manager: BULLIMSON P.O. #: \_\_\_\_\_  
 Sampler: BULLIMSON Quote #: \_\_\_\_\_

Name of state where samples were collected: NEW YORK

Matrix (4)	Analysis Requested (5)	For lab use only
Water	CADMIUM 6010A	FSC: _____
Soil	6010A	SCR #: <u>1100714</u>
Sludge	TOTAL HEX CHROMIUM	
Other	CYANIDE 901Z	
	LEAD 6010A	
	NICKEL 6010A	
	ZINC 6010A	

Sample Identification	Date Collected	Time Collected	3		Soil	Water	Sludge	Other	Total of container	5							Remarks	
			Grain	Composite						CADMIUM 6010A	6010A	TOTAL HEX CHROMIUM	CYANIDE 901Z	LEAD 6010A	NICKEL 6010A	ZINC 6010A		
WP-SD551-081897	8/18/97	1905	X	X					2	X	X	X	X	X	X	X	5	TOTAL AND
WP-SD605-081897		1925																TCLP FOR ALL
WP-SD651-081897		1935																SAMPLES.
																		TCLP 1311

Turnaround Time Requested (TAT) (please circle): Normal Rush  
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)  
 Date results are needed: 2-3 WEEKS  
 Rush results requested by: (please circle): Phone: Fax:  
 Phone #: 603-472-5191 Fax #: 603-472-7052

Data Package Options (please circle if requested):  
 QC Summary: Type VI (Raw Data) SDG Complete? Yes No  
 Type I (Tier I) GLP  
 Type II (Tier II) Other  
 Type III (US Red Del.)  
 Type IV (CEP) WYSASP CATB

Site-specific QC required? Yes No  
 (If Yes, indicate QC sample and submit triplicate volume.)  
 Internal Chain of Custody required? Yes No

Relinquished by: <u>[Signature]</u>	Date: <u>8/19/97</u>	Time: <u>0700</u>	Received by: <u>[Signature]</u>	Date: <u>8/17/97</u>	Time: <u>1105</u>
Relinquished by: <u>[Signature]</u>	Date: <u>8/19/97</u>	Time: <u>0830</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>[Signature]</u>	Date: _____	Time: _____

Sample Reference List for SDG # WRI01  
with a Package Type of NYSDEC

Lab Sample Number	Sample Code	Client Sample Description
2828252	WP701	WP-SP701-112197 Grab Soil Sample
2828253	WP712	WP-SP712-112197 Grab Soil Sample
2828254	MD01-	x WP-SDMD01-112197 Grab Soil Sample
2828255	MD12-	x WP-SDMD12-112197 Grab Soil Sample
2828256	10005	x WP-SDDN10005-112197 Grab Soil Sample
2828257	10051	x WP-SDDN10051-112197 Grab Soil Sample
2828258	20005	x WP-SDDN20005-112197 Grab Soil Sample
2828259	20051	x WP-SDDN20051-112197 Grab Soil Sample
2828260	OUT-1	x WP-SDOUT01-112197 Grab Soil Sample
2828261	OUT12	x WP-SDOUT12-112197 Grab Soil Sample
2828262	SL705	WP-SL705-112197 Grab Soil Sample
2828263	SL805	WP-SL805-112197 Grab Soil Sample
2828264	SL905	WP-SL905-112197 Grab Soil Sample
2828265	S1005	WP-SL1005-112197 Grab Soil Sample
2828266	S1105	WP-SL1105-112197 Grab Soil Sample
2828267	S1205	WP-SL1205-112197 Grab Soil Sample
2828268	SP501	WP-SP501-112197 Grab Soil Sample
2828269	SP512	WP-SP512-112197 Grab Soil Sample
2828270	SP601	WP-SP601-112197 Grab Soil Sample
2828271	SP612	WP-SP612-112197 Grab Soil Sample



LLI Sample No. SW 2828254

Collected: 11/21/97 at 12:15 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SDMD01-112197 Grab Soil Sample

Ward RI - Project No. 17092.003

MD01- SDG#: WRI01-03

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	13.6	2.0	mg/kg
1651	Chromium	108.	4.0	mg/kg
1655	Lead	86.	10.	mg/kg
1672	Zinc	571.	10.	mg/kg
6961	Nickel TR	168.	0.60	mg/kg
5895	Total Cyanide (solid)	< 0.12	0.12	mg/kg
0111	Moisture	25.7	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 10.	10.	mg/kg
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.				

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 12:05:42 D 0002 20 127551 592259  
 232 0.00 00015450 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

27



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



LLI Sample No. SW 2828255

Collected: 11/21/97 at 12:30 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SDMD12-112197 Grab Soil Sample

Ward RI - Project No. 17092.003

MD12- SDG#: WRI01-04

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	9.5	2.0	mg/kg
1651	Chromium	91.9	4.0	mg/kg
1655	Lead	183.	10.	mg/kg
1672	Zinc	242.	10.	mg/kg
6961	Nickel TR	105.	0.60	mg/kg
5895	Total Cyanide (solid)	0.16	0.12	mg/kg
0111	Moisture	29.4	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 10.	10.	mg/kg
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.				

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 12:06:18 D 0002 20 127551 592259  
 232 0.00 00015450 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

28



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681







**LLI Sample No. SW 2828256**

Collected: 11/21/97 at 14:40 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SDON10005-112197 Grab Soil Sample

Ward RI - Project No. 17092.003  
10005 SDG#: WRI01-05

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	33.4	2.0	mg/kg
1651	Chromium	213.	4.0	mg/kg
1655	Lead	23.	10.	mg/kg
1672	Zinc	118.	10.	mg/kg
6961	Nickel TR	165.	0.60	mg/kg
5895	Total Cyanide (solid)	1.35	0.12	mg/kg
0111	Moisture	18.9	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	8.1	1.0	mg/kg

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
12:06:52 D 0002 20 127551 592259  
232 0.00 00015450 ASR000

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

29



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681





LLI Sample No. SW 2828257

Collected: 11/21/97 at 14:50 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SDDN10051-112197 Grab Soil Sample

Ward RI - Project No. 17092.003

10051 SDG#: WRI01-06

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	LIMIT OF		UNITS
		RESULTS	QUANTITATION	
1649	Cadmium	2.3	2.0	mg/kg
1651	Chromium	51.3	4.0	mg/kg
1655	Lead	< 10.	10.	mg/kg
1672	Zinc	45.	10.	mg/kg
6961	Nickel TR	45.2	0.60	mg/kg
5895	Total Cyanide (solid)	0.74	0.12	mg/kg
0111	Moisture	22.7	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	3.4	1.0	mg/kg

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 12:07:25 D 0002 20 127551 592259  
 232 0.00 00015450 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

30



LLI Sample No. SW 2828258

Collected: 11/21/97 at 15:05 by SL

Submitted: 11/22/97 Reported: 12/26/97  
Discard: 1/10/98

WP-SDDN20005-112197 Grab Soil Sample

Ward RI - Project No. 17092.003  
20005 SDG#: WRI01-07

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	30.5	2.0	mg/kg
1651	Chromium	267.	4.0	mg/kg
1655	Lead	33.	10.	mg/kg
1672	Zinc	121.	10.	mg/kg
6961	Nickel TR	142.	0.60	mg/kg
5895	Total Cyanide (solid)	1.90	0.12	mg/kg
0111	Moisture	32.9	0.50	% by wt.
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.				
0425	Hexavalent Chromium (SOLIDS)	< 5.0	5.0	mg/kg
Due to interferences from the sample matrix, the limit of quantitation for the hexavalent chromium determination was increased.				

1 COPY TO Normandeau Associates                      ATTN: Mr. Al Larson  
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative  
Lisa M. Hetrick                      at (717) 656-2300  
12:08:04 D 0002 20                      127551 592259  
232 0.00 00015450 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates





LLI Sample No. SW 2828259  
 Collected: 11/21/97 at 15:20 by SL

Submitted: 11/22/97 Reported: 12/26/97  
 Discard: 1/10/98

WP-SDDN20051-112197 Grab Soil Sample

Ward RI - Project No. 17092.003  
 20051 SDG#: WRI01-08

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1649	Cadmium	29.3	2.0	mg/kg
1651	Chromium	302.	4.0	mg/kg
1655	Lead	14.	10.	mg/kg
1672	Zinc	71.	10.	mg/kg
6961	Nickel TR	246.	0.60	mg/kg
5895	Total Cyanide (solid)	4.88	0.12	mg/kg
0111	Moisture	25.1	0.50	% by wt.
	*Moisture* represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
0425	Hexavalent Chromium (SOLIDS)	7.6	1.0	mg/kg

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 12:08:51 D 0002 20 127551 592259  
 232 0.00 00015450 ASR000



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax 717-656-2681

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

32





LLI Sample No. SW 2828260

Collected: 11/21/97 at 13:15 by SL

Submitted: 11/22/97 Reported: 12/26/97

Discard: 1/10/98

WP-SDOUT01-112197 Grab Soil Sample

Ward RI - Project No. 17092.003

OUT-1 SDG#: WRI01-09

Account No: 08863  
Normandeau Associates  
25 Nashua Road  
Bedford NH 03110-5500

P.O. 17092.003  
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1177	PPL + Xylene (total) by 8240			See Page 2
0111	Moisture	24.6	0.50	% by wt.
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
1562	Petroleum Hydrocarbons	3,000.	1,000.	mg/kg

1 COPY TO Normandeau Associates  
1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
Lisa M. Hetrick at (717) 656-2300  
12:09:34 D 0002 20 127551 592259  
232 0.00 00036000 ASR000



Lancaster Laboratories  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97

Respectfully Submitted  
Ramona V. Layman  
Manager, Metals/Leachates

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LLI Sample No. SW 2828260  
 Collected: 11/21/97 at 13:15 by SL

Submitted: 11/22/97 Reported: 12/26/97  
 Discard: 1/10/98

WP-SDOUT01-112197 Grab Soil Sample

Ward RI - Project No. 17092.003  
 OUT-1 SDG#: WRI01-09

Account No: 08863  
 Normandeu Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
3434	Chloromethane	< 5.	5.	ug/kg
3435	Bromomethane	< 5.	5.	ug/kg
3436	Vinyl Chloride	< 5.	5.	ug/kg
3437	Chloroethane	< 5.	5.	ug/kg
3438	Acrolein	< 100.	100.	ug/kg
3439	Acrylonitrile	< 50.	50.	ug/kg
3440	Methylene Chloride	< 5.	5.	ug/kg
3441	Trichlorofluoromethane	< 5.	5.	ug/kg
1180	1,1-Dichloroethene	< 5.	5.	ug/kg
3442	1,1-Dichloroethane	< 5.	5.	ug/kg
3444	Chloroform	< 5.	5.	ug/kg
3445	1,2-Dichloroethane	< 5.	5.	ug/kg
3446	1,1,1-Trichloroethane	< 5.	5.	ug/kg
3447	Carbon Tetrachloride	< 5.	5.	ug/kg
3448	Bromodichloromethane	< 5.	5.	ug/kg
3449	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/kg
3450	1,2-Dichloropropane	< 5.	5.	ug/kg
3451	trans-1,3-Dichloropropene	< 5.	5.	ug/kg
1181	Trichloroethene	< 5.	5.	ug/kg
3452	Dibromochloromethane	< 5.	5.	ug/kg
3453	1,1,2-Trichloroethane	< 5.	5.	ug/kg
1182	Benzene	< 5.	5.	ug/kg
3454	cis-1,3-Dichloropropene	< 5.	5.	ug/kg
3455	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/kg
3456	Bromoform	< 5.	5.	ug/kg
3457	Tetrachloroethene	< 5.	5.	ug/kg
1183	Toluene	< 5.	5.	ug/kg
1184	Chlorobenzene	< 5.	5.	ug/kg
3458	Ethylbenzene	< 5.	5.	ug/kg
3355	Xylene (total)	< 5.	5.	ug/kg
6187	trans-1,2-Dichloroethene	< 5.	5.	ug/kg
6277	cis-1,2-Dichloroethene	< 5.	5.	ug/kg

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300

Respectfully Submitted  
 Duane A. Luckenbill, B.S.  
 Group Leader, GC/MS Volatiles

34



Lancaster Laboratories  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681



**LLI Sample No. SW 2828261**  
 Collected: 11/21/97 at 13:25 by SL

Submitted: 11/22/97 Reported: 12/26/97  
 Discard: 1/10/98

WP-SDOUT12-112197 Grab Soil Sample

Ward RI - Project No. 17092.003  
 OUT12 SDG#: WRI01-10

Account No: 08863  
 Normandeau Associates  
 25 Nashua Road  
 Bedford NH 03110-5500

P.O. 17092.003  
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	LIMIT OF QUANTITATION	
1177	PPL + Xylene (total) by 8240			See Page 2
0111	Moisture	16.3	0.50	% by wt.
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.			
1562	Petroleum Hydrocarbons	5,000.	2,000.	mg/kg

1 COPY TO Normandeau Associates  
 1 COPY TO Data Package Group

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative  
 Lisa M. Hetrick at (717) 656-2300  
 12:10:49 D 0002 20 127551 592259  
 232 0.00 00036000 ASR000

Respectfully Submitted  
 Ramona V. Layman  
 Manager, Metals/Leachates

35



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 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax 717-656-2681





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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SDCULED.2-82599

Date sample received: 08/26/99

AES sample #: 990825BDO1

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Sediment

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.4	ug/g	FL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	169	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	20.5	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	16.4	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	103	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	95.0	ug/g	CG-I-3A-72	08/27/99





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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SDCULE.2.5-82599

Date sample received: 08/26/99

AES sample #: 990825BDO2

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Sediment

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	287	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	44.7	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	17.1	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	266	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	123	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SDCULE.51-82599

Date sample received: 08/26/99

AES sample #: 990825BDO3

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Sediment

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	6.5	ug/g	MC-D	09/02/99
Chromium	EPA-6010	660	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	71.0	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	26.5	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	605	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	209	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SDCULWD.2-82599

Date sample received: 08/26/99

AES sample #: 990825BDO4

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Sediment

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	87.5	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	67.0	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	16.3	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	86.5	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	103	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDCULW.51-82599  
AES sample #: 990825BDO5

Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Samples taken by: A.L./S.L.  
Location: Ward Products grab  
MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	0.74	ug/g	PL-H-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	214	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	26.5	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	18.8	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	102	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	85.0	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SDCULW.2.5-82599  
 AES sample #: 990825BDO6  
 Samples taken by: A.L./S.L.  
 MATRIX: Sediment

Date Sampled: 08/25/99  
 Date sample received: 08/26/99  
 Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	1.7	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	700	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	31.8	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	24.1	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	210	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	130	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SODS4000.2-82599

Date sample received: 08/26/99

AES sample #: 990825BDO7

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Sediment

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	252	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	12.4	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	6.4	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	97.0	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	93.0	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDDS400.51-82599  
AES sample #: 990825BD08  
Date Sampled: 08/25/99  
Date sample received: 08/26/99  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	102	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	5.00	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	8.4	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	48.0	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	60.5	ug/g	CG-I-3A-72	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/25/99

CLIENT'S SAMPLE ID: WP-SDDS400.2.5-82599

Date sample received: 08/26/99

AES sample #: 990825BDO9

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Sediment

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SW-846 7196	<0.40	ug/g	PL-M-40	08/27/99
Cyanide, Total	EPA-9012	<1	ug/g	MC-D	09/02/99
Chromium	EPA-6010	150	ug/g	CG-I-3A-72	08/27/99
Cadmium	EPA-6010	5.65	ug/g	CG-I-3A-72	08/27/99
Lead	EPA-6010	9.9	ug/g	CG-I-3A-72	08/27/99
Nickel	EPA-6010	69.5	ug/g	CG-I-3A-72	08/27/99
Zinc	EPA-6010	93.5	ug/g	CG-I-3A-72	08/27/99





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LABORATORY REPORT

for

Normandeau Associates  
25 Nashua Road  
Bedford, NH 03102

Attention: Al Larson

Report date: 09/08/00  
Number of samples analyzed: 27  
AES Project ID: 000825AT  
Invoice #: 217473

ELAP ID#: 10709

AIHA ID#: 7866  
Page

1



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB10.5-082500  
AES sample #: 000825AT01  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	1.4	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	30	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	26	ug/g	KH-I-3D-28	09/05/00



Experience is the solution

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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB1.51-082500  
AES sample #: 000825AT02  
Samples taken by: A.L./S.L.  
MATRIX: Sediment  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	1.2	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	29	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	27	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB20.5-082500  
AES sample #: 000825AT03

Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Location: Ward Products grab

Samples taken by: A.L./S.L.  
MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	6.1	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	80	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	65	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB30.5-082500  
AES sample #: 000825AT04  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	9.7	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	119	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	64	ug/g	KH-I-3D-28	09/05/00



Experience is the solution

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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB3.51-082500  
AES sample #: 000825AT05  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	8.8	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	82	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	61	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB40.5-082500  
AES sample #: 000825AT06  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	8.9	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	69	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	66	ug/g	KH-I-3D-28	09/05/00



Experience is the solution

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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB4.51-082500  
AES sample #: 000825AT07  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	19	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	198	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	259	ug/g	KH-I-3D-28	09/05/00





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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB50.5-082500  
AES sample #: 000825AT08

Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Location: Ward Products grab

Samples taken by: A.L./S.L.  
MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	14	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	140	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	102	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB5.51-082500  
AES sample #: 000825AT09

Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Location: Ward Products grab

Samples taken by: A.L./S.L.  
MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	19	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	156	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	126	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB60.5-082500  
AES sample #: 000825AT10  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	15	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	124	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	160	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB6.51-082500  
AES sample #: 000825AT11  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	18	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	111	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	201	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDEB70.5-082500  
AES sample #: 000825AT12

Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Location: Ward Products grab

Samples taken by: A.L./S.L.  
MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	42	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	443	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	459	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates

Date Sampled: 08/25/00

CLIENT'S SAMPLE ID: WP-SDEB7.51-082500

Date sample received: 08/25/00

AES sample #: 000825AT13

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Sediment

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	31	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	238	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	58	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDWB10.5-082500  
AES sample #: 000825AT14  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	29	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	398	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	102	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates

Date Sampled: 08/25/00

CLIENT'S SAMPLE ID: WP-SDWB1.51-082500

Date sample received: 08/25/00

AES sample #: 000825AT15

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Sediment

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	15	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	316	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	52	ug/g	KH-I-3D-28	09/05/00





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CLIENT: Normandeau Associates

Date Sampled: 08/25/00

CLIENT'S SAMPLE ID: WP-SDWB20.5-082500

Date sample received: 08/25/00

AES sample #: 000825AT16

Samples taken by: A.L./S.L.

Location: Ward Products  
grab

MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	12	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	151	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	50	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDWB2.51-082500  
AES sample #: 000825AT17

Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Location: Ward Products  
grab

Samples taken by: A.L./S.L.  
MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	6.0	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	95	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	40	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDWB30.5-082500  
AES sample #: 000825AT18  
Samples taken by: A.L./S.L.  
MATRIX: Sediment  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Location: Ward Products grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	13	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	119	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	69	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDWB3.51-082500  
AES sample #: 000825AT19

Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Location: Ward Products grab

Samples taken by: A.L./S.L.  
MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	16	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	184	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	106	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDWB40.5-082500  
AES sample #: 000825AT20  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	13	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	142	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	124	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDWB5.51-082500  
AES sample #: 000825AT23  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products grab  
MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	9	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	70	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	91	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates

Date Sampled: 08/25/00

CLIENT'S SAMPLE ID: WP-SDWB60.5-082500

Date sample received: 08/25/00

AES sample #: 000825AT24

Samples taken by: A.L./S.L.

Location: Ward Products

MATRIX: Sediment

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	4.3	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	54	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	30	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDWB6.51-082500  
AES sample #: 000825AT25

Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Location: Ward Products

Samples taken by: A.L./S.L.  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	4.2	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	46	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	37	ug/g	KH-I-3D-28	09/05/00





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CLIENT: Normandeau Associates  
CLIENT'S SAMPLE ID: WP-SDMC0.5-082500  
AES sample #: 000825AT26  
Date Sampled: 08/25/00  
Date sample received: 08/25/00  
Samples taken by: A.L./S.L.  
Location: Ward Products  
MATRIX: Sediment  
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	0.39	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	8.9	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	10	ug/g	KH-I-3D-28	09/05/00



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CLIENT: Normandeau Associates  
 CLIENT'S SAMPLE ID: WP-SDMC.51-082500  
 AES sample #: 000825AT27

Date Sampled: 08/25/00  
 Date sample received: 08/25/00  
 Location: Ward Products grab

Samples taken by: A.L./S.L.  
 MATRIX: Sediment

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Cadmium	EPA-6010	1.2	ug/g	KH-I-3D-28	09/05/00
Chromium	EPA-6010	20	ug/g	KH-I-3D-28	09/05/00
Nickel	EPA-6010	48	ug/g	KH-I-3D-28	09/05/00

APPROVED BY:   
 Report date: 09/08/00



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**CHAIN OF CUSTODY RECORD**

CLIENT NAME <i>NORMANDEAN ASSOC.</i>	PROJECT NAME (Location) <i>WARD PRODUCTS</i>	SAMPLERS: (Names) <i>AL LARSON / STEVE LEE</i>
ADDRESS <i>25 MASUDA ROAD BEDFORD NH 03110</i>	PO NUMBER	SAMPLERS: (Signature) <i>[Signature]</i>

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	COMP	GRAB		
<i>0825 AT01</i>	<i>WP-SDEB 1 0.5-082500</i>	<i>8/25/00</i>	<i>1140</i>	<i>A</i>	<i>SED</i>	<i>U</i>	<i>1</i>	<i>FOUR ALL SAMPLES:</i>
<i>AT02</i>	<i>WP-SDEB 1.51-082500</i>	<i>[Large vertical scribble]</i>	<i>1145</i>	<i>A</i>				<i>• CADMIUM</i>
<i>AT03</i>	<i>WP-SDEB 20.5-082500</i>		<i>1110</i>	<i>A</i>				<i>• TOTAL CHROMIUM</i>
<i>AT04</i>	<i>WP-SDEB 3 0.5-082500</i>		<i>1050</i>	<i>A</i>				<i>• NICKEL</i>
<i>AT05</i>	<i>WP-SDEB 3.51-082500</i>		<i>1055</i>	<i>A</i>				<i>I WILL CALL</i>
<i>AT06</i>	<i>WP-SDEB 4 0.5-082500</i>		<i>955</i>	<i>A</i>				
<i>AT07</i>	<i>WP-SDEB 4.51-082500</i>		<i>1000</i>	<i>A</i>				<i>WITH ADDITIONAL</i>
<i>AT08</i>	<i>WP-SDEB 5 0.5-082500</i>		<i>930</i>	<i>A</i>				<i>INSTRUCTIONS</i>
<i>AT09</i>	<i>WP-SDEB 5.51-082500</i>		<i>935</i>	<i>A</i>				<i>[Large vertical scribble]</i>
<i>AT10</i>	<i>WP-SDEB 6 0.5-082500</i>		<i>848</i>	<i>A</i>				
<i>AT11</i>	<i>WP-SDEB 6.51-082500</i>		<i>900</i>	<i>A</i>				
<i>AT12</i>	<i>WP-SDEB 7 0.5-082500</i>		<i>1645</i>	<i>A</i>				
<i>AT13</i>	<i>WP-SDEB 7.51-082500</i>		<i>1650</i>	<i>A</i>				

Turnaround Time: <i>NORMAL</i>	Laboratory Approval:
--------------------------------	----------------------

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <i>[Signature]</i>	Date/Time <i>8/25/00 18:45</i>
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Method of Shipment: <i>DROP OFF</i>	Send Report To: <i>AL LARSON</i>	Client Phone No.: <i>603-472-5191</i>
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The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.



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**CHAIN OF CUSTODY RECORD**

CLIENT NAME <b>NORMANSON ASSOC.</b>	PROJECT NAME (Location) <b>Ward Products</b>	SAMPLERS: (Names) <b>DeLorson / Steve Lee</b>
ADDRESS <b>25 NASHUA ROAD BEDFORD NH 03110</b>	PO NUMBER	SAMPLERS: (Signature) <i>[Signatures]</i>

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	COMPOSITE	GRAB		
000825 AT14	WP-SDWB10.5-082500	8/25/00	1345 A/P	560		X	1	FOR ALL SAMPLES • CADMIUM
AT15	WP-SDWB1.51-082500	8/25/00	1355 A/P					• TOTAL CHROMIUM • NICKEL
AT16	WP-SDWB20.5-082500		1440 A/P					I WILL CALL
AT17	WP-SDWB2.51-082500		1425 A/P					ON MONDAY
AT18	WP-SDWB30.5-082500		1440 A/P					WITH ADDITIONAL
AT19	WP-SDWB3.51-082500		1450 A/P					INSTRUCTIONS
AT20	WP-SDWB40.5-082500		1455 A/P					↓
AT21	WP-SDWB4.51-082500		1510 A/P					
AT22	WP-SDWB50.5-082500		1535 A/P					
AT23	WP-SDWB5.51-082500		1540 A/P					
AT24	WP-SDWB60.5-082500		1700 A/P					
AT25	WP-SDWB6.51-082500		1755 A/P					

Turnaround Time: **NORMAL**      Laboratory Approval:

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <i>[Signature]</i>	Date/Time <b>8/25/00 18:45</b>
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Method of Shipment: <b>DROP OFF</b>	Send Report To: <b>ALLANSON</b>	Client Phone No.: <b>603-472-5191</b>
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The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy





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Albany, New York 12207  
518-434-4546/434-0891 FAX

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**CHAIN OF CUSTODY RECORD**

CLIENT NAME <i>NORMANDEAN ASSOC.</i>	PROJECT NAME (Location) <i>WARD PRODUCTS</i>	SAMPLERS: (Names) <i>D. LARSON / STEVE LEE</i>
ADDRESS <i>25 NASHUA ROAD BEDFORD, NH 03110</i>	PO NUMBER	SAMPLERS: (Signature) <i>[Signature] / [Signature]</i>

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE			NUMBER OF CONT'S	ANALYSIS REQUIRED
				MATRIX	CONC	GRAB		
<i>0825 AT26</i>	<i>WP-SOMC 0.5-082500</i>	<i>8/25/00</i>	<i>1625</i>	<i>A</i>	<i>SED</i>	<i>0</i>	<i>1</i>	<i>FOR ALL SAMPLES</i>
<i>AT27</i>	<i>WP-SOMC.51-082500</i>	<i>↓</i>	<i>1630</i>	<i>A</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>• CADMIUM</i>
				<i>A</i>				<i>• TOTAL CHROMIUM</i>
				<i>P</i>				<i>• NICKEL</i>
				<i>A</i>				<i>I WILL COLLECT</i>
				<i>P</i>				<i>MONDAY WITH</i>
				<i>A</i>				<i>ADDITIONAL</i>
				<i>P</i>				<i>INSTRUCTIONS</i>
				<i>A</i>				
				<i>P</i>				
				<i>A</i>				
				<i>P</i>				
				<i>A</i>				
				<i>P</i>				
				<i>A</i>				
				<i>P</i>				

Turnaround Time: <i>NORMAL</i>	Laboratory Approval:
-----------------------------------	----------------------

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <i>[Signature]</i>	Date/Time <i>8/25/00 18:45</i>
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Method of Shipment: <i>DROP OFF</i>	Send Report To: <i>D. LARSON</i>	Client Phone No.: <i>603-472-5191</i>
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The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

**APPENDIX E**

**GEOLOGIC LOGS**  
**FOR**  
**MONITORING WELLS**

# NORMANDEAU ASSOCIATES

## TEST BORING LOG

BORING NUMBER MW-1

PROJECT EDSON STREET

SHEET NO. 1 OF 1

CLIENT WARD PRODUCTS

PROJECT NO. 16645

CONTRACTOR SOIL AND MATERIAL TESTING

CASING ELEVATION 471.55

GROUND WATER

WELL

DRILL

SAMP.

CORE

GROUND ELEVATION 471.99

DATE

DEPTH

TYPE

PVC

AirHam

SS

-

DATE STARTED 8/19/96

8/19/96

6' BES

DIA.

2 IN

4 IN

2 IN

-

DATE COMPLETED 8/19/96

8/22/96

3.6 PVC

WT.

-

-

140lb

-

DRILLER DICK TRAPPOLD

FALL

-

-

30 IN

-

INSPECTOR AL LARSON

WELL CONSTRUCTION	DEPTH (ft)	SAMPLE		PER 6"	SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO.	TYPE					
	1	1	SS	25	HARD, DARK BROWN, SILT AND FINE SAND, SOME CLAY, TRACE M-C SAND.	BRICK NAIL IN UPPER 4 IN. INC. MOIST	0.0	
				25				
				9				
		2	2	SS	13	HARD, DARK BROWN, SILT, SOME VERY FINE SAND, TRACE M-C SAND	MOIST, COARSE SAND SEMI ROUND TO SEMI ANG TILL	0.0
				18				
		3			26	BOULDER	DRILL 3'4" TO 6' WITH AIR HAMMER	0.0
					100/4"			
		4				HARD, DARK BROWN, SILT, AND COARSE GRAVEL	ROCK FRAGS DOLOSTONE POSSIBLE BEDROCK AT 6 FT.	0.0
					6.5 FT			
		5				LIGHT BLuish GRAY, DOLOSTONE	CHUCTANUNDA CREEK DOLOSTONE	
		6	3	SS	100/6"	END OF BORING 9 FT	INSTALLED FLUSH MOUNT PROTECTIVE CASING	
		7						
		8						
		9						
		10						
		11						
		12						
		13						
	14							
	15							
	16							
	17							
	18							
	19							
	20							

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-1R

PROJECT WARD RT

SHEET NO. 1 OF 1

CLIENT WARD PRODUCTS

PROJECT NO. 17092

BORING CONTRACTOR SOIL MATERIAL TESTING

CASING ELEVATION 471.46

GROUND WATER

WELL DRILL SAMP CORE

GROUND ELEVATION 471.75

DATE 8/14/97 TIME 10:09 WATER DEPTH 7.03' BPVC

TYPE DIA. PVC SC - HX

DATE STARTED 8/13/97

8/15/97 8:45 8.55' BPVC

WT. - 300 lb. - -

DATE COMPLETED 8/13/97

FALL - 30 in. - -

DRILLER DICK RAPFOLD

INSPECTOR ALLARSON

WELL CONSTRUCTION	DEPTH	SAMPLE		SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE			
	1				NO SAMPLES TAKEN GLACIAL TILL REFER TO LOG FOR MW-1	
	2					
	3					
	4					
	4	CR-1	HX	HARD, BEDDED TO MASSIVE, BLUE-GRAY, DOLOSTONE.	VERTICAL FRACTURE 4-4.5 FT HORIZ. FRACTURE SET @ 7.6 FT RECOVERY 4.8' RQD = 92.7%	
	5					
	6					
	7					
	8					
	9	CR-2	HX	HARD, BEDDED TO MASSIVE, BLUE-GRAY, DOLOSTONE.	TRACE PYRITE HORIZ. FRACTURE 9, 9.1 & 9.5 FT 12 & 12.3 FT RECOVERY 5' RQD = 96%	
	10					
	11					
	12					
	13					
	14	CR-3	HX	HARD, MASSIVE, BLUE-GRAY, DOLOSTONE.	HORIZ. FRACTURE 14 & 14.2 FT 16.8 FT RECOVERY 5' RQD = 92.7%	
	15					
	16					
	17					
	18					
	19					
	20			END OF BORING 19 FT	INSTALLED FLUSH MOUNT PROTECTIVE COVER AT GRADE	



# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-2

PROJECT EDSON STREET

SHEET NO. 1 OF 1

CLIENT WARD PRODUCTS

PROJECT NO. 16645

CONTRACTOR SOIL AND MATERIAL TESTING

CASING ELEVATION 471.20

GROUND WATER

WELL

DRILL

SAMP.

CORE

GROUND ELEVATION 471.75

DATE

DEPTH

TYPE

PVC

AIRHAM

SS

-

DATE STARTED 8/19/96

8/22/96

4.8 PVC

DIA.

2 IN

4 IN

2 IN

-

DATE COMPLETED 8/20/96

WT.

-

-

140lb

-

DRILLER DICK RAPPOLD

FALL

-

-

30 IN

-

INSPECTOR AL LARSON

WELL CONSTRUCTION		DEPTH (ft)	SAMPLE		PER 6"	SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
			NO.	TYPE				
A	A	1	1	SS	19	0-5 FT. DARK BROWN, SILT AND M-C SAND.	DRY, FILL	0.0
					42			
A	A	2	2	SS	16	.5-2 FT. DARK BROWN, SILT	TILL	
					15			
A	A	3	3	SS	7	VERY STIFF, DARK BROWN, SILT, LITTLE MEDIUM TO COARSE SAND	POORLY SORTED COARSE SAND SUB ANG TO SUB ROUND, MOIST	0.0
					11			
A	A	4	4	SS	14	HARD, DARK BROWN, CLAYEY SILT, LITTLE	POORLY SORTED, MOIST, TILL	0.0
					18			
A	A	5	5	SS	7	HARD, DARK BROWN, SILT, LITTLE COARSE SAND AND GRAVEL	POORLY SORTED TILL	0.0
					13			
A	A	6	6	SS	18	HARD, DARK BROWN, SILT, LITTLE CLAY, TRACE MEDIUM TO COARSE SAND & GRAVEL	POORLY SORTED MOIST, TILL	0.0
					25			
A	A	7	7	SS	24	HARD, DARK BROWN, SILT, LITTLE CLAY, TRACE MEDIUM TO COARSE SAND & GRAVEL	POORLY SORTED TILL	0.0
					37			
A	A	8	8	SS	46	HARD, DARK BROWN, SILT, LITTLE CLAY, TRACE MEDIUM TO COARSE SAND & GRAVEL	POORLY SORTED MOIST, TILL	0.0
					50			
A	A	9	9	SS	26	HARD, DARK BROWN, SILT, LITTLE CLAY, TRACE MEDIUM TO COARSE SAND & GRAVEL	POORLY SORTED TILL	0.0
					100/3"			
A	A	10	10	SS	21	HARD, GRAY, SILT, LITTLE MEDIUM TO COARSE SAND, TRACE GRAVEL	DRY, LOOSEMOIST TILL, DISCOLOR FRACTURES	0.0
					58			
A	A	11	11	SS	100	DOLOSTONE	REFUSAL @ 11.5'	
					11.5 FT			
A	A	12	12	SS	11.5 FT	END OF BORING 12.0 FT	DRILL 0.5' INTO ROCK	
A	A	13	13	SS		INSTALLED FLUSH MOUNT PROTECTIVE CASING		
A	A	14	14	SS				
A	A	15	15	SS				
A	A	16	16	SS				
A	A	17	17	SS				
A	A	18	18	SS				
A	A	19	19	SS				
A	A	20	20	SS				

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER **MW-3**

PROJECT **EDSON STREET**

SHEET NO. **1**

CLIENT **WARD PRODUCTS**

PROJECT NO. **16645**

CONTRACTOR **SOIL AND MATERIAL TESTING**

CASING ELEVATION **473.03**

GROUND WATER

WELL

DRILL

SAMP.

CORE

GROUND ELEVATION

**473.67**

DATE

DEPTH

TYPE

PVC

AIR HAM

SS

—

DATE STARTED

**8/20/96**

**8/22/96**

**5.22 PVC**

DIA.

**2 IN**

**4 IN**

**2 IN**

—

DATE COMPLETED

**8/20/96**

WT.

—

—

**140 lb**

—

DRILLER

**DICIL RAPPOLO**

FALL

—

—

**30 IN**

—

INSPECTOR

**A. LARSON**

WELL CONSTRUCTION	DEPTH (ft)	SAMPLE		PER 6"	SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO.	TYPE				
	1	1	SS	5	LOOSE, TAN, SILT, TRACE MEDIUM-COARSE SAND 0.5 FT.	TOPSOIL DRY	0.0
	2	2	SS	9	MEDIUM STIFF, DARK BROWN, SILT, LITTLE M-C SAND	POSS. REWORK TILL, DRY	
	3			14	MEDIUM STIFF, DARK BROWN, CLAYEY SILT, LITTLE MEDIUM-COARSE SAND AND FINE GRAVEL	TILL MOIST	0.0
	4			15			
	5	3	SS	9	MEDIUM STIFF, DARK BROWN, CLAYEY SILT, LITTLE MEDIUM TO COARSE SAND AND FINE GRAVEL	TILL MOIST	0.0
	6			12			
	7	4	SS	19	HARD, DARK BROWN, SILT, LITTLE MEDIUM TO COARSE SAND AND FINE GRAVEL.	TILL, MOIST, SOME IRON STAINS	0.0
	8			22			
	9	5	SS	12	VERY STIFF, DARK BROWN, CLAYEY SILT, SOME M-C SAND, AND FINE GRAVEL	TILL, MOIST, IRON STAINED FRACTURES	0.0
	10			13			
	11			16			
	12	6	SS	24	VERY STIFF, DARK BROWN, CLAYEY SILT, SOME MEDIUM TO COARSE SAND AND FINE GRAVEL	SAND SEAMS WET, TILL	0.0
	13			24			
	14	7	SS	28	HARD, BLACK-GRAY, SILT, LITTLE MEDIUM TO COARSE SAND AND FINE GRAVEL 13 FT	POSS. LODGEPOLE TILL OR WEATHERED BEDROCK	0.0
	15			100			
	16					LIGHT BLUE GRAY DOLOSTONE	BEDROCK
17					END OF BORING 16 FT	INSTALLED FLUSH MOUNT PROTECTIVE CASING	
18							
19							
20							



# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-4R

PROJECT WARD PRODUCTS RT  
 CLIENT WARD PRODUCTS CORPORATION

SHEET NO. 1 OF 2  
 PROJECT NO. 1709Z

BORING CONTRACTOR SOIL & MATERIAL TESTING

CASING ELEVATION 470.29  
 GROUND ELEVATION 470.85

GROUND WATER				WELL	DRILL	SAMP	CORE
DATE	TIME	WATER DEPTH	TYPE	PVC	SC	-	HX
8/15/97	8:30	30' <u>EG</u>	DIA.	ZIN	4IN	-	3.6IN
8/28/97	11:56	33.5' <u>PVC</u>	WT.	-	30IN	-	-
			FALL	-	30IN	-	-

DATE STARTED 8/14/97  
 DATE COMPLETED 8/15/97  
 DRILLER PICKE RAPPELO  
 INSPECTOR D. LARSON

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE	BLOWS PER 6 INCHES				
	1					REFER TO LOG FOR MW-4		
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
		10.5 FT				TOP OF BEDROCK 10.5 FT		
		11				SEAT CASING ROLLER BIT TO 11.5 FT		
		12	CR-1	HX		HARD, MASSIVE, BLUE-GRAY DOLOSTONE.	HORIZONTAL FRACTURES @: 13.6 FT 15.9 FT 16.2 FT 16.4 FT RECOVERY 4.9' RQD = 93%	
		13						
		14						
		15						
		16						
		17	CR-2	HX		HARD, MASSIVE, BLUE-GRAY, DOLOSTONE, SOME CALCITE, TRAIL PYRITE	HORIZONTAL FRACTURES @: 16.75 FT 17.5 FT 18.7 FT 18.9 FT 20.2 FT 21.3 FT RECOVERY 4.8 FT RQD = 94%	
		18						
		19						
		20						
	21							

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-4R

PROJECT Ward Products RI

SHEET NO. 2 OF 2

CLIENT Ward Products Corporation

PROJECT NO. 17092

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 6 INCHES			
	23	CR-3	HX		HARD, MASSIVE, BLUE-GRAY, DOLOSTONE.	HORIZONTAL FRACTURES 22.1 FT 22.4 FT RECOVERY = 5 FT 22.6 FT 22.8 FT RQD = 80% 22.9 FT 23.7 FT 24.2 FT 25 FT 25.1 FT	
	24						
	25						
	26						
	27						
	28	CR-4	HX		HARD, MASSIVE, BLUE GRAY, DOLOSTONE	HORIZONTAL FRACTURES @: 26.95 FT REC = 2.9' 27.1 FT RQD = 90% 28.9 FT 29.2 FT } LOST SOME WATER 29.4 FT }	
	29						
	30						
	31	CR-5	HX		HARD, FINE GRAINED, MASSIVE, GRAY, DOLOSTONE TO 32.2 FT	HORIZONTAL FRACT. 32.2 FT 32.4 FT 33.2 FT 34.1 FT 35 FT RECOVERY = 5 FT RQD = 97%	
	32						
	33						
	34						
	35				END OF BORING 35 FT	INSTALLED FLUSH MOUNT PROTECTIVE CASING	

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-5

PROJECT WARD PRODUCTS RT

SHEET NO. 1 OF 1

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 1709Z

BORING CONTRACTOR SOIL & MATERIAL TESTING

CASING ELEVATION 478.62

### GROUND WATER

WELL DRILL SAMP CORE

GROUND ELEVATION 473.55

DATE 8/27/97 TIME 1638 WATER DEPTH 15.78 BPVC TYPE DIA.

PVC SC SS HX

DATE STARTED 8/26/97

8/28/97 927 15.64 BPVC WT. -

2IN 4IN 2IN 3.6IN

DATE COMPLETED 8/27/97

FALL -

30IN 30IN -

DRILLER DICK RAPPOLD

INSPECTOR M. LARSON

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 8 INCHES			
	1	1	SS	2	LOOSE, BROWN, FINE SAND, SOME SILT AND M-C SAND. 2.5' STIFF, BROWN, SILT, SOME FINE SAND, LITTLE CLAY, T. C SAND & F. GRAVEL 2.5 FT	FILL MATERIAL GLASS & METAL GLACIAL TILL	0.0
				3			
				5			
				6			
	3	CR-1	HX		HARD, MASSIVE, DOLOSTONE.  HARD, MASSIVE, DOLOSTONE  HARD, MASSIVE, GRAY, DOLOSTONE  CHUCTANUNDA CREEK DOLOSTONE	ONE HORIZONTAL FRACTURE! 4.3 FT → IRON STAIN & SOLUTION RQD = 100%  MULT. HORIZON. FRACTURES AT 9 FT AND 9.2 FT IRON STAIN & SOLUTION FRACTURES AT 9.5 & 9.6 FT RQD = 73%  FRACTURES AT 12.3, 13.2 & 15 FT FRACTURES AT 12.3 FT SOLUTION, WEATHERED & IRON STAIN. RQD = 92%	
	4						
	5						
	6						
	7						
	8	CR-2	HX				
	9						
	10						
	11						
	12	CR-3	HX				
	13						
	14						
15							
16							
	17				END OF BORING 16.5 FT	LOCKING STEEL CASING INSTALLED ABOVE GRADE	
	18						
	19						
	20						
	21						

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-6

PROJECT WORD PRODUCTS RT

SHEET NO. 1 OF 2

CLIENT WORD PRODUCTS CORPORATION

PROJECT NO. 17092

BORING CONTRACTOR SOIL & MATERIAL TESTING

CASING ELEVATION 470.97

GROUND WATER

GROUND ELEVATION 471.45

DATE	TIME	WATER DEPTH	TYPE	WELL	DRILL	SAMP	CORE
------	------	-------------	------	------	-------	------	------

DATE STARTED 8/20/97

8/22/97	8:10	34.5' BTSC	DIA.	PVC	SC	SS	HX
---------	------	------------	------	-----	----	----	----

DATE COMPLETED 8/21/97

8/25/97	8:52	32.56' BPVC	WT.	-	301b	141b	-
---------	------	-------------	-----	---	------	------	---

DRILLER DICK RAPPOLO

			FALL	-	301b	301b	-
--	--	--	------	---	------	------	---

INSPECTOR AL LARSON

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE	BLOWS PER 6 INCHES				
	1	1	SS	8 33 33 30	HARD, DARK BROWN, SILT, SOME FINE-COARSE SAND, LITTLE FINE GRAVEL	QUARTZITE PEBBLE	0	
	2	2	SS	18 31 38 30	HARD, TAN, SILT, LITTLE FINE SAND, TRACE FINE GRAVEL	ABLATION TILL SOME IRON STAIN	0	
	3	3	SS	17 17 60 65	HARD, TAN TO OLIVE, SILT, GRADING TO CLAYEY SILT. LITTLE F-C SAND, TRACE FINE GRAVEL	TIP MOIST SOME IRON STAINING	0	
	4	4	ST		HARD, TAN, SILT, LITTLE F-C SAND, TRACE F. GRAVEL	ATTEMPT SHELBY TUBE BOND TIP ON ROCK		
	5	5	SS	9 14 16 35/1	HARD, OLIVE, CLAYEY SILT, LITTLE FINE-COARSE SAND, TRACE FINE GRAVEL.	MOIST TOC SAMPLE *WP-SLMWG*	0	
	6	6	SS	19 100/3	SAME AS ABOVE	DRY		
	7	7	SS	65 100/2	HARD, TAN, SILT, SOME CLAY, LITTLE COARSE SAND AND FINE GRAVEL		0.4	
	8	8	SS	20/2	HARD, GRAY TO BLACK, SILT LITTLE C SAND/F GRAVEL 13.25 FT	LODGEEMENT TILL	0.1	
	9	9	CR-1	HX		HARD, MASSIVE, LIGHT GRAY-BLUE, DOLOSTONE. CALCITE FILLED FRACTURES	THREE HORIZONTAL FRACTURES: 16.3, 17.1 & 18.1 FRACTURES AT 15.3 & 17.1 FT WEATHERED 18.1 FT IRON STAIN.	
	10	10	CR-2	HX		HARD, GRAY, MASSIVE, DOLOSTONE. CALCITE FILLED SUBVERTICAL FRACTURE	RQD = 96% FOUR HORIZONTAL FRACTURES: 19.15, 19.75, 21.3 & 23.0 FT SOFT SEAM AT 21.1 FT RQD = 90%	
	11	11						
	12	12						

NORMANDEAU ASSOCIATES				TEST BORING LOG		
PROJECT <u>World Products RT</u>				BORING NUMBER <u>MW-6</u>		
CLIENT <u>World Products Corporation</u>				SHEET NO. <u>2</u> OF <u>2</u>		
				PROJECT NO. <u>1709Z</u>		
WELL CONSTRUCTION	DEPTH	SAMPLE		SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE			
	23					
	24	CR-3	HX	HARD, GRAY, MASSIVE DOLOSTONE	SIX HORIZONTAL FRACTURES: 24, 24.5, 25.2, 25.4, 27.7 & 27.9. FRACTURE AT 27.7 FT WEATHERED OTHER FRACTURES SIGN OF SOLUTION	
	25					
	26					
	27					
	28				RQD = 91%	
	29	CR-4	HX	HARD, MASSIVE, GRAY, DOLOSTONE	FOUR HORIZONTAL FRACTURES: 29.7, 30.2, 31.8 & 32.7 SOME SOLUTION OF ROCK ALONG FRACTURES, IRON STAINING EROD. 31.8 FT	
	30					
	31					
	32					
	33				RQD = 84%	
	34	CR-5	HX	HARD, MASSIVE, GRAY, DOLOSTONE	FOUR HORIZONTAL FRACTURES: 34.5, 34.9, 37.7 & 38.2. SOME SOLUTION OF ROCK	
	35					
	36			CHUCTANUNDA CREEK DOLOSTONE		
	37					
	38				RQD = 97%	
	39			END OF BORING 38.1 FT	INSTALLED FLUSH MOUNT PROTECTIVE CASING	



# NORMANDEAU ASSOCIATES

## TEST BORING LOG

BORING NUMBER MW-7

PROJECT WARD RI

SHEET NO. 1 OF 2

CLIENT WARD PRODUCTS

PROJECT NO. 1709Z

BORING CONTRACTOR SOIL MATERIAL TESTING

CASING ELEVATION 469.14

GROUND WATER

WELL DRILL SAMP CORE

GROUND ELEVATION 469.55

DATE	TIME	WATER DEPTH	TYPE	PVC	SL	SS	HX	DATE STARTED
8/20/97	1040	28.8' BVC	DIA.	2IN	4IN	2IN	3 5/8IN	8/15/97
			WT.	-	300lb	140lb	-	DATE COMPLETED
			FALL	-	30IN	30IN	-	8/20/97
								DRILLER <u>DICK RAPPOLO</u>
								INSPECTOR <u>DL LARSON</u>

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 6 INCHES			
	1	1	SS	6	VERY STIFF, DARK BROWN, SILT, LITTLE FINE SAND	UPPER 0.3 FT TOPSOIL	0.0
				22			
	2	2	SS	32	VERY STIFF, TAN, SILT, SOME FINE-MED GRAVEL	GLACIAL TILL (ABLATION)	0.1
				62			
	3	3	SS	47	VERY STIFF, DARK BROWN, SILT, SOME F-M GRAVEL	MOISTURE IN SPOON TIP	0.1
				35			
	4	4	SS	22	VERY STIFF TO HARD, LT. BROWN, SILT, SOME FINE SAND, LITTLE FINE GRAVEL	GRAVEL RED SANDSTONE OR QUARTZITE	0.0
				20			
	5	5	SS	50	VERY STIFF, OLIVE TO GRAY, CLAYEY SILT, LITTLE MED-C. SAND AND F. GRAVEL	MOIST. SOME DISCOLOR.	0.0
				32			
	6	6	SS	16	VERY STIFF, OLIVE, CLAYEY SILT, SOME FINE GRAVEL.	IRON STAINED	0.0
				12			
	7	7	SS	16	VERY STIFF, OLIVE, CLAYEY SILT, SOME FINE GRAVEL	IRON STAINED	0.4
				14			
	8	8	SS	14	VERY STIFF, OLIVE, CLAYEY SILT, SOME FINE GRAVEL.	IRON STAINED	0.4
				14			
	9	9	SS	13	VERY STIFF, OLIVE, CLAYEY SILT, SOME FINE GRAVEL.	IRON STAINED	0.4
				13			
	10	10	SS	13	VERY STIFF, OLIVE, CLAYEY SILT, SOME FINE GRAVEL	IRON STAINED	0.4
				13			
	11	11	SS	9	VERY STIFF, OLIVE, CLAYEY SILT, SOME FINE GRAVEL	IRON STAINED	0.4
9							
12	12	SS	10	VERY STIFF, OLIVE, CLAYEY SILT, SOME FINE GRAVEL	IRON STAINED	0.4	
			10				
13	13	SS	20	HARD, TAN, SILT, SOME M-C SAND, LITTLE FINE GRAVEL.	DRY	0.4	
			20				
14	14	SS	70	HARD, TAN, SILT, SOME M-C SAND, LITTLE FINE GRAVEL.	DRY	0.4	
			98				
15	15	SS		HARD, TAN, SILT, SOME M-C SAND, LITTLE FINE GRAVEL.	DRY	0.4	
16	16	SS		HARD, TAN, SILT, SOME M-C SAND, LITTLE FINE GRAVEL.	DRY	0.4	
17	17	SS		HARD, TAN, SILT, SOME M-C SAND, LITTLE FINE GRAVEL.	DRY	0.4	
18	18	SS		HARD, TAN, SILT, SOME M-C SAND, LITTLE FINE GRAVEL.	DRY	0.4	
19	19	SS		HARD, TAN, SILT, SOME M-C SAND, LITTLE FINE GRAVEL.	DRY	0.4	
20	20	SS		HARD, TAN, SILT, SOME M-C SAND, LITTLE FINE GRAVEL.	DRY	0.4	
21	21	SS		HARD, TAN, SILT, SOME M-C SAND, LITTLE FINE GRAVEL.	DRY	0.4	
21	21	CR-1 HX	20/2IN	HARD, GRAY, SILT AND FINE TO COARSE GRAVEL	GLACIAL TILL		

16 FT

LOGGEMENT TILL GRAVEL: BLACK SHALE & SANDSTONE WHITE & RED SS, QUARTZITE

NORMANDEAU ASSOCIATES				TEST BORING LOG		
PROJECT WARD RT				BORING NUMBER MW-7		
CLIENT WARD PRODUCTS				SHEET NO: 2 OF 2		
				PROJECT NO. 17092		
WELL CONSTRUCTION	DEPTH	SAMPLE		SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE			
	23	CR-1	HX		GLACIAL TILL	
	24					
	25				24.4 FT	TILL/BEDROCK CONTACT
	26	CR-2	HX		HARD, MASSIVE, GRAY, DOLOSTONE, TRACE PYRITE	HORIZONTAL FRACTS. 25.7 FT
	27				CHUCTANUNDA CREEK DOLOSTONE	26.8 FT
	28					27.4 FT
	29					28.2 FT
	30					28.4 FT
	31	CR-3	HX		HARD, MASSIVE, GRAY, DOLOSTONE, TRACE PYRITE, CALCITE	HORIZONTAL FRACT. 30.5 FT
	32					33.5 FT RQD = 98%
	33					33.4 FT
	34					RECOVERY 4 FT LOST SOME WATER AT 33.5 FT
	35				END OF BORING 34.2 FT	PUMPED AND BAILED WATER FROM BOREHOLE & 20 GALLONS. STATIC WATER 28 FEET BELOW GRADE.
	36					INSTALLED FLUSH MOUNT PROTECTIVE CASING

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-8

PROJECT WARD PRODUCTS RT

SHEET NO. 1 OF 2

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092

BORING CONTRACTOR SOIL & MATERIAL TESTING

CASING ELEVATION 467.38

GROUND WATER

WELL DRILL SAMP CORE

GROUND ELEVATION 467.95

DATE TIME WATER DEPTH TYPE

FUC SC SS HX

DATE STARTED 8/22/97

8/25/97

25.03' OPVC

DIA.

2IN

2IN

2IN

3.6IN

DATE COMPLETED 8/25/97

8/26/97

25.28' OPVC

WT.

-

30lb

140lb

-

DRILLER DICK RAFFOLD

FALL

-

30IN

30IN

-

INSPECTOR AL LORSON

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 8 INCHES			
	1	1	SS	2	VERY STIFF, DK. BROWN, SILT, LITTLE CLAY, TRACE M-C SAND AND FINE GRAVEL	TOPSOIL TO 2.5 FT	0.0
	2	2	SS	16	HARD, TAN, SILT, LITTLE M-C SAND AND FINE GRAVEL.	ABLATION TILL DRY	0.0
	3	3	SS	20	HARD, BROWN, SILT, LITTLE M-C SAND AND FINE GRAVEL. 1/4" LENSES FINE SAND	IRON STAINING GRAVEL: SS AND SILTSTONE	0.0
	4	4	-	-	FINE SAND	DRY	
	5	5	SS	13	HARD, BROWN, SILT, SOME FINE SAND, LITTLE COARSE SAND AND FINE GRAVEL.	ATTEMPT SHELBY TUBE. TIP CRUSHED BY GRAVEL	0.0
	6	6	SS	24	HARD, BROWN, SILT, SOME COARSE SAND AND FINE GRAVEL, LITTLE CLAY	DRY	0.0
	7	7	SS	100/1.5	HARD, TAN, SILT AND FINE SAND, SOME M-C SAND AND FINE GRAVEL	SOME STRAT. LAYERS OF SANDY SILT	0.7
	8	8	SS	83	HARD, TAN, SILT, SOME M-C SAND AND F. GRAVEL TRACE CLAY. --- 15 FT	COBBLE H-14.5	0.4
	9	9	SS	40	HARD, GRAY, SILT, LITTLE M-C SAND AND FINE GRAVEL	TRANSITION TO LOOSE TILL DRY	0.1
	10	10	SS	14	HARD, BLACK, CLOVEY SILT, SOME COARSE GRAVEL	SLIGHTLY-MED. PLASTIC. MOIST	9
	11	11	SS	100/6	U. DENSE, TAN-BROWN, FINE TO COARSE SAND AND FINE GRAVEL WITH SILT.	DRY	7
	21	CR-1	HX		HARD, MASSIVE, GRAY DOLOSTONE N/SANDSTONE	20.5 FT BEDROCK	

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-8

PROJECT WARD PRODUCTS ICI

SHEET NO. 2 OF 2

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092

WELL CONSTRUCTION	DEPTH (ft)	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)				
		NO	TYPE	BLOWS PER 6 INCHES							
	23	CR-1	HX		HARD, MASSIVE, GRAY, DOLOSTONE, SOME SANDSTONE. CALCITE FILLED SUBVERTICAL FRACTURES..	FIVE HORIZONTAL FRACTURES, FE STAINED & WEATHERED VOID AT 22.5 FT & LOST WATER. RGD = 96%					
	24										
	25	CR-2	HX		HARD, MASSIVE, GRAY, DOLOSTONE  CHULTANUNDA CREEK DOLOSTONE	FOUR HORIZONTAL FRACTURES, EACH WEATHERED  RGD = 100%					
	26										
	27										
	28										
	29										
	30										
	31							END OF BORING 30.5 FT		INSTALLED FUSION MOUNT PROTECTIVE CASING	
	32										

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-9

PROJECT WARD PRODUCTS 21

SHEET NO. 1 OF 2

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092

BORING CONTRACTOR SOIL & MATERIAL TESTING

CASING ELEVATION 465.43

GROUND WATER

WELL DRILL SAMP CORE

GROUND ELEVATION 465.85

DATE	TIME	WATER DEPTH	TYPE	PVC	SC	SS	NX	DATE STARTED
1/6/98	8:10	33 FT	DIA.	2IN	4IN	2IN	2.8IN	12/29/97
1/12/98	8:57	30.44 FT	WT.	-	300lb	140lb	-	1/5/98
			FALL	-	-	30IN	-	DRILLER <u>DICK RAFFOLD</u>
								INSPECTOR <u>JOE LORSON</u>

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE	BLOWS PER 6 INCHES				
	1	1	SS	3	U. STIFF, BROWN, SILT, SOME FINE-MEDIUM SAND, LITTLE FINE GRAVEL, TRACE CLAY	POSSIBLE FILL DRY	0.0	
				7				
				19				
				19				
		2						
		3						
		4						
		5	2	SS	5	U. STIFF, BROWN, SILT SOME FINE-COARSE SAND, TRACE CLAY.	SOME WET FINE SAND SEAMS. GRAVEL SUBANG-SUBRD TILL	0.0
					9			
					10			
					10			
		6						
		7						
		8						
		9						
		10	3	SS	16	HARD, BROWN, SILT, SOME FINE-MEDIUM SAND, LITTLE COARSE SAND - FINE GRAVEL, TRACE CLAY.	SOME WET SAND SEAMS (L. 5 IN) GRAVEL; SUBANG-SUBRD GRAVEL; QTLITE 1/2 SCLIST POSSIBLE DRY SAND LAYER @ 14 FEET.	0.0
					16			
					28			
					30			
		11						
	12							
	13							
	14							
	15	4	SS	100/6"	VERY HARD, BROWN, SILT, SOME FINE SAND, TRACE MEDIUM TO COARSE SAND AND FINE GRAVEL. 16 FT	REFUSAL ON QUARTZITE PEBBLE	0.0	
	16							
	17							
	18							
	19							
	20	5	SS	100/3"	VERY HARD, GRAY-BLACK SILT, SOME FINE-MEDIUM SAND, LITTLE GRAVEL	LODGE MENT TILL, DRY GRAVEL: SUBANG. DOLOSTONE	0.0	
	21							

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-9

PROJECT WARD PRODUCTS RI

SHEET NO. 2 OF 2

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 1709Z

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE	BLOWS PER 6 INCHES				
	23	6	SS	100/28	VERY HARD, GRAY-BLACK, SILT, SOME FINE-MEDIUM SAND, LITTLE GRAVEL, DRY	GRAVEL: ANGULAR DOLOSTONE, LODGEMENT TILL	0.0	
	24							
	25							
	26							
	27							
	28							
	29	7	SS	100/34	VERY HARD, GRAY-BLACK, SILT, LITTLE SAND AND GRAVEL	LODGEMENT TILL GRAVEL: ANG. DOLOSTONE	0.0	
	30							
	31							
	32							
	33							
	34							
	35	8	SS	40	V. HARD, ORANGE-RED, SILT, SOME FINE SAND, LITTLE GRAVEL, WET	SPOON WET, RED COLOR IRON OXIDE SEASONAL HIGH WATER.	0.8	
	36							18
	37							
	38	CR-1	NX		DRIVE CASING TO 36.5 FEET			
	39	CR-2	NX		HARD, GRAY AND BLACK COLORED, DOLOSTONE WITH CARLITE FILLINGS. MINOR SHALE SEAMS	CR-1 36.5 - 38.5' CR-2 38.5 - 40.5' CR-3 40.5 - 45.5' CR-4 45.5 - 47'		
	40							
	41	CR-3	NX					
	42							
	43				CHUCTANUNDA CREEK DOLOSTONE MEMBER OF THE TRIBES HILL FORMATION.	MULTIPLE FRACTURES AT 38.8 FT AND 44.9 FT. IRON STAINS ALL FRACTURES HORIZONTAL NO MAJOR SOLUTION FEATURES. HIGH PQDS RANGE 83% - 100%		
	44							
45								
46	CR-4	NX						

END OF BORING 47 FT

TPLOG2

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-10

PROJECT <u>World Products RT</u>				SHEET NO. <u>1</u> OF <u>3</u>			
CLIENT <u>World Products Corporation</u>				PROJECT NO. <u>17092</u>			
BORING CONTRACTOR <u>Soil &amp; Material Testing</u>				CASING ELEVATION <u>466.77</u>			
GROUND WATER				GROUND ELEVATION <u>467.30</u>			
DATE	TIME	WATER DEPTH	TYPE	WELL	DRILL	SAMP	CORE
1/7/98	1405	36.4' BG	DIA.	PVC	SC	SS	NX
1/8/98	830	37.27'	WT.	-	301b	101b	-
1/12/98	904	37.67'	FALL	-	50IN	30IN	-
				DATE STARTED <u>1/5/97</u>			
				DATE COMPLETED <u>1/7/97</u>			
				DRILLER <u>DICK RAPPOLD</u>			
				INSPECTOR <u>B. LARSON</u>			

WELL CONSTRUCTION	DEPTH	SAMPLE		BLOWS PER 6 INCHES	SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE					
	1	1	SS	3	BROWN, STIFF, SILT, SOME FINE SAND, LITTLE CLAY.	FILL MATERIAL GRAVEL ROUNDED	0.2	
				12				
					15			
		2			12	DARK BROWN, MEDIUM DENSE FINE GRAVEL, SOME F-C SAND, LITTLE SILT.		
		3						
		4						
		5	2	SS	12	BROWN, VERY STIFF, SILT, SOME FINE SAND, LITTLE M-C SAND, TRACE FINE GRAVEL	ABLATION TILL GRAVEL SUBAND DRY	0.2
		6			18	HARD, LIGHT BROWN, SILT AND FINE SAND,		
		7			24	LITTLE MEDIUM-COARSE SAND, TRACE FINE GRAVEL.		
		8			24			
		9						
		10	3	SS	18	HARD, LIGHT BROWN, SILT, SOME FINE SAND,	STRATIFIED WET	0.2
		11			20	LITTLE MEDIUM-COARSE SAND AND FINE GRAVEL		
		12			100/6			
		13				VERY DENSE, TAN, FINE SAND.		
		14				TAN, FINE-MEDIUM SAND		
		15	4	SS	60	VERY DENSE, BROWN, MEDIUM-COARSE GRAVEL,	GRAVEL: SUBAND SILTSTONE/SHALE COBBLE @ 15.5'	0.2
		16			50	SOME SILT AND FINE SAND.		
		17			30			
		18				VERY DENSE, TAN-BROWN, SILT	DRY	
		19						
	20	5	SS	53	VERY HARD, GRAY-BLACK, SILT, TRACE COARSE SAND AND FINE GRAVEL	LOGEMENT TILL DRY	0.2	
	21			100/2	SOME AS ABOVE			
						REFUSIONLS COBBLE		

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-10

PROJECT WARD PRODUCTS RT

SHEET NO. 2 OF 3

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 6 INCHES			
	23					SOME IRON STAIN GRAVEL: SUBMERG DRY	
	24						
	25	6	SS	100/4	VERY HARD, GRAY-BLACK, SILT, SOME FINE GRAVEL, LITTLE MEDIUM TO COARSE SAND.	COBBLE IN TIP	0.2
	26						
	27						
	28						
	29						
	30						
	31	7	SS	50/4	VERY HARD, GRAY-BLACK, SILT, SOME FINE GRAVEL, LITTLE MEDIUM-COARSE SAND.	DRY	0.2
	32		CR-1	NX		POSSIBLE TOP OF BEDROCK	
	33						
	34				HARD, GRAY, DOLOSTONE UPPER 1 FT WELL FRACTURED	CR-1 31.5-36.5' SIX FRACTURES HORIZONTAL, SOME IRON STAINED WITH EVIDENCE OF SOLUTION RQD = 86%	
	35						
	36						
	37		CR-2	NX			
	38				HARD, GRAY, DOLOSTONE UPPER 0.5 FT WELL FRACTURED	CR-2 36.5-41.5' SIX FRACTURES, HORIZONTAL, SOME MANGANESE AND IRON STAINING WITH EVIDENCE OF SOLUTION RQD = 85%	
	39						
	40						
	41						
	42		CR-3	NX			
	43				HARD, GRAY, DOLOSTONE FEW FRACTURES	CR-3 41.5-46.5' FOUR FRACTURES, HORIZONTAL, IRON AND MANGANESE STAINING. HIGHLY WEATHERED FRACTURE AT 42.8 FT RQD = 96%	
	44						
	45						
	46		CR-4	NX			



# NORMANDEAU ASSOCIATES

## TEST BORING LOG

BORING NUMBER MW-10

PROJECT WARD PRODUCTS

SHEET NO: 3 OF 3

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 1709Z

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 6 INCHES			
	48	CR-4	NX		HARD, LIGHT GRAY, DOLOSTONE, LARGE CALCITE FILLED VERT. FRACTURE 47 TO 48°	CR-4 46.5-51.5 SIX FRACTURES NOTED, MAJORITY HORIZONTAL, SMOOTH, SOME WEATHERING. FRACT. AT 48.4', 49.6' AND 50.4' IRON STAINED RQD = 85%	
	49						
	50						
	51						
	52				END OF BORING 51.5 FT	INSTALLED FLUSH MOUNT PROTECTIVE CASING	

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-11

PROJECT WARD PRODUCTS RT

SHEET NO. 1 OF 2

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092

BORING CONTRACTOR SOIL & MATERIAL TESTING

CASING ELEVATION 485.37

GROUND WATER

WELL DRILL SAMP CORE

GROUND ELEVATION 482.85

DATE TIME WATER DEPTH TYPE

PVC SC SS HX

DATE STARTED 1/8/98

1/12/98 1343 21' BG DIA.

2IN 4IN 2IN 3.6IN

DATE COMPLETED 1/12/98

1/12/98 1605 20.84' TPVC WT.

- 300lb 140lb -

DRILLER DICK RAFFOLD

FALL

- 30IN 30IN -

INSPECTOR AL LARSON

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE	BLOWS PER 6 INCHES				
	1	1	SS	1	SOFT, TAN, CLAYEY SILT, LITTLE COARSE SAND	GROUND SURFACE SATURATED DUE TO RAIN & THAW	0.1	
	2			4	MEDIUM STIFF, BROWN, SILT, SOME CLAY, LITTLE COARSE SAND - FINE GRAVEL			
	3						ABLATION TILL	
	4							
	5	2	SS	12	HARD, BROWN, CLAYEY SILT, LITTLE MEDIUM TO COARSE SAND, TRACE FINE GRAVEL.	DRY, POORLY SORTED.	0.1	
	6			14				
	7			20		1/2" SILT LAYER AT 5.5 FT. NUMEROUS CLAY SEAMS		
	8			32				
	9							
	10							
	11	3	SS	14	HARD, BROWN, SILT, SOME CLAY, LITTLE MEDIUM TO COARSE SAND AND FINE GRAVEL	QUARTZITE PEBBLE	0.1	
	12			20		ABLATION TILL		
	13			20		LODGEEMENT TILL		
14						CR-1 14-19 FT FIVE ZONES HOR. FRACTURES. MULT. FRACTURES AT 17+18 FT. IRON STAINING RQD=89%		
15								
16						CHUCTANUNDA CREEK DOLOSTONE		
17								
18						CR-2 19-24 FT FOUR HORIZONTAL FRACTURES NOTED. FRACTURES AT 19.5, 20.4 & 20.8' IRON STAINED RQD=86		
19								
20								
21								

RQD = 86

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-11

PROJECT WARD PRODUCTS RT

SHEET NO. 2 OF 2

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17097

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 6 INCHES			
	23	CR-3	HX		<p>HARD, GRAY-BLACK DOLOSTONE. CALCITE FILLED VERTICAL FRACTURES</p> <p>TWO HORIZONTAL FRACTURES NOTED: @ 23.6' AND 25.7'. Fe STAIN ON BOTI2. RQD = 100</p> <p>NOTE: WATER BEARING FRACTURES AT 18 &amp; 21'</p>		
	24						
	25						
	26						
	27						
	28						
					<p>END OF BORING 28 FT</p> <p>LOCKING STEEL CASING INSTALLED ABOVE GRADE</p>		

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-12

PROJECT WARD PRODUCTS RTI

SHEET NO: 1 OF 2

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092

BORING CONTRACTOR SOIL & MATERIAL TESTING

CASING ELEVATION 468.18

GROUND WATER

WELL DRILL SAMP CORE

GROUND ELEVATION 468.40

DATE TIME WATER DEPTH TYPE

FVC AIR SS HQ

DATE STARTED 7/27/99

7/28/99 8:50 24.3 FT BC DIA

2 IN 4 IN 2 IN 3 1/2 IN

DATE COMPLETED 7/28/99

7/28/99 16:55 21.15 FT WT.

- - 140 lb -

DRILLER DICIE RAGGOLD

FALL

- - 30 IN -

INSPECTOR DL LARSON

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE	BLOWS PER 6 INCHES				
	1	1	SS	4	NO SAMPLE	NO SAMPLE RECOVERY	0.0	
				4				
				9				
				16				
		2						
		3						
		4						
		5	2	SS	7	BROWN, MEDIUM STIFF, CLAYEY SILT, SOME FINE TO COARSE SAND, TRACE FINE GRAVEL		<u>TILL</u> BROWN/GRAY MOTTLES, ORG, POORLY SORTED MOIST SMALL STREAM 20 FT TO WEST
					5			
					10			
					11			
		6						
		7						
		8						
		9						
		10	3	SS	8	BROWN, STIFF, SILT, SOME FINE TO COARSE SAND, LITTLE CLAY, TRACE GRAVEL.		MOIST GRAVEL SUBROUND TO SUBANG, NO SORTING
					10			
					22			
					23			
		11						
		12						
	13							
	14							
	15	4	SS	56	BROWN, HARD, SILT, SOME FINE SAND, TRACE GRAVEL.	SEAMS OF FINE SAND SATURATED		
				66				
				100/s <sup>1</sup>				
	16							
	17							
	18							
	19							
	20	5	SS	17	BROWN, VERY DENSE, VERY FINE TO FINE SAND, SOME SILT	SATURATED STRATIFIED		
				18				
				35				
				52				
	21							

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-12

PROJECT Ward Products RI

SHEET NO. 2 OF 2

CLIENT Ward Products Corporation

PROJECT NO. 17092

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 8 INCHES			
	23						
	24						
	25	6	SS	28	BROWN, HARD, SILT, LITTLE VERY FINE SAND, TRACE GRAVEL	WET, STRATIFIED, TRANSITION TO GRAY LODGEMENT TILL @ 28.5 FT	0.0
	26			47			
	27			57			
	28			77			
29							
	29						
	30						
	30						
	31						
	31	CR-1	HQ	16	GRAY, HARD, FINE GRAIN/CRYSTALLINE DOLOSTONE. SOME PYRITE AND CALCITE FILLED FRACTURES	CR-1 31-36 FT FOUR OPEN HORIZONTAL FRACTURES WITH IRON STAINING SOME DISSOLUTION/WEATHERING REC=4.6' RGD=96%	
	32			9			
	33			9			
	34			8			
	35			8			
	36	CR-2	HQ	7	BLUE GRAY, HARD, FINE GRAIN/CRYSTAL. DOLOSTONE. PYRITE FILLED AND CALCITE FILLED VEINS.	CR-2 36-41 FT MORE FREQUENT FRACTURING THAN CR-1. SIX HORIZONTAL AND TWO SUBVERTICAL FRACTURES ALL WITH IRON AND MANGANESE STAINING AND SOLUTION FEATURES (PITTING) REC=5.3' RGD=83%	
	37			6			
	38			6			
39			4				
40			4				
41	CR-3	HQ	4	BLUE GRAY, HARD, FINE GRAIN/CRYSTALLINE DOLOSTONE. LESS PYRITE, CALCITE FILLED VEINS.	CR-3 41-46 FT SIX HORIZONTAL & ONE VERTICAL OPEN FRACTURE. IRON AND MANGANESE STAINING AND SOME CHEMICAL WEATHERING NOTED ON FINE SURFACE REC=5.1' RGD=96%		
42			6				
43			5				
44			6				
45			5				
46							
					END OF BORING 46 FT	FLUSH MOUNT PROTECTIVE CASING	

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-13

PROJECT WORD PRODUCTS RI

SHEET NO. 1 OF 3

CLIENT WORD PRODUCTS CORPORATION

PROJECT NO. 17092

BORING CONTRACTOR SOIL & WATER MATERIAL TESTING

CASING ELEVATION 462.12

GROUND WATER

WELL DRILL SAMP CORE

GROUND ELEVATION 462.40

DATE 7/30/99 TIME 16:42 WATER DEPTH 16.2 FT BAK

TYPE DIA.

DATE STARTED 7/29/99

WT. -

FALL -

DATE COMPLETED 7/30/99

DRILLER DICIC (KAPFOLD)

INSPECTOR ALLORSON

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 6 INCHES			
	1	1	SS	3	GRAY, LOOSE, GRAVEL	CRUSHED STONE	
				3			
	2			5	BROWN, MEDIUM STIFF, CLAYEY SILT, LITTLE COARSE SAND TO FINE GRAVEL. ORGANIC MATERIAL	DRY ROOTS	0.0
	3			7			
	4						
	5	2	SS	4	BROWN, STIFF, CLAYEY SILT, LITTLE COARSE SAND TO FINE GRAVEL, SEAMS OF FINE SAND.	TILL	0.0
	6			5			
	7			6		SEAMS OF FINE SAND	
	8			10		MOIST	
	9						
	10	3	SS	13	BROWN, HARD, CLAYEY SILT, LITTLE COARSE SAND TO FINE GRAVEL	GRAVEL SUBANG. BROWN SANDSTONE QUARTZITE PEBBLE IN SPOON TIP SAMPLE DRY	0.0
	11			19			
	12			21.3			
	13						
	14						
	15	4	SS	27.1	BROWN, HARD, CLAYEY SILT, LITTLE COARSE SAND TO FINE GRAVEL	DRY, SUBANG. GRAVEL, OLD STONE.	0.0
	16						
	17					CARBON MONOX SENSOR →	(19)
	18						
	19						
	20	5	SS	54	BROWN, HARD, CLAYEY SILT, LITTLE COARSE SAND TO FINE GRAVEL. LAYER OF FINE-MEDIUM SAND IN TIP	TIP MOIST	0.0
21			50				
			38		CHANGE TO SAND @ 22 FT		
			70				

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-13

PROJECT WARD PRODUCTS RT

SHEET NO. 2 OF 3

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE	BLOWS PER 6 INCHES				
	23					WELL SORTED MEDIUM TO COARSE SAND STARTING @ 22 FT		
	24							
	25	6	SS	11	BROWN, DENSE, MEDIUM TO COARSE SAND, SOME FINE SAND, TRACE FINE GRAVEL	WET WELL SORTED AND STRATIFIED CARBON MONOX SENSOR	0.0 (72)	
	26			21				
	27			29				
	28			35		BROWN, DENSE, FINE SAND, SOME SILT		
	29							
	30	7	SS	23	BROWN, DENSE, FINE SAND, SOME SILT	WET STRATIFIED CARBON MONOX SENSOR	0.0 (31)	
	31			28				
	32			36				
	33			36		32.5 FT	CHANGE TO TILL @ 32.5 FT	
	34						LODGE MENT TILL	
	35	8	SS	20	GRAY, HARD, SILT, LITTLE FINE TO COARSE SAND, TRACE FINE GRAVEL	GRAVEL ANGU LAR CARBON MONOX SENSOR	0.0 (2)	
	36			27				
	37			29				
	38			100				
	39							
	40	9	SS	70	GRAY, HARD, SILT, LITTLE FINE TO COARSE SAND, TRACE GRAVEL	DRY CARBON MONOX SENSOR	0.0 (1)	
	41			115				
	42							
	43							
	44							
	45	10	SS	48	GRAY, HARD, SILT, SOME FINE TO MEDIUM SAND, TRACE GRAVEL	PEBBLE/ROCK IN TIP CARBON MONOX SENSOR	0.0 (239)	
	46			100/2				
			CE-1 HQ	NA	CR-1 45.8 - 50.8	BEDROCK @ 45.5 FT		

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-13

PROJECT WARD PRODUCTS RE

SHEET NO. 3 OF 3

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)
		NO	TYPE	BLOWS PER 6 INCHES			
	48	CR-1	HQ	5	DARK GRAY TO BLACK DOLOSTONE, FINE TO MEDIUM GRAIN/CRYSTAL.	CR-1 45.8-50.8 FT SEVERAL MACHINE BREAKS IN BLACK FINE GRAIN SEAMS HORIZONTAL Fe+Mn STAINED FRACTURE AT 48.2' REC=3.4' ROD=97%	
	49			5	BLACK FINE GRAINED LAYERS AND COLITE VES.		
	50			6			
	51			6			
	52	CR-2	HQ	4	DARK GRAY TO BLACK DOLOSTONE, FINE TO MEDIUM GRAIN/CRYSTAL.		
	53			5	BLACK FINE GRAIN LAYERS		
	54			3			
	55	CR-3	HQ	6	DARK GRAY TO BLACK, DOLOSTONE, FINE TO MEDIUM GRAIN/CRYSTAL.	CR-3 54.2-58.8 FT MULTIPLE MACHINE BREAKS ALONG BEDDING PLANES. POSS. WATER BEARING FEATURE @ 56.1 FT* REC=4.6' ROD=98%	
	56			3	BLACK FINE GRAIN LAYERS		
	57			6			
	58			2			
	59			5			
	60	CR-4	HQ	NA	DARK GRAY TO BLACK DOLOSTONE, FINE TO MEDIUM GRAIN/CRYSTAL.	CR-4 58.8-64 FT CORE BROKEN INTO 6 PIECES. FOUR BREAKS POSSIBLE FRACTURES WITH Mn STAINING. TWO OBVIOUS MACHINE BREAKS REC=5.2' ROD=98%	
	61			6			
	62			9			
	63			7			
	64			7			
	65	CR-5	HQ		GRAY TO DARK GRAY, DOLOSTONE.	CR-5 64-69.3 FT CORE BROKEN INTO 6 PIECES, FIVE OF SIX BREAKS POSSIBLE MACHINE BREAKS. HORIZONTAL FRACTURE WITH Fe STAIN AND SOLUTION @ 67.5 FT* REC=5.3' ROD=93%	
	66						
67							
68							
69							
70				END OF BORING 69.3'	INSTALLED FLUSH MOUNT PROTECTIVE CASING		
71							



# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MLW-14

PROJECT WARD PRODUCTS TRI

SHEET NO. 1 OF 2

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092.004

BORING CONTRACTOR SOIL 3 MATERIAL TESTING

CASING ELEVATION 453.66

GROUND WATER

WELL DRILL SAMP CORE

GROUND ELEVATION 451.7

DATE	TIME	WATER DEPTH	TYPE	PVC	AIR	SS	HQ	DATE STARTED
7/20/00	8:46	6.73 BTVC	DIA.	2IN	4IN	2IN	3 7/8IN	7/18/00
7/20/00	17:49	6.65 BTVC	WT.	-	-	140LB	-	7/20/00
			FALL	-	-	30IN	-	DRILLER <u>DICK RAGGOLD</u>
								INSPECTOR <u>AL LUTSOW</u>

WELL CONSTRUCTION	DEPTH	SAMPLE		SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE				
	4	1	SS	2-3 4-7	BROWN, MEDIUM SOFT, SILTY CLAY, LITTLE MEDIUM FINE SAND. --- 0.8 FT ---	0.1	
	5	2	SS	8-14 20-22	TAN, MEDIUM SOFT, SILTY CLAY, SOME F-IN SAND. LIGHT BROWN, HARD, SILT AND FINE SAND, SOME FINE GRAVEL.	0.1	
	10	3	SS	18-27 30-32	SAME AS ABOVE	0.0	
	15	4	SS	18-26 32-35	SAME AS ABOVE	FRACTURES IRON STAINED, MATOR DRY. POSS SAND SEAM 13-15FT	0.0
	20	5	SS	75-95	LIGHT BROWN, VERY DENSE, FINE SAND AND SILT, SOME FINE GRAVEL	WET, MORE PERMEABLE THAN 1-4, SANDY TILL	0.0
	25	6	SS	15-8 15-17	GRAY, VERY STIFF, CLAYEY SILT, LITTLE SAND AND FINE GRAVEL.	LODGEMENT TILL	
	30	7	SS	3-4 5-5	GRAY, LOOSE, SAND, SOME FINE GRAVEL, TRACE SILT.	WET MODERATELY WELL SORTED SAND, QUARTZ PEBBLE	0.0
	35	8	SS	4-4 5-5	GRAY, STIFF, SILT AND VERY FINE SAND, TRACE CLAY	WET, SLIGHTLY COHESIVE, NON-PLASTIC	0.0
	40				40.8 FT	POSSIBLE CHANGE TILTS UP @ 39.3	
			CR-1	HQ	14 8 9 12	MASSIVE, BLUE GRAY, HARD, DOLOSTONE/LIMESTONE	REFUSAL BEDROCK @ 40.8'

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-14

PROJECT WARD PRODUCTS RT

SHEET NO. 2 OF 2

CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092.004

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE	BLOWS PER 6 INCHES				
	45	CR-1	HA	9	MASSIVE, BLUE-GRAY, HARD DOLOSTONE / LIMESTONE	CR-1 MAJOR FRACTURE 42.3'	290 82	
		CR-2	HA	7		CR-2 44.8 - 50 FT HORIZONTAL FRACTURES @ 47.9, 48.9, 49.7 & 50	290 93	
			9					
			10					
			9					
			6					
	50	CR-3	HA	3		SAME AS ABOVE	CR-3 50 - 53.5 FT WATER BEARING FRACTURE BT 50 FT OTHER FRACTURES @ 50.2, 52 & 53 FT	290 87
				8				
				8				
				6				
	55	CR-4	HA	9	SAME AS ABOVE	CR-4 53.5 - 58.8 FT HORIZONTAL FRACTURES BT: 54.2, 55.7, 57.1 & 58.55.	290 98	
				11				
				10				
		60				END OF BORING 58.8 FT		
					LOCKING STEEL CASING INSTALLED ABOVE GRADE			

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-15

PROJECT Ward Products RI

SHEET NO. 1 OF 2

CLIENT Ward P

PROJECT NO. 17092.004

BORING CONTRACTOR

CASING ELEVATION 445.20

GROUND WATER

GROUND ELEVATION 445.6

DATE	TIME	WATER DEPTH	TYPE	PVC	DRILL	SAMP	CORE
7/24/00	12:06	8.41	BT PVC	2 IN	4 IN	2 IN	3 3/8 IN
			WT.	-	-	140 LB	-
			FALL	-	-	30 IN	-

DATE STARTED 7/20/00

DATE COMPLETED 7/24/00

DRILLER DICK RAGGOLD

INSPECTOR D. LARSON

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)	
		NO	TYPE	BLOWS PER 6 INCHES				
	5	1	SS	14-12	BROWN, MEDIUM DENSE, FINE TO MEDIUM SAND, SOME GRAVEL, TRACE SILT.	FILL	0.4	
					10-14	DARK BROWN, VERY STIFF SILT, LITTLE CLAY, TRACE GRAVEL	CHANGE TO: DECOMPOSED PLANT MATTER. TOPSOIL	
	5	2	SS	16-18	BROWN, HARD, SILT, SOME FINE SAND, LITTLE GRAVEL, TRACE CLAY.	GLACIAL TILL	0.0	
					26-30		QTE, SCALTS, SHALE CLASTS SUBANGULAR	
	10	3	SS	11-14	BROWN, HARD SILT, SOME FINE SAND, LITTLE CLAY	SOME STRAT. SEAMS OF CLAY 1/3 SILT. DRY	0.0	
					19-26			
	15	4	SS	18-18	BROWN, HARD, SILT, SOME FINE SAND, LITTLE CLAY, TRACE GRAVEL	SATURATED SAND SEAMS FeO STAINING	0.0	
					14-12	GRAY, HARD, SILT, SOME CLAY, LITTLE SAND AND G.	TRANSITION TO: LODGEMENT TILL	
	20	5	SS	8-16	SAME AS ABOVE	MOIST, GNGISS PEBBLE.	0.1	
					20-14			
	25	6	SS	13-17	GRAY, DENSE, SILTY FINE SAND, SOME MEDIUM TO COARSE SAND 1/3 F. GRAVEL	SATURATED POORLY SORTED	0.1	
					21-10			
	30	7	SS	30-14	GRAY, SILT, LITTLE FINE SAND AND GRAVEL	MOIST/WET GRAVEL SUB ROUND/SUB ANGULAR	0.0	
					10-9			
	35	8	SS	22-27	GRAY, DENSE, FINE SAND, SOME SILT GRADING TO	REFUSAL @ 36.5 FT	0.1	
					90	GRAY, HARD, SILT, SOME SAND	SATURATED	
	40		CR-1	HQ	11 MIN	BLUE GRAY, HARD, DOLOSTONE	BEGIN CORE @ 37 FT POSS. WATER BEARING FRACTURE AT 38.8 FT	94%
					6			
					5			
					5			
					5			
			CR-2	HQ	7 MIN			
					7			

# NORMANDEAU ASSOCIATES

# TEST BORING LOG

BORING NUMBER MW-15

PROJECT WARD PRODUCTS RET.

SHEET NO. 2 OF 2

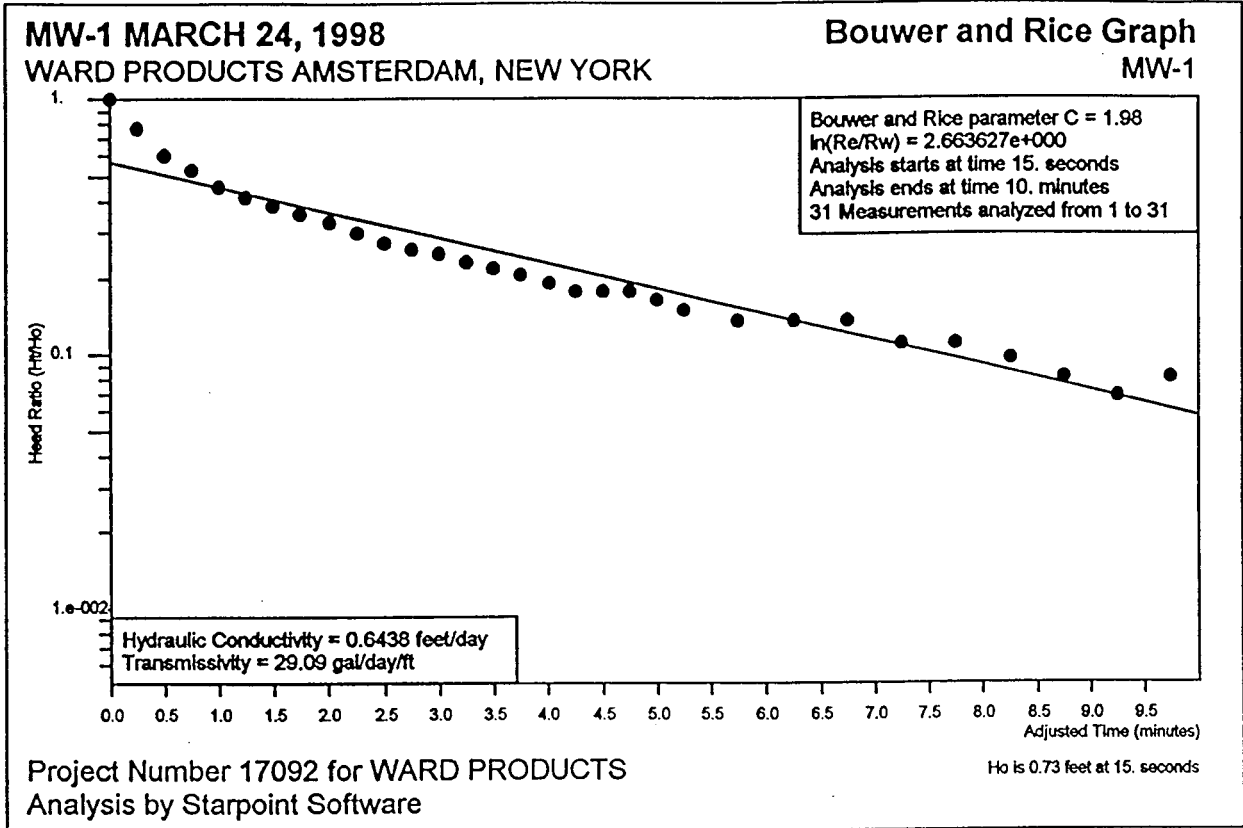
CLIENT WARD PRODUCTS CORPORATION

PROJECT NO. 17092.004

WELL CONSTRUCTION	DEPTH	SAMPLE			SAMPLE DESCRIPTION AND CLASSIFICATION	REMARKS	VOC (ppm)											
		NO	TYPE	BLOWS PER 6 INCHES														
	45	CR-2	HQ	10 MIN 9 6	BLUE GRAY, 100RD, DOLOSTONE / LIMESTONE SHOBY SEAMS	HORIZONTAL FRACTURES AT: 43.3, 43.6, 46.8 LAST FRACTURE POSS H <sub>2</sub> O	RAD 89%											
	50	CR-3	HQ	8 MIN 10 9 8 7	SAME AS ABOVE	HORIZONTAL FRACTURES AT 47.5, 49.4, 50.5, 51.6 AND 52.4	RAD 94%											
				55				CR-4	HQ	5 MIN 8 9	SAME AS ABOVE	HORIZONTAL FRACTURES AT 52.5, 53, 53.3, 54.5	RAD 85%					
										60								
	END OF BORING 55.2 FT					INSTALLED FLUSH MOUNT PROTECTIVE CASING												

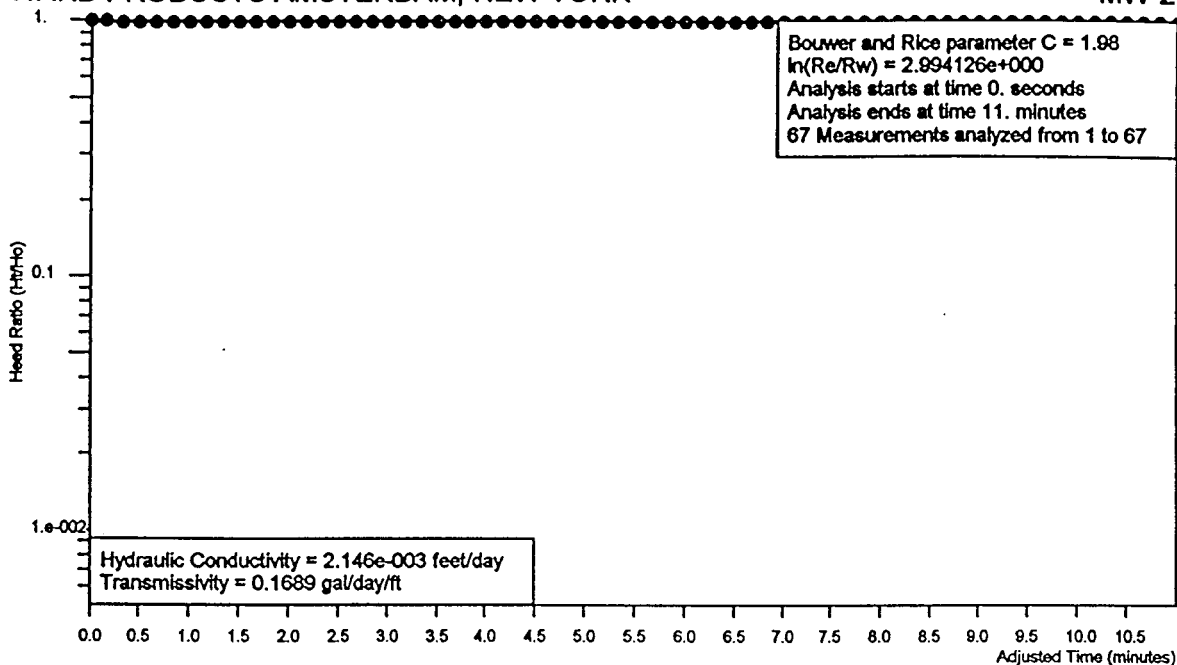
**APPENDIX F**

**HYDRAULIC CONDUCTIVITY  
TEST RESULTS**



MW-2 IN MARCH 24, 1998  
WARD PRODUCTS AMSTERDAM, NEW YORK

Bouwer and Rice Graph  
MW-2



Project Number 17092 for WARD PRODUCTS CORPORATION  
Analysis by Starpoint Software

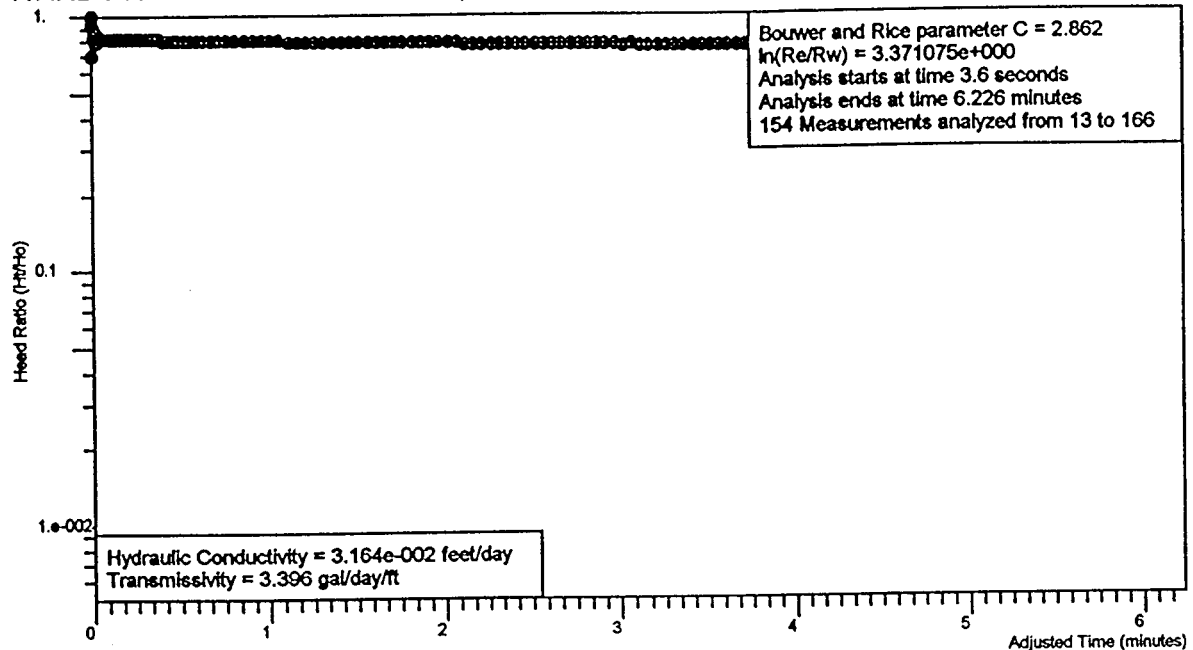
$h_0$  is 9.574 feet at 0. seconds

MW-3 MARCH 24, 1998

WARD PRODUCTS AMSTERDAM, NEW YORK

Bouwer and Rice Graph

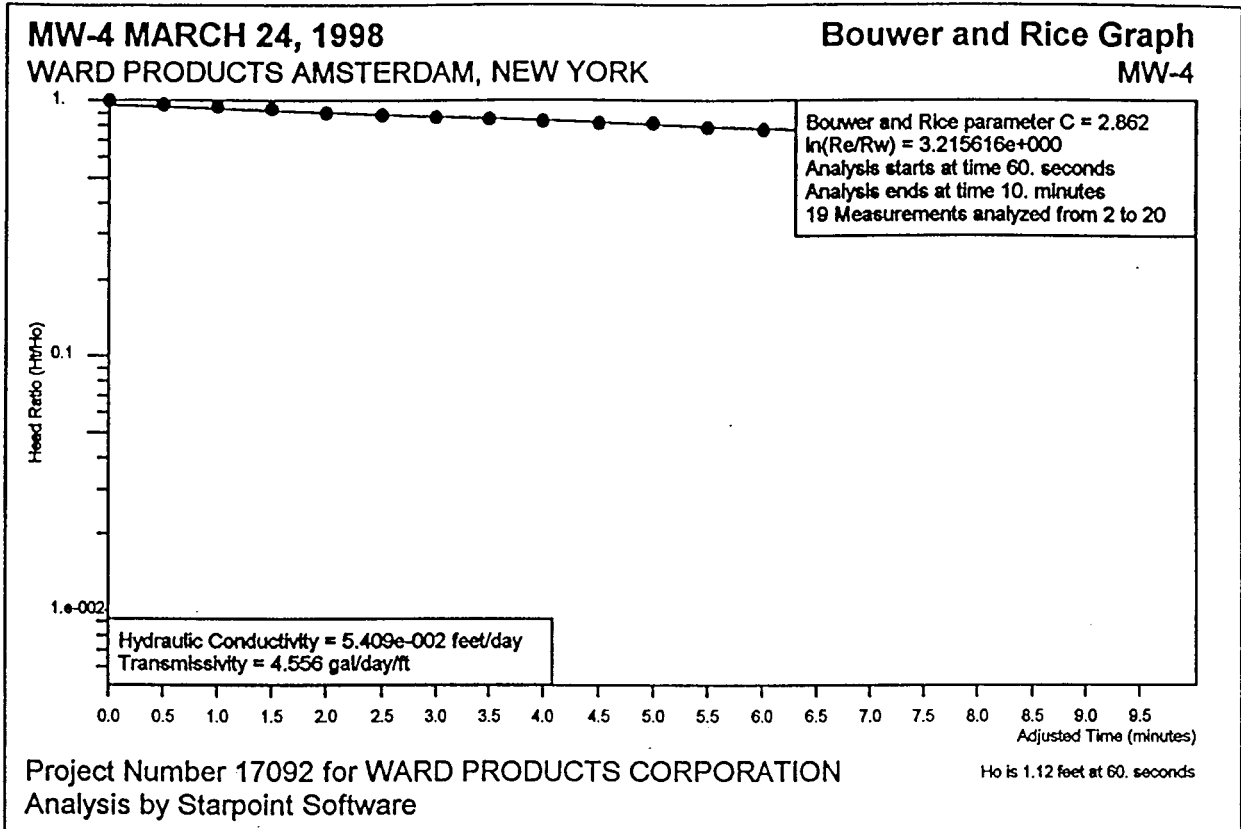
MW-3



Project Number 17092 for WARD PRODUCTS CORPORATION  
Analysis by Starpoint Software

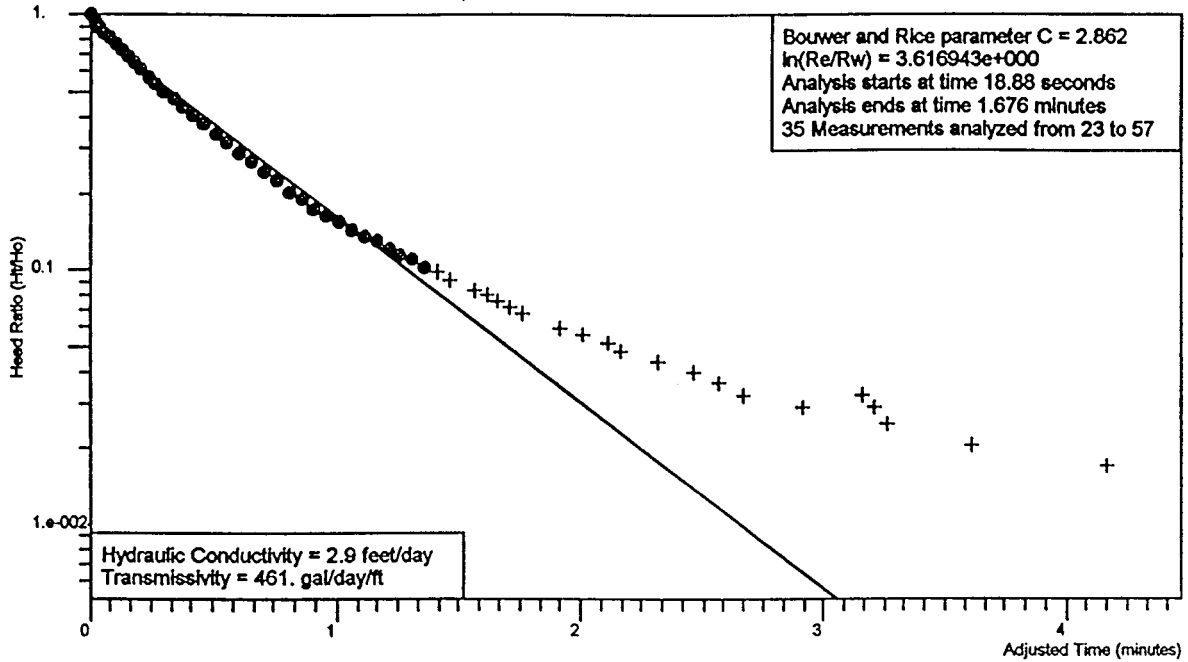
$H_0$  is 1.506 feet at 3.6 seconds





MW-4R OUT MARCH 24, 1998  
WARD PRODUCTS AMSTERDAM, NEW YORK

Bouwer and Rice Graph  
MW-4R



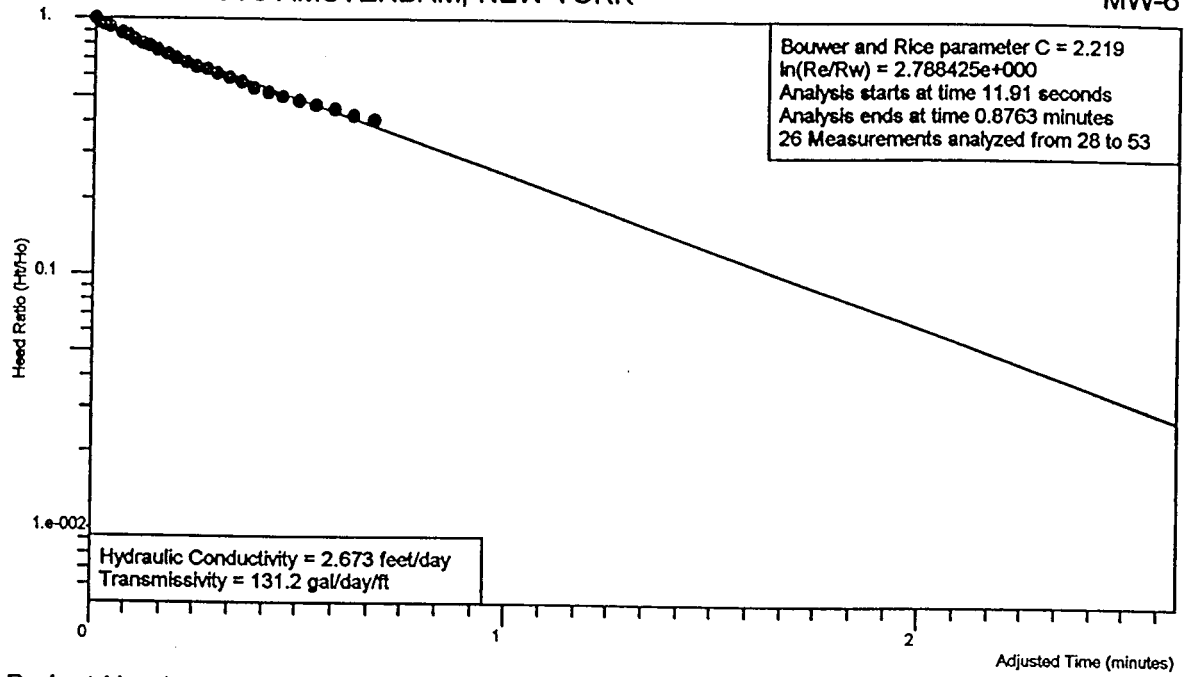
Project Number 17092 for WARD PRODUCTS CORPORATION  
Analysis by Starpoint Software

Ho is 1.182 feet at 18.88 seconds

MW-6 OUT AUGUST 28, 1997

WARD PRODUCTS AMSTERDAM, NEW YORK

Bower and Rice Graph  
MW-6

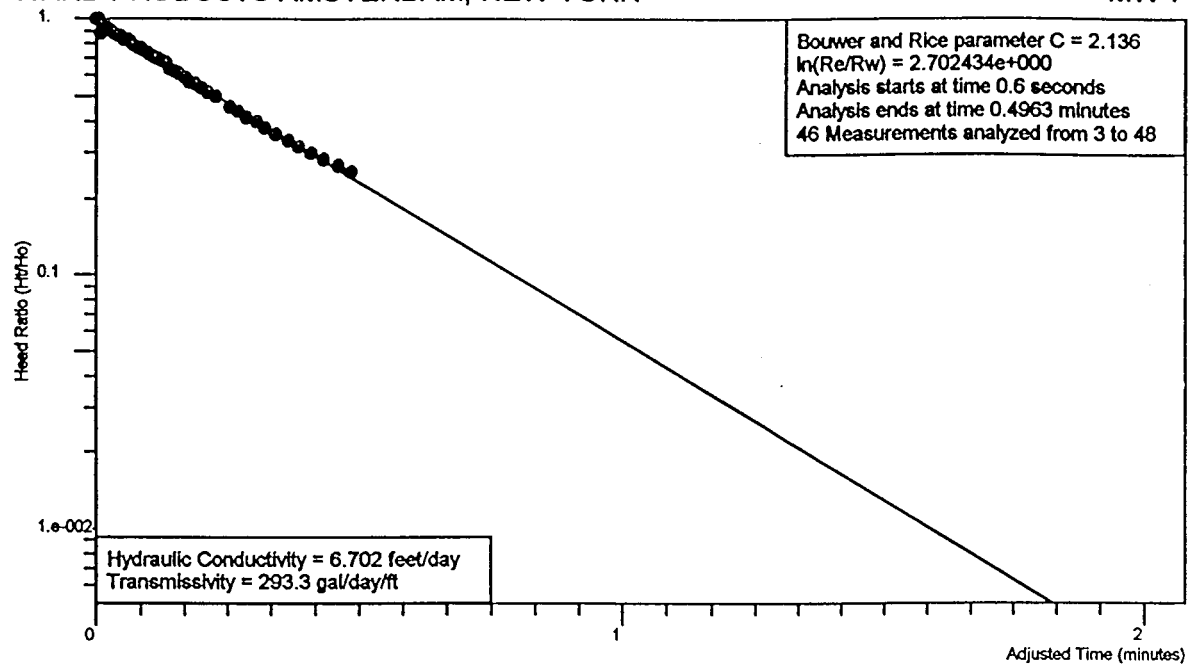


Project Number 17092 for WARD PRODUCTS CORPORATION  
Analysis by Starpoint Software

Ho is 0.95 feet at 11.91 seconds

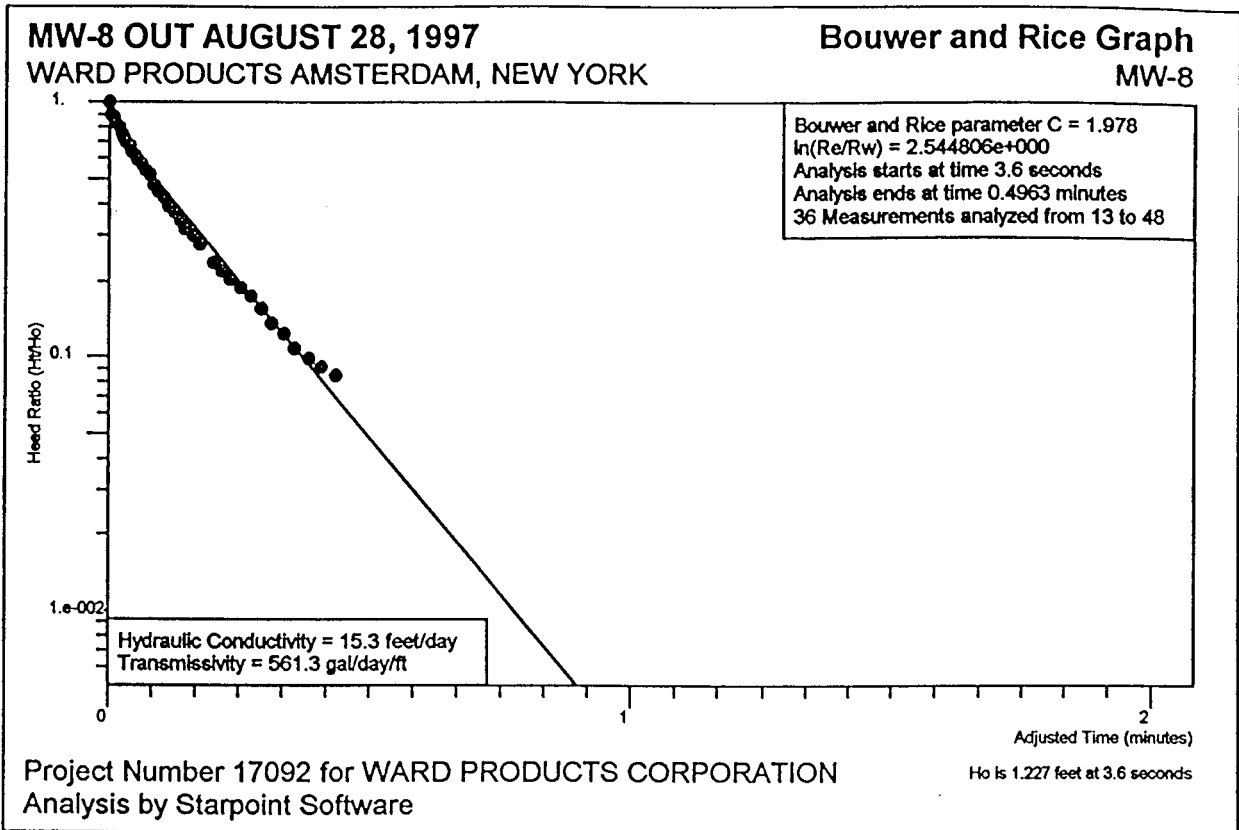
MW-7 OUT AUGUST 28, 1997  
WARD PRODUCTS AMSTERDAM, NEW YORK

Bouwer and Rice Graph  
MW-7



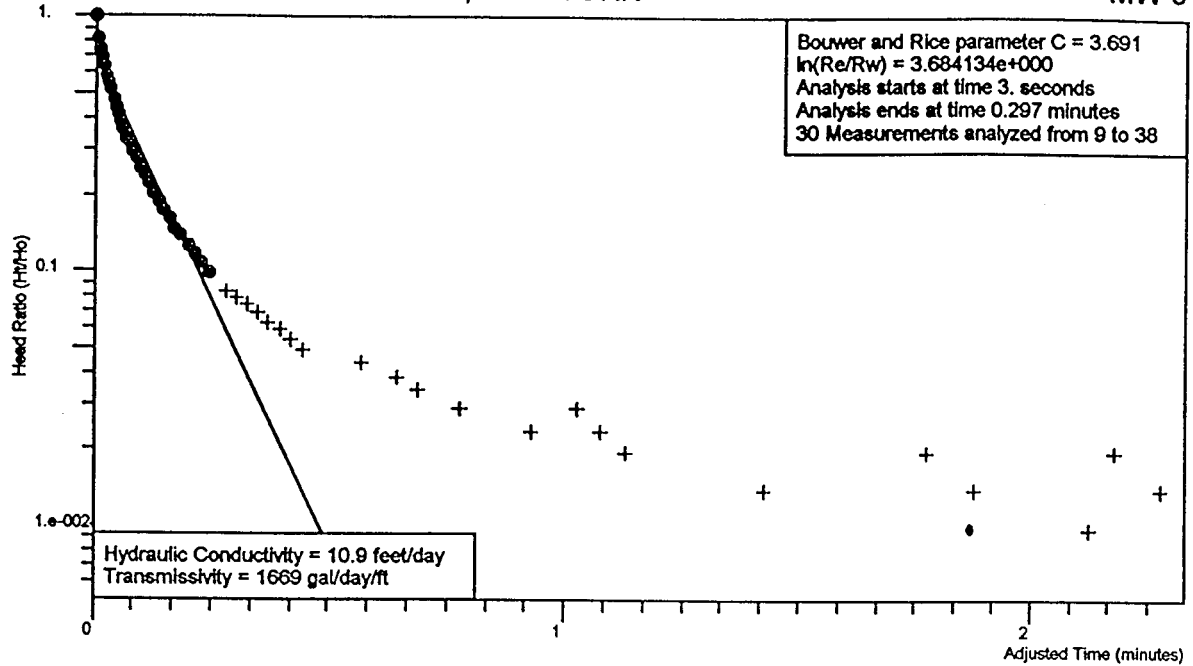
Project Number 17092 for WARD PRODUCTS CORPORATION  
Analysis by Starpoint Software

$h_0$  is 1.343 feet at 0.6 seconds



MW-8 MARCH 24, 1998  
WARD PRODUCTS AMSTERDAM, NEW YORK

Bouwer and Rice Graph  
MW-8



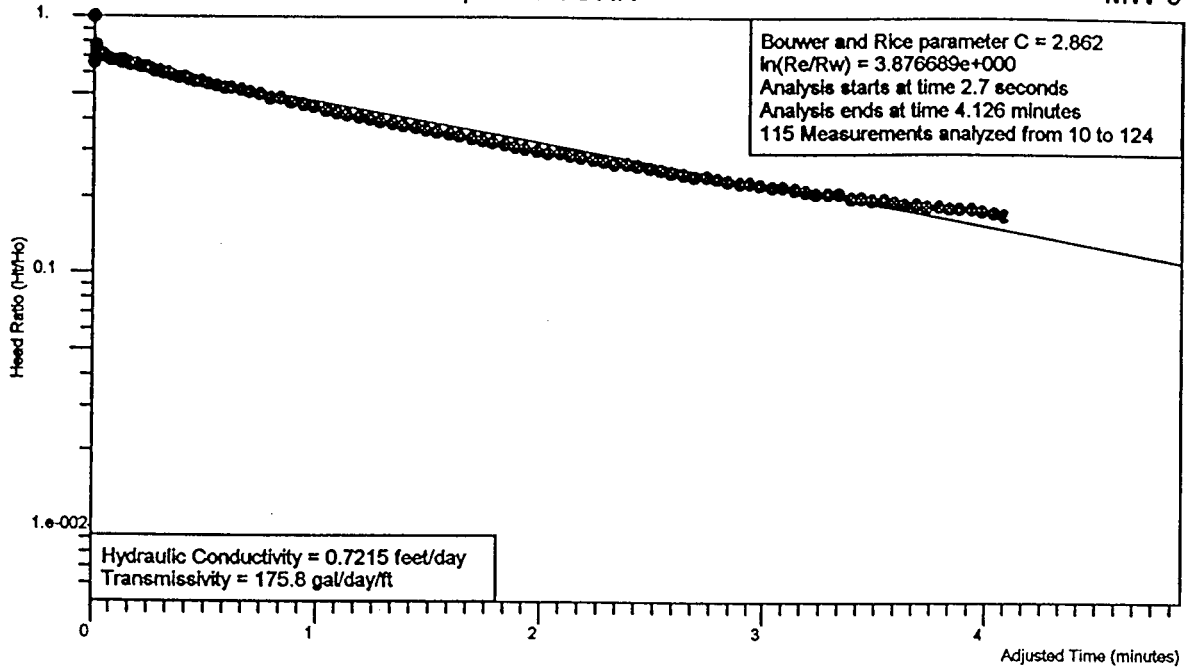
Project Number 17092 for WARD PRODUCTS CORPORATION  
Analysis by Starpoint Software

h<sub>0</sub> is 0.938 feet at 3. seconds

MW-9 MARCH 24, 1998

WARD PRODUCTS AMSTERDAM, NEW YORK

Bouwer and Rice Graph  
MW-9



Project Number 17092 for WARD PRODUCTS CORPORATION  
Analysis by Starpoint Software

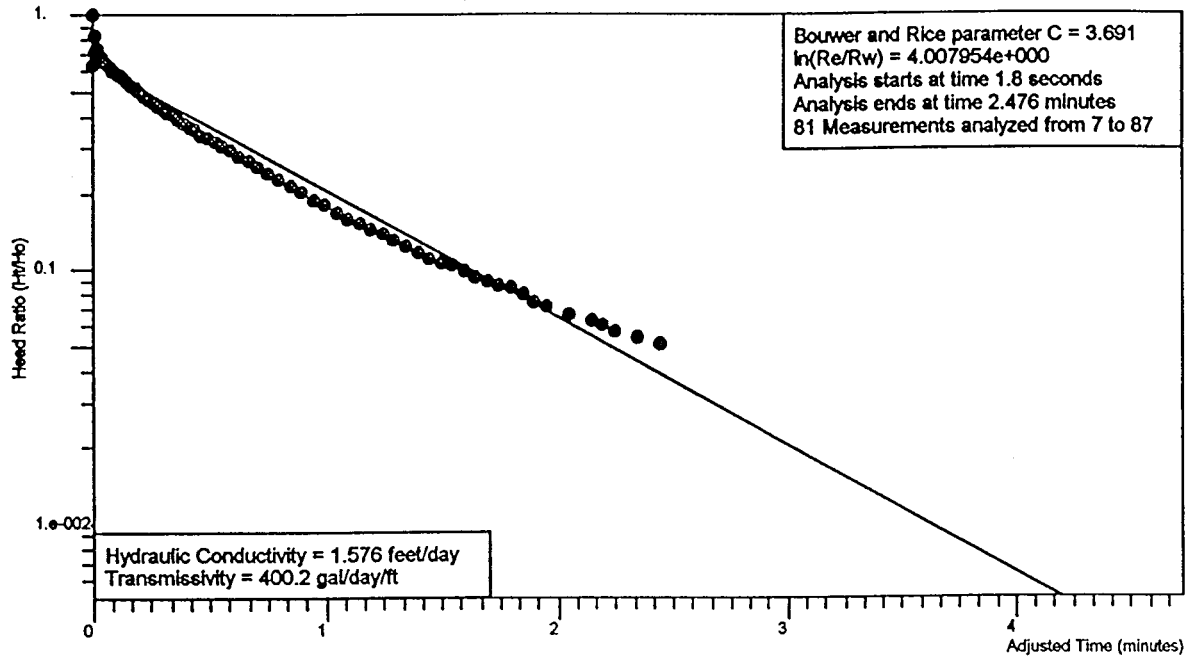
h<sub>0</sub> is 1.655 feet at 2.7 seconds

MW-10 MARCH 24, 1998

WARD PRODUCTS AMSTERDAM, NEW YORK

Bouwer and Rice Graph

MW-10



Project Number 17092 for WARD PRODUCTS CORPORATION

Analysis by Starpoint Software

$h_0$  is 1.55 feet at 1.8 seconds



