

REMEDIAL INVESTIGATIONS REPORT

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

VOLUME TWO: APPENDICES

Three

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

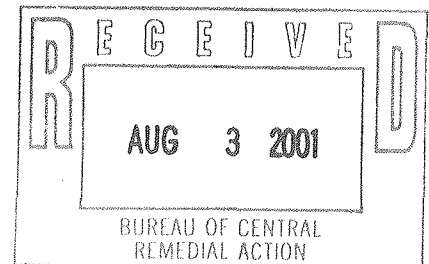


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- H Thermo Tetec Reports on the Drain Pipe IRM
- I Niagara Mohawk and Thermo Retec Reports on PCB IRM

APPENDIX G

**LABORATORY RESULTS FOR
GROUNDWATER AND
SURFACE WATER QUALITY
SAMPLES**

MAY 1997



LLI Sample No. WW 2715822

Collected: 5/22/97 at 15:50 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-MW1-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	LIMIT OF QUANTITATION	
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	< 0.010	0.010	mg/l
1754	Iron	< 0.10	0.10	mg/l
1755	Lead	< 0.10	0.10	mg/l
1758	Manganese	< 0.010	0.010	mg/l
1761	Nickel	< 0.050	0.050	mg/l
1772	Zinc	< 0.025	0.025	mg/l
0219	Nitrite Nitrogen	< 0.020	0.020	mg/l
0220	Nitrate Nitrogen	0.369	0.050	mg/l
0222	Ammonia Nitrogen	0.074	0.050	mg/l
0237	Total Cyanide (water)	0.0053	0.0050	mg/l
0276	Hexavalent Chromium	0.578	0.010	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 110% and 84%. The acceptance window for this analysis is 85% to 115%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
0280	Specific Conductance	660.	5.0	umhos/cm
1125	Sulfate (turbidimetric)	45.0	4.0	mg/l

1 COPY TO Normandeau Associates

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative

Lisa M. Hetrick at (717) 656-2300

22:25:40 D 0001 9 127551 566374

232 0.00 00034330 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. WW 2715822

Collected: 5/22/97 at 15:50 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-MW1-220597 Grab Water Sample

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 25 Nashua Road
 Bedford NH 03110-5500

P.O. 17029.002

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AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 5.	5.	ug/l
1257	Bromomethane	< 5.	5.	ug/l
3492	Vinyl Chloride	< 5.	5.	ug/l
3494	Chloroethane	< 5.	5.	ug/l
3495	Acrolein	< 100.	100.	ug/l
3496	Acrylonitrile	< 50.	50.	ug/l
3497	Methylene Chloride	< 5.	5.	ug/l
1264	Trichlorofluoromethane	< 5.	5.	ug/l
3500	1,1-Dichloroethene	< 5.	5.	ug/l
3501	1,1-Dichloroethane	< 5.	5.	ug/l
3503	Chloroform	< 5.	5.	ug/l
3504	1,2-Dichloroethane	< 5.	5.	ug/l
3505	1,1,1-Trichloroethane	< 5.	5.	ug/l
3506	Carbon Tetrachloride	< 5.	5.	ug/l
3508	Bromodichloromethane	< 5.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/l
3509	1,2-Dichloropropane	< 5.	5.	ug/l
3510	trans-1,3-Dichloropropene	< 5.	5.	ug/l
3511	Trichloroethene	140.	5.	ug/l
3512	Dibromochloromethane	< 5.	5.	ug/l
3513	1,1,2-Trichloroethane	< 5.	5.	ug/l
3515	Benzene	< 5.	5.	ug/l
3516	cis-1,3-Dichloropropene	< 5.	5.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/l
3518	Bromoform	< 5.	5.	ug/l
3522	Tetrachloroethene	< 5.	5.	ug/l
3524	Toluene	< 5.	5.	ug/l
3525	Chlorobenzene	< 5.	5.	ug/l
3526	Ethylbenzene	< 5.	5.	ug/l
3529	Xylene (total)	< 5.	5.	ug/l
5780	trans-1,2-Dichloroethene	< 5.	5.	ug/l
6268	cis-1,2-Dichloroethene	< 5.	5.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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



LLI Sample No. WW 2715818

Collected: 5/22/97 at 12:45 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-MW2-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	LIMIT OF QUANTITATION	
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	< 0.010	0.010	mg/l
1754	Iron	4.64	0.10	mg/l
1755	Lead	< 0.10	0.10	mg/l
1758	Manganese	0.084	0.010	mg/l
1761	Nickel	< 0.050	0.050	mg/l
1772	Zinc	< 0.025	0.025	mg/l
0219	Nitrite Nitrogen	< 0.020	0.020	mg/l
0220	Nitrate Nitrogen	0.317	0.050	mg/l
0222	Ammonia Nitrogen	< 0.050	0.050	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	1.42	0.040	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 110% and 84%. The acceptance window for this analysis is 85% to 115%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
0280	Specific Conductance	702.	5.0	umhos/cm
1125	Sulfate (turbidimetric)	51.0	4.0	mg/l

1 COPY TO Normandeau Associates

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative
Lisa M. Hetrick at (717) 656-2300
22:23:54 D 0001 9 127551 566374
232 0.00 00034330 ASR000



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717-656-2300 Fax: 717-656-2681

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





LLI Sample No. WW 2715818

Collected: 5/22/97 at 12:45 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-MM2-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

Account No: 08863
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 25 Nashua Road
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P.O. 17029.002

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AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 5.	5.	ug/l
1257	Bromomethane	< 5.	5.	ug/l
3492	Vinyl Chloride	< 5.	5.	ug/l
3494	Chloroethane	< 5.	5.	ug/l
3495	Acrolein	< 100.	100.	ug/l
3496	Acrylonitrile	< 50.	50.	ug/l
3497	Methylene Chloride	< 5.	5.	ug/l
1264	Trichlorofluoromethane	< 5.	5.	ug/l
3500	1,1-Dichloroethene	< 5.	5.	ug/l
3501	1,1-Dichloroethane	< 5.	5.	ug/l
3503	Chloroform	< 5.	5.	ug/l
3504	1,2-Dichloroethane	< 5.	5.	ug/l
3505	1,1,1-Trichloroethane	< 5.	5.	ug/l
3506	Carbon Tetrachloride	< 5.	5.	ug/l
3508	Bromodichloromethane	< 5.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/l
3509	1,2-Dichloropropane	< 5.	5.	ug/l
3510	trans-1,3-Dichloropropene	< 5.	5.	ug/l
3511	Trichloroethene	< 5.	5.	ug/l
3512	Dibromochloromethane	< 5.	5.	ug/l
3513	1,1,2-Trichloroethane	< 5.	5.	ug/l
3515	Benzene	< 5.	5.	ug/l
3516	cis-1,3-Dichloropropene	< 5.	5.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/l
3518	Bromoform	< 5.	5.	ug/l
3522	Tetrachloroethene	< 5.	5.	ug/l
3524	Toluene	< 5.	5.	ug/l
3525	Chlorobenzene	< 5.	5.	ug/l
3526	Ethylbenzene	< 5.	5.	ug/l
3529	Xylene (total)	< 5.	5.	ug/l
5780	trans-1,2-Dichloroethene	< 5.	5.	ug/l
6268	cis-1,2-Dichloroethene	< 5.	5.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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



Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 1 of 6

L/LI Sample No. WW 2715816

Collected: 5/22/97 at 10:53 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-MW3-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	LIMIT OF QUANTITATION	
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	< 0.010	0.010	mg/l
1754	Iron	4.39	0.10	mg/l
1755	Lead	< 0.10	0.10	mg/l
1758	Manganese	0.152	0.010	mg/l
1761	Nickel	< 0.050	0.050	mg/l
1772	Zinc	0.038	0.025	mg/l
0219	Nitrite Nitrogen	< 0.020	0.020	mg/l
0220	Nitrate Nitrogen	0.266	0.050	mg/l
0222	Ammonia Nitrogen	< 0.050	0.050	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 110% and 84%. The acceptance window for this analysis is 85% to 115%. The blank and LCS/LCSD analyzed with the sample were within specifications. This sample was submitted past the 24 hour holding time for hexavalent chromium.				
0280	Specific Conductance	633.	5.0	umhos/cm
1125	Sulfate (turbidimetric)	< 8.0	8.0	mg/l
Due to interferences from the sample matrix, the limit of quantitation for the sulfate determination was increased.				

1 COPY TO Normandeau Associates

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative
Lisa M. Hetrick at (717) 656-2300
22:23:15 D 0001 9 127551 566374
232 0.00 00034330 ASR000



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. WW 2715816

Collected: 5/22/97 at 10:53 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-MW3-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 5.	5.	ug/l
1257	Bromomethane	< 5.	5.	ug/l
3492	Vinyl Chloride	< 5.	5.	ug/l
3494	Chloroethane	< 5.	5.	ug/l
3495	Acrolein	< 100.	100.	ug/l
3496	Acrylonitrile	< 50.	50.	ug/l
3497	Methylene Chloride	< 5.	5.	ug/l
1264	Trichlorofluoromethane	< 5.	5.	ug/l
3500	1,1-Dichloroethene	< 5.	5.	ug/l
3501	1,1-Dichloroethane	< 5.	5.	ug/l
3503	Chloroform	< 5.	5.	ug/l
3504	1,2-Dichloroethane	< 5.	5.	ug/l
3505	1,1,1-Trichloroethane	< 5.	5.	ug/l
3506	Carbon Tetrachloride	< 5.	5.	ug/l
3508	Bromodichloromethane	< 5.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/l
3509	1,2-Dichloropropane	< 5.	5.	ug/l
3510	trans-1,3-Dichloropropene	< 5.	5.	ug/l
3511	Trichloroethene	< 5.	5.	ug/l
3512	Dibromochloromethane	< 5.	5.	ug/l
3513	1,1,2-Trichloroethane	< 5.	5.	ug/l
3515	Benzene	< 5.	5.	ug/l
3516	cis-1,3-Dichloropropene	< 5.	5.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/l
3518	Bromoform	< 5.	5.	ug/l
3522	Tetrachloroethene	< 5.	5.	ug/l
3524	Toluene	< 5.	5.	ug/l
3525	Chlorobenzene	< 5.	5.	ug/l
3526	Ethylbenzene	< 5.	5.	ug/l
3529	Xylene (total)	< 5.	5.	ug/l
5780	trans-1,2-Dichloroethene	< 5.	5.	ug/l
6268	cis-1,2-Dichloroethene	< 5.	5.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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



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



LLI Sample No. WW 2715820

Collected: 5/22/97 at 14:20 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-MW4-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	LIMIT OF QUANTITATION	
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	< 0.010	0.010	mg/l
1754	Iron	0.39	0.10	mg/l
1755	Lead	< 0.10	0.10	mg/l
1758	Manganese	0.023	0.010	mg/l
1761	Nickel	< 0.050	0.050	mg/l
1772	Zinc	< 0.025	0.025	mg/l
0219	Nitrite Nitrogen	< 0.020	0.020	mg/l
0220	Nitrate Nitrogen	0.479	0.050	mg/l
0222	Ammonia Nitrogen	< 0.050	0.050	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	0.086	0.010	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 110% and 84%. The acceptance window for this analysis is 85% to 115%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
0280	Specific Conductance	509.	5.0	umhos/cm
1125	Sulfate (turbidimetric)	16.5	2.0	mg/l

1 COPY TO Normandeau Associates

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative
Lisa M. Hetrick at (717) 656-2300
22:24:45 D 0001 9 127551 566374
232 0.00 00034330 ASR000



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Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





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A division of Thermo Analytical Inc.

Page: 2 of 6

LLI Sample No. WW 2715820

Collected: 5/22/97 at 14:20 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-MW4-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002

Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 5.	5.	ug/l
1257	Bromomethane	< 5.	5.	ug/l
3492	Vinyl Chloride	< 5.	5.	ug/l
3494	Chloroethane	< 5.	5.	ug/l
3495	Acrolein	< 100.	100.	ug/l
3496	Acrylonitrile	< 50.	50.	ug/l
3497	Methylene Chloride	< 5.	5.	ug/l
1264	Trichlorofluoromethane	< 5.	5.	ug/l
3500	1,1-Dichloroethene	< 5.	5.	ug/l
3501	1,1-Dichloroethane	< 5.	5.	ug/l
3503	Chloroform	< 5.	5.	ug/l
3504	1,2-Dichloroethane	< 5.	5.	ug/l
3505	1,1,1-Trichloroethane	< 5.	5.	ug/l
3506	Carbon Tetrachloride	< 5.	5.	ug/l
3508	Bromodichloromethane	< 5.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/l
3509	1,2-Dichloropropane	< 5.	5.	ug/l
3510	trans-1,3-Dichloropropene	< 5.	5.	ug/l
3511	Trichloroethene	330.	10.	ug/l
3512	Dibromochloromethane	< 5.	5.	ug/l
3513	1,1,2-Trichloroethane	< 5.	5.	ug/l
3515	Benzene	< 5.	5.	ug/l
3516	cis-1,3-Dichloropropene	< 5.	5.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/l
3518	Bromoform	< 5.	5.	ug/l
3522	Tetrachloroethene	< 5.	5.	ug/l
3524	Toluene	< 5.	5.	ug/l
3525	Chlorobenzene	< 5.	5.	ug/l
3526	Ethylbenzene	< 5.	5.	ug/l
3529	Xylene (total)	< 5.	5.	ug/l
5780	trans-1,2-Dichloroethene	< 5.	5.	ug/l
6268	cis-1,2-Dichloroethene	< 5.	5.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. WW 2715819

Collected: 5/22/97 at 13:05 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-DP-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	LIMIT OF QUANTITATION	
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	< 0.010	0.010	mg/l
1754	Iron	1.23	0.10	mg/l
1755	Lead	< 0.10	0.10	mg/l
1758	Manganese	0.068	0.010	mg/l
1761	Nickel	< 0.050	0.050	mg/l
1772	Zinc	< 0.025	0.025	mg/l
0219	Nitrite Nitrogen	< 0.020	0.020	mg/l
0220	Nitrate Nitrogen	0.206	0.050	mg/l
0222	Ammonia Nitrogen	< 0.050	0.050	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	0.397	0.010	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 110% and 84%. The acceptance window for this analysis is 85% to 115%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
0280	Specific Conductance	692.	5.0	umhos/cm
1125	Sulfate (turbidimetric)	60.6	8.0	mg/l

1 COPY TO Normandeau Associates

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative
 Lisa M. Hetrick at (717) 656-2300
 22:24:18 D 0001 9 127551 566374
 232 0.00 00034330 ASR000



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Respectfully Submitted
 Ramona V. Layman
 Manager, Metals/Leachates





LLI Sample No. WW 2715819

Collected: 5/22/97 at 13:05 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-DP-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

Account No: 08863
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AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 5.	5.	ug/l
1257	Bromomethane	< 5.	5.	ug/l
3492	Vinyl Chloride	< 5.	5.	ug/l
3494	Chloroethane	< 5.	5.	ug/l
3495	Acrolein	< 100.	100.	ug/l
3496	Acrylonitrile	< 50.	50.	ug/l
3497	Methylene Chloride	< 5.	5.	ug/l
1264	Trichlorofluoromethane	< 5.	5.	ug/l
3500	1,1-Dichloroethene	< 5.	5.	ug/l
3501	1,1-Dichloroethane	< 5.	5.	ug/l
3503	Chloroform	< 5.	5.	ug/l
3504	1,2-Dichloroethane	< 5.	5.	ug/l
3505	1,1,1-Trichloroethane	< 5.	5.	ug/l
3506	Carbon Tetrachloride	< 5.	5.	ug/l
3508	Bromodichloromethane	< 5.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/l
3509	1,2-Dichloropropane	< 5.	5.	ug/l
3510	trans-1,3-Dichloropropene	< 5.	5.	ug/l
3511	Trichloroethene	< 5.	5.	ug/l
3512	Dibromochloromethane	< 5.	5.	ug/l
3513	1,1,2-Trichloroethane	< 5.	5.	ug/l
3515	Benzene	< 5.	5.	ug/l
3516	cis-1,3-Dichloropropene	< 5.	5.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/l
3518	Bromoform	< 5.	5.	ug/l
3522	Tetrachloroethene	< 5.	5.	ug/l
3524	Toluene	< 5.	5.	ug/l
3525	Chlorobenzene	< 5.	5.	ug/l
3526	Ethylbenzene	< 5.	5.	ug/l
3529	Xylene (total)	< 5.	5.	ug/l
5780	trans-1,2-Dichloroethene	< 5.	5.	ug/l
6268	cis-1,2-Dichloroethene	< 5.	5.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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



LLI Sample No. WW 2715821

Collected: 5/22/97 at 15:15 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-FB-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	< 0.010	0.010	mg/l
1754	Iron	< 0.10	0.10	mg/l
1755	Lead	< 0.10	0.10	mg/l
1758	Manganese	< 0.010	0.010	mg/l
1761	Nickel	< 0.050	0.050	mg/l
1772	Zinc	< 0.025	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 110% and 84%. The acceptance window for this analysis is 85% to 115%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
0280	Specific Conductance	< 5.0	5.0	umhos/cm
1125	Sulfate (turbidimetric)	< 2.0	2.0	mg/l

1 COPY TO Normandeau Associates

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative
Lisa M. Hetrick at (717) 656-2300
22:25:15 D 0001 9 127551 566374
232 0.00 00029430 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





For Lancaster Laboratories use only
Acct. # 8863 Sample # 2715816-24

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

1 Client: Norman Ocean Acct. #: _____

Project Name/ #: Ward Phase II 17029.002 PWSID #: _____

Project Manager: Al Larson P.O. #: _____

Sampler: Stephen E. Lee Quote #: 127551

Name of state where samples were collected: New York

2

Sample Identification	Date Collected	Time Collected	Grain	Composite	Soil	Water	Bottom	Total	3										Remarks
									NO ₃ , NO ₂	NH ₃	VOCs 8240	Fe, Mn	Ca, Pb, Ni, Zn	CN	SO ₄	Cr 6+			
WP-MW3-220597	5/22/97	1053	X			X		9	X	X	X	X	X	X	X	X	Please Measure Conductivity		
WP-SW2-220597		1145	X			X		6			X		X	X		X			
WP-MW2-220597		1245	X			X		9	X	X	X	X	X	X	X	X			
WP-DP-220597		1305	X			X		9	X	X	X	X	X	X	X	X			
WP-MW4-220597		1420	X			X		9	X	X	X	X	X	X	X	X			
WP-FB-220597		1515	X			X		8	X	X	X	X	X	X	X	X			
WP-MW1-220597		1550	X			X		9	X	X	X	X	X	X	X	X			
WP-SW1-220597			X			X		6			X		X	X		X			

4

5

6

For lab use only
FSC: _____
SCR #: 1092920

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 #: _____ Fax #: _____

Relinquished by:

Date

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

Relinquished by:

Date

Time

Received by:

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

Type III (NJ Red. Del.)

Type IV (CLP)

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

Internal Chain of Custody required? Yes No

Harlan Collins 5-23-97 0900



LLI Sample No. WW **2715823**
 Collected: 5/22/97 by SEL

Submitted: 5/23/97 Reported: 6/11/97
 Discard: 6/19/97

WP-SW1-220597 Grab Water Sample
 Project# 17029.002
 Ward Phase II, NY

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

P.O. 17029.002
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	LIMIT OF QUANTITATION	
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	< 0.010	0.010	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	< 0.050	0.050	mg/l
1772	Zinc	< 0.025	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l
	The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 110% and 84%. The acceptance window for this analysis is 85% to 115%. The blank and LCS/LCSD analyzed with the sample were within specifications.			
0280	Specific Conductance	561.	5.0	umhos/cm

1 COPY TO Normandeau Associates

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative
 Lisa M. Hetrick at (717) 656-2300
 22:26:01 D 0001 9 127551 566374
 232 0.00 00024130 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. WW 2715823
Collected: 5/22/97 by SEL

Submitted: 5/23/97 Reported: 6/11/97
Discard: 6/19/97

WP-SW1-220597 Grab Water Sample
Project# 17029.002
Ward Phase II, NY

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

P.O. 17029.002
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 5.	5.	ug/l
1257	Bromomethane	< 5.	5.	ug/l
3492	Vinyl Chloride	< 5.	5.	ug/l
3494	Chloroethane	< 5.	5.	ug/l
3495	Acrolein	< 100.	100.	ug/l
3496	Acrylonitrile	< 50.	50.	ug/l
3497	Methylene Chloride	< 5.	5.	ug/l
1264	Trichlorofluoromethane	< 5.	5.	ug/l
3500	1,1-Dichloroethene	< 5.	5.	ug/l
3501	1,1-Dichloroethane	< 5.	5.	ug/l
3503	Chloroform	< 5.	5.	ug/l
3504	1,2-Dichloroethane	< 5.	5.	ug/l
3505	1,1,1-Trichloroethane	< 5.	5.	ug/l
3506	Carbon Tetrachloride	< 5.	5.	ug/l
3508	Bromodichloromethane	< 5.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/l
3509	1,2-Dichloropropane	< 5.	5.	ug/l
3510	trans-1,3-Dichloropropene	< 5.	5.	ug/l
3511	Trichloroethene	< 5.	5.	ug/l
3512	Dibromochloromethane	< 5.	5.	ug/l
3513	1,1,2-Trichloroethane	< 5.	5.	ug/l
3515	Benzene	< 5.	5.	ug/l
3516	cis-1,3-Dichloropropene	< 5.	5.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/l
3518	Bromoform	< 5.	5.	ug/l
3522	Tetrachloroethene	< 5.	5.	ug/l
3524	Toluene	< 5.	5.	ug/l
3525	Chlorobenzene	< 5.	5.	ug/l
3526	Ethylbenzene	< 5.	5.	ug/l
3529	Xylene (total)	< 5.	5.	ug/l
5780	trans-1,2-Dichloroethene	< 5.	5.	ug/l
6268	cis-1,2-Dichloroethene	< 5.	5.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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





LLI Sample No. WW **2715823**
 Collected: 05/22/97 by SEL
 Submitted: 05/23/97

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

WP-SW1-220597 Grab Water Sample
 Project# 17029.002
 Ward Phase II, NY
 WPSW1 SDG#:

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1508	PPL + Xylene (total) by 8240	SW-846 8240B	1	06/04/97 0131	L. Alberto Rodriguez
1749	Cadmium	SW-846 6010A	1	05/28/97 2038	Tara L. Linville
1755	Lead	SW-846 6010A	1	05/28/97 2038	Tara L. Linville
1761	Nickel	SW-846 6010A	1	05/28/97 2038	Tara L. Linville
1772	Zinc	SW-846 6010A	1	05/28/97 2038	Tara L. Linville
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/28/97 1030	Jay L. Stauffer, Jr.
0237	Total Cyanide (water)	SW-846 9012	1	05/27/97 1331	John W. Ballard, Jr.
0492	Cyanide Water Distillation	SW-846 9012	1	05/27/97 0900	Jacquelyn M. Raia
0276	Hexavalent Chromium	SW-846 7196A	1	05/23/97 1220	Tonya M. Beck
0280	Specific Conductance	EPA 120.1	1	05/28/97 0550	Daniel S. Smith





LLI Sample No. 2715823

WP-SW1-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

Group No. 566374
Normandeau Associates

SAMPLE LOQ	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1508 PPL + Xylene (total) by 8240			Batch: D971531AB								
1258 Chloromethane											
5. ug/l		< 5. ug/l		86	81	6	83	83	1	1	272
1257 Bromomethane											
5. ug/l		< 5. ug/l		96	91	6	92	94	2	1	241
3492 Vinyl Chloride											
5. ug/l		< 5. ug/l		100	100	0	100	102	2	1	250
3494 Chloroethane											
5. ug/l		< 5. ug/l		93	81	13	86	87	1	1	254
3495 Acrolein											
100. ug/l		< 100. ug/l		87	106	20	106	96	10	25	166
3496 Acrylonitrile											
50. ug/l		< 50. ug/l		88	106	19	112	108	3	51	138
3497 Methylene Chloride											
5. ug/l		< 5. ug/l		112	110	2	114	107	6	1	221
1264 Trichlorofluoromethane											
5. ug/l		< 5. ug/l		100	98	2	101	104	3	17	181
3500 1,1-Dichloroethene											
5. ug/l		< 5. ug/l		105	103	2	104	102	2	1	233
3501 1,1-Dichloroethane											
5. ug/l		< 5. ug/l		98	95	3	97	96	2	59	155
3503 Chloroform											
5. ug/l		< 5. ug/l		99	94	5	99	100	1	51	138
3504 1,2-Dichloroethane											
5. ug/l		< 5. ug/l		90	91	1	97	96	1	49	155
3505 1,1,1-Trichloroethane											
5. ug/l		< 5. ug/l		94	97	3	101	100	1	52	162
3506 Carbon Tetrachloride											
5. ug/l		< 5. ug/l		86	89	4	94	90	4	70	140
3508 Bromodichloromethane											
5. ug/l		< 5. ug/l		90	91	2	95	93	2	35	155
3523 1,1,2,2-Tetrachloroethane											
5. ug/l		< 5. ug/l		99	111	11	113	110	3	46	157
3509 1,2-Dichloropropane											
5. ug/l		< 5. ug/l		98	99	1	102	99	4	1	209
3510 trans-1,3-Dichloropropene											
5. ug/l		< 5. ug/l		87	97	10	93	93	0	17	183
3511 Trichloroethene											
5. ug/l		< 5. ug/l		97	98	1	105	99	5	71	157
3512 Dibromochloromethane											
5. ug/l		< 5. ug/l		87	97	11	99	95	3	53	149
3513 1,1,2-Trichloroethane											
5. ug/l		< 5. ug/l		98	106	8	108	102	5	52	150
3515 Benzene											
5. ug/l		< 5. ug/l		109	103	5	105	102	3	37	151
3516 cis-1,3-Dichloropropene											
5. ug/l		< 5. ug/l		93	98	6	101	98	3	1	226





LLI Sample No. 2715823

WP-SW1-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

Group No. 566374
Normandeau Associates

SAMPLE LOQ	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
3645	2-Chloroethyl Vinyl Ether										
10.	ug/l	< 10.		82	102	22	101	98	4	2	303
3518	Bromoform										
5.	ug/l	< 5.		81	95	15	97	92	6	45	169
3522	Tetrachloroethene										
5.	ug/l	< 5.		100	97	3	110	96	13	64	148
3524	Toluene										
5.	ug/l	< 5.		251	107 (2)	16	109	104	4	47	150
3525	Chlorobenzene										
5.	ug/l	< 5.		105	103	3	110	104	6	37	160
3526	Ethylbenzene										
5.	ug/l	< 5.		126	107	9	113	105	8	37	162
3529	Xylene (total)										
5.	ug/l	< 5.		134	102	12	109	104	5	61	165
5780	trans-1,2-Dichloroethene										
5.	ug/l	< 5.		106	97	8	101	100	2	54	156
6268	cis-1,2-Dichloroethene										
5.	ug/l	< 5.		109	102	6	107	104	2	54	156
1749	Cadmium	Batch: 971481848003									
0.010	mg/l	< 0.010 mg/l	0 (1)	98	95	3	97			80	120
1755	Lead	Batch: 971481848003									
0.10	mg/l	< 0.10 mg/l	0 (1)	101	101	0	100			80	120
1761	Nickel	Batch: 971481848003									
0.050	mg/l	< 0.050 mg/l	0 (1)	100	100	0	100			80	120
1772	Zinc	Batch: 971481848003									
0.025	mg/l	< 0.025 mg/l	0 (1)	98	95	3	102			80	120
0237	Total Cyanide (water)	Batch: 97147102101B									
0.0050	mg/l	< 0.0050 mg/l	0 (1)	90			94	93	0	90	110
0276	Hexavalent Chromium	Batch: 971430609027600A									
0.010	mg/l	< 0.010 mg/l	2	110	84	19	99	102	3	90	108
0280	Specific Conductance	Batch: 971480237028000A									
5.0	umhos/cm	< 5.0 umhos/cm	1				103	103	1	89	116

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

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





QUALITY CONTROL REPORT

Page: 6 of 6

LLI Sample No. 2715823
WP-SW1-220597 Grab Water Sample
Project# 17029.002
Ward Phase II, NY

Group No. 566374
Normandeau Associates

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
1508 PPL + Xylene (total) by 8240	d4-1,2-DCA	101	76	114
	d8-toluene	98	88	110
	4-BFB	95	86	115



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. WW 2715817

Collected: 5/22/97 at 11:45 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-SW2-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	LIMIT OF QUANTITATION	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	< 0.010	0.010	mg/l
1755	Lead	< 0.10	0.10	mg/l
1761	Nickel	< 0.050	0.050	mg/l
1772	Zinc	< 0.025	0.025	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0276	Hexavalent Chromium	< 0.010	0.010	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 110% and 84%. The acceptance window for this analysis is 85% to 115%. The blank and LCS/LCSD analyzed with the sample were within specifications. This sample was submitted past the 24 hour holding time for hexavalent chromium.				
0280	Specific Conductance	201.	5.0	umhos/cm

1 COPY TO Normandeau Associates

ATTN: Mr. Al Larson

Questions? Contact your Client Services Representative
Lisa M. Hetrick at (717) 656-2300
22:23:36 D 0001 9 127551 566374
232 0.00 00024130 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. WW 2715817

Collected: 5/22/97 at 11:45 by SEL

Submitted: 5/23/97 Reported: 6/11/97

Discard: 6/19/97

WP-SW2-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

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

P.O. 17029.002

Rel.

AS RECEIVED

LIMIT OF
QUANTITATION

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
------------	---------------	---------	--------------------------	-------

PPL + Xylene (total) by 8240

1258	Chloromethane	< 5.	5.	ug/l
1257	Bromomethane	< 5.	5.	ug/l
3492	Vinyl Chloride	< 5.	5.	ug/l
3494	Chloroethane	< 5.	5.	ug/l
3495	Acrolein	< 100.	100.	ug/l
3496	Acrylonitrile	< 50.	50.	ug/l
3497	Methylene Chloride	< 5.	5.	ug/l
1264	Trichlorofluoromethane	< 5.	5.	ug/l
3500	1,1-Dichloroethene	< 5.	5.	ug/l
3501	1,1-Dichloroethane	< 5.	5.	ug/l
3503	Chloroform	< 5.	5.	ug/l
3504	1,2-Dichloroethane	< 5.	5.	ug/l
3505	1,1,1-Trichloroethane	< 5.	5.	ug/l
3506	Carbon Tetrachloride	< 5.	5.	ug/l
3508	Bromodichloromethane	< 5.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/l
3509	1,2-Dichloropropane	< 5.	5.	ug/l
3510	trans-1,3-Dichloropropene	< 5.	5.	ug/l
3511	Trichloroethene	< 5.	5.	ug/l
3512	Dibromochloromethane	< 5.	5.	ug/l
3513	1,1,2-Trichloroethane	< 5.	5.	ug/l
3515	Benzene	< 5.	5.	ug/l
3516	cis-1,3-Dichloropropene	< 5.	5.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/l
3518	Bromoform	< 5.	5.	ug/l
3522	Tetrachloroethene	< 5.	5.	ug/l
3524	Toluene	< 5.	5.	ug/l
3525	Chlorobenzene	< 5.	5.	ug/l
3526	Ethylbenzene	< 5.	5.	ug/l
3529	Xylene (total)	< 5.	5.	ug/l
5780	trans-1,2-Dichloroethene	< 5.	5.	ug/l
6268	cis-1,2-Dichloroethene	< 5.	5.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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





LLI Sample No. WW 2715817

Collected: 05/22/97 at 11:45 by SEL

Submitted: 05/23/97

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

WP-SW2-220597 Grab Water Sample
Project# 17029.002
Ward Phase II, NY
WPSW2 SDG#:

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1508	PPL + Xylene (total) by 8240	SW-846 8240B	1	06/02/97 1826	Roy R. Mellott, Jr.
1749	Cadmium	SW-846 6010A	1	05/28/97 2002	Tara L. Linville
1755	Lead	SW-846 6010A	1	05/28/97 2002	Tara L. Linville
1761	Nickel	SW-846 6010A	1	05/28/97 2002	Tara L. Linville
1772	Zinc	SW-846 6010A	1	05/28/97 2002	Tara L. Linville
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	05/28/97 1030	Jay L. Stauffer, Jr.
0237	Total Cyanide (water)	SW-846 9012	1	05/27/97 1322	John W. Ballard, Jr.
0492	Cyanide Water Distillation	SW-846 9012	1	05/27/97 0900	Jacquelyn M. Raia
0276	Hexavalent Chromium	SW-846 7196A	1	05/23/97 1220	Tonya M. Beck
0280	Specific Conductance	EPA 120.1	1	05/28/97 0550	Daniel S. Smith





QUALITY CONTROL REPORT

Page: 4 of 6

LLI Sample No. 2715817

WP-SW2-220597 Grab Water Sample
Project# 17029.002
Ward Phase II, NY

Group No. 566374
Normandeau Associates

SAMPLE LOQ	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW HIGH
1508 PPL + Xylene (total) by 8240		Batch: D971521AC								
1258	Chloromethane									
5.	ug/l	< 5.	ug/l	88	87	0				
1257	Bromomethane									
5.	ug/l	< 5.	ug/l	91	91	0				
3492	Vinyl Chloride									
5.	ug/l	< 5.	ug/l	97	97	0				
3494	Chloroethane									
5.	ug/l	< 5.	ug/l	83	79	4				
3495	Acrolein									
100.	ug/l	< 100.	ug/l	97	106	8				
3496	Acrylonitrile									
50.	ug/l	< 50.	ug/l	100	109	9				
3497	Methylene Chloride									
5.	ug/l	< 5.	ug/l	106	103	3				
1264	Trichlorofluoromethane									
5.	ug/l	< 5.	ug/l	108	107	0				
3500	1,1-Dichloroethene									
5.	ug/l	< 5.	ug/l	114	110	3				
3501	1,1-Dichloroethane									
5.	ug/l	< 5.	ug/l	108	106	2				
3503	Chloroform									
5.	ug/l	< 5.	ug/l	110	109	1				
3504	1,2-Dichloroethane									
5.	ug/l	< 5.	ug/l	107	109	2				
3505	1,1,1-Trichloroethane									
5.	ug/l	< 5.	ug/l	116	114	2				
3506	Carbon Tetrachloride									
5.	ug/l	< 5.	ug/l	106	106	0				
3508	Bromodichloromethane									
5.	ug/l	< 5.	ug/l	106	107	1				
3523	1,1,2,2-Tetrachloroethane									
5.	ug/l	< 5.	ug/l	106	114	8				
3509	1,2-Dichloropropane									
5.	ug/l	< 5.	ug/l	105	107	2				
3510	trans-1,3-Dichloropropene									
5.	ug/l	< 5.	ug/l	101	99	2				
3511	Trichloroethene									
5.	ug/l	< 5.	ug/l	109	111	1				
3512	Dibromochloromethane									
5.	ug/l	< 5.	ug/l	103	107	3				
3513	1,1,2-Trichloroethane									
5.	ug/l	< 5.	ug/l	106	113	6				
3515	Benzene									
5.	ug/l	< 5.	ug/l	111	108	3				
3516	cis-1,3-Dichloropropene									
5.	ug/l	< 5.	ug/l	104	107	3				



Lancaster Laboratories
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See reverse side for explanation of symbols and abbreviations.

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LLI Sample No. 2715817

WP-SW2-220597 Grab Water Sample

Project# 17029.002

Ward Phase II, NY

Group No. 566374
Normandeau Associates

SAMPLE LOQ	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
3645 2-Chloroethyl Vinyl Ether											
10. ug/l		< 10. ug/l		68	67	1					
3518 Bromoform											
5. ug/l		< 5. ug/l		95	103	8					
3522 Tetrachloroethene											
5. ug/l		< 5. ug/l		105	105	0					
3524 Toluene											
5. ug/l		< 5. ug/l		111	112	1					
3525 Chlorobenzene											
5. ug/l		< 5. ug/l		111	111	0					
3526 Ethylbenzene											
5. ug/l		< 5. ug/l		115	114	1					
3529 Xylene (total)											
5. ug/l		< 5. ug/l		112	110	2					
5780 trans-1,2-Dichloroethene											
5. ug/l		< 5. ug/l		109	108	2					
6268 cis-1,2-Dichloroethene											
5. ug/l		< 5. ug/l		111	112	1					
1749 Cadmium		Batch: 971481848003									
0.010 mg/l		< 0.010 mg/l	0 (1)	98	95	3	97			80	120
1755 Lead		Batch: 971481848003									
0.10 mg/l		< 0.10 mg/l	0 (1)	101	101	0	100			80	120
1761 Nickel		Batch: 971481848003									
0.050 mg/l		< 0.050 mg/l	0 (1)	100	100	0	100			80	120
1772 Zinc		Batch: 971481848003									
0.025 mg/l		< 0.025 mg/l	0 (1)	98	95	3	102			80	120
0237 Total Cyanide (water)		Batch: 97147102101A									
0.0050 mg/l		< 0.0050 mg/l	0 (1)	77	98	23	94	93	0	90	110
0276 Hexavalent Chromium		Batch: 971430609027600A									
0.010 mg/l		< 0.010 mg/l	2	110	84	19	99	102	3	90	108
0280 Specific Conductance		Batch: 971480237028000A									
5.0 umhos/cm		< 5.0 umhos/cm	1				103	103	1	89	116

(1) The result for one or both determinations was less than five times the LOQ.



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717-656-2300 Fax: 717-656-2681

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LLI Sample No. 2715817
 WP-SW2-220597 Grab Water Sample
 Project# 17029.002
 Ward Phase II, NY

Group No. 566374
 Normandeau Associates

		SURROGATE SUMMARY		SURROGATE LIMITS	
		TRIAL ID	SURROGATE	RECOVERY %	
					LOW HIGH
1508 PPL + Xylene (total) by 8240			d4-1,2-DCA	103	76 114
			d8-toluene	97	88 110
			4-BFB	95	86 115



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For Lancaster Laboratories use only
Acct. # 8863 Sample # 2715816-24

For lab use only

FSC: _____
SCR #: 1097920

Client: Norman Ocean Acct. #: _____
Project Name/#: Ward Phase II 17029.002 PWSID #: _____
Project Manager: Al Larson P.O.# _____
Sampler: Stephen E. Lee Quote #: 127551
Name of state where samples were collected: New York

[illegible]

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?
Yes No

QC Summary Type VI (Raw Data)

Type I (Tier I)	GLP
-----------------	-----

Type II (Tier II)	Other
-------------------	-------

Type III (NJ Red. Del.)

Type IV (CLP)

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

Internal Chain of Custody required? Yes No

Relinquished by:

M. Hufferd

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Date	Time
------	------

5/14/93 1020

Date	Time
------	------

Date	Time
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Date	Time
------	------

Date	Time
------	------

Received by:

W. L. Larson

Received by:

Received by:

Received by:

Received by:

Date	Time
------	------

4/5/80

Date	Time
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Date	Time
------	------

Date	Time
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Date	Time
------	------

Harley Collins 52397 0900

SEPTEMBER 1997



LLI Sample No. WW 2774794

Collected: 9/ 5/97 at 14:15 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMW1-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1415- SDG#: WRD05-06

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

P.O.
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METHOD

CAT NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS	
1508	PPL + Xylene (total) by 8240			See Page	2
1749	Cadmium	N.D.	0.0031	mg/l	
1751	Chromium	19.0	0.0066	mg/l	
1754	Iron	0.33	0.015	mg/l	
1755	Lead	N.D.	0.021	mg/l	
1758	Manganese	0.033	0.0031	mg/l	
1761	Nickel	N.D.	0.0078	mg/l	
1772	Zinc	N.D.	0.0090	mg/l	
0173	PCBs in Water			See Page	3
0219	Nitrite Nitrogen	0.021	0.015	mg/l	
0220	Nitrate Nitrogen	1.16	0.030	mg/l	
0222	Ammonia Nitrogen	0.090	0.040	mg/l	
0237	Total Cyanide (water)	0.0573	0.0040	mg/l	
0206	Total Suspended Solids	14.0	3.4	mg/l	
0279	Turbidity	79.0	0.12	N T U	
	This sample was analyzed past the 48 hour hold time for turbidity.				
1125	Sulfate (turbidimetric)	81.9	0.30	mg/l	
	The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%.				
	The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	19.8	0.40	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
 19:07:04 D 0002 9 REP 580979
 288 30.00 00067700 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

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Page: 2 of 8

LLI Sample No. WW 2774794

Collected: 9/ 5/97 at 14:15 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMM1-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1415- SDG#: WRD05-06

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

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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	N.D.	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	N.D.	1.	ug/l
3501	1,1-Dichloroethane	N.D.	2.	ug/l
3503	Chloroform	7.	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	30.	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	670.	3.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	3.	J 1.	ug/l
3524	Toluene	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	45.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. WW 2774794

Collected: 9/ 5/97 at 14:15 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMM1-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1415- SDG#: WRD05-06

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

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CAT
NO. ANALYSIS NAME

METHOD
RESULTS DETECTION LIMIT UNITS

PCBs in Water

0639	PCB-1016	N.D.	0.043	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.048	ug/l
0642	PCB-1242	N.D.	0.10	ug/l
0643	PCB-1248	N.D.	0.038	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	N.D.	0.036	ug/l

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



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
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Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





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Page: 1 of 8

LLI Sample No. WW 2774796

Collected: 9/ 5/97 at 12:55 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMM2-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1255- SDG#: WRD05-08

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

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CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	0.306	0.0066	mg/l
1754	Iron	1.10	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.046	0.0031	mg/l
1761	Nickel	N.D.	0.0078	mg/l
1772	Zinc	N.D.	0.0090	mg/l
0173	PCBs in Water			See Page 3
0219	Nitrite Nitrogen	0.020 J	0.015	mg/l
0220	Nitrate Nitrogen	N.D.	0.030	mg/l
0222	Ammonia Nitrogen	0.053	0.040	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	54.0	3.4	mg/l
0279	Turbidity	43.2	0.12	N T U
	This sample was analyzed past the 48 hour hold time for turbidity.			
1125	Sulfate (turbidimetric)	58.8	0.15	mg/l
	The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%. The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.			
1446	Hexavalent Chromium	0.166	0.00040	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
19:09:16 D 0002 9 REP 580979
288 30.00 00067700 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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96



LLI Sample No. WW 2774796

Collected: 9/ 5/97 at 12:55 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMM2-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1255- SDG#: WRD05-08

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

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Rel.

AS RECEIVED

METHOD

CAT NO.	ANALYSIS NAME	RESULTS	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	N.D.	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	N.D.	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	N.D.	1.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	N.D.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





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Page: 3 of 8

LLI Sample No. WW 2774796

Collected: 9/ 5/97 at 12:55 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMW2-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1255- SDG#: WRD05-08

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

P.O.
Rel.

AS RECEIVED

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

PCBs in Water

0639	PCB-1016	N.D.	0.043	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.048	ug/l
0642	PCB-1242	N.D.	0.10	ug/l
0643	PCB-1248	N.D.	0.038	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	N.D.	0.036	ug/l

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

See reverse side for explanation of symbols and abbreviations

2216 Rev. 5/01/96





LLI Sample No. WW 2774797

Collected: 9/ 5/97 at 16:15 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GW3-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1615- SDG#: WRD05-09

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1755	Lead	N.D.	0.021	mg/l
1761	Nickel	N.D.	0.0078	mg/l
1772	Zinc	N.D.	0.0090	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	27.6	3.4	mg/l
0279	Turbidity	15.9	0.12	N T U
	This sample was analyzed past the 48 hour hold time for turbidity.			
1446	Hexavalent Chromium	0.00380J	0.00040	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
19:10:31 D 0002 9 REP 580979
288 30.00 00046000 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.

2216 Rev. 5/01/96





LLI Sample No. WW 2774797

Collected: 9/ 5/97 at 16:15 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMW3-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1615- SDG#: WRD05-09

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

P.O.
 Ref.

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	N.D.	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	N.D.	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	N.D.	1.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	N.D.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. WW 2774798

Collected: 9/ 5/97 at 15:40 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMM4-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1540- SDG#: WRD05-10

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

P.O.
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	0.078	0.0066	mg/l
1754	Iron	0.50	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.016	0.0031	mg/l
1761	Nickel	N.D.	0.0078	mg/l
1772	Zinc	N.D.	0.0090	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
	The analysis for nitrite nitrogen was initially performed within the 48 hour hold time. However, the continuing calibration standard was out of specifications and the analysis was repeated 2 days past hold time. The result of the second trial is presented above; however, there was no significant difference between the two trials (the result of the first trial was .01360mg/l).			
0220	Nitrate Nitrogen	0.39	0.030	mg/l
0222	Ammonia Nitrogen	0.045 J	0.040	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	8.8 J	3.4	mg/l
0279	Turbidity	9.92	0.12	N T U
	This sample was analyzed past the 48 hour hold time for turbidity.			
1125	Sulfate (turbidimetric)	12.1	0.076	mg/l
	The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%. The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.			
1446	Hexavalent Chromium	0.0817	0.00040	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
 19:11:39 D 0002 9 REP 580979
 288 30.00 00056200 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. WW 2774798

Collected: 9/ 5/97 at 15:40 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GM44-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

1540- SDG#: WRD05-10

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

P.O.
 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	N.D.	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	N.D.	1.	ug/l
3501	1,1-Dichloroethane	N.D.	2.	ug/l
3503	Chloroform	1.	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	330.	2.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	N.D.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations

2216 Rev. 5/01/96



LLI Sample No. WW 2773814

Collected: 9/ 4/97 at 18:00 by AL

Submitted: 9/ 5/97 Reported: 10/ 2/97

Discard: 10/10/97

WP-GMM4R-090497 Grab Water Sample

Ward 17092.002

MGM4 SDG#: WRD05-04

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

P.O. 17092.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS	
		RESULTS	LIMIT OF QUANTITATION		
1508	PPL + Xylene (total) by 8240			See Page	2
1749	Cadmium	< 0.010	0.010	mg/l	
1751	Chromium	< 0.030	0.030	mg/l	
1754	Iron	0.95	0.10	mg/l	
1755	Lead	< 0.10	0.10	mg/l	
1758	Manganese	0.074	0.010	mg/l	
1761	Nickel	< 0.050	0.050	mg/l	
1772	Zinc	< 0.025	0.025	mg/l	
0219	Nitrite Nitrogen	< 0.020	0.020	mg/l	
0220	Nitrate Nitrogen	0.61	0.10	mg/l	
0222	Ammonia Nitrogen	< 0.050	0.050	mg/l	
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l	
0206	Total Suspended Solids	< 9.0	9.0	mg/l	
0279	Turbidity	50.1	0.50	N T U	
1125	Sulfate (turbidimetric)	46.4	4.0	mg/l	
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%. The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.					
1446	Hexavalent Chromium	0.0155	0.0050	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
04:43:12 D 0002 5 580736
952 30.00 00056200 ASR000



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

Respectfully Submitted
Erik Frederiksen, BA
Group Leader, Water Quality



LLI Sample No. WW 2773814

Collected: 9/ 4/97 at 18:00 by AL

Submitted: 9/ 5/97 Reported: 10/ 2/97

Discard: 10/10/97

WP-GMM4R-090497 Grab Water Sample

Ward 17092.002

MGMM4 SDG#: WRD05-04

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

 P.O. 17092.002
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 500.	500.	ug/l
1257	Bromomethane	< 500.	500.	ug/l
3492	Vinyl Chloride	< 500.	500.	ug/l
3494	Chloroethane	< 500.	500.	ug/l
3495	Acrolein	< 10,000.	10,000.	ug/l
3496	Acrylonitrile	< 5,000.	5,000.	ug/l
3497	Methylene Chloride	< 500.	500.	ug/l
1264	Trichlorofluoromethane	< 500.	500.	ug/l
3500	1,1-Dichloroethene	< 500.	500.	ug/l
3501	1,1-Dichloroethane	< 500.	500.	ug/l
3503	Chloroform	< 500.	500.	ug/l
3504	1,2-Dichloroethane	< 500.	500.	ug/l
3505	1,1,1-Trichloroethane	< 500.	500.	ug/l
3506	Carbon Tetrachloride	< 500.	500.	ug/l
3508	Bromodichloromethane	< 500.	500.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 500.	500.	ug/l
3509	1,2-Dichloropropane	< 500.	500.	ug/l
3510	trans-1,3-Dichloropropene	< 500.	500.	ug/l
3511	Trichloroethene	140,000.	2,500.	ug/l
3512	Dibromochloromethane	< 500.	500.	ug/l
3513	1,1,2-Trichloroethane	< 500.	500.	ug/l
3515	Benzene	< 500.	500.	ug/l
3516	cis-1,3-Dichloropropene	< 500.	500.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 1,000.	1,000.	ug/l
3518	Bromoform	< 500.	500.	ug/l
3522	Tetrachloroethene	1,000.	500.	ug/l
3524	Toluene	< 500.	500.	ug/l
3525	Chlorobenzene	< 500.	500.	ug/l
3526	Ethylbenzene	< 500.	500.	ug/l
3529	Xylene (total)	< 500.	500.	ug/l
5780	trans-1,2-Dichloroethene	< 500.	500.	ug/l
6268	cis-1,2-Dichloroethene	< 500.	500.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. WW 2774799

Collected: 9/ 5/97 at 15:10 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMM5-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

GMM5 SDG#: WRD05-10

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1508	PPL + Xylene (total) by 8240		See Page 2
1749	Cadmium	N.D.	0.0031 mg/l
1751	Chromium	N.D.	0.0066 mg/l
1754	Iron	0.22	0.015 mg/l
1755	Lead	N.D.	0.021 mg/l
1758	Manganese	0.011	0.0031 mg/l
1761	Nickel	N.D.	0.0078 mg/l
1772	Zinc	0.0101 J	0.0090 mg/l
0219	Nitrite Nitrogen	N.D.	0.015 mg/l
	The analysis for nitrite nitrogen was initially performed within the 48 hour hold time. However, the continuing calibration standard was out of specifications and the analysis was repeated 2 days past hold time. The result of the second trial is presented above; however, there was no significant difference between the two trials (the result of the first trial was .00820mg/l).		
0220	Nitrate Nitrogen	N.D.	0.030 mg/l
0222	Ammonia Nitrogen	N.D.	0.040 mg/l
0237	Total Cyanide (water)	N.D.	0.0040 mg/l
0206	Total Suspended Solids	7.2 J	3.4 mg/l
0279	Turbidity	6.29	0.12 N T U
	This sample was analyzed past the 48 hour hold time for turbidity.		
1125	Sulfate (turbidimetric)	20.5	0.076 mg/l
	The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%. The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.		
1446	Hexavalent Chromium	0.0065	0.00040 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
19:12:50 D 0002 9 REP 580979
288 30.00 00056200 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 6

LLI Sample No. WW 2774799

Collected: 9/ 5/97 at 15:10 by AL

Submitted: 9/ 6/97 Reported: 11/12/97

Discard: 11/20/97

WP-GMM5-090597 Grab Water Sample

Project# 17092.002

Ward Products, NY

GMM5 SDG#: WRD05-10

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

P.O.
Ref.

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	7.	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	2. J	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	6.	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	160.	1.		ug/l
3512	Dibromochloromethane	N.D.	2.		ug/l
3513	1,1,2-Trichloroethane	N.D.	2.		ug/l
3515	Benzene	N.D.	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	N.D.	2.		ug/l
3525	Chlorobenzene	N.D.	1.		ug/l
3526	Ethylbenzene	N.D.	2.		ug/l
3529	Xylene (total)	N.D.	1.		ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.		ug/l
6268	cis-1,2-Dichloroethene	72.	2.		ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. WW 2774800

Collected: 9/ 5/97 at 16:15 by AL

Submitted: 9/ 6/97 Reported: 11/ 3/97

Discard: 11/11/97

WP-GMM5-090597 Matrix Spike Grab Water Sample

Project# 17092.002

Ward Products, NY

1510- SDG#: WRD05-10MS

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

P.O.
 Ref.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1508	PPL + Xylene (total) by 8240		See Page 2
1749	Cadmium	0.048	0.0031 mg/l
1751	Chromium	0.208	0.0066 mg/l
1754	Iron	1.66	0.015 mg/l
1755	Lead	0.52	0.021 mg/l
1758	Manganese	0.534	0.0031 mg/l
1761	Nickel	0.498	0.0078 mg/l
1772	Zinc	0.508	0.0090 mg/l
0219	Nitrite Nitrogen	0.198	0.015 mg/l
	The analysis for nitrite nitrogen was initially performed within the 48 hour hold time. However, the continuing calibration standard was out of specifications and the analysis was repeated 2 days past hold time. The result of the second trial is presented above; however, there was no significant difference between the two trials (the result of the first trial was .20550mg/l).		
0220	Nitrate Nitrogen	1.77	0.030 mg/l
0222	Ammonia Nitrogen	0.876	0.040 mg/l
0237	Total Cyanide (water)	0.209	0.0040 mg/l
1125	Sulfate (turbidimetric)	280.	0.76 mg/l
	The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%. The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.		
1446	Hexavalent Chromium	0.0240	0.00040 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
 19:09:47 D 0002 9 580979
 220 30.00 00053100 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.

2216 Rev. 5/01/96





LLI Sample No. WW 2774800

Collected: 9/ 5/97 at 16:15 by AL

Submitted: 9/ 6/97 Reported: 11/ 3/97

Discard: 11/11/97

WP-GMM-5-090597 Matrix Spike Grab Water Sample

Project# 17092.002

Ward Products, NY

1510- SDG#: WRD05-10MS

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

P.O.

Ref.

AS RECEIVED

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

1258	Chloromethane	21.	3.	ug/l
1257	Bromomethane	13.	3.	ug/l
3492	Vinyl Chloride	19.	2.	ug/l
3494	Chloroethane	15.	3.	ug/l
3495	Acrolein	190.	40.	ug/l
3496	Acrylonitrile	150.	10.	ug/l
3497	Methylene Chloride	21.	2.	ug/l
1264	Trichlorofluoromethane	25.	2.	ug/l
3500	1,1-Dichloroethene	21.	1.	ug/l
3501	1,1-Dichloroethane	20.	2.	ug/l
3503	Chloroform	20.	1.	ug/l
3504	1,2-Dichloroethane	19.	2.	ug/l
3505	1,1,1-Trichloroethane	21.	1.	ug/l
3506	Carbon Tetrachloride	20.	1.	ug/l
3508	Bromodichloromethane	19.	1.	ug/l
3523	1,1,2,2-Tetrachloroethane	18.	2.	ug/l
3509	1,2-Dichloropropane	20.	1.	ug/l
3510	trans-1,3-Dichloropropene	19.	1.	ug/l
3511	Trichloroethene	58.	1.	ug/l
3512	Dibromochloromethane	19.	2.	ug/l
3513	1,1,2-Trichloroethane	19.	2.	ug/l
3515	Benzene	20.	1.	ug/l
3516	cis-1,3-Dichloropropene	19.	1.	ug/l
3645	2-Chloroethyl Vinyl Ether	3.	J 2.	ug/l
3518	Bromoform	19.	1.	ug/l
3522	Tetrachloroethene	21.	1.	ug/l
3524	Toluene	20.	2.	ug/l
3525	Chlorobenzene	20.	1.	ug/l
3526	Ethylbenzene	21.	2.	ug/l
3529	Xylene (total)	63.	1.	ug/l
5780	trans-1,2-Dichloroethene	20.	2.	ug/l
6268	cis-1,2-Dichloroethene	22.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

Questions? Contact your Client Services Representative
Lisa M. Metrick 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



LLI Sample No. WW 2774801

Collected: 9/ 5/97 at 16:20 by AL

Submitted: 9/ 6/97 Reported: 11/ 3/97

Discard: 11/11/97

WP-GMM5-090597 Matrix Spike Duplicate Grab Water

Sample Project# 17092.002

Ward Products, NY

1510- SDG#: WRD05-10MSD

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	0.048	0.0031	mg/l
1751	Chromium	0.207	0.0066	mg/l
1754	Iron	1.44	0.015	mg/l
1755	Lead	0.53	0.021	mg/l
1758	Manganese	0.531	0.0031	mg/l
1761	Nickel	0.498	0.0078	mg/l
1772	Zinc	0.504	0.0090	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
19:10:24 D 0002 9 580979
220 15.00 00037300 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 2774801

Collected: 9/ 5/97 at 16:20 by AL

Submitted: 9/ 6/97 Reported: 11/ 3/97

Discard: 11/11/97

WP-GMW5-090597 Matrix Spike Duplicate Grab Water

Sample Project# 17092.002

Ward Products, NY

1510- SDG#: WRD05-10MSD

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

P.O.
 Rel.

AS RECEIVED

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

PPL + Xylene (total) by 8240

1258	Chloromethane	19.	3.	ug/l
1257	Bromomethane	13.	3.	ug/l
3492	Vinyl Chloride	16.	2.	ug/l
3494	Chloroethane	11.	3.	ug/l
3495	Acrolein	200.	40.	ug/l
3496	Acrylonitrile	160.	10.	ug/l
3497	Methylene Chloride	20.	2.	ug/l
1264	Trichlorofluoromethane	22.	2.	ug/l
3500	1,1-Dichloroethene	20.	1.	ug/l
3501	1,1-Dichloroethane	20.	2.	ug/l
3503	Chloroform	20.	1.	ug/l
3504	1,2-Dichloroethane	19.	2.	ug/l
3505	1,1,1-Trichloroethane	21.	1.	ug/l
3506	Carbon Tetrachloride	21.	1.	ug/l
3508	Bromodichloromethane	20.	1.	ug/l
3523	1,1,2,2-Tetrachloroethane	20.	2.	ug/l
3509	1,2-Dichloropropane	20.	1.	ug/l
3510	trans-1,3-Dichloropropene	19.	1.	ug/l
3511	Trichloroethene	62.	1.	ug/l
3512	Dibromochloromethane	20.	2.	ug/l
3513	1,1,2-Trichloroethane	20.	2.	ug/l
3515	Benzene	20.	1.	ug/l
3516	cis-1,3-Dichloropropene	20.	1.	ug/l
3645	2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l
3518	Bromoform	21.	1.	ug/l
3522	Tetrachloroethene	21.	1.	ug/l
3524	Toluene	20.	2.	ug/l
3525	Chlorobenzene	20.	1.	ug/l
3526	Ethylbenzene	20.	2.	ug/l
3529	Xylene (total)	61.	1.	ug/l
5780	trans-1,2-Dichloroethene	19.	2.	ug/l
6268	cis-1,2-Dichloroethene	21.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 5/01/96





LLI Sample No. WW 2774802

Collected: 9/ 5/97 at 16:20 by AL

Submitted: 9/ 6/97 Reported: 11/ 3/97

Discard: 11/11/97

WP-GMM5-090597 Duplicate Grab Water Sample

Project# 17092.002

Ward Products, NY

1510- SDG#: WRD05-10DUP*

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

P.O.
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1754	Iron	0.33	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.012	0.0031	mg/l
1761	Nickel	N.D.	0.0078	mg/l
1772	Zinc	0.0195 J	0.0090	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
The analysis for nitrite nitrogen was initially performed within the 48 hour hold time. However, the continuing calibration standard was out of specifications and the analysis was repeated 2 days past hold time. The result of the second trial is presented above; however, there was no significant difference between the two trials (the result of the first trial was .19850mg/l).				
0220	Nitrate Nitrogen	N.D.	0.030	mg/l
0222	Ammonia Nitrogen	N.D.	0.040	mg/l
0237	Total Cyanide (water)	0.210	0.0040	mg/l
0206	Total Suspended Solids	19.6	3.4	mg/l
0279	Turbidity	17.5	0.12	N T U
This sample was analyzed past the 48 hour hold time for turbidity.				
1125	Sulfate (turbidimetric)	81.2	0.30	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%. The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	0.0246	0.00040	mg/l
The analysis for hexavalent chromium was originally performed on 09/06/97, and was analyzed as a matrix spike duplicate instead of a matrix duplicate. The above reported result includes a spike added value of .02 mg/l. The sample was repeated on 9/17/97 as a matrix duplicate and yielded a value of .00053 J mg/l. The first trial value is being reported because it was performed within the 24 hour holding time for hexavalent chromium.				

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
 19:10:56 D 0002 9 580979
 220 30.00 00030200 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. WW 2773813

Collected: 9/ 4/97 at 17:00 by AL

Submitted: 9/ 5/97 Reported: 10/ 2/97

Discard: 10/10/97

WP-GMW6-090497 Grab Water Sample

Ward 17092.002

MGW6 SDG#: WRD05-03

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

P.O. 17092.002
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS	
1508	PPL + Xylene (total) by 8240			See Page	2
1749	Cadmium	< 0.010	0.010	mg/l	
1751	Chromium	< 0.030	0.030	mg/l	
1754	Iron	< 0.10	0.10	mg/l	
1755	Lead	< 0.10	0.10	mg/l	
1758	Manganese	0.038	0.010	mg/l	
1761	Nickel	< 0.050	0.050	mg/l	
1772	Zinc	< 0.025	0.025	mg/l	
0173	PCBs in Water			See Page	3
0219	Nitrite Nitrogen	< 0.020	0.020	mg/l	
0220	Nitrate Nitrogen	0.47	0.10	mg/l	
0222	Ammonia Nitrogen	< 0.050	0.050	mg/l	
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l	
0206	Total Suspended Solids	< 9.0	9.0	mg/l	
0279	Turbidity	12.4	0.50	N T U	
1125	Sulfate (turbidimetric)	42.5	4.0	mg/l	
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%. The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.					
1446	Hexavalent Chromium	0.0187	0.0050	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
 04:42:47 D 0002 5 580736
 952 30.00 00067700 ASR000



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

Respectfully Submitted
 Erik Frederiksen, BA
 Group Leader, Water Quality



LLI Sample No. WW 2773813

Collected: 9/ 4/97 at 17:00 by AL

Submitted: 9/ 5/97 Reported: 10/ 2/97

Discard: 10/10/97

WP-GMMW6-090497 Grab Water Sample

Ward 17092.002

MGMM6 SDG#: WRD05-03

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

P.O. 17092.002
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 25.	25.	ug/l
1257	Bromomethane	< 25.	25.	ug/l
3492	Vinyl Chloride	< 25.	25.	ug/l
3494	Chloroethane	< 25.	25.	ug/l
3495	Acrolein	< 500.	500.	ug/l
3496	Acrylonitrile	< 250.	250.	ug/l
3497	Methylene Chloride	< 25.	25.	ug/l
1264	Trichlorofluoromethane	< 25.	25.	ug/l
3500	1,1-Dichloroethene	< 25.	25.	ug/l
3501	1,1-Dichloroethane	< 25.	25.	ug/l
3503	Chloroform	< 25.	25.	ug/l
3504	1,2-Dichloroethane	< 25.	25.	ug/l
3505	1,1,1-Trichloroethane	< 25.	25.	ug/l
3506	Carbon Tetrachloride	< 25.	25.	ug/l
3508	Bromodichloromethane	< 25.	25.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 25.	25.	ug/l
3509	1,2-Dichloropropane	< 25.	25.	ug/l
3510	trans-1,3-Dichloropropene	< 25.	25.	ug/l
3511	Trichloroethene	4,900.	130.	ug/l
3512	Dibromochloromethane	< 25.	25.	ug/l
3513	1,1,2-Trichloroethane	< 25.	25.	ug/l
3515	Benzene	< 25.	25.	ug/l
3516	cis-1,3-Dichloropropene	< 25.	25.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 50.	50.	ug/l
3518	Bromoform	< 25.	25.	ug/l
3522	Tetrachloroethene	48.	25.	ug/l
3524	Toluene	< 25.	25.	ug/l
3525	Chlorobenzene	< 25.	25.	ug/l
3526	Ethylbenzene	< 25.	25.	ug/l
3529	Xylene (total)	< 25.	25.	ug/l
5780	trans-1,2-Dichloroethene	< 25.	25.	ug/l
6268	cis-1,2-Dichloroethene	< 25.	25.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.
Due to the level of trichloroethene, the quantitation limits for all GC/MS volatile compounds were raised.

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





LLI Sample No. WW 2773812

Collected: 9/ 4/97 at 16:30 by AL

Submitted: 9/ 5/97 Reported: 10/ 2/97

Discard: 10/10/97

WP-CMM7-090497 Grab Water Sample

Ward 17092.002

MGMM7 SDG#: WRD05-02

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

P.O. 17092.002
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	< 0.010	0.010	mg/l
1751	Chromium	< 0.030	0.030	mg/l
1754	Iron	1.97	0.10	mg/l
1755	Lead	< 0.10	0.10	mg/l
1758	Manganese	0.031	0.010	mg/l
1761	Nickel	< 0.050	0.050	mg/l
1772	Zinc	< 0.025	0.025	mg/l
0219	Nitrite Nitrogen	< 0.020	0.020	mg/l
The analysis for nitrite nitrogen was initially performed within the 48 hour hold time. However, the continuing calibration standard was out of specifications and the analysis was repeated 3 days past hold time. The result of the second trial is presented above; however, there was no significant difference between the two trials (the result of the first trial was .00820mg/l).				
0220	Nitrate Nitrogen	0.27	0.10	mg/l
0222	Ammonia Nitrogen	< 0.050	0.050	mg/l
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l
0206	Total Suspended Solids	33.2	9.0	mg/l
0279	Turbidity	36.8	0.50	N T U
1125	Sulfate (turbidimetric)	72.7	4.0	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%. The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	0.0180	0.0050	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
 04:42:25 D 0002 5 580736
 952 30.00 00056200 ASR000



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

Respectfully Submitted
 Erik Frederiksen, BA
 Group Leader, Water Quality



LLI Sample No. WW 2773812

Collected: 9/ 4/97 at 16:30 by AL

Submitted: 9/ 5/97 Reported: 10/ 2/97

Discard: 10/10/97

WP-GMM7-090497 Grab Water Sample

Ward 17092.002

MGMM7 SDG#: WRD05-02

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

P.O. 17092.002
 Rel.

		AS RECEIVED		
CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 5.	5.	ug/l
1257	Bromomethane	< 5.	5.	ug/l
3492	Vinyl Chloride	< 5.	5.	ug/l
3494	Chloroethane	< 5.	5.	ug/l
3495	Acrolein	< 100.	100.	ug/l
3496	Acrylonitrile	< 50.	50.	ug/l
3497	Methylene Chloride	< 5.	5.	ug/l
1264	Trichlorofluoromethane	< 5.	5.	ug/l
3500	1,1-Dichloroethene	< 5.	5.	ug/l
3501	1,1-Dichloroethane	< 5.	5.	ug/l
3503	Chloroform	< 5.	5.	ug/l
3504	1,2-Dichloroethane	< 5.	5.	ug/l
3505	1,1,1-Trichloroethane	< 5.	5.	ug/l
3506	Carbon Tetrachloride	< 5.	5.	ug/l
3508	Bromodichloromethane	< 5.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 5.	5.	ug/l
3509	1,2-Dichloropropane	< 5.	5.	ug/l
3510	trans-1,3-Dichloropropene	< 5.	5.	ug/l
3511	Trichloroethene	450.	10.	ug/l
3512	Dibromochloromethane	< 5.	5.	ug/l
3513	1,1,2-Trichloroethane	< 5.	5.	ug/l
3515	Benzene	< 5.	5.	ug/l
3516	cis-1,3-Dichloropropene	< 5.	5.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 10.	10.	ug/l
3518	Bromoform	< 5.	5.	ug/l
3522	Tetrachloroethene	< 5.	5.	ug/l
3524	Toluene	< 5.	5.	ug/l
3525	Chlorobenzene	< 5.	5.	ug/l
3526	Ethylbenzene	< 5.	5.	ug/l
3529	Xylene (total)	< 5.	5.	ug/l
5780	trans-1,2-Dichloroethene	< 5.	5.	ug/l
6268	cis-1,2-Dichloroethene	< 5.	5.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

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

2216 Rev. 5/01/96





LLI Sample No. WW 2773815

Collected: 9/ 4/97 by AL

Submitted: 9/ 5/97 Reported: 10/ 2/97

Discard: 10/10/97

WP-GWDP-090497 Grab Water Sample

Ward 17092.002

GWDP- SDG#: WRD05-05

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

P.O. 17092.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS	
		RESULTS	LIMIT OF QUANTITATION		
1508	PPL + Xylene (total) by 8240			See Page	2
1749	Cadmium	< 0.010	0.010	mg/l	
1751	Chromium	< 0.030	0.030	mg/l	
1754	Iron	< 0.10	0.10	mg/l	
1755	Lead	< 0.10	0.10	mg/l	
1758	Manganese	0.040	0.010	mg/l	
1761	Nickel	< 0.050	0.050	mg/l	
1772	Zinc	< 0.025	0.025	mg/l	
0173	PCBs in Water			See Page	3
0219	Nitrite Nitrogen	< 0.020	0.020	mg/l	
0220	Nitrate Nitrogen	0.54	0.10	mg/l	
0222	Ammonia Nitrogen	< 0.050	0.050	mg/l	
0237	Total Cyanide (water)	< 0.0050	0.0050	mg/l	
0206	Total Suspended Solids	10.0	9.0	mg/l	
0279	Turbidity	12.5	0.50	N T U	
1125	Sulfate (turbidimetric)	41.2	4.0	mg/l	
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 130% and 127%. The acceptance window for this analysis is 62% to 124%. The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 119%. The acceptable RPD for this analysis is 10%. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.					
1446	Hexavalent Chromium	0.0214	0.0050	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
04:43:31 D 0002 5 580736
952 30.00 00067700 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717.656.2300 Fax 717.656.2681

Respectfully Submitted
Erik Frederiksen, BA
Group Leader, Water Quality



LLI Sample No. WW 2773815
Collected: 9/ 4/97 by AL

Submitted: 9/ 5/97 Reported: 10/ 2/97
Discard: 10/10/97

WP-GWDP-090497 Grab Water Sample

Ward 17092.002
GWDP- SDG#: WRD05-05

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

P.O. 17092.002
Rel.

		AS RECEIVED		
CAT NO.	ANALYSIS NAME	RESULTS	LIMIT OF QUANTITATION	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	< 25.	25.	ug/l
1257	Bromomethane	< 25.	25.	ug/l
3492	Vinyl Chloride	< 25.	25.	ug/l
3494	Chloroethane	< 25.	25.	ug/l
3495	Acrolein	< 500.	500.	ug/l
3496	Acrylonitrile	< 250.	250.	ug/l
3497	Methylene Chloride	< 25.	25.	ug/l
1264	Trichlorofluoromethane	< 25.	25.	ug/l
3500	1,1-Dichloroethene	< 25.	25.	ug/l
3501	1,1-Dichloroethane	< 25.	25.	ug/l
3503	Chloroform	< 25.	25.	ug/l
3504	1,2-Dichloroethane	< 25.	25.	ug/l
3505	1,1,1-Trichloroethane	< 25.	25.	ug/l
3506	Carbon Tetrachloride	< 25.	25.	ug/l
3508	Bromodichloromethane	< 25.	25.	ug/l
3523	1,1,2,2-Tetrachloroethane	< 25.	25.	ug/l
3509	1,2-Dichloropropane	< 25.	25.	ug/l
3510	trans-1,3-Dichloropropene	< 25.	25.	ug/l
3511	Trichloroethene	5,200.	130.	ug/l
3512	Dibromochloromethane	< 25.	25.	ug/l
3513	1,1,2-Trichloroethane	< 25.	25.	ug/l
3515	Benzene	< 25.	25.	ug/l
3516	cis-1,3-Dichloropropene	< 25.	25.	ug/l
3645	2-Chloroethyl Vinyl Ether	< 50.	50.	ug/l
3518	Bromoform	< 25.	25.	ug/l
3522	Tetrachloroethene	49.	25.	ug/l
3524	Toluene	< 25.	25.	ug/l
3525	Chlorobenzene	< 25.	25.	ug/l
3526	Ethylbenzene	< 25.	25.	ug/l
3529	Xylene (total)	< 25.	25.	ug/l
5780	trans-1,2-Dichloroethene	< 25.	25.	ug/l
6268	cis-1,2-Dichloroethene	< 25.	25.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.
Due to the level of trichloroethene, the quantitation limits for all GC/MS volatile compounds were raised.

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

See reverse side for explanation of symbols and abbreviations

2216 Rev 5/01/06





LLI Sample No. WW 2773815
Collected: 9/ 4/97 by AL

Submitted: 9/ 5/97 Reported: 10/ 2/97
Discard: 10/10/97

WP-GWDP-090497 Grab Water Sample

Ward 17092.002
GWDP- SDG#: WRD05-05

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

P.O. 17092.002
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	LIMIT OF		
		RESULTS	QUANTITATION	UNITS
PCBs in Water				
0639	PCB-1016	< 1.0	1.0	ug/l
0640	PCB-1221	< 1.0	1.0	ug/l
0641	PCB-1232	< 1.0	1.0	ug/l
0642	PCB-1242	< 1.0	1.0	ug/l
0643	PCB-1248	< 1.0	1.0	ug/l
0644	PCB-1254	< 1.0	1.0	ug/l
0645	PCB-1260	< 1.0	1.0	ug/l

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 717.656.2691

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

 Lancaster Laboratories
A division of Thermo Analytical Inc.

For Lancaster Laboratories use only
Acct. # 8863 Sample # 2774794-
802

Client: <u>Normandeau Assoc.</u> Acct. #: _____				Matrix (4)		(5)		For lab use only FSC: _____ SCR #: <u>1101773</u>																																							
Project Name/ #: <u>WARD RI/17092.002</u> PWSID #: _____				Matrix Water Gases Total of container		(5)		NH ₃ NO ₂ + NO ₃ VOC (8240) Fe, Mn, Cd, Cr, Pb Cu Se, T, Hg, B, TSS, Hex, Co PCB																																							
Project Manager: <u>A1 Larson</u> P.O. # _____																																															
Sampler: <u>A1 Larson/Steve Lee</u> Quote #: _____																																															
Name of state where samples were collected: <u>New York</u>				(3)		(6)		REMARKS																																							
Sample Identification		Date Collected	Time Collected	Lab	Comp.							Soil	Water	Gases	Total of container																																
WP-GWMW1-090597		09/05/97	1415	✓		✓			10	X	X	X	X	X	X																																
WP-GWMW1R-090597		09/05/97	1210	✓		✓			8	↓	↓																																				
WP-GWMW2-090597		09/05/97	1255	✓		✓			10	↓	↓				X																																
WP-GWMW3-090597		09/05/97	1615	✓		✓			6								No NH ₃ , NO ₂ , NO ₃ , Fe Mn or Se																														
WP-GWMW4-090597		09/05/97	1540	✓		✓			8	X	X						NOTE: SHORT HOLDING TIME																														
WP-GWMW5-090597		09/05/97	1510	✓		✓			8								Hex Cr, NO ₂ & NO ₃																														
WP-GWMS-090597*		09/05/97	1615	✓		✓			8								*GWMS - MATRIX SPIKE																														
WP-GWMSD-090597**		09/05/97	1620	✓		✓			8	↓	↓	↓	↓	↓	↓		**GWMSD - MATRIX SPIKE DUPLICATE																														
Turnaround Time Requested (TAT) (please circle): <u>Normal</u> Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: <u>2-3 Wks</u> Rush results requested by (please circle): Phone Fax Phone #: _____ Fax #: _____ <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Relinquished by: <u>[Signature]</u></td> <td>Date: <u>8-26-97</u></td> <td>Time: <u>700</u></td> <td>Received by: <u>[Signature]</u></td> <td>Date: <u>9/4/97</u></td> <td>Time: <u>1330</u></td> </tr> <tr> <td>Relinquished by: <u>[Signature]</u></td> <td>Date: <u>7/5/97</u></td> <td>Time: <u>1733</u></td> <td>Received by: <u>[Signature]</u></td> <td>Date: _____</td> <td>Time: _____</td> </tr> <tr> <td>Relinquished by: _____</td> <td>Date: _____</td> <td>Time: _____</td> <td>Received by: _____</td> <td>Date: _____</td> <td>Time: _____</td> </tr> <tr> <td>Relinquished by: _____</td> <td>Date: _____</td> <td>Time: _____</td> <td>Received by: _____</td> <td>Date: _____</td> <td>Time: _____</td> </tr> <tr> <td>Relinquished by: _____</td> <td>Date: _____</td> <td>Time: _____</td> <td>Received by: <u>[Signature]</u></td> <td>Date: <u>9-6-97</u></td> <td>Time: <u>10:10</u></td> </tr> </table>																		Relinquished by: <u>[Signature]</u>	Date: <u>8-26-97</u>	Time: <u>700</u>	Received by: <u>[Signature]</u>	Date: <u>9/4/97</u>	Time: <u>1330</u>	Relinquished by: <u>[Signature]</u>	Date: <u>7/5/97</u>	Time: <u>1733</u>	Received by: <u>[Signature]</u>	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: <u>9-6-97</u>	Time: <u>10:10</u>
Relinquished by: <u>[Signature]</u>	Date: <u>8-26-97</u>	Time: <u>700</u>	Received by: <u>[Signature]</u>	Date: <u>9/4/97</u>	Time: <u>1330</u>																																										
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Relinquished by: _____	Date: _____	Time: _____	Received by: <u>[Signature]</u>	Date: <u>9-6-97</u>	Time: <u>10:10</u>																																										
Data Package Options (please circle if requested) QC Summary Type VI (Raw Data) <u>GLP</u> <u>Other</u> Type I (Tier I) Type II (Tier II) Type III (NJ Red. Del.) <u>NY's ASP</u> 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																																															

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only
Acct. # 886.3 Sample # 2773P11-15

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

1 Client: <u>NORMANDEAN ASSOC.</u> Acct. #: _____ Project Name/#: <u>WARD 17092.002</u> PWSID #: _____ Project Manager: <u>ALLARSON</u> P.O.# _____ Sampler: <u>ALLARSON / STEVE LEE</u> Quote #: _____ Name of state where samples were collected: <u>New York</u>			Matrix 4 Soil ☐ Water ☐ Other ☐		5 Analyses Requested NH ₃ NO ₂ + NO ₃ VOC (8240) Fe, Mn, Cd, Cu, Pb CN SO ₄ , TSS, TSS, H ₂ O PCB							For lab use only FSC: _____ SCR #: <u>1101773</u>				
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total Containers	NH ₃	NO ₂ + NO ₃	VOC (8240)	Fe, Mn, Cd, Cu, Pb	CN	SO ₄ , TSS, TSS, H ₂ O	PCB	Remarks
WP-GWMW8-090497	09/04/97	13:45	X			X		8								All samples to be analyzed for hex or run ASAP!
WP-GWMW7-090497	09/04/97	16:30	X			X		8								
WP-GWMW6-090497	09/04/97	1700	X			X		10						X		
WP-GWMW4R-090497	09/04/97	1800	X			X		8								
WP-GWDP-090497	09/04/97	X	X			X		10	X	X	X	X	X	X	X	

7 Turnaround Time Requested (TAT) (please circle) <u>Normal</u> Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: <u>2-3 WEEKS</u> Rush results requested by (please circle): Phone Fax Phone #: _____ Fax #: _____			Relinquished by: <u>[Signature]</u> Date <u>8/26/97</u> Time <u>1700</u> Relinquished by: <u>[Signature]</u> Date <u>9/4/97</u> Time <u>1928</u> Relinquished by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____ Relinquished by: _____ Date _____ Time _____		Received by: <u>[Signature]</u> Date <u>9/4/97</u> Time <u>1500</u> Received by: _____ Date _____ Time _____ Received by: _____ Date _____ Time _____ Received by: _____ Date _____ Time _____ Received by: <u>Alberona Alberona</u> Date <u>9/5/97</u> Time <u>0920</u>	
8 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) <u>GLP</u> <u>Other</u> <u>NYS ASP</u> <u>CR 13</u>			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			

NOVEMBER 1997



Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 1 of 6

LLI Sample No. WW 2812766

Collected: 11/ 3/97 at 14:35 by AL

Submitted: 11/ 4/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMW1-110397 Grab Water Sample

Ward Products Project No. 17092.002

WP103 SDG#: WRD08-01

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

P.O. 17092.002
Rel.

AS RECEIVED

METHOD

CAT NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	33.1	0.0066	mg/l
1754	Iron	1.51	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.106	0.0031	mg/l
1772	Zinc	0.0184 J	0.0090	mg/l
7061	Nickel TR	0.0074	0.0016	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
0220	Nitrate Nitrogen	1.29	0.030	mg/l
0222	Ammonia Nitrogen	0.14	0.030	mg/l
0237	Total Cyanide (water)	0.0881	0.0040	mg/l
0206	Total Suspended Solids	251.	5.6	mg/l
0279	Turbidity	200.	0.12	N T U
1125	Sulfate (turbidimetric)	121.	0.30	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	36.6	0.40	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
11:11:32 D 0002 6 REP 127551 589110
229 0.00 00039350 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.

2216 Rev 8/4/97





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 6

LLI Sample No. WW 2812766

Collected: 11/ 3/97 at 14:35 by AL

Submitted: 11/ 4/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMW1-110397 Grab Water Sample

Ward Products Project No. 17092.002

WP103 SDG#: WRD08-01

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

P.O. 17092.002

Rel.

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	N.D.	6.	ug/l
1257	Bromomethane	N.D.	6.	ug/l
3492	Vinyl Chloride	N.D.	4.	ug/l
3494	Chloroethane	N.D.	6.	ug/l
3495	Acrolein	N.D.	80.	ug/l
3496	Acrylonitrile	N.D.	20.	ug/l
3497	Methylene Chloride	N.D.	4.	ug/l
1264	Trichlorofluoromethane	N.D.	4.	ug/l
3500	1,1-Dichloroethene	N.D.	2.	ug/l
3501	1,1-Dichloroethane	N.D.	4.	ug/l
3503	Chloroform	6. J	2.	ug/l
3504	1,2-Dichloroethane	N.D.	4.	ug/l
3505	1,1,1-Trichloroethane	N.D.	2.	ug/l
3506	Carbon Tetrachloride	24.	2.	ug/l
3508	Bromodichloromethane	N.D.	2.	ug/l
3523	1,1,2,2-Tetrachloroethane	N.D.	4.	ug/l
3509	1,2-Dichloropropane	N.D.	2.	ug/l
3510	trans-1,3-Dichloropropene	N.D.	2.	ug/l
3511	Trichloroethene	940.	10.	ug/l
3512	Dibromochloromethane	N.D.	4.	ug/l
3513	1,1,2-Trichloroethane	N.D.	4.	ug/l
3515	Benzene	N.D.	2.	ug/l
3516	cis-1,3-Dichloropropene	N.D.	2.	ug/l
3645	2-Chloroethyl Vinyl Ether	N.D.	4.	ug/l
3518	Bromoform	N.D.	2.	ug/l
3522	Tetrachloroethene	3. J	2.	ug/l
3524	Toluene	N.D.	4.	ug/l
3525	Chlorobenzene	N.D.	2.	ug/l
3526	Ethylbenzene	N.D.	4.	ug/l
3529	Xylene (total)	N.D.	2.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	4.	ug/l
6268	cis-1,2-Dichloroethene	36.	4.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

Due to the level of trichloroethene, the quantitation limits for all GC/MS volatile compounds were raised.

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

See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97





LLI Sample No. WW 2812767

Collected: 11/ 3/97 at 13:55 by AL

Submitted: 11/ 4/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMW1R-110397 Grab Water Sample

Ward Products Project No. 17092.002

WP1R3 SDG#: WRD08-02

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

P.O. 17092.002
 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	N.D.	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	N.D.	1.	ug/l
3501	1,1-Dichloroethane	N.D.	2.	ug/l
3503	Chloroform	6.	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	33.	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	690.	10.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	4.	J 1.	ug/l
3524	Toluene	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	34.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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. WW 2812768

Collected: 11/ 3/97 at 13:15 by AL

Submitted: 11/ 4/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GWW2-110397 Grab Water Sample

Ward Products Project No. 17092.002

WP203 SDG#: WRD08-03

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

P.O. 17092.002
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	0.535	0.0066	mg/l
1754	Iron	0.73	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.041	0.0031	mg/l
1772	Zinc	N.D.	0.0090	mg/l
7061	Nickel TR	N.D.	0.0016	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
0220	Nitrate Nitrogen	0.13	0.030	mg/l
0222	Ammonia Nitrogen	N.D.	0.030	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	N.D.	3.4	mg/l
0279	Turbidity	4.09	0.12	N T U
1125	Sulfate (turbidimetric)	53.3	0.15	mg/l
	The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.			
1446	Hexavalent Chromium	0.338	0.0040	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
 11:24:29 D 0002 6 REP 127551 589110
 229 0.00 00039350 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

2216 Rev 8/4/97



LLI Sample No. WW 2812768

Collected: 11/ 3/97 at 13:15 by AL

Submitted: 11/ 4/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GW2-110397 Grab Water Sample

Ward Products Project No. 17092.002

WP203 SDG#: WRD08-03

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

P.O. 17092.002
Rel.

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	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	N.D.	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	N.D.	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	N.D.	1.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	N.D.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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



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Page: 1 of 6

LLI Sample No. WW 2812770

Collected: 11/ 3/97 at 15:40 by AL

Submitted: 11/ 4/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMM5-110397 Grab Water Sample

Ward Products Project No. 17092.002

WP503 SDG#: WRD08-05

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

P.O. 17092.002

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1754	Iron	0.74	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.0080 J	0.0031	mg/l
1772	Zinc	0.029	0.0090	mg/l
7061	Nickel TR	N.D.	0.0016	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
0220	Nitrate Nitrogen	0.032 J	0.030	mg/l
0222	Ammonia Nitrogen	N.D.	0.030	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	15.6	3.4	mg/l
0279	Turbidity	12.1	0.12	N T U
1125	Sulfate (turbidimetric)	20.7	0.076	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	0.00406J	0.00040	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
11:34:19 D 0002 6 REP 127551 589110
229 0.00 00039350 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.

2216 Rev. 8/4/97





LLI Sample No. WW 2812770

Collected: 11/ 3/97 at 15:40 by AL

Submitted: 11/ 4/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMM5-110397 Grab Water Sample

Ward Products Project No. 17092.002

WP503 SDG#: WRD08-05

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

P.O. 17092.002
 Rel.

AS RECEIVED
 METHOD
 RESULTS 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	N.D.	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	3. J	1.	ug/l
3501	1,1-Dichloroethane	N.D.	2.	ug/l
3503	Chloroform	2. J	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	12.	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	270.	1.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	1. J	1.	ug/l
3524	Toluene	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	2. J	2.	ug/l
6268	cis-1,2-Dichloroethene	94.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev 8/4/97





LLI Sample No. WW 2813837

Collected: 11/ 4/97 by AL

Submitted: 11/ 5/97 Reported: 12/ 3/97

Discard: 12/11/97

WP-GWDUP-110497 Grab Water Sample

Ward Products Project No. 17092.002

WPDUP SDG#: WRD08-07

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

P.O. 17092.002

Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD	
		RESULTS	DETECTION LIMIT UNITS
1508	PPL + Xylene (total) by 8240		See Page 2
1749	Cadmium	N.D.	0.0031 mg/l
1751	Chromium	0.0083 J	0.0066 mg/l
1754	Iron	N.D.	0.015 mg/l
1755	Lead	N.D.	0.021 mg/l
1758	Manganese	0.0062 J	0.0031 mg/l
1772	Zinc	0.0176 J	0.0090 mg/l
7061	Nickel TR	0.0024 J	0.0016 mg/l
0219	Nitrite Nitrogen	N.D.	0.015 mg/l
0220	Nitrate Nitrogen	0.17	0.030 mg/l
0222	Ammonia Nitrogen	N.D.	0.030 mg/l
0237	Total Cyanide (water)	N.D.	0.0040 mg/l
0206	Total Suspended Solids	N.D.	3.4 mg/l
0279	Turbidity	2.99	0.12 NTU
The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 16%. The acceptable RPD for this analysis is 3.3. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.			
1125	Sulfate (turbidimetric)	72.2	0.15 mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.			
1446	Hexavalent Chromium	0.0071	0.00040 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
20:33:46 D 0002 8 127551 589343
320 0.00 00039350 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. WW 2813837
Collected: 11/ 4/97 by AL

Submitted: 11/ 5/97 Reported: 12/ 3/97
Discard: 12/11/97

WP-GWDUP-110497 Grab Water Sample

Ward Products Project No. 17092.002
WPDUP SDG#: WRD08-07

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

P.O. 17092.002
Rel.

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	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	N.D.	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	N.D.	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	410.	5.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	1. J	1.	ug/l
3524	Toluene	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	3. J	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. WW 2813838

Collected: 11/ 4/97 at 15:30 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMW6-110497 Grab Water Sample

Ward Products Project No. 17092.002

WPMW6 SDG#: WRD08-08

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

P.O. 17092.002

Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1754	Iron	0.32	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.246	0.0031	mg/l
1772	Zinc	0.047	0.0090	mg/l
7061	Nickel TR	0.0040 J	0.0016	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
0220	Nitrate Nitrogen	N.D.	0.030	mg/l
0222	Ammonia Nitrogen	0.030 J	0.030	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	18.4	3.4	mg/l
0279	Turbidity	40.3	0.12	N T U
The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 16%. The acceptable RPD for this analysis is 3.3. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1125	Sulfate (turbidimetric)	62.0	0.15	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	N.D.	0.00040	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
11:40:28 D 0002 8 REP 127551 589343
229 0.00 00039350 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.

2216 Rev. 8/4/97





Lancaster Laboratories
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Page: 2 of 6

LLI Sample No. WW 2813838

Collected: 11/ 4/97 at 15:30 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMM6-110497 Grab Water Sample

Ward Products Project No. 17092.002

WPMW6 SDG#: WRD08-08

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

P.O. 17092.002
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIMIT	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	N.D.	15.	ug/l
1257	Bromomethane	N.D.	15.	ug/l
3492	Vinyl Chloride	N.D.	10.	ug/l
3494	Chloroethane	N.D.	15.	ug/l
3495	Acrolein	N.D.	200.	ug/l
3496	Acrylonitrile	N.D.	50.	ug/l
3497	Methylene Chloride	N.D.	10.	ug/l
1264	Trichlorofluoromethane	N.D.	10.	ug/l
3500	1,1-Dichloroethene	N.D.	5.	ug/l
3501	1,1-Dichloroethane	N.D.	10.	ug/l
3503	Chloroform	N.D.	5.	ug/l
3504	1,2-Dichloroethane	N.D.	10.	ug/l
3505	1,1,1-Trichloroethane	N.D.	5.	ug/l
3506	Carbon Tetrachloride	N.D.	5.	ug/l
3508	Bromodichloromethane	N.D.	5.	ug/l
3523	1,1,2,2-Tetrachloroethane	N.D.	10.	ug/l
3509	1,2-Dichloropropane	N.D.	5.	ug/l
3510	trans-1,3-Dichloropropene	N.D.	5.	ug/l
3511	Trichloroethene	3,200.	25.	ug/l
3512	Dibromochloromethane	N.D.	10.	ug/l
3513	1,1,2-Trichloroethane	N.D.	10.	ug/l
3515	Benzene	N.D.	5.	ug/l
3516	cis-1,3-Dichloropropene	N.D.	5.	ug/l
3645	2-Chloroethyl Vinyl Ether	N.D.	10.	ug/l
3518	Bromoform	N.D.	5.	ug/l
3522	Tetrachloroethene	22. J	5.	ug/l
3524	Toluene	N.D.	10.	ug/l
3525	Chlorobenzene	N.D.	5.	ug/l
3526	Ethylbenzene	N.D.	10.	ug/l
3529	Xylene (total)	N.D.	5.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	10.	ug/l
6268	cis-1,2-Dichloroethene	N.D.	10.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.
Due to the level of trichloroethene, the quantitation limits for all GC/MS volatile compounds were raised.

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

Respectfully Submitted
Duane A. Luckenbiller, 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. 8/4/97





LLI Sample No. WW 2813839

Collected: 11/ 4/97 at 14:35 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMW-110497 Grab Water Sample

Ward Products Project No. 17092.002

WPMW7 SDG#: WRD08-09

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

P.O. 17092.002
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	0.0077 J	0.0066	mg/l
1754	Iron	N.D.	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.0096 J	0.0031	mg/l
1772	Zinc	0.0191 J	0.0090	mg/l
7061	Nickel TR	0.0081	0.0016	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
0220	Nitrate Nitrogen	0.18	0.030	mg/l
0222	Ammonia Nitrogen	N.D.	0.030	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	N.D.	3.4	mg/l
0279	Turbidity	3.67	0.12	N T U
The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 16%. The acceptable RPD for this analysis is 3.3. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1125	Sulfate (turbidimetric)	71.8	0.15	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	0.0065	0.00040	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

11:42:54 D 0002 8 REP 127551 589343

229 0.00 00039350 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.

2216 Rev. 8/4/97



LLI Sample No. WW 2813839

Collected: 11/ 4/97 at 14:35 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMW7-110497 Grab Water Sample

Ward Products Project No. 17092.002

WPMW7 SDG#: WRD08-09

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

P.O. 17092.002

Rel.

AS RECEIVED

METHOD

CAT NO.	ANALYSIS NAME	RESULTS	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	N.D.	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	N.D.	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	450.	2.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	1. J	1.	ug/l
3524	Toluene	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	3. J	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. WW 2813840

Collected: 11/ 4/97 at 13:40 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMW8-110497 Unspiked Grab Water Sample

Ward Products Project No. 17092.002

WPMW8 SDG#: WRD08-10BKG

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

P.O. 17092.002

Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1754	Iron	1.98	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.044	0.0031	mg/l
1772	Zinc	0.084	0.0090	mg/l
7061	Nickel TR	0.0036 J	0.0016	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
0220	Nitrate Nitrogen	1.07	0.030	mg/l
0222	Ammonia Nitrogen	0.030 J	0.030	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	68.0	3.4	mg/l
0279	Turbidity	49.3	0.12	N T U
The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 16%. The acceptable RPD for this analysis is 3.3. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1125	Sulfate (turbidimetric)	85.6	0.30	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	N.D.	0.00040	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
11:44:49 D 0002 8 REP 127551 589343
229 0.00 00039350 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



Lancaster Laboratories
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PO Box 12425
Lancaster, PA 17605-2425
717.656.2300 Fax 717.656.2591

See reverse only for explanation of symbols and abbreviations

2216 Rev. 8/14/97



Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 6

LLI Sample No. WW 2813840

Collected: 11/ 4/97 at 13:40 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMMW8-110497 Unspiked Grab Water Sample

Ward Products Project No. 17092.002

WPMW8 SDG#: WRD08-10BKG

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

P.O. 17092.002
Rel.

AS RECEIVED
METHOD
RESULTS 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	N.D.	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	N.D.	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	34.	1.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	N.D.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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



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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

221A Rev 8/1/97





LLI Sample No. WW 2813841

Collected: 11/ 4/97 at 13:40 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMW8-110497 Matrix Spike Grab Water Sample

Ward Products Project No. 17092.002

WPMW8 SDG#: WRD08-10MS

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

P.O. 17092.002
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD	
		RESULTS	DETECTION LIMIT UNITS
1508	PPL + Xylene (total) by 8240		See Page 2
1749	Cadmium	0.048	0.0031 mg/l
1751	Chromium	0.200	0.0066 mg/l
1754	Iron	2.58	0.015 mg/l
1755	Lead	0.50	0.021 mg/l
1758	Manganese	0.524	0.0031 mg/l
1772	Zinc	0.542	0.0090 mg/l
7061	Nickel TR	0.482	0.0016 mg/l
0219	Nitrite Nitrogen	0.211	0.015 mg/l
0220	Nitrate Nitrogen	1.88	0.030 mg/l
0222	Ammonia Nitrogen	0.86	0.030 mg/l
0237	Total Cyanide (water)	0.216	0.0040 mg/l
1125	Sulfate (turbidimetric)	103.	0.76 mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.			
1446	Hexavalent Chromium	0.0217	0.00040 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
 11:48:05 D 0002 8 REP 127551 589343
 229 0.00 00036250 ASR000

Respectfully Submitted
 Ramona V. Layman
 Manager, Metals/Leachates



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 PO Box 12425
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 717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97



LLI Sample No. WW 2813841

Collected: 11/ 4/97 at 13:40 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMW8-110497 Matrix Spike Grab Water Sample

Ward Products Project No. 17092.002

WPMW8 SDG#: WRD08-10MS

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

P.O. 17092.002

Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIMIT	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	13.	3.	ug/l
1257	Bromomethane	15.	3.	ug/l
3492	Vinyl Chloride	13.	2.	ug/l
3494	Chloroethane	13.	3.	ug/l
3495	Acrolein	130.	40.	ug/l
3496	Acrylonitrile	140.	10.	ug/l
3497	Methylene Chloride	16.	2.	ug/l
1264	Trichlorofluoromethane	9.	2.	ug/l
3500	1,1-Dichloroethene	16.	1.	ug/l
3501	1,1-Dichloroethane	16.	2.	ug/l
3503	Chloroform	17.	1.	ug/l
3504	1,2-Dichloroethane	18.	2.	ug/l
3505	1,1,1-Trichloroethane	18.	1.	ug/l
3506	Carbon Tetrachloride	17.	1.	ug/l
3508	Bromodichloromethane	18.	1.	ug/l
3523	1,1,2,2-Tetrachloroethane	23.	2.	ug/l
3509	1,2-Dichloropropane	16.	1.	ug/l
3510	trans-1,3-Dichloropropene	18.	1.	ug/l
3511	Trichloroethene	47.	1.	ug/l
3512	Dibromochloromethane	20.	2.	ug/l
3513	1,1,2-Trichloroethane	21.	2.	ug/l
3515	Benzene	17.	1.	ug/l
3516	cis-1,3-Dichloropropene	17.	1.	ug/l
3645	2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l
3518	Bromoform	24.	1.	ug/l
3522	Tetrachloroethene	21.	1.	ug/l
3524	Toluene	17.	2.	ug/l
3525	Chlorobenzene	18.	1.	ug/l
3526	Ethylbenzene	19.	2.	ug/l
3529	Xylene (total)	55.	1.	ug/l
5780	trans-1,2-Dichloroethene	16.	2.	ug/l
6268	cis-1,2-Dichloroethene	18.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. WW 2813842

Collected: 11/ 4/97 at 13:40 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMM8-110497 Matrix Spike Dup/Dup Grab Water

Ward Products Project No. 17092.002

WPMW8 SDG#: WRD08-10MSD

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

P.O. 17092.002
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1754	Iron	0.058 J	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.0032 J	0.0031	mg/l
1772	Zinc	0.0162 J	0.0090	mg/l
7061	Nickel TR	N.D.	0.0016	mg/l
0219	Nitrite Nitrogen	0.204	0.015	mg/l
0220	Nitrate Nitrogen	1.90	0.030	mg/l
0222	Ammonia Nitrogen	0.92	0.030	mg/l
0237	Total Cyanide (water)	0.208	0.0040	mg/l
0206	Total Suspended Solids	80.0	3.4	mg/l
0279	Turbidity	57.9	0.12	N T U
The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 16%. The acceptable RPD for this analysis is 3.3. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1125	Sulfate (turbidimetric)	276.	0.76	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	0.0212	0.00040	mg/l

222 use 01 bottle

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
 11:50:27 D 0002 8 REP 127551 589343
 229 0.00 00039350 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.

2216 Rev. 8/4/97





LLI Sample No. WW 2813842

Collected: 11/ 4/97 at 13:40 by AL

Submitted: 11/ 5/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-GMM8-110497 Matrix Spike Dup/Dup Grab Water

Ward Products Project No. 17092.002

WPMW8 SDG#: WRD08-10MSD

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

P.O. 17092.002

Rel.

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	13.	3.	ug/l
1257	Bromomethane	16.	3.	ug/l
3492	Vinyl Chloride	14.	2.	ug/l
3494	Chloroethane	14.	3.	ug/l
3495	Acrolein	130.	40.	ug/l
3496	Acrylonitrile	140.	10.	ug/l
3497	Methylene Chloride	16.	2.	ug/l
1264	Trichlorofluoromethane	10.	2.	ug/l
3500	1,1-Dichloroethene	16.	1.	ug/l
3501	1,1-Dichloroethane	16.	2.	ug/l
3503	Chloroform	17.	1.	ug/l
3504	1,2-Dichloroethane	18.	2.	ug/l
3505	1,1,1-Trichloroethane	18.	1.	ug/l
3506	Carbon Tetrachloride	17.	1.	ug/l
3508	Bromodichloromethane	18.	1.	ug/l
3523	1,1,2,2-Tetrachloroethane	22.	2.	ug/l
3509	1,2-Dichloropropane	16.	1.	ug/l
3510	trans-1,3-Dichloropropene	18.	1.	ug/l
3511	Trichloroethene	49.	1.	ug/l
3512	Dibromochloromethane	21.	2.	ug/l
3513	1,1,2-Trichloroethane	20.	2.	ug/l
3515	Benzene	17.	1.	ug/l
3516	cis-1,3-Dichloropropene	17.	1.	ug/l
3645	2-Chloroethyl Vinyl Ether	N.D.	2.	ug/l
3518	Bromoform	24.	1.	ug/l
3522	Tetrachloroethene	20.	1.	ug/l
3524	Toluene	17.	2.	ug/l
3525	Chlorobenzene	18.	1.	ug/l
3526	Ethylbenzene	19.	2.	ug/l
3529	Xylene (total)	55.	1.	ug/l
5780	trans-1,2-Dichloroethene	16.	2.	ug/l
6268	cis-1,2-Dichloroethene	18.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. WW 2812771

Collected: 11/ 3/97 at 16:10 by AL

Submitted: 11/ 4/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-SWSW2-110397 Grab Water Sample

Ward Products Project No. 17092.002

SWSW2 SDG#: WRD08-06

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

P.O. 17092.002

Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	0.028	0.0031	mg/l
1751	Chromium	0.047	0.0066	mg/l
1754	Iron	N.D.	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	N.D.	0.0031	mg/l
1772	Zinc	0.033	0.0090	mg/l
7061	Nickel TR	0.0435	0.0016	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
0220	Nitrate Nitrogen	N.D.	0.030	mg/l
0222	Ammonia Nitrogen	N.D.	0.030	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	N.D.	3.4	mg/l
0279	Turbidity	1.91	0.12	N T U
1125	Sulfate (turbidimetric)	16.1	0.076	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	0.0457	0.00040	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
 11:37:39 D 0002 6 REP 127551 589110
 229 0.00 00039350 ASR000

Respectfully Submitted
 Ramona V. Layman
 Manager, Metals/Leachates



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 PO Box 12425
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See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97



LLI Sample No. WW 2812771

Collected: 11/ 3/97 at 16:10 by AL

Submitted: 11/ 4/97 Reported: 12/ 5/97

Discard: 12/13/97

WP-SWSW2-110397 Grab Water Sample

Ward Products Project No. 17092.002

SWSW2 SDG#: WRD08-06

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

 P.O. 17092.002
 Rel.

AS RECEIVED

METHOD

CAT NO.	ANALYSIS NAME	RESULTS	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	N.D.	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	N.D.	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	1. J	1.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	N.D.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations

2216 Rev. 8/4/97





LLI Sample No. WW 2813837

Collected: 11/ 4/97 by AL

Submitted: 11/ 5/97 Reported: 12/18/97

Discard: 12/26/97

WP-GWDUP-110497 Grab Water Sample

Ward Products Project No. 17092.002

WPDUP SDG#: WRD08-07

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

P.O. 17092.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	0.0083 J	0.0066	mg/l
1754	Iron	N.D.	0.015	mg/l
1755	Lead	N.D.	0.021	mg/l
1758	Manganese	0.0062 J	0.0031	mg/l
1772	Zinc	0.0176 J	0.0090	mg/l
7061	Nickel TR	0.0024 J	0.0016	mg/l
0219	Nitrite Nitrogen	N.D.	0.015	mg/l
0220	Nitrate Nitrogen	0.17	0.030	mg/l
0222	Ammonia Nitrogen	N.D.	0.030	mg/l
0237	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	N.D.	3.4	mg/l
0279	Turbidity	2.99	0.12	N T U
The duplicate sample analyzed on the batch associated with this sample yielded a relative percent difference (RPD) of 16%. The acceptable RPD for this analysis is 3.3. This could be attributed to the non-homogeneity of the duplicate sample. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1125	Sulfate (turbidimetric)	72.2	0.15	mg/l
The matrix spike and matrix spike duplicate analyzed on the batch associated with this sample had recoveries of 9% and 95%. The acceptance window for this analysis is 62% to 124%. The blank and LCS/LCSD analyzed with the sample were within specifications.				
1446	Hexavalent Chromium	0.0071	0.00040	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
12:36:19 D 0002 8 REP 127551 589343
288 0.00 00039350 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 2813837

Collected: 11/ 4/97 by AL

Submitted: 11/ 5/97 Reported: 12/18/97

Discard: 12/26/97

WP-GWDUP-110497 Grab Water Sample

Ward Products Project No. 17092.002

WPDUP SDG#: WRD08-07

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

P.O. 17092.002
Rel.

AS RECEIVED

METHOD

CAT NO.	ANALYSIS NAME	RESULTS	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	N.D.	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	N.D.	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	410.	5.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	1. J	1.	ug/l
3524	Toluene	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	3. J	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97





For Lancaster Laboratories use only
Acct. # 8863 Sample # 2813837-44

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

Client: <u>NORMANDEAN ASSOC.</u> Acct. #: _____ Project Name/ #: <u>WARD # 17092.002</u> PWSID #: _____ Project Manager: <u>A. LORSON</u> P.O. #: _____ Sampler: <u>A. LORSON / STEVE LEE</u> Quote #: _____ Name of state where samples were collected: <u>NY</u>			Matrix 4 Soil ☐ Water ☐ Other ☐		Analytes Requested 5 <u>AH3</u> <u>NO3 / NO2</u> <u>VOC 8240</u> <u>E. Tb. 1016 CR</u> <u>CN</u> <u>Lead, Cd, Cr, Pb, TSS, SD4</u>						For lab use only FSC: _____ SCR #: <u>1104287</u>	
Sample Identification	Date collected	Time collected	Grav	Compos	Soil	Water	Other	Total	Matrix	Analytes	Remarks	
WP-GW DUP-110497	11/4/97	—	X		X			10			NOTE: Hex CHROME 24 HR HOLD TIME!! ANALYZE ASAP	
WP-GW MW6-110497	11/4/97	1530	X		X			10				
WP-GW MW7-110497	11/4/97	1435	X		X			10				
WP-GW MW8-110497	11/4/97	1340	X		X			10				
WP-GW MW8MS-110497	11/4/97	1340	X		X			10				
WP-GW MW8MSO-110497	11/4/97	1340	X		X			10				
WP-GW MW4-110497	11/4/97	1300	X		X			4		X ER	Hex CR IF POSSIBLE	
Turnaround Time Requested (TAT) (please circle): <u>Normal</u> ☐ Rush ☐ (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): Phone ☐ Fax ☐ Phone #: <u>603-472-5791</u> Fax #: <u>603-472-7052</u>			Relinquished by: <u>S. H. Huckle</u> Date: <u>10/27/97</u> Time: <u>1115</u> Relinquished by: <u>Cell Jansen</u> Date: <u>11/4/97</u> Time: <u>1546</u>		Received by: <u>Cell Jansen</u> Date: <u>11/3/97</u> Time: <u>8:30</u>							
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) ☐			SDG Complete? Yes ☐ No ☐ Site-specific QC required? Yes ☐ No ☐ Internal Chain of Custody required? Yes ☐ No ☐		Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____ Received by: <u>Cell Jansen</u> Date: <u>11/6/97</u> Time: <u>0900</u>					

JANUARY 1998



LLI Sample No. WW 2862442

Collected: 1/22/98 at 13:25 by AL

Submitted: 1/23/98 Reported: 2/19/98

Discard: 2/27/98

WP-GMMWR-012298 Grab Water Sample

Ward Products Project No. 17092.002

WPWR SDG#: WAR12-01

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

P.O. 17092.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	0.0092 J	0.0066	mg/l
1755	Lead	N.D.	0.021	mg/l
1772	Zinc	0.093	0.0090	mg/l
7061	Nickel TR	0.0056	0.0016	mg/l
8255	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	39.2	2.6	mg/l
0279	Turbidity	21.8	0.12	N T U
1446	Hexavalent Chromium	0.0052	0.00050	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
21:09:46 D 0002 5 127551 599753
232 15.00 00032200 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 7

LLI Sample No. WW 2862442

Collected: 1/22/98 at 13:25 by AL

Submitted: 1/23/98 Reported: 2/19/98

Discard: 2/27/98

WP-GMW4R-012298 Grab Water Sample

Ward Products Project No. 17092.002

WPW4R SDG#: WAR12-01

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

P.O. 17092.002
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIMIT	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	N.D.	60.	ug/l
1257	Bromomethane	N.D.	60.	ug/l
3492	Vinyl Chloride	N.D.	40.	ug/l
3494	Chloroethane	N.D.	60.	ug/l
3495	Acrolein	N.D.	800.	ug/l
3496	Acrylonitrile	N.D.	200.	ug/l
3497	Methylene Chloride	N.D.	40.	ug/l
1264	Trichlorofluoromethane	N.D.	40.	ug/l
3500	1,1-Dichloroethene	N.D.	20.	ug/l
3501	1,1-Dichloroethane	N.D.	40.	ug/l
3503	Chloroform	N.D.	20.	ug/l
3504	1,2-Dichloroethane	N.D.	40.	ug/l
3505	1,1,1-Trichloroethane	N.D.	20.	ug/l
3506	Carbon Tetrachloride	N.D.	20.	ug/l
3508	Bromodichloromethane	N.D.	20.	ug/l
3523	1,1,2,2-Tetrachloroethane	N.D.	40.	ug/l
3509	1,2-Dichloropropane	N.D.	20.	ug/l
3510	trans-1,3-Dichloropropene	N.D.	20.	ug/l
3511	Trichloroethene	28,000.	200.	ug/l
3512	Dibromochloromethane	N.D.	40.	ug/l
3513	1,1,2-Trichloroethane	N.D.	40.	ug/l
3515	Benzene	N.D.	20.	ug/l
3516	cis-1,3-Dichloropropene	N.D.	20.	ug/l
3645	2-Chloroethyl Vinyl Ether	N.D.	40.	ug/l
3518	Bromoform	N.D.	20.	ug/l
3522	Tetrachloroethene	210.	20.	ug/l
3524	Toluene	N.D.	40.	ug/l
3525	Chlorobenzene	N.D.	20.	ug/l
3526	Ethylbenzene	N.D.	40.	ug/l
3529	Xylene (total)	N.D.	20.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	40.	ug/l
6268	cis-1,2-Dichloroethene	80.	40.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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



LLI Sample No. WW 2862445

Collected: 1/22/98 at 14:40 by AL

Submitted: 1/23/98 Reported: 2/19/98

Discard: 2/27/98

WP-GMM9-012298 Grab Water Sample

Ward Products Project No. 17092.002

WPMW9 SDG#: WAR12-04

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

P.O. 17092.002
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1755	Lead	N.D.	0.021	mg/l
1772	Zinc	0.0134 J	0.0090	mg/l
7061	Nickel TR	N.D.	0.0016	mg/l
8255	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	N.D.	2.6	mg/l
0279	Turbidity	4.81	0.12	N T U
1446	Hexavalent Chromium	0.00051J	0.00050	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
 21:12:50 D 0002 5 127551 599753
 232 15.00 00032200 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.

2216 Rev. 8/4/97





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 6

LLI Sample No. WW 2862445

Collected: 1/22/98 at 14:40 by AL

Submitted: 1/23/98 Reported: 2/19/98

Discard: 2/27/98

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

P.O. 17092.002

Rel.

WP-GMM9-012298 Grab Water Sample

Ward Products Project No. 17092.002

WPMW9 SDG#: WAR12-04

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	N.D.	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	N.D.	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	200.	1.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	N.D.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97



LLI Sample No. WW 2862444

Collected: 1/22/98 at 14:10 by AL

Submitted: 1/23/98 Reported: 2/19/98

Discard: 2/27/98

WP-GMM10-012298 Grab Water Sample

Ward Products Project No. 17092.002

WPW10 SDG#: WAR12-03

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

P.O. 17092.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	0.0146 J	0.0066	mg/l
1755	Lead	N.D.	0.021	mg/l
1772	Zinc	0.114	0.0090	mg/l
7061	Nickel TR	0.0017 J	0.0016	mg/l
8255	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	7.6 J	2.6	mg/l
0279	Turbidity	28.7	0.12	N T U
1446	Hexavalent Chromium	0.0071	0.00050	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
21:11:54 D 0002 5 127551 599753
232 15.00 00032200 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. WW 2862444

Collected: 1/22/98 at 14:10 by AL

Submitted: 1/23/98 Reported: 2/19/98

Discard: 2/27/98

WP-GMW10-012298 Grab Water Sample

Ward Products Project No. 17092.002

WPW10 SDG#: WAR12-03

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

P.O. 17092.002

Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIMIT	UNITS
PPL + Xylene (total) by 8240				
1258	Chloromethane	N.D.	6.	ug/l
1257	Bromomethane	N.D.	6.	ug/l
3492	Vinyl Chloride	N.D.	4.	ug/l
3494	Chloroethane	N.D.	6.	ug/l
3495	Acrolein	N.D.	80.	ug/l
3496	Acrylonitrile	N.D.	20.	ug/l
3497	Methylene Chloride	N.D.	4.	ug/l
1264	Trichlorofluoromethane	N.D.	4.	ug/l
3500	1,1-Dichloroethene	7. J	2.	ug/l
3501	1,1-Dichloroethane	N.D.	4.	ug/l
3503	Chloroform	5. J	2.	ug/l
3504	1,2-Dichloroethane	N.D.	4.	ug/l
3505	1,1,1-Trichloroethane	N.D.	2.	ug/l
3506	Carbon Tetrachloride	N.D.	2.	ug/l
3508	Bromodichloromethane	N.D.	2.	ug/l
3523	1,1,2,2-Tetrachloroethane	N.D.	4.	ug/l
3509	1,2-Dichloropropane	N.D.	2.	ug/l
3510	trans-1,3-Dichloropropene	N.D.	2.	ug/l
3511	Trichloroethene	2,900.	20.	ug/l
3512	Dibromochloromethane	N.D.	4.	ug/l
3513	1,1,2-Trichloroethane	N.D.	4.	ug/l
3515	Benzene	N.D.	2.	ug/l
3516	cis-1,3-Dichloropropene	N.D.	2.	ug/l
3645	2-Chloroethyl Vinyl Ether	N.D.	4.	ug/l
3518	Bromoform	N.D.	2.	ug/l
3522	Tetrachloroethene	8. J	2.	ug/l
3524	Toluene	N.D.	4.	ug/l
3525	Chlorobenzene	N.D.	2.	ug/l
3526	Ethylbenzene	N.D.	4.	ug/l
3529	Xylene (total)	N.D.	2.	ug/l
5780	trans-1,2-Dichloroethene	6. J	4.	ug/l
6268	cis-1,2-Dichloroethene	39.	4.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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

See reverse side for explanation of symbols and abbreviations

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



LLI Sample No. WW 2862446

Collected: 1/22/98 at 15:15 by AL

Submitted: 1/23/98 Reported: 2/19/98

Discard: 2/27/98

WP-GMM11-012298 Grab Water Sample

Ward Products Project No. 17092.002

WPW11 SDG#: WAR12-05*

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

P.O. 17092.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1755	Lead	N.D.	0.021	mg/l
1772	Zinc	0.0104 J	0.0090	mg/l
7061	Nickel TR	N.D.	0.0016	mg/l
8255	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	4.4 J	2.6	mg/l
0279	Turbidity	35.8	0.12	N T U
1446	Hexavalent Chromium	N.D.	0.00050	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
21:13:41 D 0002 5 127551 599753
232 15.00 00032200 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. WW 2862446

Collected: 1/22/98 at 15:15 by AL

Submitted: 1/23/98 Reported: 2/19/98

Discard: 2/27/98

WP-GMW11-012298 Grab Water Sample

Ward Products Project No. 17092.002

WPW11 SDG#: WAR12-05*

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

P.O. 17092.002

Rel.

AS RECEIVED

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

1258	Chloromethane	N.D.	3.	ug/l
1257	Bromomethane	N.D.	3.	ug/l
3492	Vinyl Chloride	N.D.	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	N.D.	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	N.D.	1.	ug/l
3512	Dibromochloromethane	N.D.	2.	ug/l
3513	1,1,2-Trichloroethane	N.D.	2.	ug/l
3515	Benzene	N.D.	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	N.D.	2.	ug/l
3525	Chlorobenzene	N.D.	1.	ug/l
3526	Ethylbenzene	N.D.	2.	ug/l
3529	Xylene (total)	N.D.	1.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	2.	ug/l
6268	cis-1,2-Dichloroethene	N.D.	2.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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. Luckenbiller, B.S.
 Group Leader, GC/MS Volatiles



LLI Sample No. WW 2862443

Collected: 1/22/98 by AL

Submitted: 1/23/98 Reported: 2/19/98

Discard: 2/27/98

WP-GWDUP-012298 Grab Water Sample

Ward Products Project No. 17092.002

WPWDP SDG#: WAR12-02

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

P.O. 17092.002
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1508	PPL + Xylene (total) by 8240			See Page 2
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	0.0081 J	0.0066	mg/l
1755	Lead	N.D.	0.021	mg/l
1772	Zinc	0.076	0.0090	mg/l
7061	Nickel TR	0.0047 J	0.0016	mg/l
8255	Total Cyanide (water)	N.D.	0.0040	mg/l
0206	Total Suspended Solids	31.2	2.6	mg/l
0279	Turbidity	18.7	0.12	N T U
1446	Hexavalent Chromium	0.00431J	0.00050	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
21:10:59 D 0002 5 127551 599753
232 15.00 00032200 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 7

LLI Sample No. WW 2862443
Collected: 1/22/98 by AL

Submitted: 1/23/98 Reported: 2/19/98
Discard: 2/27/98

WP-GNDUP-012298 Grab Water Sample

Ward Products Project No. 17092.002
WPWDP SDG#: WAR12-02

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

P.O. 17092.002
Rel.

AS RECEIVED

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

PPL + Xylene (total) by 8240

1258	Chloromethane	N.D.	60.	ug/l
1257	Bromomethane	N.D.	60.	ug/l
3492	Vinyl Chloride	N.D.	40.	ug/l
3494	Chloroethane	N.D.	60.	ug/l
3495	Acrolein	N.D.	800.	ug/l
3496	Acrylonitrile	N.D.	200.	ug/l
3497	Methylene Chloride	N.D.	40.	ug/l
1264	Trichlorofluoromethane	N.D.	40.	ug/l
3500	1,1-Dichloroethene	N.D.	20.	ug/l
3501	1,1-Dichloroethane	N.D.	40.	ug/l
3503	Chloroform	N.D.	20.	ug/l
3504	1,2-Dichloroethane	N.D.	40.	ug/l
3505	1,1,1-Trichloroethane	N.D.	20.	ug/l
3506	Carbon Tetrachloride	N.D.	20.	ug/l
3508	Bromodichloromethane	N.D.	20.	ug/l
3523	1,1,2,2-Tetrachloroethane	N.D.	40.	ug/l
3509	1,2-Dichloropropane	N.D.	20.	ug/l
3510	trans-1,3-Dichloropropene	N.D.	20.	ug/l
3511	Trichloroethene	26,000.	200.	ug/l
3512	Dibromochloromethane	N.D.	40.	ug/l
3513	1,1,2-Trichloroethane	N.D.	40.	ug/l
3515	Benzene	N.D.	20.	ug/l
3516	cis-1,3-Dichloropropene	N.D.	20.	ug/l
3645	2-Chloroethyl Vinyl Ether	N.D.	40.	ug/l
3518	Bromoform	N.D.	20.	ug/l
3522	Tetrachloroethene	210.	20.	ug/l
3524	Toluene	N.D.	40.	ug/l
3525	Chlorobenzene	N.D.	20.	ug/l
3526	Ethylbenzene	N.D.	40.	ug/l
3529	Xylene (total)	N.D.	20.	ug/l
5780	trans-1,2-Dichloroethene	N.D.	40.	ug/l
6268	cis-1,2-Dichloroethene	76.	J 40.	ug/l

2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

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



For Lancaster Laboratories use only
 Acct. # 8863 Sample # 2862442-46

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

Client: Normandean Assoc. Acct. #: _____
 Project Name/#: 17092.002 WARD PWSID #: _____
 Project Manager: AL LORSON P.O.# _____
 Sampler: AL LORSON / STEVE LEE Quote #: _____
 Name of state where samples were collected: NY

Matrix				Analysis Request										For lab use only	
4				5										FSC: _____	SCR #: 1106428

MAY 1998



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: 05/08/98

CLIENT'S SAMPLE ID: WP-GMMW1-050898

Date sample received: 05/08/98

YES sample #: 980508ALO1

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	3.2	mg/l	LS-L-18	05/09/98
Total Suspended Solids	EPA-160.2	36	mg/l	JF-E-43	05/11/98
Turbidity	EPA-180.1	45	ntu	LS-M-47	05/09/98
Chromium	EPA-200.7	3.3	mg/l	SM-I-1L-93	05/21/98
xylenes	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-12	05/11/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-12	05/11/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-12	05/11/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW1-050898

Date sample received: 05/08/98

AES sample #: 980508ALO1

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Trichloroethene	EPA-624	180	ug/l	AP-BQ-12	05/11/98
Benzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Toluene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GMMW1R-050898

Date sample received: 05/08/98

AES sample #: 980508ALO2

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.89	mg/l	LS-L-18	05/09/98
Total Suspended Solids	EPA-160.2	1.5	mg/l	JF-E-43	05/11/98
Turbidity	EPA-180.1	5.4	ntu	LS-M-47	05/09/98
Chromium	EPA-200.7	1.48	mg/l	SM-I-1L-93	05/21/98
Xylenes	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-12	05/11/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-12	05/11/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,2-Dichloroethene Total	EPA-624	7	ug/l	AP-BQ-12	05/11/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-12	05/11/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW1R-050898

Date sample received: 05/08/98

AES sample #: 980508ALO2

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Trichloroethene	EPA-624	180	ug/l	AP-BQ-12	05/11/98
Benzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Toluene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW6-050898

Date sample received: 05/08/98

AES sample #: 980508AL03

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.26	mg/l	LS-L-18	05/09/98
Total Suspended Solids	EPA-160.2	7.5	mg/l	JF-E-43	05/11/98
Turbidity	EPA-180.1	11	ntu	LS-M-47	05/09/98
Chromium	EPA-200.7	0.29	mg/l	SM-I-1L-93	05/21/98
Xylenes	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Acrolein	EPA-624	<2000	ug/l	AP-BQ-12	05/12/98
Acrylonitrile	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Chloromethane	EPA-624	<200	ug/l	AP-BQ-12	05/12/98
Bromomethane	EPA-624	<200	ug/l	AP-BQ-12	05/12/98
Vinyl Chloride	EPA-624	<200	ug/l	AP-BQ-12	05/12/98
Chloroethane	EPA-624	<200	ug/l	AP-BQ-12	05/12/98
Methylene Chloride	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Trichlorofluoromethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
1,1-Dichloroethene	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
1,1-Dichloroethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
1,2-Dichloroethene Total	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Chloroform	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
1,2 Dichloroethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
1,1,1-Trichloroethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Carbon Tetrachloride	EPA-624	<100	ug/l	AP-BQ-12	05/12/98



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: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW6-050898

Date sample received: 05/08/98

AES sample #: 980508ALO3

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
1,2-Dichloropropane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
t-1,3-Dichloropropene	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Trichloroethene	EPA-624	11,000	ug/l	AP-BQ-12	05/12/98
Benzene	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Dibromochloromethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
1,1,2-Trichloroethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
cis-1,3-Dichloropropene	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
2-Chloroethylvinylether	EPA-624	<200	ug/l	AP-BQ-12	05/12/98
Bromoform	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
1,1,2,2-Tetrachloroethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Tetrachloroethene	EPA-624	160	ug/l	AP-BQ-12	05/12/98
Toluene	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Chlorobenzene	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Ethylbenzene	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Dichlorodifluoromethane	EPA-624	<200	ug/l	AP-BQ-12	05/12/98



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: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW4R-050898

Date sample received: 05/08/98

AES sample #: 980508ALO4

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.03	mg/l	LS-L-18	05/09/98
Total Suspended Solids	EPA-160.2	29	mg/l	JF-E-43	05/11/98
Turbidity	EPA-180.1	34	ntu	LS-M-47	05/09/98
Chromium	EPA-200.7	0.034	mg/l	SM-I-1L-93	05/21/98
Hylenes	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Acrolein	EPA-624	<10000	ug/l	AP-BQ-12	05/12/98
Acrylonitrile	EPA-624	<2500	ug/l	AP-BQ-12	05/12/98
Chloromethane	EPA-624	<1000	ug/l	AP-BQ-12	05/12/98
Bromomethane	EPA-624	<1000	ug/l	AP-BQ-12	05/12/98
Vinyl Chloride	EPA-624	<1000	ug/l	AP-BQ-12	05/12/98
Chloroethane	EPA-624	<1000	ug/l	AP-BQ-12	05/12/98
Methylene Chloride	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Trichlorofluoromethane	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
1,1-Dichloroethene	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
1,1-Dichloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
1,2-Dichloroethene Total	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Chloroform	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
1,2 Dichloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
1,1,1-Trichloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Carbon Tetrachloride	EPA-624	<500	ug/l	AP-BQ-12	05/12/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW4R-050898

Date sample received: 05/08/98

AES sample #: 980508ALO4

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
1,2-Dichloropropane	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
t-1,3-Dichloropropene	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Trichloroethene	EPA-624	22,000	ug/l	AP-BQ-12	05/12/98
Benzene	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Dibromochloromethane	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
1,1,2-Trichloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
cis-1,3-Dichloropropene	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
2-Chloroethylvinylether	EPA-624	<1000	ug/l	AP-BQ-12	05/12/98
Bromoform	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
1,1,2,2-Tetrachloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Tetrachloroethene	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Toluene	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Chlorobenzene	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Ethylbenzene	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Dichlorodifluoromethane	EPA-624	<1000	ug/l	AP-BQ-12	05/12/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW2-050898

Date sample received: 05/08/98

AES sample #: 980508ALO5

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.81	mg/l	LS-L-18	05/09/98
Total Suspended Solids	EPA-160.2	2.0	mg/l	JF-E-43	05/11/98
Turbidity	EPA-180.1	5.8	ntu	LS-M-47	05/09/98
Chromium	EPA-200.7	1.81	mg/l	SM-I-1L-93	05/21/98
Xylenes	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-12	05/12/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-12	05/12/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-12	05/12/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-12	05/12/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-12	05/12/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-12	05/12/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW2-050398

Date sample received: 05/08/98

AES sample #: 980508ALO5

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Trichloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Benzene	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-EQ-12	05/12/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-12	05/12/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Toluene	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-12	05/12/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-12	05/12/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWDUP-050898

Date sample received: 05/08/98

AES sample #: 980508ALO6

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.02	mg/l	LS-L-18	05/09/98
Total Suspended Solids	EPA-160.2	31	mg/l	JF-E-43	05/11/98
Turbidity	EPA-180.1	53	ntu	LS-M-47	05/09/98
Chromium	EPA-200.7	0.02	mg/l	SM-I-1L-93	05/21/98
Xylenes	EPA-624	<500	ug/l	AP-BQ-12	05/12/98
Acrolein	EPA-624	<10000	ug/l	AP-BQ-12	05/15/98
Acrylonitrile	EPA-624	<2500	ug/l	AP-BQ-12	05/15/98
Chloromethane	EPA-624	<1000	ug/l	AP-BQ-12	05/15/98
Bromomethane	EPA-624	<1000	ug/l	AP-BQ-12	05/15/98
Vinyl Chloride	EPA-624	<1000	ug/l	AP-BQ-12	05/15/98
Chloroethane	EPA-624	<1000	ug/l	AP-BQ-12	05/15/98
Methylene Chloride	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Trichlorofluoromethane	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
1,1-Dichloroethene	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
1,1-Dichloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
1,2-Dichloroethene Total	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Chloroform	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
1,2 Dichloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
1,1,1-Trichloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Carbon Tetrachloride	EPA-624	<500	ug/l	AP-BQ-12	05/15/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWDUP-050898

Date sample received: 05/08/98

AES sample #: 980508ALO6

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
1,2-Dichloropropane	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
trans-1,3-Dichloropropene	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Trichloroethene	EPA-624	28,000	ug/l	AP-BQ-12	05/15/98
Benzene	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Dibromochloromethane	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
1,1,2-Trichloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
cis-1,3-Dichloropropene	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
2-Chloroethylvinylether	EPA-624	<1000	ug/l	AP-BQ-12	05/15/98
Bromoform	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
1,1,2,2-Tetrachloroethane	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Tetrachloroethene	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Toluene	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Chlorobenzene	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Ethylbenzene	EPA-624	<500	ug/l	AP-BQ-12	05/15/98
Dichlorodifluoromethane	EPA-624	<1000	ug/l	AP-BQ-12	05/15/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW4-050898

Date sample received: 05/08/98

AES sample #: 980508ALO7

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.10	mg/l	LS-L-18	05/09/98
Total Suspended Solids	EPA-160.2	5.0	mg/l	JF-E-43	05/11/98
Turbidity	EPA-180.1	7.1	ntu	LS-M-47	05/09/98
Chromium	EPA-200.7	0.11	mg/l	SM-I-1L-93	05/21/98
Xylenes	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-12	05/11/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-12	05/11/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-12	05/11/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW4-050398

Date sample received: 05/08/98

AES sample #: 980508ALO7

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Trichloroethene	EPA-624	300	ug/l	AP-BQ-12	05/11/98
Benzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Toluene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98



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CLIENT: Normandeau Associates

Date Sampled: 05/08/98

CLIENT'S SAMPLE ID: WP-GWMW10-050898

Date sample received: 05/08/98

AES sample #: 980508AL08

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.09	mg/l	LS-L-18	05/09/98
Total Suspended Solids	EPA-160.2	83	mg/l	JF-E-43	05/11/98
Turbidity	EPA-180.1	74	ntu	LS-M-47	05/09/98
Chromium	EPA-200.7	0.094	mg/l	SM-I-1L-93	05/21/98
Xylenes	EPA-624	<50	ug/l	AP-BQ-12	05/12/98
Acrolein	EPA-624	<1000	ug/l	AP-BQ-12	05/12/98
Acrylonitrile	EPA-624	<250	ug/l	AP-BQ-12	05/12/98
Chloromethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Bromomethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Vinyl Chloride	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Chloroethane	EPA-624	<100	ug/l	AP-BQ-12	05/12/98
Methylene Chloride	EPA-624	<50	ug/l	AP-BQ-12	05/12/98
Trichlorofluoromethane	EPA-624	<50	ug/l	AP-BQ-12	05/12/98
1,1-Dichloroethene	EPA-624	<50	ug/l	AP-BQ-12	05/12/98
1,1-Dichloroethane	EPA-624	<50	ug/l	AP-BQ-12	05/12/98
1,2-Dichloroethene Total	EPA-624	<50	ug/l	AP-BQ-12	05/12/98
Chloroform	EPA-624	<50	ug/l	AP-BQ-12	05/12/98
1,2 Dichloroethane	EPA-624	<50	ug/l	AP-BQ-12	05/12/98
1,1,1-Trichloroethane	EPA-624	<50	ug/l	AP-BQ-12	05/12/98
Carbon Tetrachloride	EPA-624	<50	ug/l	AP-BQ-12	05/12/98



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: Trip Blank

AES sample #: 980508AL11

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

MATRIX: Water

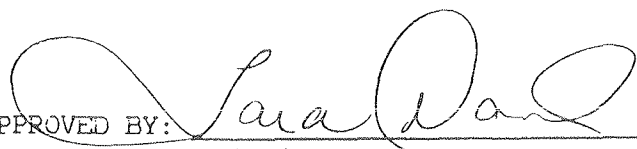
Date Sampled: 05/08/98

Date sample received: 05/08/98

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>
Benzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-12	05/11/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Toluene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-12	05/11/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-12	05/11/98

APPROVED BY: 

Report date: 05/21/98



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Albany, New York 12207
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CHAIN OF CUSTODY RECORD

CLIENT NAME Normundou Associates		PROJECT NAME (Location) Ward Products Amsterdam NY		SAMPLERS: (Names) Al Larson / Steve Lee				
ADDRESS 25 NASHUA Road Bedford NH 03110		PO NUMBER 980427T406		SAMPLERS: (Signature) 				
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	COM	GRAB		
980508AL01	WP-GWMW1-050898	5/8/98	1139	A P	GW	X	4	Cr, Cr+6 TSS, Turbidity, VOCs
AL02	WP-GWMW1R-050898	5/8/98	1208	A P	GW	X	4	SAME
AL03	WP-GWMW6-050898	5/8/98	1235	A P	GW	X	4	SAME
AL04	WP-GWMW4R-050898	5/8/98	1325	A P	GW	X	4	SAME
AL05	WP-GWMW2-050898	5/8/98	1300	A P	GW	X	4	SAME
AL06	WP-GWDUP-050898	5/8/98	—	A P	GW	X	4	SAME
AL07	WP-GWMW4-050898	5/8/98	1403	A P	GW	X	4	SAME
AL08	WP-GWMW10-050898	5/8/98	1427	A P	GW	X	4	SAME
AL09	WP-GWMW9-050898	5/8/98	1450	A P	GW	X	4	SAME
AL10	WP-GWMW3-050898	5/8/98	1513	A P	GW	X	4	SAME
AL11	Tr.p Blank			A P	WA	X	1	8 VOC's
				A P				
				A P				
				A P				
Turnaround Time: HEX CHROME (24 HOURS)			Regular TURNAROUND		Laboratory Approval:			
Relinquished by: (Signature) 		Received by: (Signature)			Date/Time 5/8/98 1653			
Relinquished by: (Signature)		Received by: (Signature)			Date/Time 			
Relinquished by: (Signature)		Received by: (Signature)			Date/Time 			
Dispatched by: (Signature)		Date/Time 		Received by Laboratory by: 		Date/Time 5/8/98 4:53		
Method of Shipment: Drop Off		Send Report To: AL LARSON		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

Adirondack Environmental Services, Inc.



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LABORATORY REPORT

for

Normandeau Associates
25 Nashua Road
Bedford, NH 03102

Attention: Al Larson

Purchase Order #: 980427T406

Report date: 05/26/98
Number of samples analyzed: 8
AES Project ID: 980507A0
Invoice #: 187342

ELAP ID#: 10709

AIHA ID#: 7866

Page 1



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-SWDN-050798

Date sample received: 05/08/98

AES sample #: 980507A001

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.02	mg/l	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	3.0	mg/l	JF-E-42	05/11/98
Turbidity	EPA-180.1	6.8	ntu	LS-H-46	05/08/98
Chromium	EPA-200.7	0.037	mg/l	SM-I-1L-94	05/22/98
Xylenes	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-10	05/08/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-SWDN-050798

Date sample received: 05/08/98

AES sample #: 980507A001

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Benzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Toluene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-SWUP-050798

Date sample received: 05/08/98

AES sample #: 980507A002

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	5.0	mg/l	JF-E-42	05/11/98
Turbidity	EPA-180.1	11	ntu	LS-H-46	05/08/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-1L-94	05/22/98
Xylenes	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-10	05/08/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-SWUP-050798

Date sample received: 05/08/98

AES sample #: 980507A002

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Benzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Toluene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-GWMW7-050798

Date sample received: 05/08/98

AES sample #: 980507A003

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.18	mg/l	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	9.0	mg/l	JF-E-42	05/11/98
Turbidity	EPA-180.1	7.5	ntu	LS-H-46	05/08/98
Chromium	EPA-200.7	0.188	mg/l	SM-I-1L-94	05/22/98
Xylenes	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Acrolein	EPA-624	<1000	ug/l	AP-BQ-10	05/08/98
Acrylonitrile	EPA-624	<250	ug/l	AP-BQ-10	05/08/98
Chloromethane	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Bromomethane	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Vinyl Chloride	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Chloroethane	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Methylene Chloride	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Trichlorofluoromethane	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethene	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethane	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
1,2-Dichloroethene Total	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Chloroform	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
1,2 Dichloroethane	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
1,1,1-Trichloroethane	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Carbon Tetrachloride	EPA-624	<50	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-GWMW7-050798

Date sample received: 05/08/98

AES sample #: 980507A003

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
1,2-Dichloropropane	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
t-1,3-Dichloropropene	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Trichloroethene	EPA-624	730	ug/l	AP-BQ-10	05/08/98
Benzene	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Dibromochloromethane	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
1,1,2-Trichloroethane	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
cis-1,3-Dichloropropene	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
2-Chloroethylvinylether	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Bromoform	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
1,1,2,2-Tetrachloroethane	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Tetrachloroethene	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Toluene	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Chlorobenzene	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Ethylbenzene	EPA-624	<50	ug/l	AP-BQ-10	05/08/98
Dichlorodifluoromethane	EPA-624	<100	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-Matrix Spk-050798

Date sample received: 05/08/98

AES sample #: 980507A004

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	103	%	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	99	%	JF-E-43	05/11/98
Turbidity	EPA-180.1	91	%	LS-H-46	05/08/98
Chromium	EPA-200.7	88.5	%	SM-I-1L-94	05/22/98
1,1-Dichloroethene	EPA-624	130	%	AP-BA-10	05/08/98
Trichloroethene	EPA-624	108	%	AP-BA-10	05/08/98
Chlorobenzene	EPA-624	84	%	AP-BA-10	05/08/98
Toluene	EPA-624	92	%	AP-BA-10	05/08/98
Benzene	EPA-624	100	%	AP-BA-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-Mat.SpkDup-050798

Date sample received: 05/08/98

AES sample #: 980507A005

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<1	%	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	5.1	%	JF-E-42	05/11/98
Turbidity	EPA-180.1	2.7	%	LS-H-47	05/08/98
Chromium	EPA-200.7	1.7	%	SM-I-1L-94	05/22/98
1,1-Dichloroethene	EPA-624	<1	%	AP-BA-10	05/08/98
Trichloroethene	EPA-624	20	%	AP-BA-10	05/08/98
Chlorobenzene	EPA-624	10.0	%	AP-BA-10	05/08/98
Toluene	EPA-624	9.1	%	AP-BA-10	05/08/98
Benzene	EPA-624	2.0	%	AP-BA-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-GWMW8-050798

Date sample received: 05/08/98

AES sample #: 980507A006

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	167	mg/l	JF-E-42	05/11/98
Turbidity	EPA-180.1	180	ntu	LS-H-47	05/08/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-1L-94	05/22/98
Xylenes	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-10	05/08/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloroethene Total	EPA-624	6	ug/l	AP-BQ-10	05/08/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-GWMW8-050798

Date sample received: 05/08/98

AES sample #: 980507A006

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichloroethene	EPA-624	250	ug/l	AP-BQ-10	05/08/98
Benzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Toluene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-GMMW11-050798

Date sample received: 05/08/98

AES sample #: 980507A007

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	3.5	mg/l	JF-E-42	05/11/98
Turbidity	EPA-180.1	6.5	ntu	LS-H-47	05/08/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-1L-94	05/22/98
Xylenes	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-10	05/08/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-GWMW11-050798

Date sample received: 05/08/98

AES sample #: 980507A007

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/BK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Benzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Toluene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-GWMW5-050798

Date sample received: 05/08/98

AES sample #: 980507A008

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	5.0	mg/l	JF-E-42	05/11/98
Turbidity	EPA-180.1	7.8	ntu	LS-H-47	05/08/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-1L-94	05/22/98
xylenes	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-10	05/08/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chloroform	EPA-624	10	ug/l	AP-BQ-10	05/08/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-GWMW5-050798

Date sample received: 05/08/98

AES sample #: 980507A008

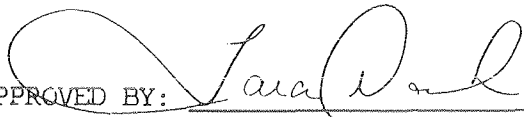
Samples taken by: Larson/Lee

Location: Ward, Amsterdam
grab

MATRIX: Ground Water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichloroethene	EPA-624	180	ug/l	AP-BQ-10	05/08/98
Benzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Toluene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98

APPROVED BY: 

Report date: 05/26/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-SWDN-050798

Date sample received: 05/08/98

AES sample #: 980507A001

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.02	mg/l	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	3.0	mg/l	JF-E-42	05/11/98
Turbidity	EPA-180.1	6.8	ntu	LS-H-46	05/08/98
Chromium	EPA-200.7	0.037	mg/l	SM-I-1L-94	05/22/98
Xylenes	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-10	05/08/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-SWDN-050798

Date sample received: 05/08/98

AES sample #: 980507A001

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Benzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Toluene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-SWUP-050798

Date sample received: 05/08/98

AES sample #: 980507A002

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-L-17	05/08/98
Total Suspended Solids	EPA-160.2	5.0	mg/l	JF-E-42	05/11/98
Turbidity	EPA-180.1	11	ntu	LS-H-46	05/08/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-1L-94	05/22/98
Xylenes	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Acrolein	EPA-624	<100	ug/l	AP-BQ-10	05/08/98
Acrylonitrile	EPA-624	<25	ug/l	AP-BQ-10	05/08/98
Chloromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromomethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Vinyl Chloride	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Chloroethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Methylene Chloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichlorofluoromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1-Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chloroform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2 Dichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Carbon Tetrachloride	EPA-624	<5	ug/l	AP-BQ-10	05/08/98



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CLIENT: Normandeau Associates

Date Sampled: 05/07/98

CLIENT'S SAMPLE ID: WP-SWUP-050798

Date sample received: 05/08/98

AES sample #: 980507A002

Samples taken by: Larson/Lee

Location: Ward, Amsterdam

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,2-Dichloropropane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
trans-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Trichloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Benzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dibromochloromethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	AP-BQ-10	05/08/98
Bromoform	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Tetrachloroethene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Toluene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Chlorobenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Ethylbenzene	EPA-624	<5	ug/l	AP-BQ-10	05/08/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	AP-BQ-10	05/08/98



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CHAIN OF CUSTODY RECORD

CLIENT NAME NORMANDEAU ASSOCIATES	PROJECT NAME (Location) WARD, AMSTERDAM	SAMPLERS: (Names) AL LARSON / STEVE LEE
ADDRESS 25 NASHUA ROAD BEDFORD NH 03110	PO NUMBER 980427T406	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		
980507 A001	WP-SWDN-050798	5/7/98	1345	A P	SP SW	X	4	Cr, Cr ⁶⁺ , TSS, TURB VOCs
A002	WP-SWUP-050798	5/7/98	1418	A P	SP SW	X	4	SAME
A003	WP-GWMW7-050798	5/7/98	1643	A P	GW	X	4	SAME
A004	WP-Matrix Spike-050798	5/7/98	1650	A P	GW	X	4	SAME
A005	WP-Matrix Spike Duplicate-050798	5/7/98	1655	A P	GW	X	4	SAME
A006	WP-GWMW8-050798	5/7/98	1718	A P	GW	X	4	SAME
A007	WP-GWMW11-050798	5/7/98	1741	A P	GW	X	4	SAME
A008	WP-GWMW5-050798	5/7/98	1807	A P	GW	X	4	SAME
				A P				
				A P				
				A P				
				A P				
				A P				
				A P				
				A P				

Turnaround Time: Hex Chromium (24 hrs)		REGULAR TURNAROUND		Laboratory Approval:	
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature)		Date/Time 5/8/98 19:18		
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>Kenneth S. Fuller</i>		Date/Time 5/7/98 19:18 / 5/7/98 19:12	
Method of Shipment: Drop Off	Send Report To: AL LARSON		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

Adirondack Environmental Services, Inc.

AUGUST 1998



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWMW1R-082698

Date sample received: 08/27/98

AES sample #: 980826AY01

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	1.2	mg/l	LS-L-33	08/27/98
Total Suspended Solids	EPA-160.2	2.5	mg/l	SH-G-48	08/27/98
Turbidity	EPA-180.1	8.5	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	0.993	mg/l	SM-I-2C100	09/02/98
Xylenes	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<100	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	29	ug/l	MG-BR-7	09/01/98
Chloroform	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	11	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWW1R-082698

Date sample received: 08/27/98

AES sample #: 980826AY01

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Trichloroethene	EPA-624	280	ug/l	MG-BR-7	09/01/98
Benzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Bromoform	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Toluene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWMW2-082698

Date sample received: 08/27/98

AES sample #: 980826AY02

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.78	mg/l	LS-L-33	08/27/98
Total Suspended Solids	EPA-160.2	36	mg/l	SH-G-48	08/27/98
Turbidity	EPA-180.1	68	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	0.717	mg/l	SM-I-2C100	09/02/98
Xylenes	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<100	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Chloroform	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWMW2-082698

Date sample received: 08/27/98

AES sample #: 980826AY02

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Trichloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Benzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Bromoform	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Toluene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWMW3-082698

Date sample received: 08/27/98

AES sample #: 980826AY03

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.02	mg/l	LS-L-33	08/27/98
Total Suspended Solids	EPA-160.2	93	mg/l	SH-G-48	08/27/98
Turbidity	EPA-180.1	75	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2C100	09/02/98
Xylenes	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<100	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Chloroform	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWMW3-082698

Date sample received: 08/27/98

AES sample #: 980826AY03

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Trichloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Benzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Bromoform	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Toluene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWMW4-082698

Date sample received: 08/27/98

AES sample #: 980826AY04

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.10	mg/l	LS-L-33	08/27/98
Total Suspended Solids	EPA-160.2	10	mg/l	SH-G-48	08/27/98
Turbidity	EPA-180.1	9.3	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	0.070	mg/l	SM-I-2C100	09/02/98
Xylenes	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<250	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<62	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Chloroethane	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<12	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<12	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethane	EPA-624	<12	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Chloroform	EPA-624	<12	ug/l	MG-BR-7	09/01/98
1,2 Dichloroethane	EPA-624	<12	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	<12	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWTW4-082698

Date sample received: 08/27/98

AES sample #: 980826AY04

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<12	ug/l	MG-BR-7	09/01/98
1,2-Dichloropropane	EPA-624	<12	ug/l	MG-BR-7	09/01/98
t-1,3-Dichloropropene	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Trichloroethene	EPA-624	400	ug/l	MG-BR-7	09/01/98
Benzene	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Dibromochloromethane	EPA-624	<12	ug/l	MG-BR-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<12	ug/l	MG-BR-7	09/01/98
cis-1,3-Dichloropropene	EPA-624	<12	ug/l	MG-BR-7	09/01/98
2-Chloroethylvinylether	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Bromoform	EPA-624	<12	ug/l	MG-BR-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Tetrachloroethene	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Toluene	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Chlorobenzene	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Ethylbenzene	EPA-624	<12	ug/l	MG-BR-7	09/01/98
Dichlorodifluoromethane	EPA-624	<25	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WF-GWMW4R-082698

Date sample received: 08/27/98

AES sample #: 980826AY05

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.03	mg/l	LS-L-33	08/27/98
Total Suspended Solids	EPA-160.2	119	mg/l	SH-G-48	08/27/98
Turbidity	EPA-180.1	180	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	0.005	mg/l	SM-I-2C100	09/02/98
Xylenes	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<10000	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<2500	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Chloroethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Chloroform	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,2 Dichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	<500	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GW4R-082698

Date sample received: 08/27/98

AES sample #: 980826AY05

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,2-Dichloropropane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
t-1,3-Dichloropropene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Trichloroethene	EPA-624	17,000	ug/l	MG-BR-7	09/01/98
Benzene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Dibromochloromethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
cis-1,3-Dichloropropene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
2-Chloroethylvinylether	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Bromoform	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Tetrachloroethene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Toluene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Chlorobenzene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Ethylbenzene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Dichlorodifluoromethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWMW6-082698

Date sample received: 08/27/98

AES sample #: 980826AY06

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.18	mg/l	LS-L-33	08/27/98
Total Suspended Solids	EPA-160.2	120	mg/l	SH-G-48	08/27/98
Turbidity	EPA-180.1	150	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	0.142	mg/l	SM-I-2C100	09/02/98
Xylenes	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<10000	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<2500	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Chloroethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Chloroform	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,2 Dichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	<500	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWMW6-082698

Date sample received: 08/27/98

AES sample #: 980826AY06

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,2-Dichloropropane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
t-1,3-Dichloropropane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Trichloroethene	EPA-624	14,000	ug/l	MG-BR-7	09/01/98
Benzene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Dibromochloromethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
cis-1,3-Dichloropropane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
2-Chloroethylvinylether	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Bromoform	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Tetrachloroethene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Toluene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Chlorobenzene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Ethylbenzene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Dichlorodifluoromethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WF-GWMW9-082698

Date sample received: 08/27/98

AES sample #: 980826AY07

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-L-33	08/27/98
Total Suspended Solids	EPA-160.2	455	mg/l	SH-G-48	08/27/98
Turbidity	EPA-180.1	560	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2C100	09/02/98
Xylenes	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<100	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Chloroform	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWMW9-082698

Date sample received: 08/27/98

AES sample #: 980826AY07

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-ER-7	09/01/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-ER-7	09/01/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Trichloroethene	EPA-624	200	ug/l	MG-ER-7	09/01/98
Benzene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-ER-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-ER-7	09/01/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-ER-7	09/01/98
Bromoform	EPA-624	<5	ug/l	MG-ER-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Toluene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Chlorobenzene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Ethylbenzene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-ER-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWTW10-082698

Date sample received: 08/27/98

AES sample #: 980826AY08

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.05	mg/l	LS-L-33	08/27/98
Total Suspended Solids	EPA-160.2	63	mg/l	SH-G-48	08/27/98
Turbidity	EPA-180.1	85	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	0.021	mg/l	SM-I-2C100	09/02/98
Xylenes	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<2500	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<625	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<250	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<250	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<250	ug/l	MG-ER-7	09/01/98
Chloroethane	EPA-624	<250	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<125	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<125	ug/l	MG-ER-7	09/01/98
1,1-Dichloroethane	EPA-624	<125	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	<125	ug/l	MG-ER-7	09/01/98
Chloroform	EPA-624	<125	ug/l	MG-ER-7	09/01/98
1,2 Dichloroethane	EPA-624	<125	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	<125	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWW10-082698

Date sample received: 08/27/98

AES sample #: 980826AY08

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/BOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<125	ug/l	MG-BR-7	09/01/98
1,2-Dichloropropane	EPA-624	<125	ug/l	MG-BR-7	09/01/98
t-1,3-Dichloropropene	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Trichloroethene	EPA-624	5500	ug/l	MG-BR-7	09/01/98
Benzene	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Dibromochloromethane	EPA-624	<125	ug/l	MG-BR-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<125	ug/l	MG-BR-7	09/01/98
cis-1,3-Dichloropropene	EPA-624	<125	ug/l	MG-BR-7	09/01/98
2-Chloroethylvinylether	EPA-624	<250	ug/l	MG-BR-7	09/01/98
Bromoform	EPA-624	<125	ug/l	MG-BR-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Tetrachloroethene	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Toluene	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Chlorobenzene	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Ethylbenzene	EPA-624	<125	ug/l	MG-BR-7	09/01/98
Dichlorodifluoromethane	EPA-624	<250	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWDUP-082698

Date sample received: 08/27/98

AES sample #: 980826AYC9

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.03	mg/l	LS-L-33	08/27/98
Total Suspended Solids	EPA-160.2	114	mg/l	SH-G-48	08/27/98
Turbidity	EPA-180.1	220	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	0.008	mg/l	SM-I-2C100	09/02/98
Xylenes	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<10000	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<2500	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Chloroethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Chloroform	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,2 Dichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	<500	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: WP-GWDUP-082698

Date sample received: 08/27/98

AES sample #: 980826AYC9

Samples taken by: S.Lee/A. Larson Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,2-Dichloropropane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
t-1,3-Dichloropropene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Trichloroethene	EPA-624	23,000	ug/l	MG-BR-7	09/01/98
Benzene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Dibromochloromethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
cis-1,3-Dichloropropene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
2-Chloroethylvinylether	EPA-624	<1000	ug/l	MG-BR-7	09/01/98
Bromoform	EPA-624	<500	ug/l	MG-BR-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Tetrachloroethene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Toluene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Chlorobenzene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Ethylbenzene	EPA-624	<500	ug/l	MG-BR-7	09/01/98
Dichlorodifluoromethane	EPA-624	<1000	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/26/98

CLIENT'S SAMPLE ID: Trip Blank

Date sample received: 08/27/98

AES sample #: 980826AY10

Samples taken by: S.Lee/A. Larson Location: Ward Products
MATRIX: Water grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Xylenes	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Acrolein	EPA-624	<100	ug/l	MG-BR-7	09/01/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-7	09/01/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Chloroform	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Trichloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98



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CLIENT: Normandeau Associates
CLIENT'S SAMPLE ID: Trip Blank

Date Sampled: 08/26/98

Date sample received: 08/27/98

AES sample #: 980826AY10

Samples taken by: S. Lee/A. Larson Location: Ward Products
MATRIX: Water grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-ER-7	09/01/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-7	09/01/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-7	09/01/98
Bromoform	EPA-624	<5	ug/l	MG-ER-7	09/01/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Toluene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Chlorobenzene	EPA-624	<5	ug/l	MG-ER-7	09/01/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-7	09/01/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-7	09/01/98

APPROVED BY: 

Report date: 09/10/98



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CHAIN OF CUSTODY RECORD

CLIENT NAME Normandeau Assoc.	PROJECT NAME (Location) WARD Products Amsterdam, NY	SAMPLERS: (Names) Stephen Lee Al Larson
ADDRESS 25 NASHUA Road Bedford NH 03110	PO NUMBER 980427T406	SAMPLERS: (Signature) <i>Stephen Lee</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		
	WP-GWMW1-0826-98	8/26/98	A	GW		✓	4	HEX CHROME, Total Chrom PP VOCs, Xylene, TSS, Turbidi.
980826 AY01	WP-GWMW1R-082698	8/26/98	1225	GW		✓	4	
AY02	WP-GWMW2-082698	8/26/98	1255	GW		✓	4	
AY03	WP-GWMW3-082698	8/26/98	1750	GW		✓	4	
AY04	WP-GWMW4-082698	8/26/98	1655	GW		✓	4	
AY05	WP-GWMW4R-082698	8/26/98	1630	GW		✓	4	
AY06	WP-GWMW6-082698	8/26/98	1200	GW		✓	4	
AY07	WP-GWMW9-082698	8/26/98	1710	GW		✓	4	
AY08	WP-GWMW10-082698	8/26/98	1730	GW		✓	4	
AY09	WP-GWDWP-082698	8/26/98		GW		✓	4	
AY10	WP TRIP BLANK			WATER			1	

Turnaround Time: **HEX CHROME - 24 HOURS HOLD**
OTHERS: STANDARD TURNAROUND

Laboratory Approval:

Relinquished by: (Signature) <i>Al Larson</i>	Received by: (Signature)	Date/Time 8/26/98 2010	
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>Kenneth S Fuller</i>	Date/Time 8/26/98 20:13
Method of Shipment: DROP OFF	Send Report To: AL LARSON	Client Phone No.: 603-472-5411	

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

Adirondack Environmental Services, Inc.



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LABORATORY REPORT

for

Normandeau Associates
25 Nashua Road
Bedford, NH 03102

Attention: Al Larson

Purchase Order #: 980427T406

Report date: 09/11/98
Number of samples analyzed: 6
AES Project ID: 980825AA
Invoice #: 191141

ELAP ID#: 10709

AIHA ID#: 7866



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CLIENT: Normandeau Associates

Date Sampled: 08/25/98

CLIENT'S SAMPLE ID: WP-GWMW11-082597

Date sample received: 08/26/98

AES sample #: 980825AA01

Samples taken by: S. Lee

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-L-33	08/26/98
Total Suspended Solids	EPA-160.2	31	mg/l	SH-G-46	08/27/98
Turbidity	EPA-180.1	35	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2C-97	08/28/98
Xylenes	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Acrolein	EPA-624	<100	ug/l	MG-BR-6	08/28/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Chloroform	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-6	08/28/98



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CLIENT: Normandeau Associates

Date Sampled: 08/25/98

CLIENT'S SAMPLE ID: WP-GWMW11-082597

Date sample received: 08/26/98

AES sample #: 980825AA01

Samples taken by: S. Lee

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Trichloroethene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Benzene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Bromoform	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Toluene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW5-082597

AES sample #: 980825AA02

Samples taken by: S. Lee

MATRIX: Ground Water

Date Sampled: 08/25/98

Date sample received: 08/26/98

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	SM 3500 Cr D	<0.02	mg/l	LS-L-33	08/26/98
Total Suspended Solids	EPA-160.2	32	mg/l	SH-G-46	08/27/98
Turbidity	EPA-180.1	30	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2C-97	08/28/98
Xylenes	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Acrolein	EPA-624	<100	ug/l	MG-BR-6	08/28/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,2-Dichloroethene Total	EPA-624	38	ug/l	MG-BR-6	08/28/98
Chloroform	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-6	08/28/98



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CLIENT: Normandeau Associates

Date Sampled: 08/25/98

CLIENT'S SAMPLE ID: WP-GWMW5-082597

Date sample received: 08/26/98

AES sample #: 980825AA02

Samples taken by: S. Lee

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
t-1,3-Dichloropropane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Trichloroethene	EPA-624	290	ug/l	MG-BR-6	08/28/98
Benzene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
cis-1,3-Dichloropropane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Bromoform	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Toluene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98



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CLIENT: Normandeau Associates

Date Sampled: 08/25/98

CLIENT'S SAMPLE ID: WP-GWMW8-082597

Date sample received: 08/26/98

AES sample #: 980825AA03

Samples taken by: S. Lee

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-L-33	08/26/98
Total Suspended Solids	EPA-160.2	646	mg/l	SH-G-46	08/27/98
Turbidity	EPA-180.1	620	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2C-97	08/28/98
Xylenes	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Acrolein	EPA-624	<100	ug/l	MG-BR-6	08/28/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Chloroform	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-6	08/28/98



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CLIENT: Normandeau Associates

Date Sampled: 08/25/98

CLIENT'S SAMPLE ID: WP-GWMW3-032597

Date sample received: 08/26/98

AES sample #: 980825AA03

Samples taken by: S. Lee

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTESK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Trichloroethene	EPA-624	77	ug/l	MG-BR-6	08/28/98
Benzene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-6	08/28/98
Bromoform	EPA-624	<5	ug/l	MG-BR-6	08/28/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Toluene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-6	08/28/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-6	08/28/98



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CLIENT: Normandeau Associates

Date Sampled: 08/25/98

CLIENT'S SAMPLE ID: WP-GWMW7-082597

Date sample received: 08/26/98

AES sample #: 980825AA04

Samples taken by: S. Lee

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.08	mg/l	LS-L-33	08/26/98
Total Suspended Solids	EPA-160.2	840	mg/l	SH-G-46	08/27/98
Turbidity	EPA-180.1	590	ntu	LS-I-3	08/27/98
Chromium	EPA-200.7	0.057	mg/l	SM-I-2C-97	08/28/98
Xylenes	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Acrolein	EPA-624	<500	ug/l	MG-BR-6	08/28/98
Acrylonitrile	EPA-624	<125	ug/l	MG-BR-6	08/28/98
Chloromethane	EPA-624	<50	ug/l	MG-BR-6	08/28/98
Bromomethane	EPA-624	<50	ug/l	MG-BR-6	08/28/98
Vinyl Chloride	EPA-624	<50	ug/l	MG-BR-6	08/28/98
Chloroethane	EPA-624	<50	ug/l	MG-BR-6	08/28/98
Methylene Chloride	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BR-6	08/28/98
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BR-6	08/28/98
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BR-6	08/28/98
1,2-Dichloroethene Total	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Chloroform	EPA-624	<25	ug/l	MG-BR-6	08/28/98
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BR-6	08/28/98
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BR-6	08/28/98



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CLIENT: Normandeau Associates

Date Sampled: 08/25/98

CLIENT'S SAMPLE ID: WP-GWMW7-032597

Date sample received: 08/26/98

AES sample #: 980825AA04

Samples taken by: S. Lee

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<25	ug/l	MG-BR-6	08/28/98
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BR-6	08/28/98
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Trichloroethene	EPA-624	800	ug/l	MG-BR-6	08/28/98
Benzene	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Dibromochloromethane	EPA-624	<25	ug/l	MG-BR-6	08/28/98
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BR-6	08/28/98
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BR-6	08/28/98
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BR-6	08/28/98
Bromoform	EPA-624	<25	ug/l	MG-BR-6	08/28/98
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Tetrachloroethene	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Toluene	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Chlorobenzene	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Ethylbenzene	EPA-624	<25	ug/l	MG-BR-6	08/28/98
Dichlorodifluoromethane	EPA-624	<50	ug/l	MG-BR-6	08/28/98



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CLIENT: Normandeau Associates

Date Sampled: 08/25/98

CLIENT'S SAMPLE ID: WP-MS-082597

Date sample received: 08/26/98

AES sample #: 980825AA05

Samples taken by: S. Lee

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	94	%	LS-L-33	08/26/98
Total Suspended Solids	EPA-160.2	98	%	SH-G-46	08/27/98
Turbidity	EPA-180.1	90	%	LS-I-3	08/27/98
Chromium	EPA-200.7	98	%	SM-I-2C-97	08/28/98
1,1-Dichloroethene	EPA-624	92	%	MG-BR-6	09/01/98
Trichloroethene	EPA-624	118	%	MG-BR-6	09/01/98
Chlorobenzene	EPA-624	84	%	MG-BR-6	09/01/98
Toluene	EPA-624	80	%	MG-BR-6	09/01/98
Benzene	EPA-624	86	%	MG-BR-6	09/01/98



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CLIENT: Normandeau Associates

Date Sampled: 08/25/98

CLIENT'S SAMPLE ID: WP-MSD-082597

Date sample received: 08/26/98

AES sample #: 980825AA06

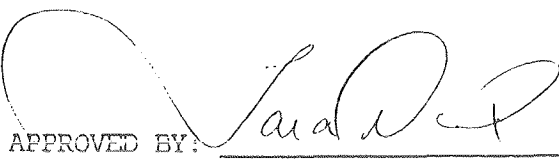
Samples taken by: S. Lee

Location: Ward Products

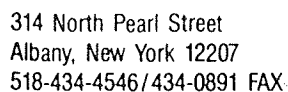
MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<1	%	LS-L-33	08/26/98
Total Suspended Solids	EPA-160.2	3.1	%	SH-G-47	08/27/98
Turbidity	EPA-180.1	3.5	%	LS-I-3	08/27/98
Chromium	EPA-200.7	<1	%	SM-I-2C-97	08/28/98
1,1-Dichloroethene	EPA-624	2	%	MG-BR-6	09/01/98
Trichloroethene	EPA-624	29	%	MG-BR-6	09/01/98
Chlorobenzene	EPA-624	2	%	MG-BR-6	09/01/98
Toluene	EPA-624	<1	%	MG-BR-6	09/01/98
Benzene	EPA-624	<1	%	MG-BR-6	09/01/98

APPROVED BY: 

Report date: 09/11/98



CHAIN OF CUSTODY RECORD

[illegible]

Adirondack Environmental Services, Inc.

NOVEMBER 1998



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CLIENT: Normandeau Associates

Date Sampled: 11/16/98

CLIENT'S SAMPLE ID: WPGW-MW4R-111698

Date sample received: 11/17/98

AES sample #: 981116AC01

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.03	mg/l	SH-L-47	11/17/98
Total Suspended Solids	EPA-160.2	37	mg/l	SH-I-7	11/18/98
Turbidity	EPA-180.1	32	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.015	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Acrolein	EPA-624	<25000	ug/l	MG-BR-37	11/23/98
Acrylonitrile	EPA-624	<6200	ug/l	MG-BR-37	11/23/98
Chloromethane	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Bromomethane	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Vinyl Chloride	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Chloroethane	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Methylene Chloride	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Trichlorofluoromethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1-Dichloroethene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1-Dichloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,2-Dichloroethene Total	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Chloroform	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,2 Dichloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1,1-Trichloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Carbon Tetrachloride	EPA-624	<1200	ug/l	MG-BR-37	11/23/98



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 11/16/98

CLIENT'S SAMPLE ID: WPGW-MW4R-111698

Date sample received: 11/17/98

AES sample #: 981116AC01

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,2-Dichloropropane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
t-1,3-Dichloropropene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Trichloroethene	EPA-624	28,000	ug/l	MG-BR-37	11/23/98
Benzene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Dibromochloromethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1,2-Trichloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
cis-1,3-Dichloropropene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
2-Chloroethylvinylether	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Bromoform	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1,2,2-Tetrachloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Tetrachloroethene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Toluene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Chlorobenzene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Ethylbenzene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Dichlorodifluoromethane	EPA-624	<2500	ug/l	MG-BR-37	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/16/98

CLIENT'S SAMPLE ID: WPGW-MW7-111698

Date sample received: 11/17/98

AES sample #: 981116AC02

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.07	mg/l	SH-L-47	11/17/98
Total Suspended Solids	EPA-160.2	65	mg/l	SH-I-7	11/18/98
Turbidity	EPA-180.1	56	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.079	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Acrolein	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Acrylonitrile	EPA-624	<120	ug/l	MG-BR-37	11/23/98
Chloromethane	EPA-624	<50	ug/l	MG-BR-37	11/23/98
Bromomethane	EPA-624	<50	ug/l	MG-BR-37	11/23/98
Vinyl Chloride	EPA-624	<50	ug/l	MG-BR-37	11/23/98
Chloroethane	EPA-624	<50	ug/l	MG-BR-37	11/23/98
Methylene Chloride	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BR-37	11/23/98
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BR-37	11/23/98
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BR-37	11/23/98
1,2-Dichloroethene Total	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Chloroform	EPA-624	<25	ug/l	MG-BR-37	11/23/98
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BR-37	11/23/98
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BR-37	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/16/98

CLIENT'S SAMPLE ID: WPGW-MW7-111698

Date sample received: 11/17/98

AES sample #: 981116ACC2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<25	ug/l	MG-BR-37	11/23/98
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BR-37	11/23/98
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Trichloroethene	EPA-624	360	ug/l	MG-BR-37	11/23/98
Benzene	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Dibromochloromethane	EPA-624	<25	ug/l	MG-BR-37	11/23/98
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BR-37	11/23/98
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BR-37	11/23/98
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BR-37	11/23/98
Bromoform	EPA-624	<25	ug/l	MG-BR-37	11/23/98
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Tetrachloroethene	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Toluene	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Chlorobenzene	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Ethylbenzene	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Dichlorodifluoromethane	EPA-624	<50	ug/l	MG-BR-37	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/16/98

CLIENT'S SAMPLE ID: WPGW-MW3-111698

Date sample received: 11/17/98

AES sample #: 981116AC03

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.03	mg/l	SH-L-47	11/17/98
Total Suspended Solids	EPA-160.2	171	mg/l	SH-I-7	11/18/98
Turbidity	EPA-180.1	210	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.021	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Acrolein	EPA-624	<100	ug/l	MG-BR-37	11/23/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-37	11/23/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-37	11/23/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-37	11/23/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-37	11/23/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-37	11/23/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-37	11/23/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-37	11/23/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-37	11/23/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Chloroform	EPA-624	<5	ug/l	MG-BR-37	11/23/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-37	11/23/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-37	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/16/98

CLIENT'S SAMPLE ID: WFGW-MW8-111698

Date sample received: 11/17/98

AES sample #: 981116AC03

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-37	11/23/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-37	11/23/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Trichloroethene	EPA-624	120	ug/l	MG-BR-37	11/23/98
Benzene	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-37	11/23/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-37	11/23/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-37	11/23/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-37	11/23/98
Bromoform	EPA-624	<5	ug/l	MG-BR-37	11/23/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Toluene	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-37	11/23/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-37	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/16/98

CLIENT'S SAMPLE ID: WPGW-DUP-111698

Date sample received: 11/17/98

AES sample #: 981116ACC4

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.02	mg/l	SH-L-47	11/17/98
Total Suspended Solids	EPA-160.2	13	mg/l	SH-I-7	11/18/98
Turbidity	EPA-180.1	14	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.014	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Acrolein	EPA-624	<25000	ug/l	MG-BR-37	11/23/98
Acrylonitrile	EPA-624	<6200	ug/l	MG-BR-37	11/23/98
Chloromethane	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Bromomethane	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Vinyl Chloride	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Chloroethane	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Methylene Chloride	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Trichlorofluoromethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1-Dichloroethene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1-Dichloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,2-Dichloroethene Total	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Chloroform	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,2 Dichloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1,1-Trichloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Carbon Tetrachloride	EPA-624	<1200	ug/l	MG-BR-37	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/16/98

CLIENT'S SAMPLE ID: WPGW-DUP-111698

Date sample received: 11/17/98

AES sample #: 981116ACO4

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,2-Dichloropropane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
t-1,3-Dichloropropene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Trichloroethene	EPA-624	23,000	ug/l	MG-BR-37	11/23/98
Benzene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Dibromochloromethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1,2-Trichloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
cis-1,3-Dichloropropene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
2-Chloroethylvinylether	EPA-624	<2500	ug/l	MG-BR-37	11/23/98
Bromoform	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
1,1,2,2-Tetrachloroethane	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Tetrachloroethene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Toluene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Chlorobenzene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Ethylbenzene	EPA-624	<1200	ug/l	MG-BR-37	11/23/98
Dichlorodifluoromethane	EPA-624	<2500	ug/l	MG-BR-37	11/23/98

APPROVED BY: 

Report date: 12/01/98



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

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CHAIN OF CUSTODY RECORD

CLIENT NAME Normandeau Associates	PROJECT NAME (Location) Ward Products	SAMPLERS: (Names) Stephen Lee, AILarson
ADDRESS 25 NAWYNA ROAD Bedford NH 03110	PO NUMBER 17092.002	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		
981116 AC01	WPGW-MW4R-111698	11/16/98	1650 P	GW		X	4	VOC, Toxics, HexCr, Turbidity, TSS
AC02	WPGW-MW7-111698	11/16/98	1620 P	GW		X	4	
AC03	WPGW-MW8-111698	11/16/98	1640 P	GW		X	4	
AC04	WPGW-DUP-111698	11/16/98	-	GW		X	4	
			A					
			P					
			A					
			P					
			A					
			P					
			A					
			P					
			A					
			P					
			A					
			P					
			A					
			P					

Turnaround Time: STANDARD	Laboratory Approval:
----------------------------------	----------------------

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature)	Date/Time 11/16/98 10:29	
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>M. L. P.</i>	Date/Time 11/16/98 6:29 PM
Method of Shipment: Hand Deliver	Send Report To: AI Larson	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

Adirondack Environmental Services, Inc.



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LABORATORY REPORT

for

Normandeau Associates
25 Nashua Road
Bedford, NH 03102

Attention: Al Larson

Purchase Order #: 17092-002

Report date: 12/07/98
Number of samples analyzed: 14
AES Project ID: 981117AE
Invoice #: 194193

ELAP ID#: 10709

AIHA ID#: 7866

Page 1



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-SWDN-111798

Date sample received: 11/18/98

AES sample #: 981117AEO1

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	<1	mg/l	SH-I-8	11/21/98
Turbidity	EPA-180.1	2.9	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.007	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Acrolein	EPA-624	<100	ug/l	MG-BR-41	11/20/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-41	11/20/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chloroform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-SWDN-111798

Date sample received: 11/18/98

AES sample #: 981117AEO1

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Benzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromoform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Toluene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW4-111798

Date sample received: 11/18/98

AES sample #: 981117AEO2

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.06	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	39	mg/l	SH-I-9	11/21/98
Turbidity	EPA-180.1	27	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.068	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Acrolein	EPA-624	<2000	ug/l	MG-BR-41	11/23/98
Acrylonitrile	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Chloromethane	EPA-624	<200	ug/l	MG-BR-41	11/23/98
Bromomethane	EPA-624	<200	ug/l	MG-BR-41	11/23/98
Vinyl Chloride	EPA-624	<200	ug/l	MG-BR-41	11/23/98
Chloroethane	EPA-624	<200	ug/l	MG-BR-41	11/23/98
Methylene Chloride	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Trichlorofluoromethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
1,1-Dichloroethene	EPA-624	<100	ug/l	MG-BR-41	11/23/98
1,1-Dichloroethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
1,2-Dichloroethene Total	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Chloroform	EPA-624	<100	ug/l	MG-BR-41	11/23/98
1,2 Dichloroethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
1,1,1-Trichloroethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Carbon Tetrachloride	EPA-624	<100	ug/l	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW4-111798

Date sample received: 11/18/98

AES sample #: 981117AEO2

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
1,2-Dichloropropane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
t-1,3-Dichloropropene	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Trichloroethene	EPA-624	3200	ug/l	MG-BR-41	11/23/98
Benzene	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Dibromochloromethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
1,1,2-Trichloroethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
cis-1,3-Dichloropropene	EPA-624	<100	ug/l	MG-BR-41	11/23/98
2-Chloroethylvinylether	EPA-624	<200	ug/l	MG-BR-41	11/23/98
Bromoform	EPA-624	<100	ug/l	MG-BR-41	11/23/98
1,1,2,2-Tetrachloroethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Tetrachloroethene	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Toluene	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Chlorobenzene	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Ethylbenzene	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Dichlorodifluoromethane	EPA-624	<200	ug/l	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW6-111798

Date sample received: 11/18/98

AES sample #: 981117AEO3

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.10	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	14	mg/l	SH-I-9	11/21/98
Turbidity	EPA-180.1	12	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.108	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Acrolein	EPA-624	<10000	ug/l	MG-BR-41	11/23/98
Acrylonitrile	EPA-624	<2500	ug/l	MG-BR-41	11/23/98
Chloromethane	EPA-624	<1000	ug/l	MG-BR-41	11/23/98
Bromomethane	EPA-624	<1000	ug/l	MG-BR-41	11/23/98
Vinyl Chloride	EPA-624	<1000	ug/l	MG-BR-41	11/23/98
Chloroethane	EPA-624	<1000	ug/l	MG-BR-41	11/23/98
Methylene Chloride	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Trichlorofluoromethane	EPA-624	<500	ug/l	MG-BR-41	11/23/98
1,1-Dichloroethene	EPA-624	<500	ug/l	MG-BR-41	11/23/98
1,1-Dichloroethane	EPA-624	<500	ug/l	MG-BR-41	11/23/98
1,2-Dichloroethene Total	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Chloroform	EPA-624	<500	ug/l	MG-BR-41	11/23/98
1,2 Dichloroethane	EPA-624	<500	ug/l	MG-BR-41	11/23/98
1,1,1-Trichloroethane	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Carbon Tetrachloride	EPA-624	<500	ug/l	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW6-111798

Date sample received: 11/18/98

AES sample #: 981117AEO3

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<500	ug/l	MG-BR-41	11/23/98
1,2-Dichloropropane	EPA-624	<500	ug/l	MG-BR-41	11/23/98
t-1,3-Dichloropropene	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Trichloroethene	EPA-624	10000	ug/l	MG-BR-41	11/23/98
Benzene	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Dibromochloromethane	EPA-624	<500	ug/l	MG-BR-41	11/23/98
1,1,2-Trichloroethane	EPA-624	<500	ug/l	MG-BR-41	11/23/98
cis-1,3-Dichloropropene	EPA-624	<500	ug/l	MG-BR-41	11/23/98
2-Chloroethylvinylether	EPA-624	<1000	ug/l	MG-BR-41	11/23/98
Bromoform	EPA-624	<500	ug/l	MG-BR-41	11/23/98
1,1,2,2-Tetrachloroethane	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Tetrachloroethene	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Toluene	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Chlorobenzene	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Ethylbenzene	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Dichlorodifluoromethane	EPA-624	<1000	ug/l	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW2-111798

Date sample received: 11/18/98

AES sample #: 981117AEO4

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	1.7	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	139	mg/l	SH-I-9	11/21/98
Turbidity	EPA-180.1	140	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	1.54	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Acrolein	EPA-624	<100	ug/l	MG-BR-41	11/20/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-41	11/20/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chloroform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW2-111798

Date sample received: 11/18/98

AES sample #: 981117AEO4

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Benzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromoform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Toluene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW5-111798

Date sample received: 11/18/98

AES sample #: 981117AEC5

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES/ REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	28	mg/l	SH-I-9	11/21/98
Turbidity	EPA-180.1	31	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.006	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Acrolein	EPA-624	<500	ug/l	MG-BR-41	11/24/98
Acrylonitrile	EPA-624	<120	ug/l	MG-BR-41	11/24/98
Chloromethane	EPA-624	<50	ug/l	MG-BR-41	11/24/98
Bromomethane	EPA-624	<50	ug/l	MG-BR-41	11/24/98
Vinyl Chloride	EPA-624	<50	ug/l	MG-BR-41	11/24/98
Chloroethane	EPA-624	<50	ug/l	MG-BR-41	11/24/98
Methylene Chloride	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BR-41	11/24/98
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BR-41	11/24/98
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BR-41	11/24/98
1,2-Dichloroethene Total	EPA-624	100	ug/l	MG-BR-41	11/24/98
Chloroform	EPA-624	<25	ug/l	MG-BR-41	11/24/98
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BR-41	11/24/98
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BR-41	11/24/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW5-111798

Date sample received: 11/18/98

AES sample #: 981117AEO5

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<25	ug/l	MG-BR-41	11/24/98
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BR-41	11/24/98
trans-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Trichloroethene	EPA-624	460	ug/l	MG-BR-41	11/24/98
Benzene	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Dibromochloromethane	EPA-624	<25	ug/l	MG-BR-41	11/24/98
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BR-41	11/24/98
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BR-41	11/24/98
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BR-41	11/24/98
Bromoform	EPA-624	<25	ug/l	MG-BR-41	11/24/98
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Tetrachloroethene	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Toluene	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Chlorobenzene	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Ethylbenzene	EPA-624	<25	ug/l	MG-BR-41	11/24/98
Dichlorodifluoromethane	EPA-624	<50	ug/l	MG-BR-41	11/24/98



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WPGW-MW1-111798

AES sample #: 981117AEO6

Samples taken by: Lee/Larson

MATRIX: Ground Water

Date Sampled: 11/17/98

Date sample received: 11/18/98

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	SM 3500 Cr D	19	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	602	mg/l	SH-I-9	11/21/98
Turbidity	EPA-180.1	600	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	16.1	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Acrolein	EPA-624	<1000	ug/l	MG-BR-41	11/23/98
Acrylonitrile	EPA-624	<250	ug/l	MG-BR-41	11/23/98
Chloromethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Bromomethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Vinyl Chloride	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Chloroethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Methylene Chloride	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Trichlorofluoromethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
1,1-Dichloroethene	EPA-624	<50	ug/l	MG-BR-41	11/23/98
1,1-Dichloroethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
1,2-Dichloroethene Total	EPA-624	60	ug/l	MG-BR-41	11/23/98
Chloroform	EPA-624	90	ug/l	MG-BR-41	11/23/98
1,2 Dichloroethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
1,1,1-Trichloroethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Carbon Tetrachloride	EPA-624	70	ug/l	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW1-111798

Date sample received: 11/18/98

AES sample #: 981117AEO6

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
1,2-Dichloropropane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
t-1,3-Dichloropropene	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Trichloroethene	EPA-624	700	ug/l	MG-BR-41	11/23/98
Benzene	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Dibromochloromethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
1,1,2-Trichloroethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
cis-1,3-Dichloropropene	EPA-624	<50	ug/l	MG-BR-41	11/23/98
2-Chloroethylvinylether	EPA-624	<100	ug/l	MG-BR-41	11/23/98
Bromoform	EPA-624	<50	ug/l	MG-BR-41	11/23/98
1,1,2,2-Tetrachloroethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Tetrachloroethene	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Toluene	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Chlorobenzene	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Ethylbenzene	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Dichlorodifluoromethane	EPA-624	<100	ug/l	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW1R-111798

Date sample received: 11/18/98

AES sample #: 981117AEO7

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	6.4	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	52	mg/l	SH-I-9	11/21/98
Turbidity	EPA-180.1	41	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	5.71	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Acrolein	EPA-624	<500	ug/l	MG-BR-41	11/23/98
Acrylonitrile	EPA-624	<120	ug/l	MG-BR-41	11/23/98
Chloromethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Bromomethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Vinyl Chloride	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Chloroethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Methylene Chloride	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BR-41	11/23/98
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
1,2-Dichloroethene Total	EPA-624	50	ug/l	MG-BR-41	11/23/98
Chloroform	EPA-624	30	ug/l	MG-BR-41	11/23/98
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Carbon Tetrachloride	EPA-624	65	ug/l	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW1R-111798

Date sample received: 11/18/98

AES sample #: 981117AEO7

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
t-1,3-Dichloropropane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Trichloroethene	EPA-624	550	ug/l	MG-BR-41	11/23/98
Benzene	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Dibromochloromethane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
cis-1,3-Dichloropropane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BR-41	11/23/98
Bromoform	EPA-624	<25	ug/l	MG-BR-41	11/23/98
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Tetrachloroethene	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Toluene	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Chlorobenzene	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Ethylbenzene	EPA-624	<25	ug/l	MG-BR-41	11/23/98
Dichlorodifluoromethane	EPA-624	<50	ug/l	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW11-111798

Date sample received: 11/18/98

AES sample #: 981117AEOS

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	21	mg/l	SH-I-9	11/21/98
Turbidity	EPA-180.1	31	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.006	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Acrolein	EPA-624	<100	ug/l	MG-BR-41	11/20/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-41	11/20/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chloroform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW11-111796

Date sample received: 11/18/98

AES sample #: 981117AEO8

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-ER-41	11/20/98
Trichloroethene	EPA-624	180	ug/l	MG-ER-41	11/20/98
Benzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-ER-41	11/20/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromoform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-ER-41	11/20/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-ER-41	11/20/98
Toluene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates Date Sampled: 11/17/98
CLIENT'S SAMPLE ID: WPGW-MW3-111798 Date sample received: 11/18/98
AES sample #: 981117AEC9 Samples taken by: Lee/Larson Location: Ward Products
MATRIX: Ground Water grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	JF-L-47	11/17/98
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Acrolein	EPA-624	<100	ug/l	MG-BR-41	11/20/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-41	11/20/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chloroform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW3-111798

Date sample received: 11/18/98

AES sample #: 981117AEO9

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Benzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-ER-41	11/20/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromoform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-ER-41	11/20/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Toluene	EPA-624	<5	ug/l	MG-ER-41	11/20/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW9-111798

Date sample received: 11/18/98

AES sample #: 981117AE10

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	1940	mg/l	SH-I-9	11/21/98
Turbidity	EPA-180.1	>1000	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.006	mg/l	SM-I-2D-56	11/30/98
Xylenes	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Acrolein	EPA-624	<100	ug/l	MG-BR-41	11/20/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-41	11/20/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chloroform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW9-111798

Date sample received: 11/18/98

AES sample #: 981117AE10

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichloroethene	EPA-624	180	ug/l	MG-BR-41	11/20/98
Benzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromoform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Toluene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW10-111798

Date sample received: 11/18/98

AES sample #: 981117AE11

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.05	mg/l	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	38	mg/l	SH-I-9	11/21/98
Turbidity	EPA-180.1	48	ntu	SH-I-11	11/18/98
Chromium	EPA-200.7	0.023	mg/l	SM-I-2D-57	12/01/98
Xylenes	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Acrolein	EPA-624	<5000	ug/l	MG-BR-41	11/24/98
Acrylonitrile	EPA-624	<1200	ug/l	MG-BR-41	11/24/98
Chloromethane	EPA-624	<500	ug/l	MG-BR-41	11/24/98
Bromomethane	EPA-624	<500	ug/l	MG-BR-41	11/24/98
Vinyl Chloride	EPA-624	<500	ug/l	MG-BR-41	11/24/98
Chloroethane	EPA-624	<500	ug/l	MG-BR-41	11/24/98
Methylene Chloride	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Trichlorofluoromethane	EPA-624	<250	ug/l	MG-BR-41	11/24/98
1,1-Dichloroethene	EPA-624	<250	ug/l	MG-BR-41	11/24/98
1,1-Dichloroethane	EPA-624	<250	ug/l	MG-BR-41	11/24/98
1,2-Dichloroethene Total	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Chloroform	EPA-624	<250	ug/l	MG-BR-41	11/24/98
1,2 Dichloroethane	EPA-624	<250	ug/l	MG-BR-41	11/24/98
1,1,1-Trichloroethane	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Carbon Tetrachloride	EPA-624	<250	ug/l	MG-BR-41	11/24/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MW10-111798

Date sample received: 11/13/98

AES sample #: 981117AE11

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<250	ug/l	MG-ER-41	11/24/98
1,2-Dichloropropane	EPA-624	<250	ug/l	MG-BR-41	11/24/98
t-1,3-Dichloropropene	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Trichloroethene	EPA-624	5000	ug/l	MG-BR-41	11/24/98
Benzene	EPA-624	<250	ug/l	MG-ER-41	11/24/98
Dibromochloromethane	EPA-624	<250	ug/l	MG-BR-41	11/24/98
1,1,2-Trichloroethane	EPA-624	<250	ug/l	MG-ER-41	11/24/98
cis-1,3-Dichloropropene	EPA-624	<250	ug/l	MG-BR-41	11/24/98
2-Chloroethylvinylether	EPA-624	<500	ug/l	MG-BR-41	11/24/98
Bromoform	EPA-624	<250	ug/l	MG-BR-41	11/24/98
1,1,2,2-Tetrachloroethane	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Tetrachloroethene	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Toluene	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Chlorobenzene	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Ethylbenzene	EPA-624	<250	ug/l	MG-BR-41	11/24/98
Dichlorodifluoromethane	EPA-624	<500	ug/l	MG-BR-41	11/24/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MS-111798

Date sample received: 11/18/98

AES sample #: 981117AE12

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	96	%	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	98	%	SH-I-9	11/21/98
Turbidity	EPA-180.1	95	%	SH-I-11	11/18/98
Chromium	EPA-200.7	101	%	SM-I-2D-57	12/01/98
1,1-Dichloroethene	EPA-624	80	%	MG-BR-41	11/23/98
Trichloroethene	EPA-624	84	%	MG-BR-41	11/23/98
Chlorobenzene	EPA-624	90	%	MG-BR-41	11/23/98
Toluene	EPA-624	80	%	MG-BR-41	11/23/98
Benzene	EPA-624	80	%	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: WPGW-MSD-111798

Date sample received: 11/18/98

AES sample #: 981117AE13

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	ND	%	JF-L-47	11/17/98
Total Suspended Solids	EPA-160.2	ND	%	SH-I-9	11/21/98
Turbidity	EPA-180.1	3.4	%	SH-I-11	11/18/98
Chromium	EPA-200.7	<1	%	SM-I-2D-57	12/01/98
1,1-Dichloroethene	EPA-624	9.5	%	MG-BR-41	11/23/98
Trichloroethene	EPA-624	7.7	%	MG-BR-41	11/23/98
Chlorobenzene	EPA-624	5.3	%	MG-BR-41	11/23/98
Toluene	EPA-624	7.2	%	MG-BR-41	11/23/98
Benzene	EPA-624	3.4	%	MG-BR-41	11/23/98



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CLIENT: Normandeau Associates

Date Sampled: 11/17/98

CLIENT'S SAMPLE ID: Trip Blank

Date sample received: 11/18/98

AES sample #: 981117AE14

Samples taken by: Lee/Larson

Location: Ward Products

MATRIX: Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Xylenes	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Acrolein	EPA-624	<100	ug/l	MG-BR-41	11/20/98
Acrylonitrile	EPA-624	<25	ug/l	MG-BR-41	11/20/98
Chloromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Bromomethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Vinyl Chloride	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Chloroethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98
Methylene Chloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Chloroform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Bromodichloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Trichloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98



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CLIENT: Normandeau Associates
CLIENT'S SAMPLE ID: Trip Blank

Date Sampled: 11/17/98

Date sample received: 11/18/98

AES sample #: 981117AE14

Samples taken by: Lee/Larson

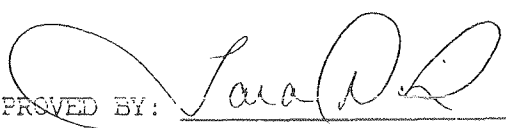
Location: Ward Products

MATRIX: Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzene	EPA-624	<5	ug/l	MG-ER-41	11/20/98
Dibromochloromethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-ER-41	11/20/98
Bromoform	EPA-624	<5	ug/l	MG-BR-41	11/20/98
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Tetrachloroethene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Toluene	EPA-624	<5	ug/l	MG-ER-41	11/20/98
Chlorobenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Ethylbenzene	EPA-624	<5	ug/l	MG-BR-41	11/20/98
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BR-41	11/20/98

APPROVED BY: 
Report date: 12/07/98



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Albany, New York 12207
518-434-4546/434-0891 FAX

NOTE

mk-3 no Cr+6, TSS, Turb

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME		PROJECT NAME (Location)	SAMPLERS: (Names)			
Normandeau Associates		WARD Products	Stephen Lee Al Larson			
ADDRESS		PO NUMBER	SAMPLERS: (Signature)			
25 Nasitua Road Bedford NH 03110		17092.002	Stephen E Lee			
AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	NUMBER OF CONT'S	ANALYSIS REQUIRED
981117 AEO1	WPGW-SWDN-111798	11/17/98	0830	SW	4	MS/MSD (Cr, Cr+6, TSS, Turb, VOC's)
AEO2	WPGW-MW4-111798		0905	GW	4	
AEO3	WPGW-MW6-111798		1015	GW	4	
AEO4	WPGW-MW2-111798		1025	GW	4	
AEO5	WPGW-MW5-111798		1230	GW	4	
AEO6	WPGW-MW1-111798		1310	GW	4	
AEO7	WPGW-MW1R-111798		1245	GW	4	
AEO8	WPGW-MW11-111798		1330	GW	4	
AEO9	WPGW-MW3-111798		1405	GW	4	
AEO10	WPGW-MW9-111798		1520	GW	4	
AEO11	WPGW-MW10-111798		1535	GW	4	
AEO12	WP-MS-111798	11/17/98	0830	SW	4	MS collected from SWI
AEO13	WP-MSD-111798	11/17/98	0830	SW	4	MSD collected from SWDN
(AE14) TRIP BLANK WA 2 VOC's			Laboratory Approval: 4 mw			
Relinquished by: (Signature)		Received by: (Signature)		Date/Time		
Col Jones				11/17/98 17:20		
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:		Date/Time	
		11/17/98	Tara Dineen		11/17/98 5:20	
Method of Shipment:		Send Report To:		Client Phone No.:		
Hand Delivered		Al Larson		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

Adirondack Environmental Services, Inc.

MAY 1999



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW1-052499

Date sample received: 05/25/99

AES sample #: 990524ANO1

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	1.3	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	52	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	42	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	7.2	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	49	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.47	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	0.977	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	0.29	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW1-052499

Date sample received: 05/25/99

AES sample #: 990524ANO1

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

Location: Ward Products
grab

MATRIX: Ground Water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	18	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW1-052499

Date sample received: 05/25/99

AES sample #: 990524ANO1

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW1R-052499

Date sample received: 05/25/99

AES sample #: 990524ANO2

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.55	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	2.5	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	1.5	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	3.4	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	34	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.35	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	0.451	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	<0.05	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW1R-052499

Date sample received: 05/25/99

AES sample #: 990524ANO2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	7	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	100	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW1R-052499

Date sample received: 05/25/99

AES sample #: 990524ANO2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Dichlorodifluoromethane		EPA-624	<10	ug/l	MG-BT-5		05/27/99	



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW2-052499

Date sample received: 05/25/99

AES sample #: 990524ANO3

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.84	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	1.8	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	2.0	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	4.0	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	38	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.11	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	0.788	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	0.12	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GMMW2-052499

AES sample #: 990524AN03

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

MATRIX: Ground Water

Date Sampled: 05/24/99

Date sample received: 05/25/99

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>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GMMW2-052499

Date sample received: 05/25/99

AES sample #: 990524ANO3

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GMMW3-052499

Date sample received: 05/25/99

AES sample #: 990524ANO4

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	1.5	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	1.0	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	<1	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	13	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.19	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	0.11	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW3-052499

Date sample received: 05/25/99

AES sample #: 990524ANO4

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES/REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GMMW3-052499

Date sample received: 05/25/99

AES sample #: 990524ANO4

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW4-052499

Date sample received: 05/25/99

AES sample #: 990524AN05

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.08	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	2.5	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	1.0	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	1.9	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	13	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.64	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	0.080	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	0.08	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<125	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<50	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<50	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<50	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<50	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW4-052499

Date sample received: 05/25/99

AES sample #: 990524ANO5

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
1,2-Dichloroethene Total		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
Chloroform		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
1,2 Dichloroethane		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
1,1,1-Trichloroethane		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
Carbon Tetrachloride		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
Bromodichloromethane		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
1,2-Dichloropropane		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
t-1,3-Dichloropropene		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
Trichloroethene		EPA-624	800	ug/l	MG-BT-5		05/27/99	
Benzene		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
Dibromochloromethane		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
1,1,2-Trichloroethane		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
cis-1,3-Dichloropropene		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
2-Chloroethylvinylether		EPA-624	<50	ug/l	MG-BT-5		05/27/99	
Bromoform		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
1,1,2,2-Tetrachloroethane		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
Tetrachloroethene		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
Toluene		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
Chlorobenzene		EPA-624	<25	ug/l	MG-BT-5		05/27/99	
Ethylbenzene		EPA-624	<25	ug/l	MG-BT-5		05/27/99	



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW4-052499

Date sample received: 05/25/99

AES sample #: 990524AN05

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<50	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW4R-052499

AES sample #: 990524AN06

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

MATRIX: Ground Water

Date Sampled: 05/24/99

Date sample received: 05/25/99

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	SM 3500 Cr D	0.04	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	44	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	34	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	86	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	84	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	1.3	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	0.006	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	0.49	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	0.06	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<25000	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	6200	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<2500	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<2500	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<2500	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<2500	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<1200	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW4R-052499

Date sample received: 05/25/99

AES sample #: 990524ANO6

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	52,000	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<2500	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<1200	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<1200	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW4R-O52499

Date sample received: 05/25/99

AES sample #: 990524ANO6

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<2500	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW5-052499

Date sample received: 05/25/99

AES sample #: 990524ANO7

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	22	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	2.0	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	2.2	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	16	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.07	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	<0.05	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW5-052499

Date sample received: 05/25/99

AES sample #: 990524ANO7

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

Location: Ward Products
grab

MATRIX: Ground Water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	11	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	210	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	5	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW5-052499

Date sample received: 05/25/99

AES sample #: 990524AN07

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	10	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW6-052499

AES sample #: 990524AN08

Date Sampled: 05/24/99

Date sample received: 05/25/99

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

Location: Ward Products
grab

MATRIX: Ground Water

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.23	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	6	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	4.5	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	54	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	58	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.78	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	0.212	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	0.12	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<5000	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<2500	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<1000	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<1000	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<1000	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<1000	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<500	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<500	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<500	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW6-052499

Date sample received: 05/25/99

AES sample #: 990524AN08

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<500	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<500	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<500	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<500	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	12,000	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<500	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<500	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<500	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<1000	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<500	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<500	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<500	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW6-052499

Date sample received: 05/25/99

AES sample #: 990524AN08

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	1000	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW8-052499

Date sample received: 05/25/99

AES sample #: 990524ANO9

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	154	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	276	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	87	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	95	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	1.8	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	0.005	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	1.88	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	0.14	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GMMW8-052499

Date sample received: 05/25/99

AES sample #: 990524AN09

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	190	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	18	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW8-052499

Date sample received: 05/25/99

AES sample #: 990524AN09

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW11-052499

Date sample received: 05/25/99

AES sample #: 990524AN10

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	14	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	5.5	mg/l	LS-L-4	05/25/99
Chloride	EPA-300.0	1.5	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	37	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.02	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2E-45	06/07/99
Iron	EPA-200.7	0.19	mg/l	SM-I-2E-45	06/07/99
Manganese	EPA-200.7	0.06	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW11-052499

Date sample received: 05/25/99

AES sample #: 990524AN10

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-GWMW11-O52499

Date sample received: 05/25/99

AES sample #: 990524AN10

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<10	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-SWUP-052499

Date sample received: 05/25/99

AES sample #: 990524AN11

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	60	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	41	mg/l	LS-L-4	05/25/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2E-45	06/07/99
Hardness ,Total as CaCO3	EPA 200.7	95	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-SWUP-052499

AES sample #: 990524AN11

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

MATRIX: Surface Water

Date Sampled: 05/24/99

Date sample received: 05/25/99

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>
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Benzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-SWDN-052499

Date sample received: 05/25/99

AES sample #: 990524AN12

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES/REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	15	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	7.0	mg/l	LS-L-4	05/25/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2E-45	06/07/99
Hardness ,Total as CaCO3	EPA 200.7	74	mg/l	SM-I-2E-45	06/07/99
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: WP-SWDN-052499

Date sample received: 05/25/99

AES sample #: 990524AN12

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

Location: Ward Products
grab

MATRIX: Surface Water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Carbon Tetrachloride	EPA-624	<5	ug/1	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/1	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/1	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/1	MG-BT-5	05/27/99
Trichloroethene	EPA-624	<5	ug/1	MG-BT-5	05/27/99
Benzene	EPA-624	<5	ug/1	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/1	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/1	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/1	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/1	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/1	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/1	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/1	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/1	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<5	ug/1	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/1	MG-BT-5	05/27/99
Dichlorodifluoromethane	EPA-624	<10	ug/1	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates

Date Sampled: 05/24/99

CLIENT'S SAMPLE ID: Trip Blank

Date sample received: 05/25/99

AES sample #: 990524AN13

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

Location: Ward Products

MATRIX: Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Xylenes	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Acrolein	EPA-624	<100	ug/l	MG-BT-5	05/27/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-5	05/27/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chloroform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Trichloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99



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CLIENT: Normandeau Associates
CLIENT'S SAMPLE ID: Trip Blank

Date Sampled: 05/24/99

Date sample received: 05/25/99

AES sample #: 990524AN13

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

Location: Ward Products
grab

MATRIX: Water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-5	05/27/99
Bromoform	EPA-624	<5	ug/l	MG-BT-5	05/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Toluene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-5	05/27/99
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-5	05/27/99

APPROVED BY: 

Report date: 06/08/99



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Albany, New York 12207
518-434-4546/434-0891 FAX

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CHAIN OF CUSTODY RECORD

CLIENT NAME NORMAN DEAN ASSOC.		PROJECT NAME (Location) WARD PRODUCTS AMSTERDAM, NY		SAMPLERS: (Names) AL LARSON STEVE LEE				
ADDRESS 85 NASHUA ROAD BEDFORD, NH 03110-5500		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	LAB O	GRAB		
990524 AN01	WP-GW MW 1-052499	5/24/99	1405	A P	GW	X	6	TURBIDITY, TSS, CHLORIDE, SULFATE,
AN02	WP-GW MW 1R-052499	5/24/99	1340	A P	GW	X	6	NITRATE, HEX. CHROME, TOTAL CHROMIUM, IRON
AN03	WP-GW MW 2-052499	5/24/99	1445	A P	GW	X	6	MANGANESE, VOCs
AN04	WP-GW MW 3-052499	5/24/99	1515	A P	GW	X	6	
AN05	WP-GW MW 4-052499	5/24/99	1605	A P	GW	X	6	
AN06	WP-GW MW 4R-052499	5/24/99	1618	A P	GW	X	6	
AN07	WP-GW MW 5-052499	5/24/99	1400	A P	GW	X	6	
AN08	WP-GW MW 6-052499	5/24/99	1540	A P	GW	X	6	
AN09	WP-GW MW 8-052499	5/24/99	1735	A P	GW	X	6	
AN10	WP-GW MW 11-052499	5/24/99	1227	A P	GW	X	6	
AN13	TRIP BLANK			A P	SW SF	X 3	3	VOCs
AN11	WP-SW 4P-052499	5/24/99	1640	A P	SW SF	X	4	TURBIDITY, TSS, HEX CHROMIUM, TOTAL
AN12	WP-SW DN-052499	5/24/99	1655	A P	SW SF	X	4	CHROMIUM, HARDNESS VOCs
Turnaround Time: NORMAL				Laboratory Approval:				
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature)			Date/Time 5/24/99 1855			
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>Kenneth S. Fuller</i>			Date/Time 5/24/99 19:00	
Method of Shipment:		Send Report To: AL LARSON			Client Phone No.:			

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

Adirondack Environmental Services, Inc.



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LABORATORY REPORT

for

Normandeau Associates
25 Nashua Road
Bedford, NH 03102

Attention: Al Larson

Report date: 06/08/99
Number of samples analyzed: 4
AES Project ID: 990525 W
Invoice #: 200577

ELAP ID#: 10709

AIHA ID#: 7866
Page

1



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GWMW9-052599

Date sample received: 05/25/99

AES sample #: 990525 W01

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	>200	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	256	mg/l	LS-L-6	05/28/99
Chloride	EPA-200.0	54	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	99	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.22	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	<0.005	mg/l	CG-I-1N-61	05/28/99
Iron	EPA-200.7	1.77	mg/l	CG-I-1N-61	05/28/99
Manganese	EPA-200.7	0.15	mg/l	CG-I-1N-61	05/28/99
Xylenes	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Acrolein	EPA-624	<100	ug/l	MG-BT-6	05/28/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-6	05/28/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-6	05/28/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-6	05/28/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-6	05/28/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-6	05/28/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-6	05/28/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-6	05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GWMW9-052599

Date sample received: 05/25/99

AES sample #: 990525 W01

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Chloroform	EPA-624	<5	ug/l	MG-BT-6	05/28/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-6	05/28/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-6	05/28/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-6	05/28/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Trichloroethene	EPA-624	180	ug/l	MG-BT-6	05/28/99
Benzene	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-6	05/28/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-6	05/28/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-6	05/28/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-6	05/28/99
Bromoform	EPA-624	<5	ug/l	MG-BT-6	05/28/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Toluene	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-6	05/28/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-6	05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GMMW9-052599

Date sample received: 05/25/99

AES sample #: 990525 W01

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

PARAMETER PERFORMED

METHOD

RESULT

UNITS

NOTEBOOK REF

TEST DATE

Dichlorodifluoromethane

EPA-624

<10

ug/l

MG-BT-6

05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GWMW10-O52599

Date sample received: 05/25/99

AES sample #: 990525 WO2

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.02	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	140	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	124	mg/l	LS-L-6	05/28/99
Chloride	EPA-200.0	64	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	139	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	0.37	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	<0.005	mg/l	CG-I-1N-61	05/28/99
Iron	EPA-200.7	0.30	mg/l	CG-I-1N-61	05/28/99
Manganese	EPA-200.7	0.08	mg/l	CG-I-1N-61	05/28/99
Xylenes	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Acrolein	EPA-624	<2500	ug/l	MG-BT-6	05/28/99
Acrylonitrile	EPA-624	<620	ug/l	MG-BT-6	05/28/99
Chloromethane	EPA-624	<250	ug/l	MG-BT-6	05/28/99
Bromomethane	EPA-624	<250	ug/l	MG-BT-6	05/28/99
Vinyl Chloride	EPA-624	<250	ug/l	MG-BT-6	05/28/99
Chloroethane	EPA-624	<250	ug/l	MG-BT-6	05/28/99
Methylene Chloride	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Trichlorofluoromethane	EPA-624	<120	ug/l	MG-BT-6	05/28/99
1,1-Dichloroethene	EPA-624	<120	ug/l	MG-BT-6	05/28/99
1,1-Dichloroethane	EPA-624	<120	ug/l	MG-BT-6	05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GWMW10-052599

Date sample received: 05/25/99

AES sample #: 990525 WO2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Chloroform	EPA-624	<120	ug/l	MG-BT-6	05/28/99
1,2 Dichloroethane	EPA-624	<120	ug/l	MG-BT-6	05/28/99
1,1,1-Trichloroethane	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Carbon Tetrachloride	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Bromodichloromethane	EPA-624	<120	ug/l	MG-BT-6	05/28/99
1,2-Dichloropropane	EPA-624	<120	ug/l	MG-BT-6	05/28/99
t-1,3-Dichloropropene	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Trichloroethene	EPA-624	6000	ug/l	MG-BT-6	05/28/99
Benzene	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Dibromochloromethane	EPA-624	<120	ug/l	MG-BT-6	05/28/99
1,1,2-Trichloroethane	EPA-624	<120	ug/l	MG-BT-6	05/28/99
cis-1,3-Dichloropropene	EPA-624	<120	ug/l	MG-BT-6	05/28/99
2-Chloroethylvinylether	EPA-624	<250	ug/l	MG-BT-6	05/28/99
Bromoform	EPA-624	<120	ug/l	MG-BT-6	05/28/99
1,1,2,2-Tetrachloroethane	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Tetrachloroethene	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Toluene	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Chlorobenzene	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Ethylbenzene	EPA-624	<120	ug/l	MG-BT-6	05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GMMW10-052599

Date sample received: 05/25/99

AES sample #: 990525 W02

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<250	ug/l	MG-BT-6	05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GMMWO7-052599

Date sample received: 05/25/99

AES sample #: 990525 W03

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.13	mg/l	LS-M-25	05/25/99
Turbidity	EPA-180.1	12	ntu	PL-I-23	05/25/99
Total Suspended Solids	EPA-160.2	20	mg/l	LS-L-6	05/28/99
Chloride	EPA-200.0	62	mg/l	SH-IC-D-51	05/26/99
Sulfate	EPA-300.0	83	mg/l	SH-IC-D-51	05/26/99
Nitrate-N	EPA-300.0	1.3	mg/l	SH-IC-D-51	05/26/99
Chromium	EPA-200.7	0.087	mg/l	CG-I-1N-61	05/28/99
Iron	EPA-200.7	0.08	mg/l	CG-I-1N-61	05/28/99
Manganese	EPA-200.7	<0.02	mg/l	CG-I-1N-61	05/28/99
Xylenes	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Acrolein	EPA-624	<500	ug/l	MG-BT-6	05/28/99
Acrylonitrile	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Chloromethane	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Bromomethane	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Vinyl Chloride	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Chloroethane	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Methylene Chloride	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GMMWO7-052599

Date sample received: 05/25/99

AES sample #: 990525 W03

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Chloroform	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Bromodichloromethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Trichloroethene	EPA-624	1300	ug/l	MG-BT-6	05/28/99
Benzene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Dibromochloromethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Bromoform	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Tetrachloroethene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Toluene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Chlorobenzene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Ethylbenzene	EPA-624	<25	ug/l	MG-BT-6	05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GWMW07-052599

Date sample received: 05/25/99

AES sample #: 990525 W03

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<50	ug/l	MG-BT-6	05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GWDUP-052599

Date sample received: 05/25/99

AES sample #: 990525 W04

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.13	mg/l	LS-M-25	05/25/99
Chromium	EPA-200.7	0.079	mg/l	CG-I-1N-61	05/28/99
Xylenes	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Acrolein	EPA-624	<500	ug/l	MG-BT-6	05/28/99
Acrylonitrile	EPA-624	<120	ug/l	MG-BT-6	05/28/99
Chloromethane	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Bromomethane	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Vinyl Chloride	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Chloroethane	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Methylene Chloride	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,2-Dichloroethene Total	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Chloroform	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Bromodichloromethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BT-6	05/28/99



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CLIENT: Normandeau Associates

Date Sampled: 05/25/99

CLIENT'S SAMPLE ID: WP-GWDUP-052599

Date sample received: 05/25/99

AES sample #: 990525 W04

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

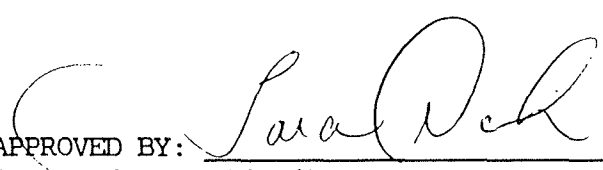
Location: Ward Products

MATRIX: Ground Water

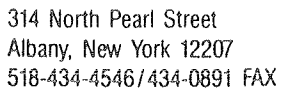
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Trichloroethene	EPA-624	1400	ug/l	MG-BT-6	05/28/99
Benzene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Dibromochloromethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BT-6	05/28/99
Bromoform	EPA-624	<25	ug/l	MG-BT-6	05/28/99
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Tetrachloroethene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Toluene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Chlorobenzene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Ethylbenzene	EPA-624	<25	ug/l	MG-BT-6	05/28/99
Dichlorodifluoromethane	EPA-624	<50	ug/l	MG-BT-6	05/28/99

APPROVED BY: 

Report date: 06/08/99



CHAIN OF CUSTODY RECORD

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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Adirondack Environmental Services, Inc.



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW13-082399

Date sample received: 08/24/99

AES sample #: 990823 W08

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-39	08/24/99
Turbidity	EPA-180.1	28	ntu	MC-I-31	08/24/99
Total Suspended Solids	EPA-160.2	27	mg/l	PL-M-32	08/25/99
Chloride	EPA-300.0	48	mg/l	SH-IC-D-80	08/25/99
Sulfate	EPA-300.0	97	mg/l	SH-IC-D-80	08/25/99
Nitrate-N	EPA-300.0	<0.02	mg/l	SH-IC-D-80	08/25/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2E-85	08/25/99
Iron	EPA-200.7	0.37	mg/l	SM-I-2E-85	08/25/99
Manganese	EPA-200.7	0.28	mg/l	SM-I-2E-85	08/25/99
Xylenes	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Acrolein	EPA-624	<200	ug/l	MG-BT-32	08/27/99
Acrylonitrile	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Chloromethane	EPA-624	<20	ug/l	MG-BT-32	08/27/99
Bromomethane	EPA-624	<20	ug/l	MG-BT-32	08/27/99
Vinyl Chloride	EPA-624	<20	ug/l	MG-BT-32	08/27/99
Chloroethane	EPA-624	<20	ug/l	MG-BT-32	08/27/99
Methylene Chloride	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Trichlorofluoromethane	EPA-624	<10	ug/l	MG-BT-32	08/27/99
1,1-Dichloroethene	EPA-624	<10	ug/l	MG-BT-32	08/27/99
1,1-Dichloroethane	EPA-624	<10	ug/l	MG-BT-32	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW13-082399

Date sample received: 08/24/99

AES sample #: 990823 W08

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	20	ug/l	MG-BT-32	08/27/99
Chloroform	EPA-624	<10	ug/l	MG-BT-32	08/27/99
1,2 Dichloroethane	EPA-624	<10	ug/l	MG-BT-32	08/27/99
1,1,1-Trichloroethane	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Carbon Tetrachloride	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Bromodichloromethane	EPA-624	<10	ug/l	MG-BT-32	08/27/99
1,2-Dichloropropane	EPA-624	<10	ug/l	MG-BT-32	08/27/99
t-1,3-Dichloropropene	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Trichloroethene	EPA-624	290	ug/l	MG-BT-32	08/27/99
Benzene	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Dibromochloromethane	EPA-624	<10	ug/l	MG-BT-32	08/27/99
1,1,2-Trichloroethane	EPA-624	<10	ug/l	MG-BT-32	08/27/99
cis-1,3-Dichloropropene	EPA-624	<10	ug/l	MG-BT-32	08/27/99
2-Chloroethylvinylether	EPA-624	<20	ug/l	MG-BT-32	08/27/99
Bromoform	EPA-624	<10	ug/l	MG-BT-32	08/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Tetrachloroethene	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Toluene	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Chlorobenzene	EPA-624	<10	ug/l	MG-BT-32	08/27/99
Ethylbenzene	EPA-624	<10	ug/l	MG-BT-32	08/27/99

AUGUST 1999



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW3-082399

Date sample received: 08/24/99

AES sample #: 990823 WO1

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-39	08/24/99
Turbidity	EPA-180.1	680	ntu	MC-I-31	08/24/99
Total Suspended Solids	EPA-160.2	123	mg/l	PL-M-32	08/25/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2E-85	08/25/99
Xylenes	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Acrolein	EPA-624	<100	ug/l	MG-BT-32	08/26/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chloroform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW3-082399

Date sample received: 08/24/99

AES sample #: 990823 W01

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Benzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromoform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Toluene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW5-082399

Date sample received: 08/24/99

AES sample #: 990823 W02

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-39	08/24/99
Turbidity	EPA-180.1	17	ntu	MC-I-31	08/24/99
Total Suspended Solids	EPA-160.2	32	mg/l	PL-M-32	08/25/99
Chloride	EPA-300.0	2.6	mg/l	SH-IC-D-80	08/25/99
Sulfate	EPA-300.0	20	mg/l	SH-IC-D-80	08/25/99
Nitrate-N	EPA-300.0	0.02	mg/l	SH-IC-D-80	08/25/99
Chromium	EPA-200.7	0.013	mg/l	SM-I-2E-85	08/25/99
Iron	EPA-200.7	0.16	mg/l	SM-I-2E-85	08/25/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-2E-85	08/25/99
Xylenes	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Acrolein	EPA-624	<500	ug/l	MG-BT-32	08/27/99
Acrylonitrile	EPA-624	<125	ug/l	MG-BT-32	08/27/99
Chloromethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Bromomethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Vinyl Chloride	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Chloroethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Methylene Chloride	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW5-082399

Date sample received: 08/24/99

AES sample #: 990823 WO2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	90	ug/l	MG-BT-32	08/27/99
Chloroform	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Bromodichloromethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Trichloroethene	EPA-624	440	ug/l	MG-BT-32	08/27/99
Benzene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Dibromochloromethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Bromoform	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Tetrachloroethene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Toluene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Chlorobenzene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Ethylbenzene	EPA-624	<25	ug/l	MG-BT-32	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW5-082399

Date sample received: 08/24/99

AES sample #: 990823 W02

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<50	ug/l	MG-BT-32	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WF-GWMW7-082399

Date sample received: 08/24/99

AES sample #: 990823 W03

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.04	mg/l	LS-M-39	08/24/99
Turbidity	EPA-180.1	470	ntu	MC-I-31	08/24/99
Total Suspended Solids	EPA-160.2	490	mg/l	PL-M-32	08/25/99
Chloride	EPA-300.0	81	mg/l	SH-IC-D-80	08/25/99
Sulfate	EPA-300.0	95	mg/l	SH-IC-D-80	08/25/99
Nitrate-N	EPA-300.0	1.32	mg/l	SH-IC-D-80	08/25/99
Chromium	EPA-200.7	0.041	mg/l	SM-I-2E-85	08/25/99
Iron	EPA-200.7	1.87	mg/l	SM-I-2E-85	08/25/99
Manganese	EPA-200.7	0.19	mg/l	SM-I-2E-85	08/25/99
Xylenes	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Acrolein	EPA-624	<500	ug/l	MG-BT-32	08/26/99
Acrylonitrile	EPA-624	<125	ug/l	MG-BT-32	08/26/99
Chloromethane	EPA-624	<50	ug/l	MG-BT-32	08/26/99
Bromomethane	EPA-624	<50	ug/l	MG-BT-32	08/26/99
Vinyl Chloride	EPA-624	<50	ug/l	MG-BT-32	08/26/99
Chloroethane	EPA-624	<50	ug/l	MG-BT-32	08/26/99
Methylene Chloride	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW7-082399

Date sample received: 08/24/99

AES sample #: 990823 W03

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Chloroform	EPA-624	<25	ug/l	MG-BT-32	08/26/99
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/26/99
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Bromodichloromethane	EPA-624	<25	ug/l	MG-BT-32	08/26/99
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BT-32	08/26/99
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Trichloroethene	EPA-624	420	ug/l	MG-BT-32	08/26/99
Benzene	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Dibromochloromethane	EPA-624	<25	ug/l	MG-BT-32	08/26/99
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/26/99
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-32	08/26/99
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BT-32	08/26/99
Bromoform	EPA-624	<25	ug/l	MG-BT-32	08/26/99
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Tetrachloroethene	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Toluene	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Chlorobenzene	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Ethylbenzene	EPA-624	<25	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW7-082399

Date sample received: 08/24/99

AES sample #: 990823 W03

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<50	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW8-082399

Date sample received: 08/24/99

AES sample #: 990823 WO4

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-39	08/24/99
Turbidity	EPA-180.1	150	ntu	MC-I-31	08/24/99
Total Suspended Solids	EPA-160.2	124	mg/l	PL-M-32	08/25/99
Chloride	EPA-300.0	136	mg/l	SH-IC-D-81	08/26/99
Sulfate	EPA-300.0	121	mg/l	SH-IC-D-80	08/25/99
Nitrate-N	EPA-300.0	2.1	mg/l	SH-IC-D-80	08/25/99
Chromium	EPA-200.7	0.009	mg/l	SM-I-2E-85	08/25/99
Iron	EPA-200.7	0.72	mg/l	SM-I-2E-85	08/25/99
Manganese	EPA-200.7	0.05	mg/l	SM-I-2E-85	08/25/99
Xylenes	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Acrolein	EPA-624	<100	ug/l	MG-BT-32	08/26/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW8-082399

Date sample received: 08/24/99

AES sample #: 990823 WO4

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chloroform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichloroethene	EPA-624	61	ug/l	MG-BT-32	08/26/99
Benzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromoform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Toluene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW8-082399

Date sample received: 08/24/99

AES sample #: 990823 WO4

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<10	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW9-082399

Date sample received: 08/24/99

AES sample #: 990823 W05

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-M-39	08/24/99
Turbidity	EPA-180.1	220	ntu	MC-I-31	08/24/99
Total Suspended Solids	EPA-160.2	516	mg/l	PL-M-32	08/25/99
Chloride	EPA-300.0	65	mg/l	SH-IC-D-80	08/25/99
Sulfate	EPA-300.0	94	mg/l	SH-IC-D-80	08/25/99
Nitrate-N	EPA-300.0	0.23	mg/l	SH-IC-D-80	08/25/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-2E-85	08/25/99
Iron	EPA-200.7	2.73	mg/l	SM-I-2E-85	08/25/99
Manganese	EPA-200.7	0.29	mg/l	SM-I-2E-85	08/25/99
Xylenes	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Acrolein	EPA-624	<100	ug/l	MG-BT-32	08/26/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW9-082399

Date sample received: 08/24/99

AES sample #: 990823 W05

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chloroform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichloroethene	EPA-624	200	ug/l	MG-BT-32	08/26/99
Benzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromoform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Toluene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW9-082399

Date sample received: 08/24/99

AES sample #: 990823 W05

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Dichlorodifluoromethane		EPA-624	<10	ug/l	MG-BT-32		08/26/99	



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW11-082399

AES sample #: 990823 WO6

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

MATRIX: Ground Water

Date Sampled: 08/23/99

Date sample received: 08/24/99

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	SM 3500 Cr D	<0.02	mg/l	LS-M-39	08/24/99
Turbidity	EPA-180.1	25	ntu	MC-I-31	08/24/99
Total Suspended Solids	EPA-160.2	71	mg/l	PL-M-32	08/25/99
Chloride	EPA-300.0	1.5	mg/l	SH-IC-D-80	08/25/99
Sulfate	EPA-300.0	36	mg/l	SH-IC-D-80	08/25/99
Nitrate-N	EPA-300.0	<0.02	mg/l	SH-IC-D-80	08/25/99
Chromium	EPA-200.7	0.006	mg/l	SM-I-2E-85	08/25/99
Iron	EPA-200.7	1.29	mg/l	SM-I-2E-85	08/25/99
Manganese	EPA-200.7	0.09	mg/l	SM-I-2E-85	08/25/99
Xylenes	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Acrolein	EPA-624	<100	ug/l	MG-BT-32	08/26/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW11-082399

Date sample received: 08/24/99

AES sample #: 990823 W06

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chloroform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Benzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromoform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Toluene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW11-082399

Date sample received: 08/24/99

AES sample #: 990823 W06

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW12-082399

Date sample received: 08/24/99

AES sample #: 990823 WO7

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent		SM 3500 Cr D	<0.02	mg/l	LS-M-39	08/24/99
Turbidity		EPA-180.1	11	ntu	MC-I-31	08/24/99
Total Suspended Solids		EPA-160.2	12	mg/l	PL-M-32	08/25/99
Chloride		EPA-300.0	47	mg/l	SH-IC-D-80	08/25/99
Sulfate		EPA-300.0	131	mg/l	SH-IC-D-80	08/25/99
Nitrate-N		EPA-300.0	<0.02	mg/l	SH-IC-D-80	08/25/99
Chromium		EPA-200.7	0.008	mg/l	SM-I-2E-85	08/25/99
Iron		EPA-200.7	0.11	mg/l	SM-I-2E-85	08/25/99
Manganese		EPA-200.7	0.13	mg/l	SM-I-2E-85	08/25/99
Xylenes		EPA-624	<5	ug/l	MG-BT-32	08/26/99
Acrolein		EPA-624	<100	ug/l	MG-BT-32	08/26/99
Acrylonitrile		EPA-624	<25	ug/l	MG-BT-32	08/26/99
Chloromethane		EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromomethane		EPA-624	<10	ug/l	MG-BT-32	08/26/99
Vinyl Chloride		EPA-624	<10	ug/l	MG-BT-32	08/26/99
Chloroethane		EPA-624	<10	ug/l	MG-BT-32	08/26/99
Methylene Chloride		EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichlorofluoromethane		EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethene		EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethane		EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GMMW12-082399

Date sample received: 08/24/99

AES sample #: 990823 W07

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

Location: Ward Products
grab

MATRIX: Ground Water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	10	ug/l	MG-BT-32	08/26/99
Chloroform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichloroethene	EPA-624	110	ug/l	MG-BT-32	08/26/99
Benzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromoform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Toluene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW12-082399

Date sample received: 08/24/99

AES sample #: 990823 W07

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/23/99

CLIENT'S SAMPLE ID: WP-GWMW13-082399

Date sample received: 08/24/99

AES sample #: 990823 W08

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Dichlorodifluoromethane		EPA-624	<20	ug/l	MG-BT-32		08/27/99	



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CLIENT: Normandeau Associates

Date Sampled: 07/14/99

CLIENT'S SAMPLE ID: Trip Blank-Lot#9910

Date sample received: 08/24/99

AES sample #: 990823 W09

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

Location: Ward Products

MATRIX: Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Xylenes	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Acrolein	EPA-624	<100	ug/l	MG-BT-32	08/26/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BT-32	08/26/99
Chloromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromomethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Chloroethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chloroform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Trichloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 07/14/99

CLIENT'S SAMPLE ID: Trip Blank-Lot#9910

Date sample received: 08/24/99

AES sample #: 990823 W09

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

Location: Ward Products

MATRIX: Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromoform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Toluene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 08/24/99

CLIENT'S SAMPLE ID: WP-GWMW4-082499

Date sample received: 08/25/99

AES sample #: 990824AFO1

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.08	mg/l	PL-M-39	08/25/99
Turbidity	EPA-180.1	24	ntu	PL-I-31	08/25/99
Total Suspended Solids	EPA-160.2	31	mg/l	PL-M-32	08/25/99
Chromium	EPA-200.7	0.064	mg/l	SM-I-2E-86	08/26/99
Xylenes	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Acrolein	EPA-624	<500	ug/l	MG-BT-32	08/27/99
Acrylonitrile	EPA-624	<125	ug/l	MG-BT-32	08/27/99
Chloromethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Bromomethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Vinyl Chloride	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Chloroethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Methylene Chloride	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,2-Dichloroethene Total	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Chloroform	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BT-32	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/24/99

CLIENT'S SAMPLE ID: WP-GWMW4-082499

Date sample received: 08/25/99

AES sample #: 990824AF01

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Trichloroethene	EPA-624	760	ug/l	MG-BT-32	08/27/99
Benzene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Dibromochloromethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Bromoform	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Tetrachloroethene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Toluene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Chlorobenzene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Ethylbenzene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Dichlorodifluoromethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/24/99

CLIENT'S SAMPLE ID: WP-GWMW1-082499

Date sample received: 08/25/99

AES sample #: 990824AFO2

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.15	mg/l	PL-M-39	08/25/99
Turbidity	EPA-180.1	460	ntu	PL-I-31	08/25/99
Total Suspended Solids	EPA-160.2	238	mg/l	PL-M-33	08/25/99
Chloride	EPA-300.0	8.6	mg/l	SH-IC-D-81	08/26/99
Sulfate	EPA-300.0	64	mg/l	SH-IC-D-81	08/26/99
Nitrate-N	EPA-300.0	2.8	mg/l	SH-IC-D-81	08/26/99
Chromium	EPA-200.7	11.2	mg/l	SM-I-2E-86	08/26/99
Iron	EPA-200.7	1.13	mg/l	SM-I-2E-86	08/26/99
Manganese	EPA-200.7	0.19	mg/l	SM-I-2E-86	08/26/99
Xylenes	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Acrolein	EPA-624	<500	ug/l	MG-BT-32	08/27/99
Acrylonitrile	EPA-624	<125	ug/l	MG-BT-32	08/27/99
Chloromethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Bromomethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Vinyl Chloride	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Chloroethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Methylene Chloride	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/24/99

CLIENT'S SAMPLE ID: WP-GWMW1-082499

Date sample received: 08/25/99

AES sample #: 990824AFO2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	170	ug/l	MG-BT-32	08/27/99
Chloroform	EPA-624	40	ug/l	MG-BT-32	08/27/99
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Carbon Tetrachloride	EPA-624	300	ug/l	MG-BT-32	08/27/99
Bromodichloromethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Trichloroethene	EPA-624	1400	ug/l	MG-BT-32	08/27/99
Benzene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Dibromochloromethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BT-32	08/27/99
Bromoform	EPA-624	<25	ug/l	MG-BT-32	08/27/99
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Tetrachloroethene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Toluene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Chlorobenzene	EPA-624	<25	ug/l	MG-BT-32	08/27/99
Ethylbenzene	EPA-624	<25	ug/l	MG-BT-32	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/24/99

CLIENT'S SAMPLE ID: WP-GWMW1-082499

Date sample received: 08/25/99

AES sample #: 990824AFO2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<50	ug/l	MG-BT-32	08/27/99



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CLIENT: Normandeau Associates

Date Sampled: 08/24/99

CLIENT'S SAMPLE ID: WP-GWMW1R-082499

Date sample received: 08/25/99

AES sample #: 990824AF03

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	1.99	mg/l	PL-M-39	08/25/99
Turbidity	EPA-180.1	7	ntu	PL-I-31	08/25/99
Total Suspended Solids	EPA-160.2	<1	mg/l	PL-M-33	08/25/99
Chloride	EPA-300.0	4.0	mg/l	SH-IC-D-81	08/26/99
Sulfate	EPA-300.0	40	mg/l	SH-IC-D-81	08/26/99
Nitrate-N	EPA-300.0	0.76	mg/l	SH-IC-D-81	08/26/99
Chromium	EPA-200.7	1.87	mg/l	SM-I-2E-86	08/26/99
Iron	EPA-200.7	0.18	mg/l	SM-I-2E-86	08/26/99
Manganese	EPA-200.7	0.05	mg/l	SM-I-2E-86	08/26/99
Xylenes	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Acrolein	EPA-624	<200	ug/l	MG-BT-32	08/26/99
Acrylonitrile	EPA-624	<50	ug/l	MG-BT-32	08/26/99
Chloromethane	EPA-624	<20	ug/l	MG-BT-32	08/26/99
Bromomethane	EPA-624	<20	ug/l	MG-BT-32	08/26/99
Vinyl Chloride	EPA-624	<20	ug/l	MG-BT-32	08/26/99
Chloroethane	EPA-624	<20	ug/l	MG-BT-32	08/26/99
Methylene Chloride	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Trichlorofluoromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethene	EPA-624	<10	ug/l	MG-BT-32	08/26/99
1,1-Dichloroethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99



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CLIENT: Normandeau Associates

Date Sampled: 07/14/99

CLIENT'S SAMPLE ID: Trip Blank-Lot#9910

Date sample received: 08/25/99

AES sample #: 990824AF09

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

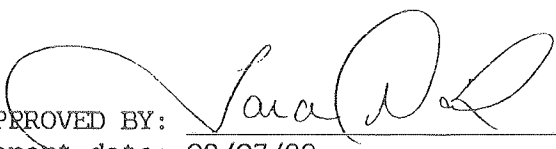
Location: Ward Products

MATRIX: Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Benzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BT-32	08/26/99
Bromoform	EPA-624	<5	ug/l	MG-BT-32	08/26/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Toluene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BT-32	08/26/99
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BT-32	08/26/99

APPROVED BY: 

Report date: 09/07/99



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME NORMANDEAU ASSOCIATES	PROJECT NAME (Location) WARD PRODUCTS AMSTERDAM, NY	SAMPLERS: (Names) AL LARSON / STEVE LEE
ADDRESS 25 NASHUA 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		
790823 W01	WP-GWMMW3-082399	8/23/99	1200	A P GW		X	2	VOC (8260)
	WP-GWMMW3-082399			A P GW		X	1	TOTAL CHROMIUM
	WP-GWMMW3-082399			A P GW		X	1	TURBIDITY HEX CHROMIUM
	WP-GWMMW3-082399			A P GW		X	1	TSS
W02	WP-GWMMW5-082399	8/23/99	1220	A P GW		X	6	FOR ALL OTHER SAMPLES
W03	WP-GWMMW7-082399		1740	A P GW		X	6	VOCs, TSS,
W04	WP-GWMMW8-082399		1250	A P GW		X	6	Cl, SO ₄ , TOTAL CR,
W05	WP-GWMMW9-082399		1805	A P GW		X	6	Fe, MN, TURBIDITY
W06	WP-GWMMW10-082399		1150	A P GW		X	6	HEX CR, NO ₃
W07	WP-GWMMW12-082399		1555	A P GW		X	6	
W08	WP-GWMMW13-082399		1630	A P GW		X	6	
W09	TRIP BLANK → LOT # 9910	7/14/99		A P WA		X	1	VOC (8260)
				A P				

Turnaround Time:

NORMAL

Laboratory Approval:

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

8/23/99 19:37

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:

Date/Time

8/23/99 19:38

Method of Shipment:

DROP OFF

Send Report To:

AL LARSON

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

Adirondack Environmental Services, Inc.



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME NORMAN DEAN ASSOC.	PROJECT NAME (Location) WARD PRODUCTS AMSTERDAM, NY	SAMPLERS: (Names) AL LARSON / STEVE LEE
ADDRESS 25 NASHUA 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	COMB	GRAB		
990824 AF01	WP-GWMMW4-082499	8/24/99	1305	A P	GW	X	2	VOC (8260)
	WP-GWMMW4-082499	8/24/99	1305	A P	GW	X	1	TOTAL CHROMIUM
	WP-GWMMW4-082499	8/24/99	1305	A P	GW	X	1	TURBIDITY HEX CHROMIUM
	WP-GWMMW4-082499	8/24/99	1305	A P	GW	X	1	TSS
AF02	WP-GWMMW1-082499	8/24/99	1110	A P	GW	X	6	FOR ALL OTHER SAMPLES
AF03	WP-GWMMW1R-082499	8/24/99	1250	A P	GW	X	6	VOC, TURBIDITY,
AF04	WP-GWMMW2-082499	8/24/99	1135	A P	GW	X	6	HEX CHROMIUM,
AF05	WP-GWMMW4R-082499	8/24/99	1228	A P	GW	X	6	TOTAL CHROMIUM, IRON, MANGANESE,
AF06	WP-GWMMW6-082499	8/24/99	1204	A P	GW	X	6	TSS, CHLORIDE,
AF07	WP-GWMMW10-082499	8/24/99	1625	A P	GW	X	6	SULFATE, NITRATE
AF08	WP-GWMMW-082499	8/24/99	—	A P	GW	X	6	↓
AF09	TRIP BLANK - LOT # 9910	7/14/99		A P	WA	X	1	VOC (8260)
				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>
Method of Shipment: DROP OFF	Send Report To: ALLARSON	Date/Time 8/24/99 11:45
		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

Adirondack Environmental Services, Inc.

NOVEMBER 1999



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW11-111599

Date sample received: 11/16/99

AES sample #: 991115ABO1

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	120	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	25	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	1.5	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	41	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	<0.02	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	1.55	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	0.09	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Acrolein	EPA-624	<100	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GMMW11-111599

Date sample received: 11/16/99

AES sample #: 991115AB01

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chloroform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Benzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromoform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Toluene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW11-111599

Date sample received: 11/16/99

AES sample #: 991115ABO1

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

PARAMETER PERFORMED

METHOD

RESULT

UNITS

NOTEBOOK REF

TEST DATE

Dichlorodifluoromethane

EPA-624

<10

ug/l

MG-BU-15

11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW5-111599

Date sample received: 11/16/99

AES sample #: 991115ABO2

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	38	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	31	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	2.5	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	21	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	0.09	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.34	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Acrolein	EPA-624	<200	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<50	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<20	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<20	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<20	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<20	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<10	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW5-111599

Date sample received: 11/16/99

AES sample #: 991115ABO2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	30	ug/l	MG-BU-15	11/19/99
Chloroform	EPA-624	<10	ug/l	MG-BU-15	11/19/99
1,2 Dichloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
1,1,1-Trichloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Carbon Tetrachloride	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromodichloromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
1,2-Dichloropropane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
t-1,3-Dichloropropene	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Trichloroethene	EPA-624	280	ug/l	MG-BU-15	11/19/99
Benzene	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Dibromochloromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
1,1,2-Trichloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
cis-1,3-Dichloropropene	EPA-624	<10	ug/l	MG-BU-15	11/19/99
2-Chloroethylvinylether	EPA-624	<20	ug/l	MG-BU-15	11/19/99
Bromoform	EPA-624	<10	ug/l	MG-BU-15	11/19/99
1,1,2,2-Tetrachloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Tetrachloroethene	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Toluene	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Chlorobenzene	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Ethylbenzene	EPA-624	<10	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW5-111599

Date sample received: 11/16/99

AES sample #: 991115ABO2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Dichlorodifluoromethane		EPA-624	<20	ug/l	MG-BU-15		11/19/99	



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW3-111599

Date sample received: 11/16/99

AES sample #: 991115ABO3

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	19	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	2.5	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	<1	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	14	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	0.25	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.23	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Acrolein	EPA-624	<100	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW3-111599

Date sample received: 11/16/99

AES sample #: 991115ABO3

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chloroform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Benzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromoform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Toluene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW3-111599

Date sample received: 11/16/99

AES sample #: 991115ABO3

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<10	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW1-111599

Date sample received: 11/16/99

AES sample #: 991115ABO4

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	1.20	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	140	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	40	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	4.4	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	52	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	0.48	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.985	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.60	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	0.05	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Acrolein	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Chloromethane	EPA-624	<10	ug/l	MG-BU-15	11/20/99
Bromomethane	EPA-624	<10	ug/l	MG-BU-15	11/20/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BU-15	11/20/99
Chloroethane	EPA-624	<10	ug/l	MG-BU-15	11/20/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW1-111599

Date sample received: 11/16/99

AES sample #: 991115ABO4

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Chloroform	EPA-624	<5	ug/l	MG-BU-15	11/20/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/20/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BU-15	11/20/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BU-15	11/20/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Trichloroethene	EPA-624	190	ug/l	MG-BU-15	11/20/99
Benzene	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BU-15	11/20/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/20/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/20/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BU-15	11/20/99
Bromoform	EPA-624	<5	ug/l	MG-BU-15	11/20/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Toluene	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BU-15	11/20/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW1-111599

Date sample received: 11/16/99

AES sample #: 991115ABO4

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Dichlorodifluoromethane		EPA-624	<10	ug/l	MG-BU-15		11/20/99	



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW1R-111599

Date sample received: 11/16/99

AES sample #: 991115AB05

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.68	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	21	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	3.5	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	2.7	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	38	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	0.38	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.50	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.20	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	0.05	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Acrolein	EPA-624	<100	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW1R-111599

Date sample received: 11/16/99

AES sample #: 991115ABO5

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	16	ug/l	MG-BU-15	11/19/99
Chloroform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Carbon Tetrachloride	EPA-624	36	ug/l	MG-BU-15	11/19/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichloroethene	EPA-624	280	ug/l	MG-BU-15	11/19/99
Benzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromoform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Toluene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW1R-111599

Date sample received: 11/16/99

AES sample #: 991115ABO5

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

PARAMETER PERFORMED

METHOD

RESULT

UNITS

NOTEBOOK REF

TEST DATE

Dichlorodifluoromethane

EPA-624

<10

ug/l

MG-BU-15

11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW2-111599

Date sample received: 11/16/99

AES sample #: 991115AB06

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.78	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	7	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	1.0	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	4.0	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	40	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	0.11	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.699	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.33	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Acrolein	EPA-624	<100	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW2-111599

Date sample received: 11/16/99

AES sample #: 991115AB06

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chloroform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Benzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromoform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Toluene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW2-111599

Date sample received: 11/16/99

AES sample #: 991115ABO6

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<10	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW4-111599@1245

Date sample received: 11/16/99

AES sample #: 991115AB07

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.10	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	19	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	<1	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	1.6	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	13	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	0.40	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.066	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.24	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Acrolein	EPA-624	<500	ug/l	MG-BU-15	11/20/99
Acrylonitrile	EPA-624	<125	ug/l	MG-BU-15	11/20/99
Chloromethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Bromomethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Vinyl Chloride	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Chloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Methylene Chloride	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW4-111599@1245

Date sample received: 11/16/99

AES sample #: 991115ABO7

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Chloroform	EPA-624	<25	ug/l	MG-BU-15	11/20/99
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BU-15	11/20/99
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Bromodichloromethane	EPA-624	<25	ug/l	MG-BU-15	11/20/99
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BU-15	11/20/99
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Trichloroethene	EPA-624	920	ug/l	MG-BU-15	11/20/99
Benzene	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Dibromochloromethane	EPA-624	<25	ug/l	MG-BU-15	11/20/99
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BU-15	11/20/99
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BU-15	11/20/99
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Bromoform	EPA-624	<25	ug/l	MG-BU-15	11/20/99
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Tetrachloroethene	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Toluene	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Chlorobenzene	EPA-624	<25	ug/l	MG-BU-15	11/20/99
Ethylbenzene	EPA-624	<25	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW4-111599@1245

Date sample received: 11/16/99

AES sample #: 991115AB07

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<50	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW6-111599

Date sample received: 11/16/99

AES sample #: 991115ABO8

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.20	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	10	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	7.0	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	65	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	75	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	0.70	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.129	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.14	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	<0.02	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Acrolein	EPA-624	<5000	ug/l	MG-BU-15	11/20/99
Acrylonitrile	EPA-624	<1250	ug/l	MG-BU-15	11/20/99
Chloromethane	EPA-624	<500	ug/l	MG-BU-15	11/20/99
Bromomethane	EPA-624	<500	ug/l	MG-BU-15	11/20/99
Vinyl Chloride	EPA-624	<500	ug/l	MG-BU-15	11/20/99
Chloroethane	EPA-624	<500	ug/l	MG-BU-15	11/20/99
Methylene Chloride	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Trichlorofluoromethane	EPA-624	<250	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethene	EPA-624	<250	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethane	EPA-624	<250	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW6-111599

Date sample received: 11/16/99

AES sample #: 991115AB08

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Chloroform	EPA-624	<250	ug/l	MG-BU-15	11/20/99
1,2 Dichloroethane	EPA-624	<250	ug/l	MG-BU-15	11/20/99
1,1,1-Trichloroethane	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Carbon Tetrachloride	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Bromodichloromethane	EPA-624	<250	ug/l	MG-BU-15	11/20/99
1,2-Dichloropropane	EPA-624	<250	ug/l	MG-BU-15	11/20/99
t-1,3-Dichloropropene	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Trichloroethene	EPA-624	5400	ug/l	MG-BU-15	11/20/99
Benzene	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Dibromochloromethane	EPA-624	<250	ug/l	MG-BU-15	11/20/99
1,1,2-Trichloroethane	EPA-624	<250	ug/l	MG-BU-15	11/20/99
cis-1,3-Dichloropropene	EPA-624	<250	ug/l	MG-BU-15	11/20/99
2-Chloroethylvinylether	EPA-624	<500	ug/l	MG-BU-15	11/20/99
Bromoform	EPA-624	<250	ug/l	MG-BU-15	11/20/99
1,1,2,2-Tetrachloroethane	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Tetrachloroethene	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Toluene	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Chlorobenzene	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Ethylbenzene	EPA-624	<250	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW6-111599

Date sample received: 11/16/99

AES sample #: 991115AB08

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

PARAMETER PERFORMED

METHOD

RESULT

UNITS

NOTEBOOK REF

TEST DATE

Dichlorodifluoromethane

EPA-624

<500

ug/l

MG-BU-15

11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW4R-111599

Date sample received: 11/16/99

AES sample #: 991115ABO9

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	38	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	41	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	89	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	97	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	1.5	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	<0.005	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.35	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	0.05	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<1250	ug/l	MG-BU-15	11/20/99
Acrolein	EPA-624	<25000	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<6250	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<2500	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<2500	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<2500	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<2500	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<1250	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW4R-111599

Date sample received: 11/16/99

AES sample #: 991115ABO9

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Chloroform	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
1,2 Dichloroethane	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
1,1,1-Trichloroethane	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Carbon Tetrachloride	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Bromodichloromethane	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
1,2-Dichloropropane	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
t-1,3-Dichloropropene	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Trichloroethene	EPA-624	25000	ug/l	MG-BU-15	11/19/99
Benzene	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Dibromochloromethane	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
1,1,2-Trichloroethane	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
cis-1,3-Dichloropropene	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
2-Chloroethylvinylether	EPA-624	<2500	ug/l	MG-BU-15	11/19/99
Bromoform	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
1,1,2,2-Tetrachloroethane	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Tetrachloroethene	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Toluene	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Chlorobenzene	EPA-624	<1250	ug/l	MG-BU-15	11/19/99
Ethylbenzene	EPA-624	<1250	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW4R-111599

Date sample received: 11/16/99

AES sample #: 991115ABO9

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Dichlorodifluoromethane		EPA-624	<2500	ug/l	MG-BU-15		11/19/99	



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW7-111599

Date sample received: 11/16/99

AES sample #: 991115AB10

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.07	mg/l	* PL-N-2	11/16/99
Turbidity	EPA-180.1	23	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	20	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	76	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	111	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	1.4	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.039	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.35	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	0.02	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Acrolein	EPA-624	<500	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<125	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<50	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<50	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<50	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<50	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<25	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<25	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<25	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW7-111599

Date sample received: 11/16/99

AES sample #: 991115AB10

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Chloroform	EPA-624	<25	ug/l	MG-BU-15	11/19/99
1,2 Dichloroethane	EPA-624	<25	ug/l	MG-BU-15	11/19/99
1,1,1-Trichloroethane	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Carbon Tetrachloride	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Bromodichloromethane	EPA-624	<25	ug/l	MG-BU-15	11/19/99
1,2-Dichloropropane	EPA-624	<25	ug/l	MG-BU-15	11/19/99
t-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Trichloroethene	EPA-624	650	ug/l	MG-BU-15	11/19/99
Benzene	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Dibromochloromethane	EPA-624	<25	ug/l	MG-BU-15	11/19/99
1,1,2-Trichloroethane	EPA-624	<25	ug/l	MG-BU-15	11/19/99
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	MG-BU-15	11/19/99
2-Chloroethylvinylether	EPA-624	<50	ug/l	MG-BU-15	11/19/99
Bromoform	EPA-624	<25	ug/l	MG-BU-15	11/19/99
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Tetrachloroethene	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Toluene	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Chlorobenzene	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Ethylbenzene	EPA-624	<25	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW7-111599

Date sample received: 11/16/99

AES sample #: 991115AB10

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Dichlorodifluoromethane		EPA-624	<50	ug/l	MG-BU-15		11/19/99	



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW8-111599

Date sample received: 11/16/99

AES sample #: 991115AB11

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	410	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	304	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	75	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	109	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	1.4	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.005	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	1.86	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	0.19	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Acrolein	EPA-624	<1000	ug/l	MG-BU-15	11/20/99
Acrylonitrile	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Chloromethane	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Bromomethane	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Vinyl Chloride	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Chloroethane	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Methylene Chloride	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Trichlorofluoromethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW8-111599

Date sample received: 11/16/99

AES sample #: 991115AB11

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Chloroform	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,2 Dichloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1,1-Trichloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Carbon Tetrachloride	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Bromodichloromethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,2-Dichloropropane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
t-1,3-Dichloropropene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Trichloroethene	EPA-624	550	ug/l	MG-BU-15	11/20/99
Benzene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Dibromochloromethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1,2-Trichloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
cis-1,3-Dichloropropene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
2-Chloroethylvinylether	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Bromoform	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1,2,2-Tetrachloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Tetrachloroethene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Toluene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Chlorobenzene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Ethylbenzene	EPA-624	<50	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWMW8-111599

Date sample received: 11/16/99

AES sample #: 991115AB11

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<100	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWDUP-111599

AES sample #: 991115AB12

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

MATRIX: Ground Water

Date Sampled: 11/15/99

Date sample received: 11/16/99

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	SM 3500 Cr D	0.07	mg/l	PL-N-2	11/16/99
Turbidity	EPA-180.1	32	ntu	PL-I-38	11/16/99
Total Suspended Solids	EPA-160.2	47	mg/l	PL-O-10	11/16/99
Chloride	EPA-300.0	75	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	110	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	1.4	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.035	mg/l	SM-I-3B-24	11/22/99
Iron	EPA-200.7	0.36	mg/l	SM-I-3B-24	11/22/99
Manganese	EPA-200.7	0.02	mg/l	SM-I-3B-24	11/22/99
Xylenes	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Acrolein	EPA-624	<1000	ug/l	MG-BU-15	11/20/99
Acrylonitrile	EPA-624	<250	ug/l	MG-BU-15	11/20/99
Chloromethane	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Bromomethane	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Vinyl Chloride	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Chloroethane	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Methylene Chloride	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Trichlorofluoromethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1-Dichloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWDUP-111599

Date sample received: 11/16/99

AES sample #: 991115AB12

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloroethene Total	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Chloroform	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,2 Dichloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1,1-Trichloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Carbon Tetrachloride	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Bromodichloromethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,2-Dichloropropane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
t-1,3-Dichloropropene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Trichloroethene	EPA-624	570	ug/l	MG-BU-15	11/20/99
Benzene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Dibromochloromethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1,2-Trichloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
cis-1,3-Dichloropropene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
2-Chloroethylvinylether	EPA-624	<100	ug/l	MG-BU-15	11/20/99
Bromoform	EPA-624	<50	ug/l	MG-BU-15	11/20/99
1,1,2,2-Tetrachloroethane	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Tetrachloroethene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Toluene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Chlorobenzene	EPA-624	<50	ug/l	MG-BU-15	11/20/99
Ethylbenzene	EPA-624	<50	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

Date Sampled: 11/15/99

CLIENT'S SAMPLE ID: WP-GWDUP-111599

Date sample received: 11/16/99

AES sample #: 991115AB12

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane		EPA-624	<100	ug/l	MG-BU-15	11/20/99



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: Trip Blank

AES sample #: 991115AB13

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

MATRIX: Water

Date Sampled: 11/15/99

Date sample received: 11/16/99

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>
Xylenes	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Acrolein	EPA-624	<100	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2-Dichloroethene Total	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chloroform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: Trip Blank

AES sample #: 991115AB13

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

MATRIX: Water

Date Sampled: 11/15/99

Date sample received: 11/16/99

Location: Ward Products
grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Benzene		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
Dibromochloromethane		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
1,1,2-Trichloroethane		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
2-Chloroethylvinylether		EPA-624	<10	ug/l	MG-BU-15		11/19/99	
Bromoform		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
Tetrachloroethene		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
Toluene		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
Chlorobenzene		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
Ethylbenzene		EPA-624	<5	ug/l	MG-BU-15		11/19/99	
Dichlorodifluoromethane		EPA-624	<10	ug/l	MG-BU-15		11/19/99	

APPROVED BY: 

Report date: 12/02/99



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Albany, New York 12207
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* NOTE → NO ID "R" in sample ID on
container for sample taken
at 12:45!! M. Kaskel
11/16/99 → 7:35 AM

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CHAIN OF CUSTODY RECORD

CLIENT NAME <u>NOEMANDAL ASSOCIATES</u>		PROJECT NAME (Location) <u>WARD PRODUCTS</u>	SAMPLERS: (Names) <u>AL LARSON + STEVE LEE</u>			
ADDRESS <u>25 NASHUA ROAD BEDFORD, NH 03110</u>		PO NUMBER	SAMPLERS: (Signature) <u>[Signature] + [Signature]</u>			
AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	NUMBER OF CONT'S	ANALYSIS REQUIRED
91115 AB01	WP-GWMW1-111599	11/15/99	1055 A	GW	X 6	FOR ALL:
AB02	WP-GWMW5-111599	11/15/99	1120 A	GW	X 6	TOTAL SUSPENDED
AB03	WP-GWMW3-111599	11/15/99	1140 A	GW	X 6	SOLIDS, TURBIDITY,
AB04	WP-GWMW1-111599	11/15/99	1205 A	GW	X 6	CHLORIDE, HEX
AB05	WP-GWMW1R-111599	11/15/99	1215 A	GW	X 6	CHROMIUM, TOTAL
AB06	WP-GWMW2-111599	11/15/99	1225 A	GW	X 6	CHROMIUM, IRON
AB07 (see note above)	WP-GWMW4R-111599	11/15/99	1245 A	GW	X 6	MANGANESE,
AB08	WP-GWMW6-111599	11/15/99	1600 A	GW	X 6	NITRATE, SULFATE
AB09	WP-GWMW4R-111599	11/15/99	1615 A	GW	X 6	3 VOC (8260)
AB10	WP-GWMW7-111599	11/15/99	1635 A	GW	X 6	SHORT HOLD TIME
AB11	WP-GWMW8-111599	11/15/99	1700 A	GW	X 6	HEX CR & NO3
AB12	WP-GWDUP-111599	11/15/99	- A	GW	X 6	
AB13	TRIP BLANK		- A	WA	X 2	VOC (8260)

Turnaround Time: NORMAL

Laboratory Approval:

Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature)	Date/Time <u>11/15/99 1832</u>
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: <u>[Signature]</u>
		Date/Time <u>11/15/99 18:30</u>
Method of Shipment:	Send Report To:	Client Phone No.:

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

Adirondack Environmental Services, Inc.



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LABORATORY REPORT

for

Normandeau Associates
25 Nashua Road
Bedford, NH 03102

Attention: Al Larson

Report date: 12/02/99
Number of samples analyzed: 5
AES Project ID: 991116AD
Invoice #: 206748

ELAP ID#: 10709

AIHA ID#: 7866
Page

1



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CLIENT: Normandeau Associates

Date Sampled: 11/16/99

CLIENT'S SAMPLE ID: WP-GWMW9-111699

Date sample received: 11/16/99

AES sample #: 991116ADO1

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	SH-N-2	11/16/99
Turbidity	EPA-180.1	370	ntu	SH-I-30	11/17/99
Total Suspended Solids	EPA-160.2	236	mg/l	SH-O-13	11/19/99
Chloride	EPA-300.0	61	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	112	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	0.19	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.813	mg/l	KH-I-3B-25	11/29/99
Iron	EPA-200.7	0.84	mg/l	KH-I-3B-25	11/29/99
Manganese	EPA-200.7	0.56	mg/l	KH-I-3B-25	11/29/99
Xylenes	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Acrolein	EPA-624	<100	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/16/99

CLIENT'S SAMPLE ID: WP-GMMW10-111699

Date sample received: 11/16/99

AES sample #: 991116ADO2

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Dichlorodifluoromethane	EPA-624	<500	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/16/99

CLIENT'S SAMPLE ID: WP-GWMW12-111699

Date sample received: 11/16/99

AES sample #: 991116ADO3

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	SH-N-2	11/16/99
Turbidity	EPA-180.1	20	ntu	SH-I-30	11/17/99
Total Suspended Solids	EPA-160.2	14	mg/l	SH-O-13	11/19/99
Chloride	EPA-300.0	41	mg/l	SH-IC-D115	11/17/99
Sulfate	EPA-300.0	140	mg/l	SH-IC-D115	11/17/99
Nitrate-N	EPA-300.0	<0.02	mg/l	SH-IC-D115	11/17/99
Chromium	EPA-200.7	0.005	mg/l	KH-I-3B-25	11/29/99
Iron	EPA-200.7	0.15	mg/l	KH-I-3B-25	11/29/99
Manganese	EPA-200.7	0.11	mg/l	KH-I-3B-25	11/29/99
Xylenes	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Acrolein	EPA-624	<100	ug/l	MG-BU-15	11/19/99
Acrylonitrile	EPA-624	<25	ug/l	MG-BU-15	11/19/99
Chloromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromomethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Vinyl Chloride	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Chloroethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Methylene Chloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichlorofluoromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1-Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GMMW12-111699

AES sample #: 991116ADO3

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

MATRIX: Ground Water

Date Sampled: 11/16/99

Date sample received: 11/16/99

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>
1,2-Dichloroethene Total	EPA-624	8	ug/l	MG-BU-15	11/19/99
Chloroform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2 Dichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,1-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Carbon Tetrachloride	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Bromodichloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,2-Dichloropropane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
t-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Trichloroethene	EPA-624	120	ug/l	MG-BU-15	11/19/99
Benzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromoform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Toluene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99



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CLIENT: Normandeau Associates

Date Sampled: 11/16/99

CLIENT'S SAMPLE ID: WP-GWMW12-111699

Date sample received: 11/16/99

AES sample #: 991116ADO3

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
Dichlorodifluoromethane		EPA-624	<10	ug/l	MG-BU-15		11/19/99	



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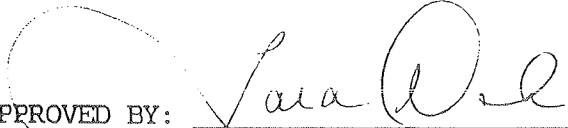
CLIENT: Normandeau Associates
CLIENT'S SAMPLE ID: Trip Blank

Date Sampled: 11/16/99
Date sample received: 11/16/99
Location: Ward Products
grab

AES sample #: 991116ADO5
Samples taken by: A.L./S.L.
MATRIX: Water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Benzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Dibromochloromethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2-Trichloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
2-Chloroethylvinylether	EPA-624	<10	ug/l	MG-BU-15	11/19/99
Bromoform	EPA-624	<5	ug/l	MG-BU-15	11/19/99
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Tetrachloroethene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Toluene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Chlorobenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Ethylbenzene	EPA-624	<5	ug/l	MG-BU-15	11/19/99
Dichlorodifluoromethane	EPA-624	<10	ug/l	MG-BU-15	11/19/99

APPROVED BY: 
Report date: 12/02/99



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CHAIN OF CUSTODY RECORD

CLIENT NAME NORMANDEAU ASSOC.		PROJECT NAME (Location) WARD PRODUCTS AMSTERDAM, NY		SAMPLERS: (Names) AL LARSON + STEVE LEE				
ADDRESS 25 NASHUA 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		
991116ADD1	WP-GWMW9-111699	11/16/99	1120	A P	GW		X 6	FOR ALL SAMPLES: TOTAL SUSPENDED
ADD2	WP-GWMW16-111699	11/16/99	1150	A P	GW		X 6	SOLIDS, TURBIDITY,
ADD3	WP-GWMW12-111699	11/16/99	1205	A P	GW		X 6	CHLORIDE, HEXAVALENT,
ADD4	WP-GWMW13-111699	11/16/99	1205	A P	GW		X 6	CHROMIUM, TOTAL
ADD5	Trip Blank	-		A P	WA		X 1	CHROMIUM, IRON,
				A P				MANGANESE, NITRATE
				A P				SULFATE +
				A P				VOCs (8260 VOC)
				A P				
				A P				
				A P				
				A P				
				A P				
				A P				
				A P				
				A P				
Turnaround Time:			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:				Date/Time	
Method of Shipment: DROP OFF			Send Report To: AL LARSON				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

Adirondack Environmental Services, Inc.

JUNE 2000



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: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW1-052300

Date sample received: 05/23/00

AES sample #: 000523AJ01

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.69	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	37	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.60	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW1-052300

AES sample #: 000523AJ01

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

MATRIX: Ground Water

Date Sampled: 05/23/00

Date sample received: 05/23/00

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>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichloroethene	EPA-624	110	ug/l	JF-BV-30	06/01/00
Benzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromoform	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Toluene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW1R-052300

Date sample received: 05/23/00

AES sample #: 000523AJ02

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.30	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	2.6	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.323	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<200	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW1R-052300

Date sample received: 05/23/00

AES sample #: 000523AJ02

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Trichloroethene	EPA-624	160	ug/l	JF-BV-30	06/01/00
Benzene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Dibromochloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Bromoform	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Tetrachloroethene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Toluene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Chlorobenzene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Ethylbenzene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW2-052300

Date sample received: 05/23/00

AES sample #: 000523AJ03

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.19	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	20	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.190	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW2-052300

AES sample #: 000523AJ03

Date Sampled: 05/23/00

Date sample received: 05/23/00

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Benzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromoform	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Toluene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW3-052300

Date sample received: 05/23/00

AES sample #: 000523AJ04

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	6.1	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.010	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW3-052300

Date sample received: 05/23/00

AES sample #: 000523AJ04

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Benzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromoform	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Toluene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GMMW4-052300

Date sample received: 05/23/00

AES sample #: 000523AJ05

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.08	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	2.2	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.079	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<125	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW4-052300

Date sample received: 05/23/00

AES sample #: 000523AJ05

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Trichloroethene	EPA-624	460	ug/l	JF-BV-30	06/01/00
Benzene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Dibromochloromethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Bromoform	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Tetrachloroethene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Toluene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Chlorobenzene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Ethylbenzene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane	EPA-624	<50	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GMMW4R-052300

Date sample received: 05/23/00

AES sample #: 000523AJ06

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	7.2	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.017	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<10000	ug/l	JF-BV-30	06/02/00
Acrylonitrile	EPA-624	<2500	ug/l	JF-BV-30	06/02/00
Chloromethane	EPA-624	<1000	ug/l	JF-BV-30	06/02/00
Bromomethane	EPA-624	<1000	ug/l	JF-BV-30	06/02/00
Vinyl Chloride	EPA-624	<1000	ug/l	JF-BV-30	06/02/00
Chloroethane	EPA-624	<1000	ug/l	JF-BV-30	06/02/00
Methylene Chloride	EPA-624	<500	ug/l	JF-BV-30	06/02/00
Trichlorofluoromethane	EPA-624	<500	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethene	EPA-624	<500	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethane	EPA-624	<500	ug/l	JF-BV-30	06/02/00
1,2-Dichloroethene Total	EPA-624	<500	ug/l	JF-BV-30	06/02/00
Chloroform	EPA-624	<500	ug/l	JF-BV-30	06/02/00
1,2 Dichloroethane	EPA-624	<500	ug/l	JF-BV-30	06/02/00
1,1,1-Trichloroethane	EPA-624	<500	ug/l	JF-BV-30	06/02/00
Carbon Tetrachloride	EPA-624	<500	ug/l	JF-BV-30	06/02/00
Bromodichloromethane	EPA-624	<500	ug/l	JF-BV-30	06/02/00



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW4R-052300

Date sample received: 05/23/00

AES sample #: 000523AJ06

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<500	ug/l	JF-BV-30	06/02/00
t-1,3-Dichloropropene		EPA-624	<500	ug/l	JF-BV-30	06/02/00
Trichloroethene		EPA-624	20,000	ug/l	JF-BV-30	06/02/00
Benzene		EPA-624	<500	ug/l	JF-BV-30	06/02/00
Dibromochloromethane		EPA-624	<500	ug/l	JF-BV-30	06/02/00
1,1,2-Trichloroethane		EPA-624	<500	ug/l	JF-BV-30	06/02/00
cis-1,3-Dichloropropene		EPA-624	<500	ug/l	JF-BV-30	06/02/00
2-Chloroethylvinylether		EPA-624	<1000	ug/l	JF-BV-30	06/02/00
Bromoform		EPA-624	<500	ug/l	JF-BV-30	06/02/00
1,1,2,2-Tetrachloroethane		EPA-624	<500	ug/l	JF-BV-30	06/02/00
Tetrachloroethene		EPA-624	<500	ug/l	JF-BV-30	06/02/00
Toluene		EPA-624	<500	ug/l	JF-BV-30	06/02/00
Chlorobenzene		EPA-624	<500	ug/l	JF-BV-30	06/02/00
Ethylbenzene		EPA-624	<500	ug/l	JF-BV-30	06/02/00
Dichlorodifluoromethane		EPA-624	<1000	ug/l	JF-BV-30	06/02/00



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW5-052300

Date sample received: 05/23/00

AES sample #: 000523AJ07

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	3.0	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.006	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<200	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	14	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW5-052300

Date sample received: 05/23/00

AES sample #: 000523AJ07

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Trichloroethene	EPA-624	280	ug/l	JF-BV-30	06/01/00
Benzene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Dibromochloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Bromoform	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Tetrachloroethene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Toluene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Chlorobenzene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Ethylbenzene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GMMW6-052300

Date sample received: 05/23/00

AES sample #: 000523AJ08

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.28	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	45	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.271	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<5000	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<1250	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW6-052300

Date sample received: 05/23/00

AES sample #: 000523AJ08

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
1,2-Dichloropropane		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
t-1,3-Dichloropropene		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
Trichloroethene		EPA-624	7000	ug/l	JF-BV-30		06/01/00	
Benzene		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
Dibromochloromethane		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
1,1,2-Trichloroethane		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
cis-1,3-Dichloropropene		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
2-Chloroethylvinylether		EPA-624	<500	ug/l	JF-BV-30		06/01/00	
Bromoform		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
1,1,2,2-Tetrachloroethane		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
Tetrachloroethene		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
Toluene		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
Chlorobenzene		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
Ethylbenzene		EPA-624	<250	ug/l	JF-BV-30		06/01/00	
Dichlorodifluoromethane		EPA-624	<500	ug/l	JF-BV-30		06/01/00	



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW7-052300

Date sample received: 05/23/00

AES sample #: 000523AJ09

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.17	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	93	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.154	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<125	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW7-052300

AES sample #: 000523AJ09

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

MATRIX: Ground Water

Date Sampled: 05/23/00

Date sample received: 05/23/00

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>
1,2-Dichloropropane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Trichloroethene	EPA-624	1800	ug/l	JF-BV-30	06/01/00
Benzene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Dibromochloromethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Bromoform	EPA-624	<25	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Tetrachloroethene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Toluene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Chlorobenzene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Ethylbenzene	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane	EPA-624	<50	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW8-052300

Date sample received: 05/23/00

AES sample #: 000523AJ10

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.03	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	28	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.019	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<200	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<50	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<20	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	14	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW8-052300

Date sample received: 05/23/00

AES sample #: 000523AJ10

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<10	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene		EPA-624	<10	ug/l	JF-BV-30	06/01/00
Trichloroethene		EPA-624	720	ug/l	JF-BV-30	06/01/00
Benzene		EPA-624	<10	ug/l	JF-BV-30	06/01/00
Dibromochloromethane		EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane		EPA-624	<10	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene		EPA-624	<10	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether		EPA-624	<20	ug/l	JF-BV-30	06/01/00
Bromoform		EPA-624	<10	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane		EPA-624	<10	ug/l	JF-BV-30	06/01/00
Tetrachloroethene		EPA-624	<10	ug/l	JF-BV-30	06/01/00
Toluene		EPA-624	<10	ug/l	JF-BV-30	06/01/00
Chlorobenzene		EPA-624	<10	ug/l	JF-BV-30	06/01/00
Ethylbenzene		EPA-624	<10	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane		EPA-624	<20	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW9-052300

Date sample received: 05/23/00

AES sample #: 000523AJ11

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	500	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.006	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW9-052300

Date sample received: 05/23/00

AES sample #: 000523AJ11

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<5	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichloroethene		EPA-624	190	ug/l	JF-BV-30	06/01/00
Benzene		EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dibromochloromethane		EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane		EPA-624	<5	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether		EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromoform		EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	JF-BV-30	06/01/00
Tetrachloroethene		EPA-624	<5	ug/l	JF-BV-30	06/01/00
Toluene		EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chlorobenzene		EPA-624	<5	ug/l	JF-BV-30	06/01/00
Ethylbenzene		EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane		EPA-624	<10	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWW10-052300

Date sample received: 05/23/00

AES sample #: 000523AJ12

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	8.0	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.021	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<5000	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<1250	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWW10-052300

Date sample received: 05/23/00

AES sample #: 000523AJ12

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Trichloroethene	EPA-624	12,000	ug/l	JF-BV-30	06/01/00
Benzene	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Dibromochloromethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene	EPA-624	<250	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether	EPA-624	<500	ug/l	JF-BV-30	06/01/00
Bromoform	EPA-624	<250	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Tetrachloroethene	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Toluene	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Chlorobenzene	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Ethylbenzene	EPA-624	<250	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane	EPA-624	<500	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW11-052300

Date sample received: 05/23/00

AES sample #: 000523AJ13

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	6.4	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.008	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/01/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/01/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWMW11-052300

Date sample received: 05/23/00

AES sample #: 000523AJ13

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Benzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-30	06/01/00
Bromoform	EPA-624	<5	ug/l	JF-BV-30	06/01/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Toluene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-30	06/01/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/01/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWDUP-052300

Date sample received: 05/23/00

AES sample #: 000523AJ14

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.17	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	99	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.152	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Acrolein	EPA-624	<1000	ug/l	JF-BV-30	06/02/00
Acrylonitrile	EPA-624	<250	ug/l	JF-BV-30	06/02/00
Chloromethane	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Bromomethane	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Vinyl Chloride	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Chloroethane	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Methylene Chloride	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Trichlorofluoromethane	EPA-624	<50	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethene	EPA-624	<50	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethane	EPA-624	<50	ug/l	JF-BV-30	06/02/00
1,2-Dichloroethene Total	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Chloroform	EPA-624	<50	ug/l	JF-BV-30	06/02/00
1,2 Dichloroethane	EPA-624	<50	ug/l	JF-BV-30	06/02/00
1,1,1-Trichloroethane	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Carbon Tetrachloride	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Bromodichloromethane	EPA-624	<50	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-GWDUP-052300

Date sample received: 05/23/00

AES sample #: 000523AJ14

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<50	ug/l	JF-BV-30	06/02/00
t-1,3-Dichloropropene	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Trichloroethene	EPA-624	1500	ug/l	JF-BV-30	06/02/00
Benzene	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Dibromochloromethane	EPA-624	<50	ug/l	JF-BV-30	06/02/00
1,1,2-Trichloroethane	EPA-624	<50	ug/l	JF-BV-30	06/02/00
cis-1,3-Dichloropropene	EPA-624	<50	ug/l	JF-BV-30	06/02/00
2-Chloroethylvinylether	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Bromoform	EPA-624	<50	ug/l	JF-BV-30	06/02/00
1,1,2,2-Tetrachloroethane	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Tetrachloroethene	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Toluene	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Chlorobenzene	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Ethylbenzene	EPA-624	<50	ug/l	JF-BV-30	06/02/00
Dichlorodifluoromethane	EPA-624	<100	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-SWUP-052300

Date sample received: 05/23/00

AES sample #: 000523AJ15

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	17	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.009	mg/l	KH-I-3C-62	06/06/00
Hardness ,Total as CaCO3	EPA 200.7	93	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/02/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-SWUP-052300

Date sample received: 05/23/00

AES sample #: 000523AJ15

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Benzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Bromoform	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Toluene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-SWDN-052300

Date sample received: 05/23/00

AES sample #: 000523AJ16

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	11	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.014	mg/l	KH-I-3C-62	06/06/00
Hardness ,Total as CaCO3	EPA 200.7	105	mg/l	KH-I-3C-62	06/06/00
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/02/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

Date Sampled: 05/23/00

CLIENT'S SAMPLE ID: WP-SWDN-052300

Date sample received: 05/23/00

AES sample #: 000523AJ16

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Benzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Bromoform	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Toluene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: Trip Blank

AES sample #: 000523AJ17

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

MATRIX: Water

Date Sampled: 05/23/00

Date sample received: 05/23/00

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>
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/02/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

Date Sampled: 05/24/00

CLIENT'S SAMPLE ID: WP-GWMW12-052400

Date sample received: 05/24/00

AES sample #: 000524 X01

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	7.9	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	0.006	mg/l	KH-I-3C-63	06/07/00
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/02/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2-Dichloroethene Total	EPA-624	9.9	ug/l	JF-BV-30	06/02/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW12-052400

AES sample #: 000524 X01

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

MATRIX: Ground Water

Date Sampled: 05/24/00

Date sample received: 05/24/00

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>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichloroethene	EPA-624	120	ug/l	JF-BV-30	06/02/00
Benzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Bromoform	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Toluene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

Date Sampled: 05/24/00

CLIENT'S SAMPLE ID: WP-GWMW13-052400

Date sample received: 05/24/00

AES sample #: 000524 X02

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-23	05/24/00
Turbidity	EPA-180.1	908	ntu	PL-I-49	05/24/00
Chromium	EPA-200.7	<0.005	mg/l	KH-I-3C-63	06/07/00
Xylenes	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Acrolein	EPA-624	<100	ug/l	JF-BV-30	06/02/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BV-30	06/02/00
Chloromethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Bromomethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Chloroethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethene	EPA-624	14	ug/l	JF-BV-30	06/02/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2-Dichloroethene Total	EPA-624	58	ug/l	JF-BV-30	06/02/00
Chloroform	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00



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CLIENT: Normandeau Associates

Date Sampled: 05/24/00

CLIENT'S SAMPLE ID: WP-GWMW13-052400

Date sample received: 05/24/00

AES sample #: 000524 X02

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

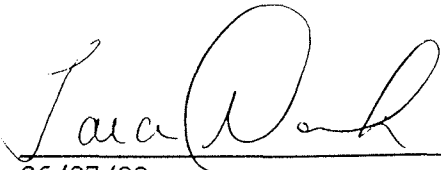
Location: Ward Products

MATRIX: Ground Water

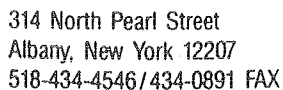
grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Trichloroethene	EPA-624	530	ug/l	JF-BV-30	06/02/00
Benzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BV-30	06/02/00
Bromoform	EPA-624	<5	ug/l	JF-BV-30	06/02/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Toluene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BV-30	06/02/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BV-30	06/02/00

APPROVED BY: 

Report date: 06/07/00



CHAIN OF CUSTODY RECORD

[illegible]

Turnaround Time: Standard

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: (Signature)	
Method of Shipment:		Send Report To:		Client Phone No.:

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

Adirondack Environmental Services, Inc.

AUGUST 2000



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW5-082300

Date sample received: 08/23/00

AES sample #: 000823BR01

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTE/BOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	15	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	<0.005	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Acrolein	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Acrylonitrile	EPA-624	<125	ug/l	JF-BW-9	08/28/00
Chloromethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Bromomethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Vinyl Chloride	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Chloroethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Methylene Chloride	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Trichlorofluoromethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,2-Dichloroethene Total	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Chloroform	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,2 Dichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1,1-Trichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Carbon Tetrachloride	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Bromodichloromethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW5-082300

Date sample received: 08/23/00

AES sample #: 000823BR01

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
t-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Trichloroethene	EPA-624	300	ug/l	JF-BW-9	08/28/00
Benzene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Dibromochloromethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1,2-Trichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
2-Chloroethylvinylether	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Bromoform	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Tetrachloroethene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Toluene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Chlorobenzene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Ethylbenzene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Dichlorodifluoromethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW1-082300

Date sample received: 08/23/00

AES sample #: 000823BR02

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.46	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	126	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.520	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/25/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/25/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Chloroform	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW1-082300

Date sample received: 08/23/00

AES sample #: 000823BR02

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES/REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Trichloroethene	EPA-624	100	ug/l	JF-BW-9	08/25/00
Benzene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Bromoform	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Toluene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW1R-082300

Date sample received: 08/23/00

AES sample #: 000823BR03

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.41	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	37	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.349	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/25/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/25/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,2-Dichloroethene Total	EPA-624	14	ug/l	JF-BW-9	08/25/00
Chloroform	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Carbon Tetrachloride	EPA-624	10	ug/l	JF-BW-9	08/25/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW1R-082300

Date sample received: 08/23/00

AES sample #: 000823BR03

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<5	ug/l	JF-BW-9	08/25/00
t-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9	08/25/00
Trichloroethene		EPA-624	170	ug/l	JF-BW-9	08/25/00
Benzene		EPA-624	<5	ug/l	JF-BW-9	08/25/00
Dibromochloromethane		EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1,2-Trichloroethane		EPA-624	<5	ug/l	JF-BW-9	08/25/00
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9	08/25/00
2-Chloroethylvinylether		EPA-624	<10	ug/l	JF-BW-9	08/25/00
Bromoform		EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	JF-BW-9	08/25/00
Tetrachloroethene		EPA-624	<5	ug/l	JF-BW-9	08/25/00
Toluene		EPA-624	<5	ug/l	JF-BW-9	08/25/00
Chlorobenzene		EPA-624	<5	ug/l	JF-BW-9	08/25/00
Ethylbenzene		EPA-624	<5	ug/l	JF-BW-9	08/25/00
Dichlorodifluoromethane		EPA-624	<10	ug/l	JF-BW-9	08/25/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW2-082300

Date sample received: 08/23/00

AES sample #: 000823BR04

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.15	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	43	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.134	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/25/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/25/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/25/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Chloroform	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/25/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/25/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW2-082300

Date sample received: 08/23/00

AES sample #: 000823BR04

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<5	ug/l	JF-BW-9		08/25/00
t-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9		08/25/00
Trichloroethene		EPA-624	<5	ug/l	JF-BW-9		08/25/00
Benzene		EPA-624	<5	ug/l	JF-BW-9		08/25/00
Dibromochloromethane		EPA-624	<5	ug/l	JF-BW-9		08/25/00
1,1,2-Trichloroethane		EPA-624	<5	ug/l	JF-BW-9		08/25/00
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9		08/25/00
2-Chloroethylvinylether		EPA-624	<10	ug/l	JF-BW-9		08/25/00
Bromoform		EPA-624	<5	ug/l	JF-BW-9		08/25/00
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	JF-BW-9		08/25/00
Tetrachloroethene		EPA-624	<5	ug/l	JF-BW-9		08/25/00
Toluene		EPA-624	<5	ug/l	JF-BW-9		08/25/00
Chlorobenzene		EPA-624	<5	ug/l	JF-BW-9		08/25/00
Ethylbenzene		EPA-624	<5	ug/l	JF-BW-9		08/25/00
Dichlorodifluoromethane		EPA-624	<10	ug/l	JF-BW-9		08/25/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW6-082300

Date sample received: 08/23/00

AES sample #: 000823BR05

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.27	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	67	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.237	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Acrolein	EPA-624	<10000	ug/l	JF-BW-9	08/28/00
Acrylonitrile	EPA-624	<2500	ug/l	JF-BW-9	08/28/00
Chloromethane	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Bromomethane	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Vinyl Chloride	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Chloroethane	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Methylene Chloride	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Trichlorofluoromethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethene	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,2-Dichloroethene Total	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Chloroform	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,2 Dichloroethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1,1-Trichloroethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Carbon Tetrachloride	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Bromodichloromethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW6-082300

AES sample #: 000823BR05

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

MATRIX: Ground Water

Date Sampled: 08/23/00

Date sample received: 08/23/00

Location: Ward Products
grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST</u>	<u>DATE</u>
1,2-Dichloropropane		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
t-1,3-Dichloropropene		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
Trichloroethene		EPA-624	3500	ug/l	JF-BW-9		08/28/00	
Benzene		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
Dibromochloromethane		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
1,1,2-Trichloroethane		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
cis-1,3-Dichloropropene		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
2-Chloroethylvinylether		EPA-624	<1000	ug/l	JF-BW-9		08/28/00	
Bromoform		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
1,1,2,2-Tetrachloroethane		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
Tetrachloroethene		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
Toluene		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
Chlorobenzene		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
Ethylbenzene		EPA-624	<500	ug/l	JF-BW-9		08/28/00	
Dichlorodifluoromethane		EPA-624	<1000	ug/l	JF-BW-9		08/28/00	



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW4-082300

Date sample received: 08/23/00

AES sample #: 000823BR06

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.07	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	10	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.068	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Acrolein	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Acrylonitrile	EPA-624	<125	ug/l	JF-BW-9	08/28/00
Chloromethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Bromomethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Vinyl Chloride	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Chloroethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Methylene Chloride	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Trichlorofluoromethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,2-Dichloroethene Total	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Chloroform	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,2 Dichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1,1-Trichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Carbon Tetrachloride	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Bromodichloromethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW4-082300

Date sample received: 08/23/00

AES sample #: 000823BR06

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
t-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Trichloroethene	EPA-624	470	ug/l	JF-BW-9	08/28/00
Benzene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Dibromochloromethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1,2-Trichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
2-Chloroethylvinylether	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Bromoform	EPA-624	<25	ug/l	JF-BW-9	08/28/00
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Tetrachloroethene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Toluene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Chlorobenzene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Ethylbenzene	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Dichlorodifluoromethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW4R-082300

Date sample received: 08/23/00

AES sample #: 000823BR07

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	28	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.006	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Acrolein	EPA-624	<10000	ug/l	JF-BW-9	08/28/00
Acrylonitrile	EPA-624	<2500	ug/l	JF-BW-9	08/28/00
Chloromethane	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Bromomethane	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Vinyl Chloride	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Chloroethane	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Methylene Chloride	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Trichlorofluoromethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethene	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,2-Dichloroethene Total	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Chloroform	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,2 Dichloroethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1,1-Trichloroethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Carbon Tetrachloride	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Bromodichloromethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW4R-082300

Date sample received: 08/23/00

AES sample #: 000823BR07

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK</u>	<u>REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<500	ug/l	JF-BW-9		08/28/00
t-1,3-Dichloropropene		EPA-624	<500	ug/l	JF-BW-9		08/28/00
Trichloroethene		EPA-624	19,000	ug/l	JF-BW-9		08/28/00
Benzene		EPA-624	<500	ug/l	JF-BW-9		08/28/00
Dibromochloromethane		EPA-624	<500	ug/l	JF-BW-9		08/28/00
1,1,2-Trichloroethane		EPA-624	<500	ug/l	JF-BW-9		08/28/00
cis-1,3-Dichloropropene		EPA-624	<500	ug/l	JF-BW-9		08/28/00
2-Chloroethylvinylether		EPA-624	<1000	ug/l	JF-BW-9		08/28/00
Bromoform		EPA-624	<500	ug/l	JF-BW-9		08/28/00
1,1,2,2-Tetrachloroethane		EPA-624	<500	ug/l	JF-BW-9		08/28/00
Tetrachloroethene		EPA-624	<500	ug/l	JF-BW-9		08/28/00
Toluene		EPA-624	<500	ug/l	JF-BW-9		08/28/00
Chlorobenzene		EPA-624	<500	ug/l	JF-BW-9		08/28/00
Ethylbenzene		EPA-624	<500	ug/l	JF-BW-9		08/28/00
Dichlorodifluoromethane		EPA-624	<1000	ug/l	JF-BW-9		08/28/00



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWDUP-082300

Date sample received: 08/23/00

AES sample #: 000823BR08

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	40	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.018	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Acrolein	EPA-624	<10000	ug/l	JF-BW-9	08/28/00
Acrylonitrile	EPA-624	<2500	ug/l	JF-BW-9	08/28/00
Chloromethane	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Bromomethane	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Vinyl Chloride	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Chloroethane	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Methylene Chloride	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Trichlorofluoromethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethene	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,2-Dichloroethene Total	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Chloroform	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,2 Dichloroethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1,1-Trichloroethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Carbon Tetrachloride	EPA-624	<500	ug/l	JF-BW-9	08/28/00
Bromodichloromethane	EPA-624	<500	ug/l	JF-BW-9	08/28/00



Experience is the solution

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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWDUP-082300

AES sample #: 000823BR08

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

MATRIX: Ground Water

Date Sampled: 08/23/00

Date sample received: 08/23/00

Location: Ward Products
grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<500	ug/l	JF-BW-9	08/28/00
t-1,3-Dichloropropene		EPA-624	<500	ug/l	JF-BW-9	08/28/00
Trichloroethene		EPA-624	7000	ug/l	JF-BW-9	08/28/00
Benzene		EPA-624	<500	ug/l	JF-BW-9	08/28/00
Dibromochloromethane		EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1,2-Trichloroethane		EPA-624	<500	ug/l	JF-BW-9	08/28/00
cis-1,3-Dichloropropene		EPA-624	<500	ug/l	JF-BW-9	08/28/00
2-Chloroethylvinylether		EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Bromoform		EPA-624	<500	ug/l	JF-BW-9	08/28/00
1,1,2,2-Tetrachloroethane		EPA-624	<500	ug/l	JF-BW-9	08/28/00
Tetrachloroethene		EPA-624	<500	ug/l	JF-BW-9	08/28/00
Toluene		EPA-624	<500	ug/l	JF-BW-9	08/28/00
Chlorobenzene		EPA-624	<500	ug/l	JF-BW-9	08/28/00
Ethylbenzene		EPA-624	<500	ug/l	JF-BW-9	08/28/00
Dichlorodifluoromethane		EPA-624	<1000	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW7-082300

Date sample received: 08/23/00

AES sample #: 000823BR09

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.07	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	170	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.066	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Acrolein	EPA-624	<1000	ug/l	JF-BW-9	08/28/00
Acrylonitrile	EPA-624	<250	ug/l	JF-BW-9	08/28/00
Chloromethane	EPA-624	<100	ug/l	JF-BW-9	08/28/00
Bromomethane	EPA-624	<100	ug/l	JF-BW-9	08/28/00
Vinyl Chloride	EPA-624	<100	ug/l	JF-BW-9	08/28/00
Chloroethane	EPA-624	<100	ug/l	JF-BW-9	08/28/00
Methylene Chloride	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Trichlorofluoromethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethene	EPA-624	<50	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
1,2-Dichloroethene Total	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Chloroform	EPA-624	<50	ug/l	JF-BW-9	08/28/00
1,2 Dichloroethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
1,1,1-Trichloroethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Carbon Tetrachloride	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Bromodichloromethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW7-082300

AES sample #: 000823BR09

Date Sampled: 08/23/00

Date sample received: 08/23/00

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

Location: Ward Products
grab

MATRIX: Ground Water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
t-1,3-Dichloropropene	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Trichloroethene	EPA-624	680	ug/l	JF-BW-9	08/28/00
Benzene	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Dibromochloromethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
1,1,2-Trichloroethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
cis-1,3-Dichloropropene	EPA-624	<50	ug/l	JF-BW-9	08/28/00
2-Chloroethylvinylether	EPA-624	<100	ug/l	JF-BW-9	08/28/00
Bromoform	EPA-624	<50	ug/l	JF-BW-9	08/28/00
1,1,2,2-Tetrachloroethane	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Tetrachloroethene	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Toluene	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Chlorobenzene	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Ethylbenzene	EPA-624	<50	ug/l	JF-BW-9	08/28/00
Dichlorodifluoromethane	EPA-624	<100	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW10-082300

Date sample received: 08/23/00

AES sample #: 000823BR10

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	25	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.012	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Acrolein	EPA-624	<5000	ug/l	JF-BW-9	08/29/00
Acrylonitrile	EPA-624	<1250	ug/l	JF-BW-9	08/29/00
Chloromethane	EPA-624	<500	ug/l	JF-BW-9	08/29/00
Bromomethane	EPA-624	<500	ug/l	JF-BW-9	08/29/00
Vinyl Chloride	EPA-624	<500	ug/l	JF-BW-9	08/29/00
Chloroethane	EPA-624	<500	ug/l	JF-BW-9	08/29/00
Methylene Chloride	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Trichlorofluoromethane	EPA-624	<250	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethene	EPA-624	<250	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethane	EPA-624	<250	ug/l	JF-BW-9	08/29/00
1,2-Dichloroethene Total	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Chloroform	EPA-624	<250	ug/l	JF-BW-9	08/29/00
1,2 Dichloroethane	EPA-624	<250	ug/l	JF-BW-9	08/29/00
1,1,1-Trichloroethane	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Carbon Tetrachloride	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Bromodichloromethane	EPA-624	<250	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW10-082300

AES sample #: 000823BR10

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

MATRIX: Ground Water

Date Sampled: 08/23/00

Date sample received: 08/23/00

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>
1,2-Dichloropropane	EPA-624	<250	ug/l	JF-BW-9	08/29/00
t-1,3-Dichloropropene	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Trichloroethene	EPA-624	7000	ug/l	JF-BW-9	08/29/00
Benzene	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Dibromochloromethane	EPA-624	<250	ug/l	JF-BW-9	08/29/00
1,1,2-Trichloroethane	EPA-624	<250	ug/l	JF-BW-9	08/29/00
cis-1,3-Dichloropropene	EPA-624	<250	ug/l	JF-BW-9	08/29/00
2-Chloroethylvinylether	EPA-624	<500	ug/l	JF-BW-9	08/29/00
Bromoform	EPA-624	<250	ug/l	JF-BW-9	08/29/00
1,1,2,2-Tetrachloroethane	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Tetrachloroethene	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Toluene	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Chlorobenzene	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Ethylbenzene	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Dichlorodifluoromethane	EPA-624	<500	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW9-082300

Date sample received: 08/23/00

AES sample #: 000823BR11

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	265	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.005	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/28/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/28/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/28/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/28/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/28/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Chloroform	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00



Experience is the solution

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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW9-082300

Date sample received: 08/23/00

AES sample #: 000823BR11

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<5	ug/l	JF-BW-9	08/28/00
t-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Trichloroethene		EPA-624	150	ug/l	JF-BW-9	08/28/00
Benzene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Dibromochloromethane		EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1,2-Trichloroethane		EPA-624	<5	ug/l	JF-BW-9	08/28/00
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
2-Chloroethylvinylether		EPA-624	<10	ug/l	JF-BW-9	08/28/00
Bromoform		EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Tetrachloroethene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Toluene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Chlorobenzene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Ethylbenzene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Dichlorodifluoromethane		EPA-624	<10	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-SWDN-082300

Date sample received: 08/23/00

AES sample #: 000823BR12

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.08	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	5	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.066	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/28/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/28/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/28/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/28/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/28/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/28/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Chloroform	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/28/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-SWDN-082300

Date sample received: 08/23/00

AES sample #: 000823BR12

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<5	ug/l	JF-BW-9	08/28/00
t-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Trichloroethene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Benzene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Dibromochloromethane		EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1,2-Trichloroethane		EPA-624	<5	ug/l	JF-BW-9	08/28/00
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
2-Chloroethylvinylether		EPA-624	<10	ug/l	JF-BW-9	08/28/00
Bromoform		EPA-624	<5	ug/l	JF-BW-9	08/28/00
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Tetrachloroethene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Toluene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Chlorobenzene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Ethylbenzene		EPA-624	<5	ug/l	JF-BW-9	08/28/00
Dichlorodifluoromethane		EPA-624	<10	ug/l	JF-BW-9	08/28/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GWMW13-082300

Date sample received: 08/23/00

AES sample #: 000823BR13

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.2	mg/l	LS-N-35	08/24/00
Turbidity	EPA-180.1	57	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	<0.005	mg/l	MW-I-3D-25	08/31/00
Xylenes	EPA-624	<250	ug/l	JF-BW-9	08/29/00
Acrolein	EPA-624	<500	ug/l	JF-BW-9	08/29/00
Acrylonitrile	EPA-624	<125	ug/l	JF-BW-9	08/29/00
Chloromethane	EPA-624	<50	ug/l	JF-BW-9	08/29/00
Bromomethane	EPA-624	<50	ug/l	JF-BW-9	08/29/00
Vinyl Chloride	EPA-624	<50	ug/l	JF-BW-9	08/29/00
Chloroethane	EPA-624	<50	ug/l	JF-BW-9	08/29/00
Methylene Chloride	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Trichlorofluoromethane	EPA-624	<25	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethene	EPA-624	<25	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/29/00
1,2-Dichloroethene Total	EPA-624	55	ug/l	JF-BW-9	08/29/00
Chloroform	EPA-624	<25	ug/l	JF-BW-9	08/29/00
1,2 Dichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/29/00
1,1,1-Trichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Carbon Tetrachloride	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Bromodichloromethane	EPA-624	<25	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

Date Sampled: 08/23/00

CLIENT'S SAMPLE ID: WP-GMMW13-082300

Date sample received: 08/23/00

AES sample #: 000823BR13

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<25	ug/l	JF-BW-9	08/29/00
t-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Trichloroethene	EPA-624	650	ug/l	JF-BW-9	08/29/00
Benzene	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Dibromochloromethane	EPA-624	<25	ug/l	JF-BW-9	08/29/00
1,1,2-Trichloroethane	EPA-624	<25	ug/l	JF-BW-9	08/29/00
cis-1,3-Dichloropropene	EPA-624	<25	ug/l	JF-BW-9	08/29/00
2-Chloroethylvinylether	EPA-624	<50	ug/l	JF-BW-9	08/29/00
Bromoform	EPA-624	<25	ug/l	JF-BW-9	08/29/00
1,1,2,2-Tetrachloroethane	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Tetrachloroethene	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Toluene	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Chlorobenzene	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Ethylbenzene	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Dichlorodifluoromethane	EPA-624	<50	ug/l	JF-BW-9	08/29/00

APPROVED BY: 

Report date: 09/06/00



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Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME NORMAN OLEUM ASSOC.		PROJECT NAME (Location) WARD PRODUCTS		SAMPLERS: (Names) AL LARSON / STEVE LEE				
ADDRESS 25 NASHUA ROAD T360 FORD NH 03110		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	COMP	GRAB		
000823 BR01	WP-GWMW5-082300	8/23/00	1050 A	GW		X	4	VOC, HEX+TOTAL CR TURBIDITY
BR02	WP-GWMW1-082300	8/23/00	1050 A	GW		X	4	
BR03	WP-GWMW1R-082300	8/23/00	1055 A	GW		X	4	
BR04	WP-GWMW2-082300	8/23/00	1130 A	GW		X	4	
BR05	WP-GWMW6-082300	8/23/00	1120 A	GW		X	4	
BR06	WP-GWMW4-082300	8/23/00	1148 A	GW		X	4	
BR07	WP-GWMW4R-082300	8/23/00	1200 A	GW		X	4	
BR08	WP-GWDP-082300	8/23/00	— A	GW		X	4	
BR09	WP-GWMW7-082300	8/23/00	1655 A	GW		X	4	
BR10	WP-GWMW10-082300	8/23/00	1715 A	GW		X	4	
BR11	WP-GWMWA-082300	8/23/00	1740 A	GW		X	4	
BR12	WP-SWDN-082300	8/23/00	1625 A	SW		X	4	VOC, HEX+TOTAL CR, TURBIDITY+HAZARDOUS
BR13	WP-GWMW13-082300	8/23/00	1755 A	GW		X	4	VOC, HEX+TOTAL CR TURBIDITY

Turnaround Time: **NORMAL**

Laboratory Approval: *[Signature]*

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature)	Date/Time 8/23/00 1730
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: DROP OFF		Date/Time 8/23/00 19:31
Send Report To: AL LARSON		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

Adirondack Environmental Services, Inc.



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LABORATORY REPORT

for

Normandeau Associates
25 Nashua Road
Bedford, NH 03102

Attention: Al Larson

Report date: 09/06/00
Number of samples analyzed: 6
AES Project ID: 000823 G
Invoice #: 217296

ELAP ID#: 10709

AIHA ID#: 7866
Page

1



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CLIENT: Normandeau Associates

Date Sampled: 08/22/00

CLIENT'S SAMPLE ID: WP-GWMW3-082200

Date sample received: 08/23/00

AES sample #: 000823 G01

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/23/00
Turbidity	EPA-180.1	6	ntu	PL-J-03	08/23/00
Chromium	EPA-200.7	0.005	mg/l	KH-I-3D-28	09/05/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/29/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chloroform	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW3-082200

AES sample #: 000823 G01

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

MATRIX: Ground Water

Date Sampled: 08/22/00

Date sample received: 08/23/00

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>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Benzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromoform	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Toluene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

Date Sampled: 08/22/00

CLIENT'S SAMPLE ID: WP-GWMW8-082200

Date sample received: 08/23/00

AES sample #: 000823 G02

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/23/00
Turbidity	EPA-180.1	240	ntu	PL-J-03	08/23/00
Chromium	EPA-200.7	0.006	mg/l	KH-I-3D-28	09/05/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/29/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2-Dichloroethene Total	EPA-624	6.0	ug/l	JF-BW-9	08/29/00
Chloroform	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW8-082200

AES sample #: 000823 G02

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

MATRIX: Ground Water

Date Sampled: 08/22/00

Date sample received: 08/23/00

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>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichloroethene	EPA-624	130	ug/l	JF-BW-9	08/29/00
Benzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromoform	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Toluene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

Date Sampled: 08/22/00

CLIENT'S SAMPLE ID: WP-GWMW11-082200

Date sample received: 08/23/00

AES sample #: 000823 G03

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/23/00
Turbidity	EPA-180.1	98	ntu	PL-J-03	08/23/00
Chromium	EPA-200.7	0.007	mg/l	KH-I-3D-28	09/05/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/29/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chloroform	EPA-624	6.0	ug/l	JF-BW-9	08/29/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

Date Sampled: 08/22/00

CLIENT'S SAMPLE ID: WP-GWMW11-082200

Date sample received: 08/23/00

AES sample #: 000823 G03

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<5	ug/l	JF-BW-9	08/29/00
t-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichloroethene		EPA-624	<5	ug/l	JF-BW-9	08/29/00
Benzene		EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dibromochloromethane		EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2-Trichloroethane		EPA-624	<5	ug/l	JF-BW-9	08/29/00
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BW-9	08/29/00
2-Chloroethylvinylether		EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromoform		EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	JF-BW-9	08/29/00
Tetrachloroethene		EPA-624	<5	ug/l	JF-BW-9	08/29/00
Toluene		EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chlorobenzene		EPA-624	<5	ug/l	JF-BW-9	08/29/00
Ethylbenzene		EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dichlorodifluoromethane		EPA-624	<10	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

Date Sampled: 08/22/00

CLIENT'S SAMPLE ID: WP-GWMW12-082200

Date sample received: 08/23/00

AES sample #: 000823 G04

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/23/00
Turbidity	EPA-180.1	430	ntu	PL-J-03	08/23/00
Chromium	EPA-200.7	<0.005	mg/l	KH-I-3D-28	09/05/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/29/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2-Dichloroethene Total	EPA-624	8.0	ug/l	JF-BW-9	08/29/00
Chloroform	EPA-624	7.0	ug/l	JF-BW-9	08/29/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW12-082200

AES sample #: 000823 G04

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

MATRIX: Ground Water

Date Sampled: 08/22/00

Date sample received: 08/23/00

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>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichloroethene	EPA-624	83	ug/l	JF-BW-9	08/29/00
Benzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromoform	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Toluene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

Date Sampled: 08/22/00

CLIENT'S SAMPLE ID: WP-GWMW14-082200

Date sample received: 08/23/00

AES sample #: 000823 G05

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/23/00
Turbidity	EPA-180.1	89	ntu	PL-J-03	08/23/00
Chromium	EPA-200.7	0.011	mg/l	KH-I-3D-28	09/05/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/29/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chloroform	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW14-082200

AES sample #: 000823 G05

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

MATRIX: Ground Water

Date Sampled: 08/22/00

Date sample received: 08/23/00

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>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Benzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromoform	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Toluene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

Date Sampled: 08/22/00

CLIENT'S SAMPLE ID: WP-GWMW15-082200

Date sample received: 08/23/00

AES sample #: 000823 G06

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	LS-N-35	08/23/00
Turbidity	EPA-180.1	150	ntu	PL-J-05	08/24/00
Chromium	EPA-200.7	0.009	mg/l	KH-I-3D-28	09/05/00
Xylenes	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Acrolein	EPA-624	<100	ug/l	JF-BW-9	08/29/00
Acrylonitrile	EPA-624	<25	ug/l	JF-BW-9	08/29/00
Chloromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromomethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Vinyl Chloride	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Chloroethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Methylene Chloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chloroform	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Bromodichloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00



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CLIENT: Normandeau Associates

Date Sampled: 08/22/00

CLIENT'S SAMPLE ID: WP-GWMW15-082200

Date sample received: 08/23/00

AES sample #: 000823 G06

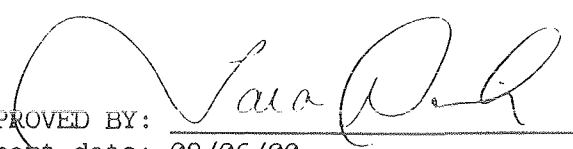
Samples taken by: A.L./S.L.

Location: Ward Products
grab

MATRIX: Ground Water

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Trichloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Benzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dibromochloromethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BW-9	08/29/00
Bromoform	EPA-624	<5	ug/l	JF-BW-9	08/29/00
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Tetrachloroethene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Toluene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Chlorobenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Ethylbenzene	EPA-624	<5	ug/l	JF-BW-9	08/29/00
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BW-9	08/29/00

APPROVED BY: 

Report date: 09/06/00

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A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME		PROJECT NAME (Location)		SAMPLERS: (Names)			
ADDRESS		PO NUMBER		SAMPLERS: (Signature)			
AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX		NUMBER OF CONT'S	ANALYSIS REQUIRED
000823 601	WP-6WMW3-082200	08/22/00	1540	A	GW	X 4	VOCs (820) HEX CHROME, TOTAL CHROME, TURBIDITY
602	WP-6WMW-8-082200	08/22/00	1600	A	GW	X 4	↓
603	WP-6WMW11-082200	08/22/00	1525	A	GW	X 4	
604	WP-6WMW12-082200	08/22/00	1505	A	GW	X 4	
605	WP-6WMW14-082200	08/22/00	1410	A	GW	X 4	
606	WP-6WMW15-082200	08/22/00	1440	A	GW	X 4	
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			
				A			
				P			
Turnaround Time:			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:			Date/Time	
Method of Shipment:		Send Report To:			Client Phone No.:		

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

Adirondack Environmental Services, Inc.

MAY 2001



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CLIENT: Normandeau Associates

Date Sampled: 05/21/01

CLIENT'S SAMPLE ID: WP-GWMW3-052101

Date sample received: 05/21/01

AES sample #: 010521 001

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-40	05/22/01
Turbidity	EPA-180.1	82	ntu	PL-J-38	05/22/01
Chromium	EPA-200.7	<0.005	mg/l	SM-I-3F-5	05/25/01
Xylenes	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Acrolein	EPA-624	<100	ug/l	JF-BX-50	05/25/01
Acrylonitrile	EPA-624	<25	ug/l	JF-BX-50	05/25/01
Chloromethane	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Bromomethane	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Vinyl Chloride	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Chloroethane	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Methylene Chloride	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Chloroform	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Bromodichloromethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GMMW3-052101

AES sample #: 010521 001

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

MATRIX: Ground Water

Date Sampled: 05/21/01

Date sample received: 05/21/01

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>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Trichloroethene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Benzene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Dibromochloromethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Bromoform	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Tetrachloroethene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Toluene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Chlorobenzene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Ethylbenzene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BX-50	05/25/01



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CLIENT: Normandeau Associates

Date Sampled: 05/21/01

CLIENT'S SAMPLE ID: WP-GWMW6-052101

Date sample received: 05/21/01

AES sample #: 010521 002

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.12	mg/l	PL-O-40	05/22/01
Turbidity	EPA-180.1	2.4	ntu	PL-J-38	05/22/01
Chromium	EPA-200.7	0.104	mg/l	SM-I-3F-5	05/25/01
Xylenes	EPA-624	<250	ug/l	JF-BX-50	05/25/01
Acrolein	EPA-624	<5000	ug/l	JF-BX-50	05/25/01
Acrylonitrile	EPA-624	<1250	ug/l	JF-BX-50	05/25/01
Chloromethane	EPA-624	<500	ug/l	JF-BX-50	05/25/01
Bromomethane	EPA-624	<500	ug/l	JF-BX-50	05/25/01
Vinyl Chloride	EPA-624	<500	ug/l	JF-BX-50	05/25/01
Chloroethane	EPA-624	<500	ug/l	JF-BX-50	05/25/01
Methylene Chloride	EPA-624	<250	ug/l	JF-BX-50	05/25/01
Trichlorofluoromethane	EPA-624	<250	ug/l	JF-BX-50	05/25/01
1,1-Dichloroethene	EPA-624	<250	ug/l	JF-BX-50	05/25/01
1,1-Dichloroethane	EPA-624	<250	ug/l	JF-BX-50	05/25/01
1,2-Dichloroethene Total	EPA-624	<250	ug/l	JF-BX-50	05/25/01
Chloroform	EPA-624	<250	ug/l	JF-BX-50	05/25/01
1,2 Dichloroethane	EPA-624	<250	ug/l	JF-BX-50	05/25/01
1,1,1-Trichloroethane	EPA-624	<250	ug/l	JF-BX-50	05/25/01
Carbon Tetrachloride	EPA-624	<250	ug/l	JF-BX-50	05/25/01
Bromodichloromethane	EPA-624	<250	ug/l	JF-BX-50	05/25/01



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CLIENT: Normandeau Associates

Date Sampled: 05/21/01

CLIENT'S SAMPLE ID: WP-GMMW12-052101

Date sample received: 05/21/01

AES sample #: 010521 006

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Trichloroethene	EPA-624	79	ug/l	JF-BX-50	05/25/01
Benzene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Dibromochloromethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Bromoform	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Tetrachloroethene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Toluene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Chlorobenzene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Ethylbenzene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BX-50	05/25/01



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CLIENT: Normandeau Associates

Date Sampled: 05/21/01

CLIENT'S SAMPLE ID: WP-GWMW13-052101

Date sample received: 05/21/01

AES sample #: 010521 007

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-40	05/22/01
Turbidity	EPA-180.1	96	ntu	PL-J-38	05/22/01
Chromium	EPA-200.7	0.005	mg/l	SM-I-3F-5	05/25/01
Xylenes	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Acrolein	EPA-624	<1000	ug/l	JF-BX-50	05/29/01
Acrylonitrile	EPA-624	<250	ug/l	JF-BX-50	05/29/01
Chloromethane	EPA-624	<100	ug/l	JF-BX-50	05/29/01
Bromomethane	EPA-624	<100	ug/l	JF-BX-50	05/29/01
Vinyl Chloride	EPA-624	<100	ug/l	JF-BX-50	05/29/01
Chloroethane	EPA-624	<100	ug/l	JF-BX-50	05/29/01
Methylene Chloride	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Trichlorofluoromethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,1-Dichloroethene	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,1-Dichloroethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,2-Dichloroethene Total	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Chloroform	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,2 Dichloroethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,1,1-Trichloroethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Carbon Tetrachloride	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Bromodichloromethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/21/01

CLIENT'S SAMPLE ID: WP-GWMW14-052101

Date sample received: 05/21/01

AES sample #: 010521 008

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Trichloroethene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Benzene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Dibromochloromethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Bromoform	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Tetrachloroethene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Toluene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Chlorobenzene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Ethylbenzene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BX-50	05/25/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-SWDN-052201

Date sample received: 05/22/01

AES sample #: 010522AT09

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	4.7	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	0.006	mg/l	SM-I-3F-6	05/29/01
Hardness ,Total as CaCO3	EPA 200.7	12.1	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Acrolein	EPA-624	<100	ug/l	JF-EY-1	05/29/01
Acrylonitrile	EPA-624	<25	ug/l	JF-BY-1	05/29/01
Chloromethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01
Bromomethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Vinyl Chloride	EPA-624	<10	ug/l	JF-EY-1	05/29/01
Chloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Methylene Chloride	EPA-624	<5	ug/l	JF-EY-1	05/29/01
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-EY-1	05/29/01
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-EY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-EY-1	05/29/01
Chloroform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-EY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-EY-1	05/29/01



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Albany, New York 12207
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CHAIN OF CUSTODY RECORD

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Client Name: NORMANDEAU ASSOC.		Address: 25 NASHUA ROAD, BEDFORD, NH 03110					
Send Report To: AL LARSON		Project Name (Location): Ward Products		Samplers: (Names) AL LARSON / Stephen Lee			
Client Phone No: 603-472-5191		PO Number: —		Samplers: (Signature) <i>Al Larson / Stephen Lee</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				
010522 ASD1	WP-GWMW1-052201	05/22/01	1155	A P	GW	✓	4	VOCs, TOTAL + HEX CHROME TURBIDITY		
ASD2	WP-GWMW1R-052201	↓	1205	A P	GW	✓	4	↓		
ASD3	WP-GWMW2-052201		1140	A P	GW	✓	4			
ASD4	WP-GWMW4-052201		1220	A P	GW	✓	4			
ASD5	WP-GWMW4R-052201		1235	A P	GW	✓	4			
ASD6	WP-GWMW5-052201		1125	A P	GW	✓	4			
ASD7	WP-GWMW9-052201		1050	A P	GW	✓	4			
ASD8	WP-GWMW10-052201		1110	A P	GW	✓	4			
ASD9	WP-SWDN-052201		1255	A P	SW	✓	4		VOCs, Total + Hex CHROME Turbidity, Hardness	
ASD10	Trip Blank		—	—	A P	WA	✓		2	VOCs
					A P					
				A P						
				A P						
				A P						
				A P						

Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day		Special Instructions/Remarks VOCs (8260)	
CC Report To: —			
Relinquished by: (Signature) <i>Stephen Lee</i>		Received by: (Signature) <i>[Signature]</i>	
Relinquished by: (Signature) —		Received for Laboratory by: <i>[Signature]</i>	
		Date/Time 5/22/01 4:10	
TEMPERATURE Ambient or <u>Chilled</u> Notes: _____		PROPERLY PRESERVED <u>Y</u> N Notes: _____	
		RECEIVED WITHIN HOLDING TIMES <u>Y</u> N Notes: _____	

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-SWDN-052201

Date sample received: 05/22/01

AES sample #: 010522AT09

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

Location: Ward Products

MATRIX: Surface Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	4.7	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	0.006	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Acrolein	EPA-624	<100	ug/l	JF-BY-1	05/29/01
Acrylonitrile	EPA-624	<25	ug/l	JF-BY-1	05/29/01
Chloromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromomethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Vinyl Chloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Methylene Chloride	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Chloroform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Bromodichloromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-SWDN-052201

Date sample received: 05/22/01

AES sample #: 010522AT09

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

Location: Ward Products

MATRIX: Surface Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Benzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dibromochloromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromoform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Tetrachloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Toluene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Chlorobenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Ethylbenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: Trip Blank

Date sample received: 05/22/01

AES sample #: 010522AT10

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

Location: Ward Products

MATRIX: Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Xylenes	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Acrolein	EPA-624	<100	ug/l	JF-BY-1	05/29/01
Acrylonitrile	EPA-624	<25	ug/l	JF-BY-1	05/29/01
Chloromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromomethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Vinyl Chloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Methylene Chloride	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Chloroform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Bromodichloromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: Trip Blank

AES sample #: 010522AT10

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

MATRIX: Water

Date Sampled: 05/22/01

Date sample received: 05/22/01

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>
Benzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dibromochloromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromoform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Tetrachloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Toluene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Chlorobenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Ethylbenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01

APPROVED BY: 

Report date: 06/05/01



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Client Name: NORMANDEAN ASSOC.	Address: 25 NASHUA ROAD, BEDFORD, NH, 03110	
Send Report To: ALORSON	Project Name (Location): WARD PRODUCTS	Samplers: (Names): ALORSON / STEVE LEE
Client Phone No: 603-472-5191	PO Number:	Samplers: (Signature): [Signature] / Stephen E 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		
010521 001	WP-GWMMW3-052101	5/21/01	1335	A P GW		X	4	SEE
002	WP-GWMMW6-052101	5/21/01	1635	A P GW		X	4	REMARKS
003	WP-GWMMW7-052101	5/21/01	1650	A P GW		X	4	BELOW
004	WP-GWMMW8-052101	5/21/01	1515	A P GW		X	4	↓
005	WP-GWMMW11-052101	5/21/01	1400	A P GW		X	4	
006	WP-GWMMW12-052101	5/21/01	1505	A P GW		X	4	
007	WP-GWMMW13-052101	5/21/01	1530	A P GW		X	4	
008	WP-GWMMW14-052101	5/21/01	1440	A P GW		X	4	
009	WP-GWMMW15-052101	5/21/01	1450	A P GW		X	4	
010	WP-GW DUF-052101	5/21/01	→	A P GW		X	4	
				A P				
				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 VOCs (B260) TOTAL CHROMIUM TURBIDITY Hex. CHROMIUM	
CC Report To:			
Relinquished by: (Signature) [Signature]		Received by: (Signature) [Signature]	Date/Time
Relinquished by: (Signature)		Received for Laboratory by: [Signature]	Date/Time 5/21/01 17:55
TEMPERATURE Ambient or Chilled Notes: _____	PROPERLY PRESERVED Y N Notes: _____	RECEIVED WITHIN HOLDING TIMES Y N Notes: _____	

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

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LABORATORY REPORT

for

Normandeau Associates
25 Nashua Road
Bedford, NH 03102

Attention: Al Larson

Report date: 06/05/01
Number of samples analyzed: 10
AES Project ID: 010522AT
Invoice #: 228118



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW1-052201

Date sample received: 05/22/01

AES sample #: 010522AT01

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.37	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	35	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	0.34	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Acrolein	EPA-624	<100	ug/l	JF-BY-1	05/29/01
Acrylonitrile	EPA-624	<25	ug/l	JF-BY-1	05/29/01
Chloromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromomethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Vinyl Chloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Methylene Chloride	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	8.0	ug/l	JF-BY-1	05/29/01
Chloroform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Carbon Tetrachloride	EPA-624	14	ug/l	JF-BY-1	05/29/01
Bromodichloromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW1-052201

Date sample received: 05/22/01

AES sample #: 010522AT01

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichloroethene	EPA-624	98	ug/l	JF-BY-1	05/29/01
Benzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dibromochloromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromoform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Tetrachloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Toluene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Chlorobenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Ethylbenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW1R-052201

AES sample #: 010522AT02

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

MATRIX: Ground Water

Date Sampled: 05/22/01

Date sample received: 05/22/01

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>
Chromium, Hexavalent	SM 3500 Cr D	0.26	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	4.6	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	0.26	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Acrolein	EPA-624	<200	ug/l	JF-BY-1	05/29/01
Acrylonitrile	EPA-624	<50	ug/l	JF-BY-1	05/29/01
Chloromethane	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Bromomethane	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Vinyl Chloride	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Chloroethane	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Methylene Chloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Trichlorofluoromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chloroform	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,2 Dichloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Carbon Tetrachloride	EPA-624	10	ug/l	JF-BY-1	05/29/01
Bromodichloromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW1R-052201

Date sample received: 05/22/01

AES sample #: 010522AT02

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
t-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Trichloroethene	EPA-624	140	ug/l	JF-BY-1	05/29/01
Benzene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Dibromochloromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1,2-Trichloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
cis-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
2-Chloroethylvinylether	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Bromoform	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Tetrachloroethene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Toluene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chlorobenzene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Ethylbenzene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Dichlorodifluoromethane	EPA-624	<20	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW2-052201

Date sample received: 05/22/01

AES sample #: 010522AT03

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.11	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	220	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	0.13	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Acrolein	EPA-624	<100	ug/l	JF-BY-1	05/29/01
Acrylonitrile	EPA-624	<25	ug/l	JF-BY-1	05/29/01
Chloromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromomethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Vinyl Chloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Methylene Chloride	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Chloroform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Bromodichloromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW2-052201

Date sample received: 05/22/01

AES sample #: 010522AT03

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Benzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dibromochloromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromoform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Tetrachloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Toluene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Chlorobenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Ethylbenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW4-052201

Date sample received: 05/22/01

AES sample #: 010522AT04

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	0.04	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	25	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	0.037	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<25	ug/l	JF-BY-1	05/29/01
Acrolein	EPA-624	<200	ug/l	JF-BY-1	05/29/01
Acrylonitrile	EPA-624	<50	ug/l	JF-EY-1	05/29/01
Chloromethane	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Bromomethane	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Vinyl Chloride	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Chloroethane	EPA-624	<20	ug/l	JF-EY-1	05/29/01
Methylene Chloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Trichlorofluoromethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01
1,1-Dichloroethene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chloroform	EPA-624	<10	ug/l	JF-EY-1	05/29/01
1,2 Dichloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01
Carbon Tetrachloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromodichloromethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW4-052201

AES sample #: 010522AT04

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

MATRIX: Ground Water

Date Sampled: 05/22/01

Date sample received: 05/22/01

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>
1,2-Dichloropropane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
t-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Trichloroethene	EPA-624	240	ug/l	JF-BY-1	05/29/01
Benzene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Dibromochloromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1,2-Trichloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
cis-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
2-Chloroethylvinylether	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Bromoform	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Tetrachloroethene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Toluene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chlorobenzene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Ethylbenzene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Dichlorodifluoromethane	EPA-624	<20	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW4R-052201

Date sample received: 05/22/01

AES sample #: 010522AT05

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	17	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	0.012	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Acrolein	EPA-624	<50	mg/l	JF-BY-1	05/30/01
Acrylonitrile	EPA-624	<13	mg/l	JF-BY-1	05/30/01
Chloromethane	EPA-624	<5	mg/l	JF-BY-1	05/30/01
Bromomethane	EPA-624	<5	mg/l	JF-BY-1	05/30/01
Vinyl Chloride	EPA-624	<5	mg/l	JF-BY-1	05/30/01
Chloroethane	EPA-624	<5	mg/l	JF-BY-1	05/30/01
Methylene Chloride	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Trichlorofluoromethane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
1,1-Dichloroethene	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
1,1-Dichloroethane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
1,2-Dichloroethene Total	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Chloroform	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
1,2 Dichloroethane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
1,1,1-Trichloroethane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Carbon Tetrachloride	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Bromodichloromethane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW4R-052201

Date sample received: 05/22/01

AES sample #: 010522AT05

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
t-1,3-Dichloropropene	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Trichloroethene	EPA-624	45	mg/l	JF-BY-1	05/30/01
Benzene	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Dibromochloromethane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
1,1,2-Trichloroethane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
cis-1,3-Dichloropropene	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
2-Chloroethylvinylether	EPA-624	<5	mg/l	JF-BY-1	05/30/01
Bromoform	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
1,1,2,2-Tetrachloroethane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Tetrachloroethene	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Toluene	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Chlorobenzene	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Ethylbenzene	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01
Dichlorodifluoromethane	EPA-624	<2.5	mg/l	JF-BY-1	05/30/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW5-052201

Date sample received: 05/22/01

AES sample #: 010522AT06

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	30	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	<0.005	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<10	ug/l	JF-EY-1	05/29/01
Acrolein	EPA-624	<200	ug/l	JF-BY-1	05/29/01
Acrylonitrile	EPA-624	<50	ug/l	JF-EY-1	05/29/01
Chloromethane	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Bromomethane	EPA-624	<20	ug/l	JF-EY-1	05/29/01
Vinyl Chloride	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Chloroethane	EPA-624	<20	ug/l	JF-EY-1	05/29/01
Methylene Chloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Trichlorofluoromethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01
1,1-Dichloroethene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chloroform	EPA-624	<10	ug/l	JF-EY-1	05/29/01
1,2 Dichloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01
Carbon Tetrachloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromodichloromethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW5-052201

Date sample received: 05/22/01

AES sample #: 010522AT06

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
t-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Trichloroethene	EPA-624	280	ug/l	JF-BY-1	05/29/01
Benzene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Dibromochloromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1,2-Trichloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
cis-1,3-Dichloropropene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
2-Chloroethylvinylether	EPA-624	<20	ug/l	JF-BY-1	05/29/01
Bromoform	EPA-624	<10	ug/l	JF-BY-1	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Tetrachloroethene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Toluene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chlorobenzene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Ethylbenzene	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Dichlorodifluoromethane	EPA-624	<20	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW9-052201

Date sample received: 05/22/01

AES sample #: 010522AT07

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	180	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	<0.005	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<5	ug/l	JF-EY-1	05/29/01
Acrolein	EPA-624	<100	ug/l	JF-BY-1	05/29/01
Acrylonitrile	EPA-624	<25	ug/l	JF-EY-1	05/29/01
Chloromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromomethane	EPA-624	<10	ug/l	JF-EY-1	05/29/01
Vinyl Chloride	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Chloroethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Methylene Chloride	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-EY-1	05/29/01
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-EY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Chloroform	EPA-624	<5	ug/l	JF-EY-1	05/29/01
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-EY-1	05/29/01
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Bromodichloromethane	EPA-624	<5	ug/l	JF-EY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW9-052201

Date sample received: 05/22/01

AES sample #: 010522AT07

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
t-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Trichloroethene	EPA-624	150	ug/l	JF-BY-1	05/29/01
Benzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dibromochloromethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2-Trichloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
cis-1,3-Dichloropropene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
2-Chloroethylvinylether	EPA-624	<10	ug/l	JF-BY-1	05/29/01
Bromoform	EPA-624	<5	ug/l	JF-BY-1	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Tetrachloroethene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Toluene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Chlorobenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Ethylbenzene	EPA-624	<5	ug/l	JF-BY-1	05/29/01
Dichlorodifluoromethane	EPA-624	<10	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW10-052201

Date sample received: 05/22/01

AES sample #: 010522AT08

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-42	05/22/01
Turbidity	EPA-180.1	46	ntu	SH-J-30	05/22/01
Chromium	EPA-200.7	0.012	mg/l	SM-I-3F-6	05/29/01
Xylenes	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Acrolein	EPA-624	<5000	ug/l	JF-BY-1	05/29/01
Acrylonitrile	EPA-624	<1250	ug/l	JF-BY-1	05/29/01
Chloromethane	EPA-624	<500	ug/l	JF-BY-1	05/29/01
Bromomethane	EPA-624	<500	ug/l	JF-BY-1	05/29/01
Vinyl Chloride	EPA-624	<500	ug/l	JF-BY-1	05/29/01
Chloroethane	EPA-624	<500	ug/l	JF-BY-1	05/29/01
Methylene Chloride	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Trichlorofluoromethane	EPA-624	<250	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethene	EPA-624	<250	ug/l	JF-BY-1	05/29/01
1,1-Dichloroethane	EPA-624	<250	ug/l	JF-BY-1	05/29/01
1,2-Dichloroethene Total	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Chloroform	EPA-624	<250	ug/l	JF-BY-1	05/29/01
1,2 Dichloroethane	EPA-624	<250	ug/l	JF-BY-1	05/29/01
1,1,1-Trichloroethane	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Carbon Tetrachloride	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Bromodichloromethane	EPA-624	<250	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/22/01

CLIENT'S SAMPLE ID: WP-GWMW10-052201

Date sample received: 05/22/01

AES sample #: 010522AT08

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

Location: Ward Products

MATRIX: Ground Water

grab

continued:

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane	EPA-624	<250	ug/l	JF-BY-1	05/29/01
t-1,3-Dichloropropene	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Trichloroethene	EPA-624	6000	ug/l	JF-BY-1	05/29/01
Benzene	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Dibromochloromethane	EPA-624	<250	ug/l	JF-BY-1	05/29/01
1,1,2-Trichloroethane	EPA-624	<250	ug/l	JF-BY-1	05/29/01
cis-1,3-Dichloropropene	EPA-624	<250	ug/l	JF-BY-1	05/29/01
2-Chloroethylvinylether	EPA-624	<500	ug/l	JF-BY-1	05/29/01
Bromoform	EPA-624	<250	ug/l	JF-BY-1	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Tetrachloroethene	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Toluene	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Chlorobenzene	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Ethylbenzene	EPA-624	<250	ug/l	JF-BY-1	05/29/01
Dichlorodifluoromethane	EPA-624	<500	ug/l	JF-BY-1	05/29/01



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CLIENT: Normandeau Associates

Date Sampled: 05/21/01

CLIENT'S SAMPLE ID: WP-GWMW15-052101

Date sample received: 05/21/01

AES sample #: 010521 009

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-40	05/22/01
Turbidity	EPA-180.1	68	ntu	PL-J-38	05/22/01
Chromium	EPA-200.7	<0.005	mg/l	SM-I-3F-5	05/25/01
Xylenes	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Acrolein	EPA-624	<100	ug/l	JF-BX-50	05/25/01
Acrylonitrile	EPA-624	<25	ug/l	JF-BX-50	05/25/01
Chloromethane	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Bromomethane	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Vinyl Chloride	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Chloroethane	EPA-624	<10	ug/l	JF-BX-50	05/25/01
Methylene Chloride	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Trichlorofluoromethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1-Dichloroethene	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1-Dichloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,2-Dichloroethene Total	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Chloroform	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,2 Dichloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,1-Trichloroethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Carbon Tetrachloride	EPA-624	<5	ug/l	JF-BX-50	05/25/01
Bromodichloromethane	EPA-624	<5	ug/l	JF-BX-50	05/25/01



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWMW15-052101

AES sample #: 010521 009

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

MATRIX: Ground Water

Date Sampled: 05/21/01

Date sample received: 05/21/01

Location: Ward Products
grab

continued:

<u>PARAMETER</u>	<u>PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
1,2-Dichloropropane		EPA-624	<5	ug/l	JF-BX-50	05/25/01
t-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BX-50	05/25/01
Trichloroethene		EPA-624	<5	ug/l	JF-BX-50	05/25/01
Benzene		EPA-624	<5	ug/l	JF-BX-50	05/25/01
Dibromochloromethane		EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,2-Trichloroethane		EPA-624	<5	ug/l	JF-BX-50	05/25/01
cis-1,3-Dichloropropene		EPA-624	<5	ug/l	JF-BX-50	05/25/01
2-Chloroethylvinylether		EPA-624	<10	ug/l	JF-BX-50	05/25/01
Bromoform		EPA-624	<5	ug/l	JF-BX-50	05/25/01
1,1,2,2-Tetrachloroethane		EPA-624	<5	ug/l	JF-BX-50	05/25/01
Tetrachloroethene		EPA-624	<5	ug/l	JF-BX-50	05/25/01
Toluene		EPA-624	<5	ug/l	JF-BX-50	05/25/01
Chlorobenzene		EPA-624	<5	ug/l	JF-BX-50	05/25/01
Ethylbenzene		EPA-624	<5	ug/l	JF-BX-50	05/25/01
Dichlorodifluoromethane		EPA-624	<10	ug/l	JF-BX-50	05/25/01



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CLIENT: Normandeau Associates

Date Sampled: 05/21/01

CLIENT'S SAMPLE ID: WP-GWDUP-052101

Date sample received: 05/21/01

AES sample #: 010521 010

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

Location: Ward Products

MATRIX: Ground Water

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chromium, Hexavalent	SM 3500 Cr D	<0.02	mg/l	PL-O-40	05/22/01
Turbidity	EPA-180.1	100	ntu	PL-J-38	05/22/01
Chromium	EPA-200.7	<0.005	mg/l	SM-I-3F-5	05/25/01
Xylenes	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Acrolein	EPA-624	<1000	ug/l	JF-BX-50	05/29/01
Acrylonitrile	EPA-624	<250	ug/l	JF-BX-50	05/29/01
Chloromethane	EPA-624	<100	ug/l	JF-BX-50	05/29/01
Bromomethane	EPA-624	<100	ug/l	JF-BX-50	05/29/01
Vinyl Chloride	EPA-624	<100	ug/l	JF-BX-50	05/29/01
Chloroethane	EPA-624	<100	ug/l	JF-BX-50	05/29/01
Methylene Chloride	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Trichlorofluoromethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,1-Dichloroethene	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,1-Dichloroethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,2-Dichloroethene Total	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Chloroform	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,2 Dichloroethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,1,1-Trichloroethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Carbon Tetrachloride	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Bromodichloromethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01



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CLIENT: Normandeau Associates

CLIENT'S SAMPLE ID: WP-GWDUP-052101

AES sample #: 010521 010

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

MATRIX: Ground Water

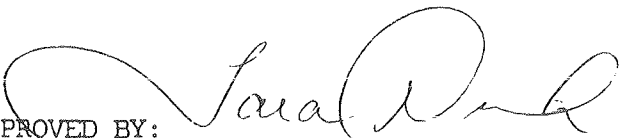
Date Sampled: 05/21/01

Date sample received: 05/21/01

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>
1,2-Dichloropropane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
t-1,3-Dichloropropene	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Trichloroethene	EPA-624	870	ug/l	JF-BX-50	05/29/01
Benzene	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Dibromochloromethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,1,2-Trichloroethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
cis-1,3-Dichloropropene	EPA-624	<50	ug/l	JF-BX-50	05/29/01
2-Chloroethylvinylether	EPA-624	<100	ug/l	JF-BX-50	05/29/01
Bromoform	EPA-624	<50	ug/l	JF-BX-50	05/29/01
1,1,2,2-Tetrachloroethane	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Tetrachloroethene	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Toluene	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Chlorobenzene	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Ethylbenzene	EPA-624	<50	ug/l	JF-BX-50	05/29/01
Dichlorodifluoromethane	EPA-624	<100	ug/l	JF-BX-50	05/29/01

APPROVED BY: 

Report date: 06/04/01

APPENDIX H

**THERMO RETEC REPORTS FOR
DRAIN PIPE IRM**



December 21, 1999

Al Larson
Normandeau Associates
25 Nashua Road
Bedford, NH 03110-5500

(607) 277-5716 Phone
(607) 277-9057 Fax
www.thermoretec.com

Re: Ward Products Drain Pipe IRM - Interim Report

Dear Mr. Larson:

This letter report presents the interim results of the Drain Pipe IRM work conducted to date at the Ward Products site in Amsterdam, NY. The full scope of work is detailed in the Work Plan and Design Document, IRM: Drain Pipe (ThermoRetec, August 31, 1999).

On November 9, 1999, West Central Environmental (the Contractor) and ThermoRetec (the Engineer) mobilized to the site and excavated four test pits (TP-1 through -4) in the areas shown on the attached figure. The soil was excavated with a Kubota KX61-2 excavator. The excavated soil was placed adjacent to the excavations. Each test pit was expanded to expose soil below a joint in the concrete pipe.

The excavation began at a location as close as practical to the upstream end of the pipeline (TP-1). Closer access to the building would have required partial removal of the NMPC transformer fenceline and overhead conduits.

The pipe at TP-1 and TP-2 is 18-inch ID; it was identified as 16-inch diameter in the Work Plan drawings. During the excavation of TP-1, the contractor inadvertently broke the pipe and created a hole of approximately 1.5 square feet in the pipe sidewall. Project photographs are attached. Though unfortunate, the break did allow us to observe the inside of the pipe (that section of pipe had been inaccessible to the robotic video camera previously used to document the interior of the 24-inch diameter pipe). Up to one dozen joints were visible (by flashlight, through the break) in each direction inside the pipe. The pipe sections were measured to be approximately 4-feet in length, and the pipe was found to run straight and parallel to the building (as shown in the figure). A total of approximately 90 linear feet of the pipe interior was therefore visible.

The 18-inch pipe contains up to 2-inches of sediment. The sediment is a sandy silt, hard packed, with fine metal shavings and streaks of an orange, viscous material. The sediment was sampled and submitted for analysis. The PID reading within the pipe air space was 0 ppm. The PID headspace reading of the sediment sample was 63 ppm.



The 18-inch pipe sections were, like the 24-inch pipe, observed to be in a weathered condition with some cracks throughout and corrosion in the bottom half. Both the 18-inch and the 24-inch pipe are constructed of reinforced concrete (RC) with bell and socket joints. The joints contain no gaskets or mortar and all observed joints appeared to leak uniformly.

Given the homogeneity of construction and corrosion of the two pipelines, the Engineer requested the contractor to proceed with a series of representative test pits rather than complete exposure of the pipeline as called for in the Work Plan.

The Engineer collected four soil samples, one from each test pit below the exposed pipe joints. The soil below each joint was visibly damper than surrounding soil. None of the samples appeared contaminated; PID headspace readings were all 0 ppm, and the soils were stain and odor free except for organic (vegetative/root) matter. The samples were submitted to Friend Laboratory for VOC and chromium analyses as per the Work Plan.

Test pit TP-3 exposed the eastern side of the connection of the 18-inch and 24-inch pipes. One or more other pipes are also alleged to connect at this point from the northwest. The observed connection was made with a large diameter vitrified clay tee, broken portions of RC pipe, and site-poured concrete. The joint was in severe disrepair and the soil below was observed to be wetter than that encountered at the other three joints.

The Engineer performed health and safety air monitoring throughout the work. Work space PID and Miniram (dust meter) readings were consistently below applicable action levels. No visible dust was generated.

Following sample collection, TP-2, -3, and -4 were backfilled with the excavated soil. Repairs to the pipe at TP-1 were performed by Ward Products and the Contractor the following day (November 10, 1999).

RESULTS

Complete analytical results were received from the laboratory on December 14, 1999, and are summarized in the attached table.

The sediment sample from the interior of the 18-inch pipe was determined to contain 11,000 mg/Kg (i.e. 1.1%) chromium. Chromium concentrations outside the pipes (in soil below the joints) were 680 and 540 mg/Kg at TP-1 and TP-2, respectively; 1900 mg/Kg at TP-4; and 9,500 mg/Kg at TP-3. All of these concentrations are above the



NYSDEC clean-up objective of 10 mg/Kg in soil. Assuming the chromium is associated with the metal shavings observed in the sediment sample, it is unlikely that the observed chromium concentrations extend deeply into the soil; rather the chromium would become entrapped in soil just outside the pipe joints.

TCE and other VOC concentrations were below the detection limit at TP-1, TP-4, and in the sediment (despite the 63 ppm PID reading). TCE concentrations below joints in TP-2 and TP-3 were 1.2 and 1.4 mg/Kg, respectively, slightly exceeding the NYSDEC clean-up objective of 0.7 mg/Kg in soil. Trace DCE was also detected at TP-3. Unlike the (assumed metallic) chromium, TCE is mobile and heavy. TCE concentrations may, therefore, increase with soil depth.

The elevated COC concentrations found at TP-3 are likely due to the severe disrepair of the pipe connections at that point. It should also be noted that TP-3 is immediately upgradient of MW-6, the monitoring well with the highest average TCE and chromium concentrations.

CONCLUSIONS

The physical condition of the RC pipe has been thoroughly documented except those locations under the building. The analytical results indicate that leakage of TCE and chromium has occurred from the drain pipe. The pipe appears to leak significantly in the vicinity of TP-3, but only moderately (and uniformly) from all other joints. The data does not indicate the presence of "source material" soils along the entire pipe length.

The Engineer's recommended action items are:

- Remove, decontaminate and stockpile on site, approximately 40 linear feet of pipe from around, and between, TP-2 and TP-3.
- Excavate, stockpile, test and dispose of off site, approximately 70 cubic yards of soil from below the pipe, within the above mentioned 40 linear feet, as per the Work Plan (i.e. 8 feet wide and down to the water table).
- Conduct confirmation soil sampling and analysis of the excavation sidewalls.
- Remove, containerize, test and dispose off site, to the greatest



degree practical, the sediment from inside the 18-inch pipe.

- Reinstall the removed RC drain pipe sections and seal all exposed joints.
- Replace the tee and all connections at TP-3 with a manhole.

The horizontal distribution of COCs may be extrapolated from the test pit data. If vertical, as well as horizontal, distributions of COCs are to be determined, those samples may be more cost effectively collected by Geoprobe rather than from an open excavation, even if the pipeline is ultimately to be replaced.

I look forward to our meeting, tentatively scheduled for the week of January 24th, 2000, to discuss this work.

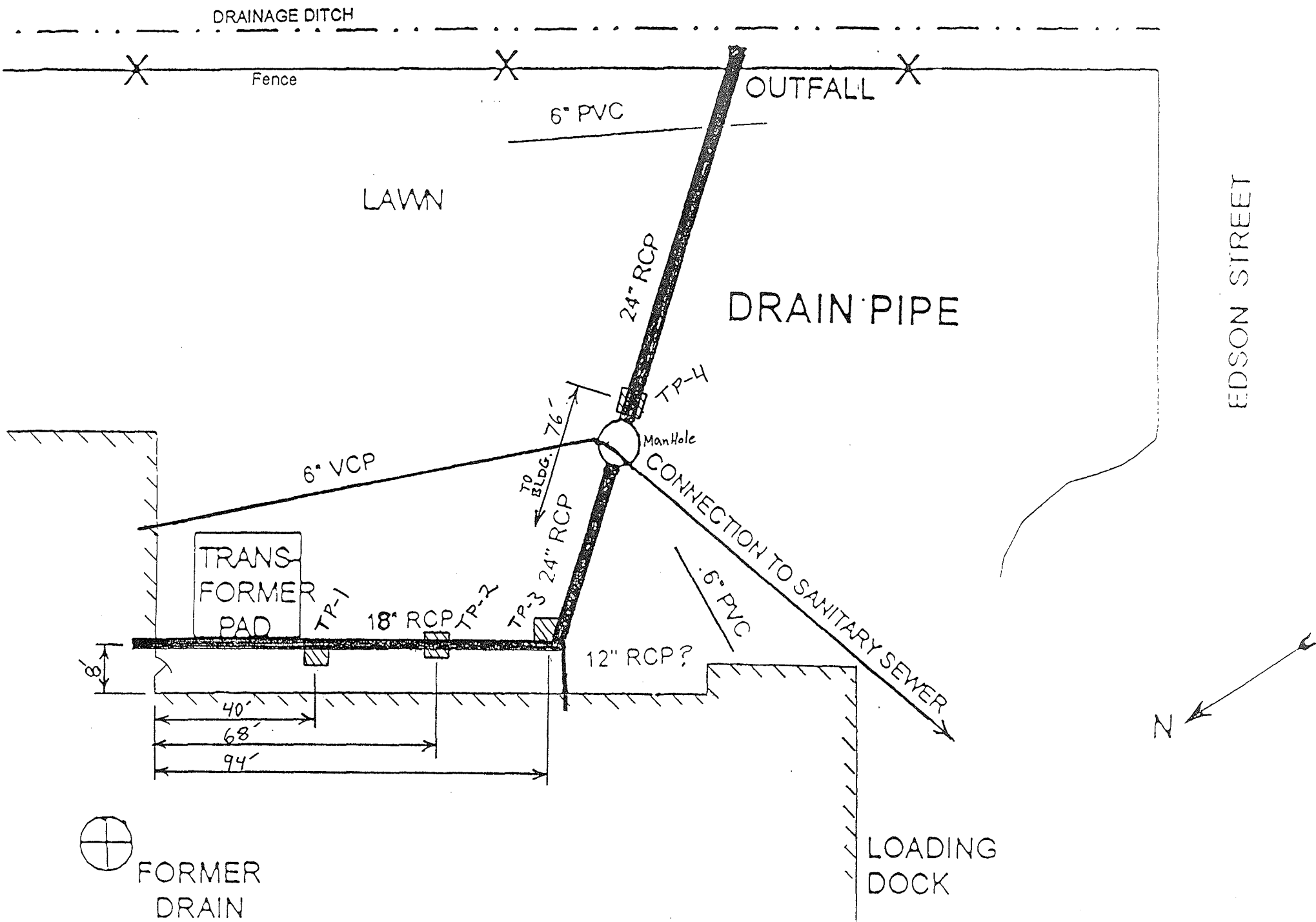
If you have any questions, please contact me at 607-277-5716.

Sincerely,
ThermoRetec Consulting Corporation

Mark Hofferbert
Project Engineer

Enclosure

cc: A. Darmofal - Ward Products
R. Conway, Esq.
L. Alden - NYSDEC
G. Rys - NYSDOH
J. Finn - ThermoRetec, NY



Analytical Summary - Ward Products Drain Pipe IRM

ThermoRetec Project # NRMD 2-02936-300

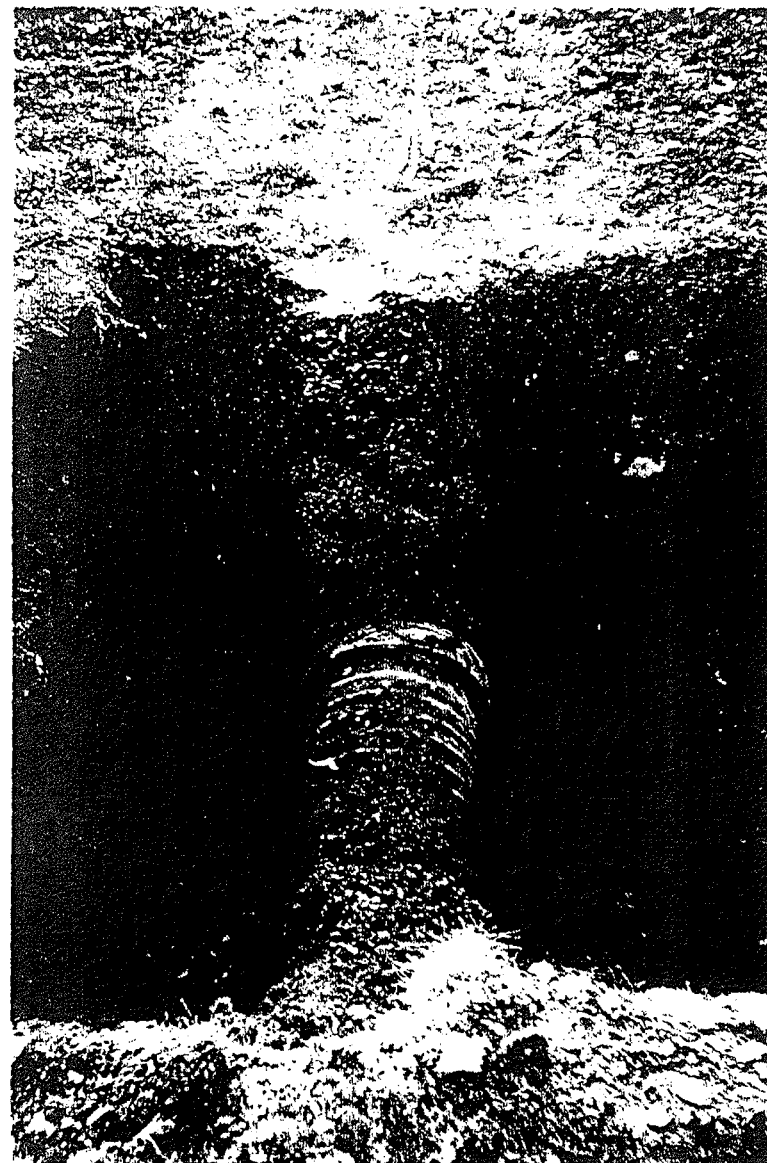
Soil/Sediment Analyses (Sample Date Nov 9, 1999)

Sample Location		Sediment (grab)	TP-1 (grab)	TP-2 (grab)	TP-3 (grab)	TP-4 (grab)	OBJECTIVE
TCE	mg/Kg	nd	nd	1.20	1.40	nd	0.7
Other VOCs (DCE)	mg/Kg	nd	nd	nd	0.42	nd	10
Chromium	mg/Kg	11,000	680	540	9,500	1,900	10
PID	ppm	63	0	0	0	0	0

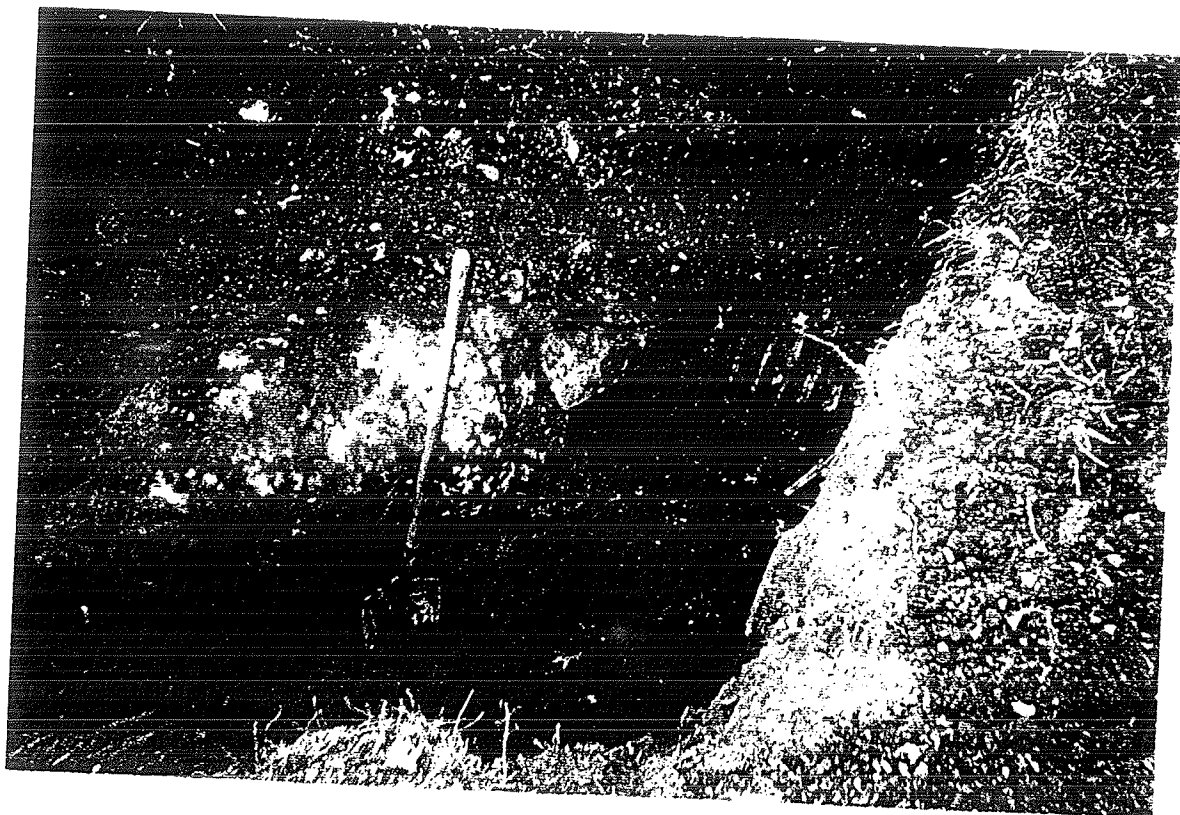
"nd" - Analyte not detected above detection limit.



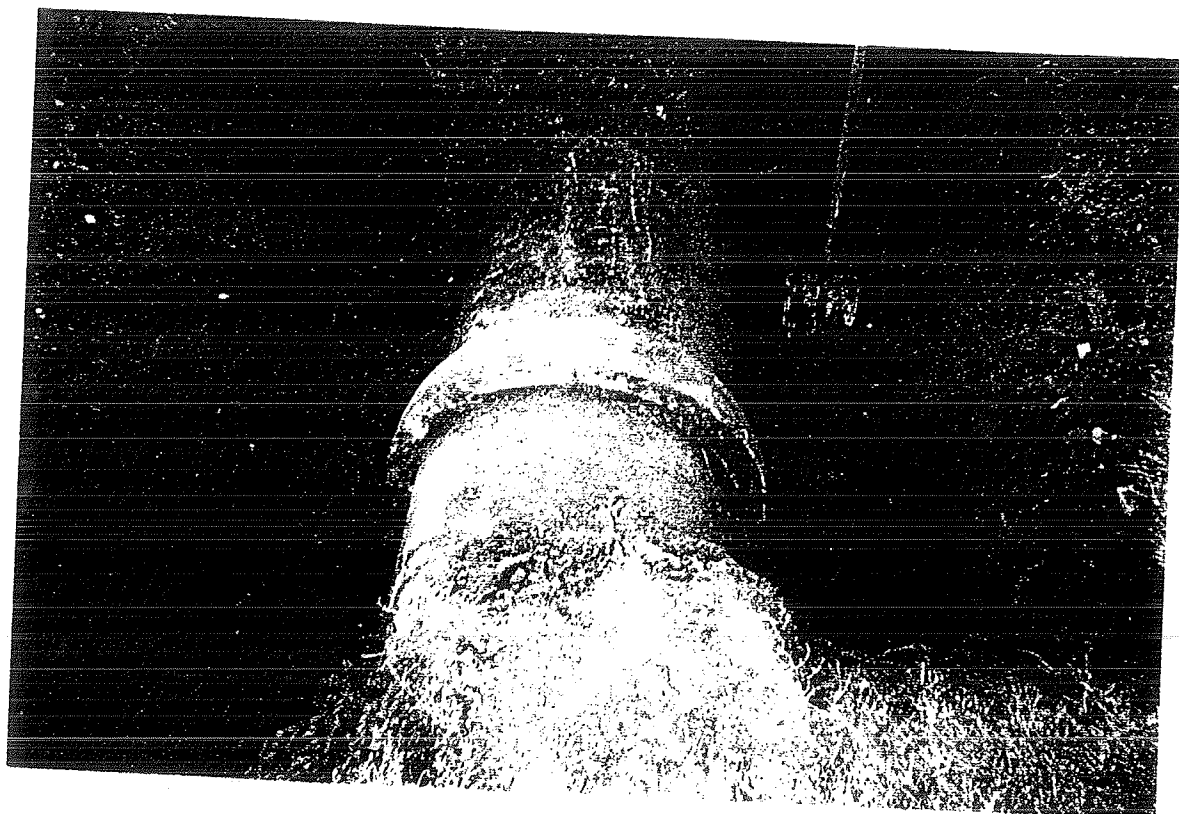
Test Pit #1



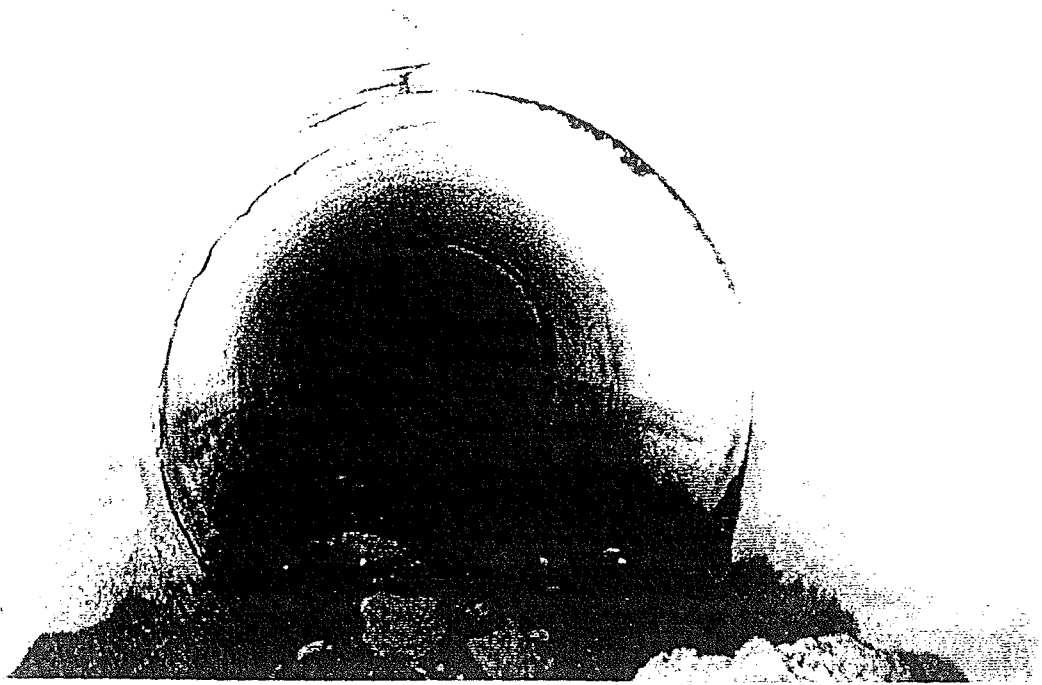
Test Pit #2



Test Pit #3



Test Pit #4



18" RC Pipe Interior (looking NE)



18" RC Pipe Interior (looking SW)



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THERMO RETEC

WARD PRODUCTS

SAMPLED: NOVEMBER 9, 1999

ALBANY, NY

BUFFALO, NY

JAMESTOWN, NY

BOSTON, MA

SYRACUSE, NY

WATERTOWN, NY

"Our family, caring about your analytical needs . . . Since 1963."

No.

CHAIN OF CUSTODY RECORD

PROJ. NO. NRAD2-02936-310		PROJECT NAME Ward Products		NO. OF CONTAINERS	VOCs 548468260A Chromium 548468260A PCBs (Total) Cadmium (Total)	L41536 REMARKS
SAMPLERS: Mark Hofferbert						
RECEIVING LABORATORY: Friend Lab						
SAMPLE NO.	DATE	TIME	SAMPLE LOCATION			
	11/9		SEDIMENT	1	✓	1 week TAT Requested
			TP-1	1	✓	"
			TP-2	1	✓	"
			TP-3	1	✓	"
			TP-4	1	✓	"
			C-9	1	✓✓	"
			SEDIMENT - Extra Sample	1		Hold for possible future analysis
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Relinquished by: (Signature)	
		11/18/99				
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Relinquished by: (Signature)	
Relinquished by: (Signature)		Date/Time	Received for laboratory by: (Signature)		Date/Time	
			Don Jones		11/11/99 11043	
REMARKS:						



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1001 W. Seneca Street, Suite 204
Ithaca, NY 14850
(607) 277-5716
Fax (607) 277-9057

Laboratory Chronicle

FLI
FRIEND
LABORATORY
INC

The sample fractions listed below are released by the Sample Custodian for analysis. The recipient of these samples is legally responsible for the integrity and safekeeping of these samples in accordance with FLI evidentiary custody procedures. Residual sample(s) must be returned as a set to the Sample Custodian. Use departmental custody logs to transfer extracts, digestates and distillates to the Sample Custodian after completion of analysis.

Lab Department Volatiles
 Fraction/Parameter 8260

SDG/Project Thermo Retec

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L41536-1				
	L41536-2				
	L41536-3				
	L41536-4				
	L41536-5				
	L41536-6				
	L41536-7				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Lisa Howell	11/12/99	15:00	Steve Buman	11/12/99	15:00	
1	Steve Buman	11/19/99	10:30	Lani Jones	11/19/99	10:30	
2							
2							
3							
3							

* Enter C to indicate sample or aliquot consumed during testing; -R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.

Laboratory Chronicle

FLI

**FRIEND
LABORATORY
INC**

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Lab Department

Semivolatiles

SDG/Project

Thermo - Retec

Fraction/Parameter

PCB

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L41536-8				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Shannon Bennett	11-11-99	1415	B. Colbaugh	11/11/99	14:15	R
1	B. Colbaugh	11/11/99	1500	Shannon Bennett	11-11-99	1500	
2							
2							
3							
3							

* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It **MUST** be returned to the Sample Custodian after completion of analysis.

Laboratory Chronicle

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Lab Department metals
Fraction/Parameter Cadmium

SDG/Project Thermo Retec

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	241536-8				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<i>[Signature]</i>	11/15/99	8:47	<i>[Signature]</i>	11/15/99	8:47	
1	<i>[Signature]</i>	11/19/99	15:00	<i>[Signature]</i>	11/19/99	1500	
2							
2							
3							
3							

* Enter C to indicate sample or aliquot consumed during testing; -R for return to Sample Custodian; L for return to cooler.

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Laboratory Chronicle

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Lab Department

Metals

SDG/Project

Thermo Retec

Fraction/Parameter

Chromium

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L41536-1				
	L41536-2				
	L41536-3				
	L41536-4				
	L41536-5				
	L41536-6				
	L41536-7				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<u>Ronald Jones</u>	<u>11/15/99</u>	<u>8:47</u>	<u>DeBurkeigh</u>	<u>11/15/99</u>	<u>8:47</u>	
1	<u>DeBurkeigh</u>	<u>11/19/99</u>	<u>15:00</u>	<u>Ronald Jones</u>	<u>11/19/99</u>	<u>1500</u>	
2							
2							
3							
3							

* Enter C to indicate sample or aliquot consumed during testing; -R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.

Laboratory Chronicle

FLI
FRIEND
LABORATORY
INC

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Lab Department Wetchem
 Fraction/Parameter Total Solids

SDG/Project Thermo Retec

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L41536-1				
	L41536-2				
	L41536-3				
	L41536-4				
	L41536-5				
	L41536-6				
	L41536-7				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<u>Lon Jones</u>	<u>11/11/99</u>	<u>12:00</u>	<u>Elliot Jones</u>	<u>11-11-99</u>	<u>12:00</u>	
1	<u>Elliot Jones</u>	<u>11-11-99</u>	<u>17:50</u>	<u>Lon Jones</u>	<u>11/11/99</u>	<u>17:50</u>	
2							
2							
3							
3							

* Enter C to indicate sample or aliquot consumed during testing; -R for return to Sample Custodian; L for return to cooler.

This form is transferred with samples. It MUST be returned to the Sample Custodian after completion of analysis.

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SW846/8082
ANALYSES

Sample Analysis Summary
PCB
Page 1 of 1

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: Friend Laboratory, Inc.

Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMO

Level:[low/med] LOW Column 1: RTX-CLPest1 Column 2: RTX-CLPesticide 2

	FLI SAMPLE NO.	TCX 1 %REC #	DCB 1 %REC #	TCX 2 %REC #	DCB 2 %REC #	TOT OUT
1	MB 103			85	126	0
2	QC 103			81	123	0
3	L41536-8			72	147	0
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

TXC = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

30 - 150
30 - 150

Comments:

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

3LCC
LOW CONC. SOIL PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

QC 103

Lab Name: FRIEND LABORATORY, INC

Contract:

Lab Code: 10252

Case No.:

SAS No.:

SDG No.: CIS

Lab Sample ID: QC 103

LCS Lot No.:

LCS Aliquot: 0 (uL)

Date Extracted: 11/11/99

Concentrated Extract Volume: _____ (uL)

Date Analyzed: 11/16/99

Injection Volume: 2 (uL)

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y

COMPOUND	CONC ADDED (mg/Kg)	CONC RECOVERED (mg/Kg)	%REC #	QC LIMITS
Aroclor-1016	0.39	0.28	72	50-114
Aroclor-1260	0.39	0.31	79	8-127

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 2 total.

COMMENTS: _____

4C

PESTICIDE/PCB METHOD BLANK SUMMARY

Lab Name: Friend Laboratory, Inc.

Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMO

Lab Sample ID: MB 103

Extraction: SOXHLET

Matrix: (soil/water): SOIL

Date Extracted: 11/11/99

Lab File ID: 99-108-3117

Date Analyzed: 11/16/99

COLUMN 1: RTX-CLPESTICIDES 1

COLUMN 2: RTX-CLPESTICIDES 2

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	FILE(1)	FILE(2)
1	BLANK SPIKE 103	QC 103	11/16/99		3118
2	C-9	L41536-8	11/16/99		3138
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: _____

1D
PCB ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB 103

Lab Name: FRIEND LABORATORY, INC

Contract:

Lab Code: 10252

Case No.:

SAS No.:

SDG No.: CIS

Matrix: (soil/water) SOIL

Lab Sample ID: MB 103

Sample wt/vol: 10.2 (g/mL) G

Lab File ID: E2983117

% Moisture: 0 decanted: (Y/N) N

Date Received: _____

Extraction: (SepF/Cont/Sonc) SOXLET

Date Extracted: 11/11/99

Concentrated Extract Volume: _____ (uL)

Date Analyzed: 11/16/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 14.0

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

12674-11-2-----	Aroclor-1016	0.01	U
1104-28-2-----	Aroclor-1221	0.02	U
11141-16-5-----	Aroclor-1232	0.01	U
53469-21-9-----	Aroclor-1242	0.01	U
11097-69-1-----	Aroclor-1254	0.01	U
11096-82-5-----	Aroclor-1260	0.01	U
-----	Aroclor-1248	0.01	U

3
BLANKS

Lab Name: FRIEND LABORATORY, INC.

Contract:

Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: WARD

Preparation Blank Matrix (soil/water): SOIL

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

Analyte	Initial Calibration Blank (ug/L)	1	C	2	C	3	C	Preparation Blank (MG/KG)	C	M
								<u>153</u>		
Aluminum										NR
Antimony										NR
Arsenic										NR
Barium										NR
Beryllium										NR
Cadmium	0.4 U							0.4		A
Calcium										NR
Chromium	1.0 U							1		A
Cobalt										NR
Copper										NR
Iron										NR
Lead										NR
Magnesium										NR
Manganese										NR
Mercury										NR
Nickel										NR
Potassium										NR
Selenium										NR
Silver										NR
Sodium										NR
Thallium										NR
Vanadium										NR
Zinc										NR
Cyanide										NR
Tin										NR

FORM III - IN

5A
SPIKE SAMPLE RECOVERY

Lab Name: FRIEND LABORATORY, INC.

Lab Code: 10252

Case No. _____

SAS No.: _____

SDG No.: WARD

Matrix (soil/water): SOIL

Level (low/med): low

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M	Batch QC I.D. No.	Site Sample? (Yes/No)
Aluminum	75-125										
Antimony	75-125										
Arsenic	75-125										
Barium	75-125										
Beryllium	75-125										
Cadmium	75-125										
Calcium	75-125										
Chromium		16186.7		10677.5		506.63	1087.4		A	L41536-1/2	Y
Chromium6	75-125										
Cobalt	75-125										
Copper	75-125										
Iron	75-125										
Lead	75-125										
Magnesium	75-125										
Manganese	75-125										
Mercury	75-125										
Nickel	75-125										
Potassium	75-125										
Selenium	75-125										
Silver	75-125										
Sodium	75-125										
Thallium	75-125										
Tin	75-125										
Vanadium	75-125										
Zinc	75-125										
Cyanide	75-125										

FORM V (PART 1) - IN

6
DUPLICATES

Lab Name: FRIEND LABORATORY, INC.

Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: WARD

Matrix (soil/water): SOIL

Level (low/med): low

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

Analyte	Control Limit CRDL MG/KG	Sample Result (S)	C	Duplicate Result (D)	C	RPD	Q	M	Batch QC I.D. No.	Site Sample? (Yes/No)
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium		10677.5		9397.7		12.8		A	L41536-1/3	Y
Chromium6										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese										
Mercury										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Tin										
Vanadium										
Zinc										
Cyanide										

FORM VI - IN

Laboratory Control Sample

Lab Name: FRIEND LABORATORY, INC.

Lab Code: 10252

Case No.: _____

SAS No.: _____

SDG No.: WARD

Soil LCS Source: ERA CLP QCS, CAT#PPS-46, LOT#241

Analyte	Soil (MG/KG)		Acceptance Range (mg/kg)	M	Batch Identifier
	True	Found			
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium	185.0	197.4	143-228	A	11/16/99(153)
Calcium					
Chromium	50.7	56.2	35.7-65.7	A	11/16/99(153)
Chromium6					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Mercury					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Tin					
Vanadium					
Zinc					
Cyanide					

February 2, 2001



Al Larson
Normandeau Associates
25 Nashua Road
Bedford, NH 03110-5500

(607) 277-5716 Phone
(607) 277-9057 Fax
www.thermoretec.com

Re: Ward Products Drain Pipe IRM - Final Report

Dear Mr. Larson:

This letter report presents the results of the Drain Pipe IRM conducted at the Ward Products site in Amsterdam, NY. The full scope of work is detailed in the Work Plan and Design Document, IRM: Drain Pipe (ThermoRetec, August 31, 1999) and the NYSDEC approved Proposed Addendum to the Work Plan and Design Document (ThermoRetec, November 10, 2000).

Background

Several roof and floor drains at the Ward Products site discharge to a surface ditch via a network of subsurface concrete pipes. Previously, the concrete drain pipes were investigated as a possible source of known environmental impacts at the site. That investigation showed pipe sections in a weathered condition with a few pipe joints (4-feet on-center) that appeared to leak mildly. However, the pipe did not appear to be a source of groundwater contamination at the site (see Ward Products Drain Pipe IRM - Interim Report, ThermoRetec, December 21, 1999). The exception was at one joint ("tee"), found to be in severe disrepair, at the confluence of the 12-, 18-, and 24-inch diameter legs of the subsurface drain system. The TCE concentration in soil below that tee was 1.4 mg/Kg, slightly exceeding the NYSDEC TAGM 4046 clean-up guidance level of 0.7 mg/Kg. The concentration of chromium in soil below the tee was 9,500 mg/Kg, substantially exceeding the NYSDEC clean-up guidance level of 10 mg/Kg.

The interior of the 24-inch pipe leg was videoed with a robotic camera and found to be relatively free of sediment. The interior of the 18-inch pipe leg (located upstream of the tee) was found to contain up to two inches of sediment which, analyses showed, had a total chromium concentration of 11,000 mg/Kg and TCLP concentrations of cadmium,



chromium and lead that exceeded RCRA regulatory levels.

In consultation with NYSDEC, it was determined that the tee should be replaced and that the 18-inch pipe should be cleaned of sediment.

Scope of Work

On December 5, 2000, Op-Tech Environmental Services and ThermoRetec mobilized to the site. NYSDEC and Ward Products representatives were also on site at times. The tee and surrounding soils were excavated with a Komatsu PC95 excavator and placed directly into two lined rolloff boxes. A total of 27.02 tons of soil were removed. A composite soil sample was collected during the excavation and the rolloff boxes were covered and staged on-site to await analytical results.

The existing pipe sections were saved, in-situ, but the tee (made of vitrified clay with degraded concrete mortar) was removed. Photographs of the work are attached. The maximum excavation depth was approximately 8-feet (or approximately 2 ½-feet below the pipe inverts). Soil samples were collected from the excavation bottom and sides. The excavation was lined with 6 mil polyethylene.

The following day, December 6th, a 20-gallon "tote" box was placed below the 18-inch pipe invert and the pipe was cleaned with a truck-mounted "Laser" sewer jet. Discharged fluids and sediments were collected in the tote which was, in turn, continuously emptied by a vacuum truck and hose. Over-spray from the pipe mouth was contained by the 6-mil poly, which was also vacuumed as needed. During the jetting process, a faint sheen and odor was noted in the discharge water and a sample was, therefore, collected for VOC analysis.

The entire cleaning process was done twice, following which the pipe was visibly free of sediments. The sewer jet effectively penetrated 95'-2" from the exposed pipe mouth to, as expected, an apparent elbow or tee in the drain. A total of 1,123 gallons of water and sediment were generated. The water and sediment were manifested, transported, and disposed of as a presumed hazardous liquid (D006, D007, D008, F006, F007 and F008)



at Chem Waste's Model City facility. The vacuum truck was then decontaminated at Op-Tech's facility, resulting in the generation of one additional 55-gallon drum of liquids and solids, which were likewise manifested and disposed of.

On December 7th and 8th, Ward Products constructed a manhole to replace the tee and backfilled the excavation.

Following receipt of analytical results, the two rolloff containers of soil were disposed of as non-hazardous soils at the High Acres Landfill, Fairview, NY.

Applicable health & safety and environmental controls were used throughout the work. There were no health and safety incidents and no contaminant releases of environmental concern during the work.

Analytical Results

The attached table summarizes the analytical results of the excavation sidewall and bottom samples, the excavated soils, the discharged water, and the pre-characterization of the sediments. Original lab reports are also attached.

The water sample contained no detectable constituents of concern (EPA 8260 VOCs) except for 12 ug/L of chloroform, possibly a laboratory contaminant.

The excavated soils were analyzed for full TCLP and found to be non-hazardous for RCRA characteristics.

The excavation sidewall samples each included material from below and above the elevation of the pipe inverts. The excavation bottom sample was collected approximately three feet below the former tee. Cadmium and chromium were detected in all of these samples at concentrations above NYSDEC TAGM 4046 cleanup guidance levels. The highest concentration of chromium, 301 mg/Kg, was in the excavation bottom, approximately three feet below the location previously analyzed to have 9,500 mg/Kg chromium. All samples contained VOCs at concentrations less than the detection limit.

Mr. A. Larson
February 2, 2000
Page 4



Conclusions

Analytical results indicate that leakage of VOCs and metals had previously occurred from the concrete drain pipe system but that the impacts are not likely to extend deeply into the soil or to the water table. The drain pipe does not appear to be the likely source of the TCE impacts observed elsewhere at the site. The Drain Pipe IRM has, however, eliminated a possible source of continued low-level leaching and surface discharge of metals, and has removed a quantity of hazardous material from the site.

Call me at 607-277-5716 if you have any questions.

Sincerely yours,
ThermoRetec Consulting Corporation

Mark Hofferbert, P.E.
Project Engineer

att: Analytical Summary Table
Photos
Site Sketch
Excavation Sketch
Weigh Tickets
Analytical Reports

cc: A. Darmofal - Ward Products
R. Conway, Esq.
G. Rys - NYSDOH
L. Alden - NYSDEC
File - ThermoRetec, NY

Analytical Summary - Ward Products Drain Pipe IRM

ThermoRetec Project # NRMD 2-02936-300

Excavation Sidewalls

Sample Location		Excavation Bottom	Excavation South	Excavation N-East	Excavation N-West	NYSDEC Cleanup Objective
Sample Depth		8-feet	1 to 7 feet	1 to 7 feet	1 to 7 feet	
Sample Date		12/06/00	12/06/00	12/06/00	12/06/00	
TCE	mg/Kg	nd	nd	nd	nd	0.7
Other VOCs	mg/Kg	nd	nd	nd	nd	varies
Lead, total	mg/Kg	17.8	21.1	84.9	14.5	SB
Cadmium, total	mg/Kg	9.99	3.83	14.3	2.4	1 or SB
Chromium, total	mg/Kg	301	78.7	238	141	10 or SB
Chromium, hexavalent	mg/Kg	0.17	0.29	0.37	0.12	NE

Disposal Characterization

Sample Location		Drain Pipe Sediments	Rinse Water	Excavated Soils	USEPA TCLP Standards
Sample Date		11/09/99	12/06/00	12/06/00	
TCE	mg/Kg	nd	nd	---	NE
Other VOCs (see text)	mg/Kg	nd	0.012 mg/L	---	NE
Chromium, total	mg/Kg	11,000	---	---	NE
TCLP Cadmuim	mg/L	25.1	---	nd	1.0
TCLP Chromium	mg/L	8.67	---	nd	5.0
TCLP Chromium (hex)	mg/L	0.15	---	0.131	NE
TCLP Lead	mg/L	22.1	---	nd	5.0
TCLP Barium	mg/L	---	---	1.73	100
TCLP other metals	mg/L	---	---	nd	Varies
TCLP 8081	mg/L	---	---	nd	Varies
TCLP 8151	mg/L	---	---	nd	Varies
TCLP 8270	mg/L	---	---	nd	Varies
TCLP 8260	mg/L	---	---	nd	Varies

"nd" Analyte not detected above detection limit

"---" Analysis not performed

"SB" Site background concentration

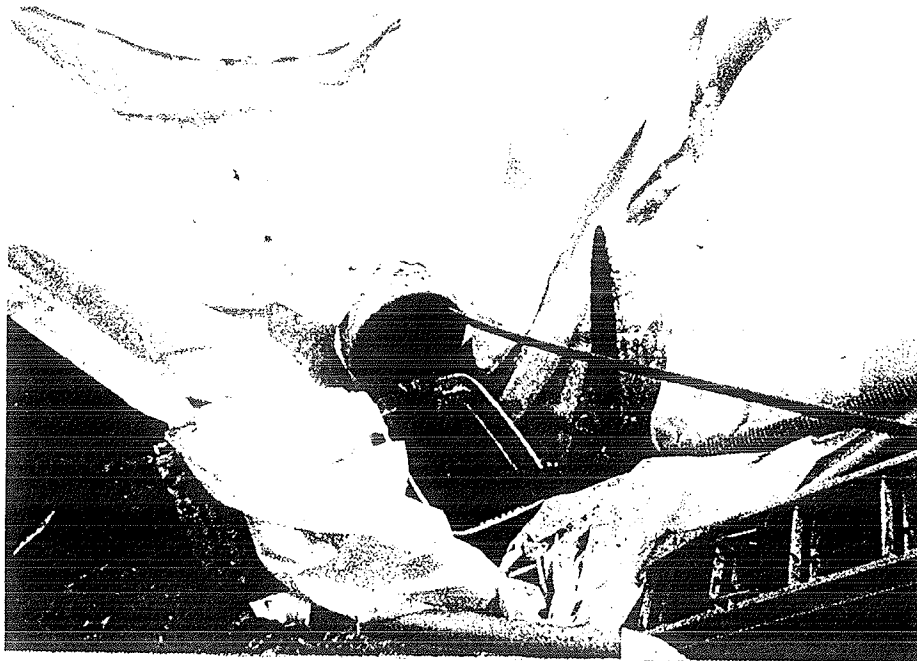
"NE" Regulatory level not established



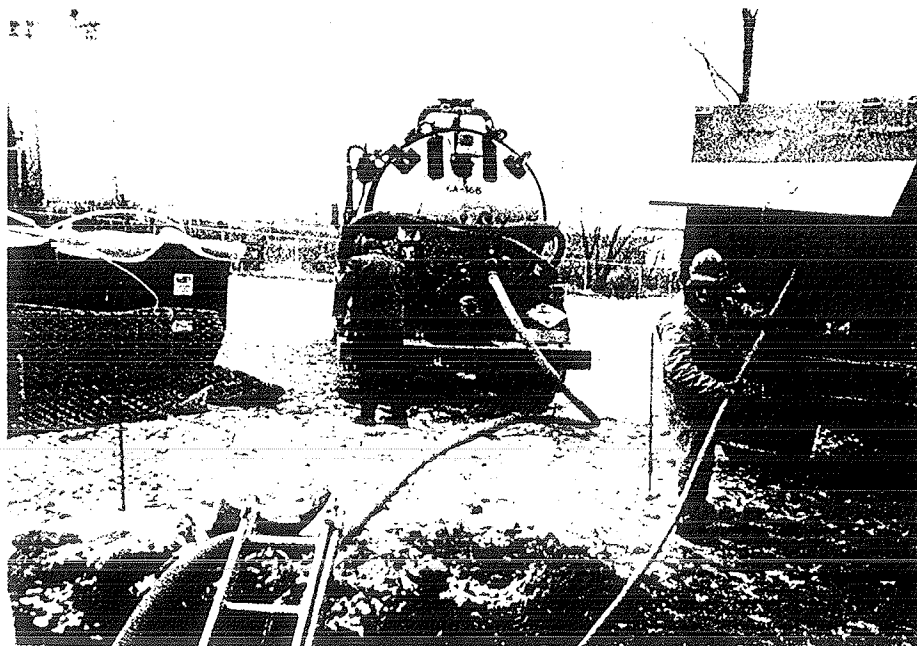
Exposed Tee



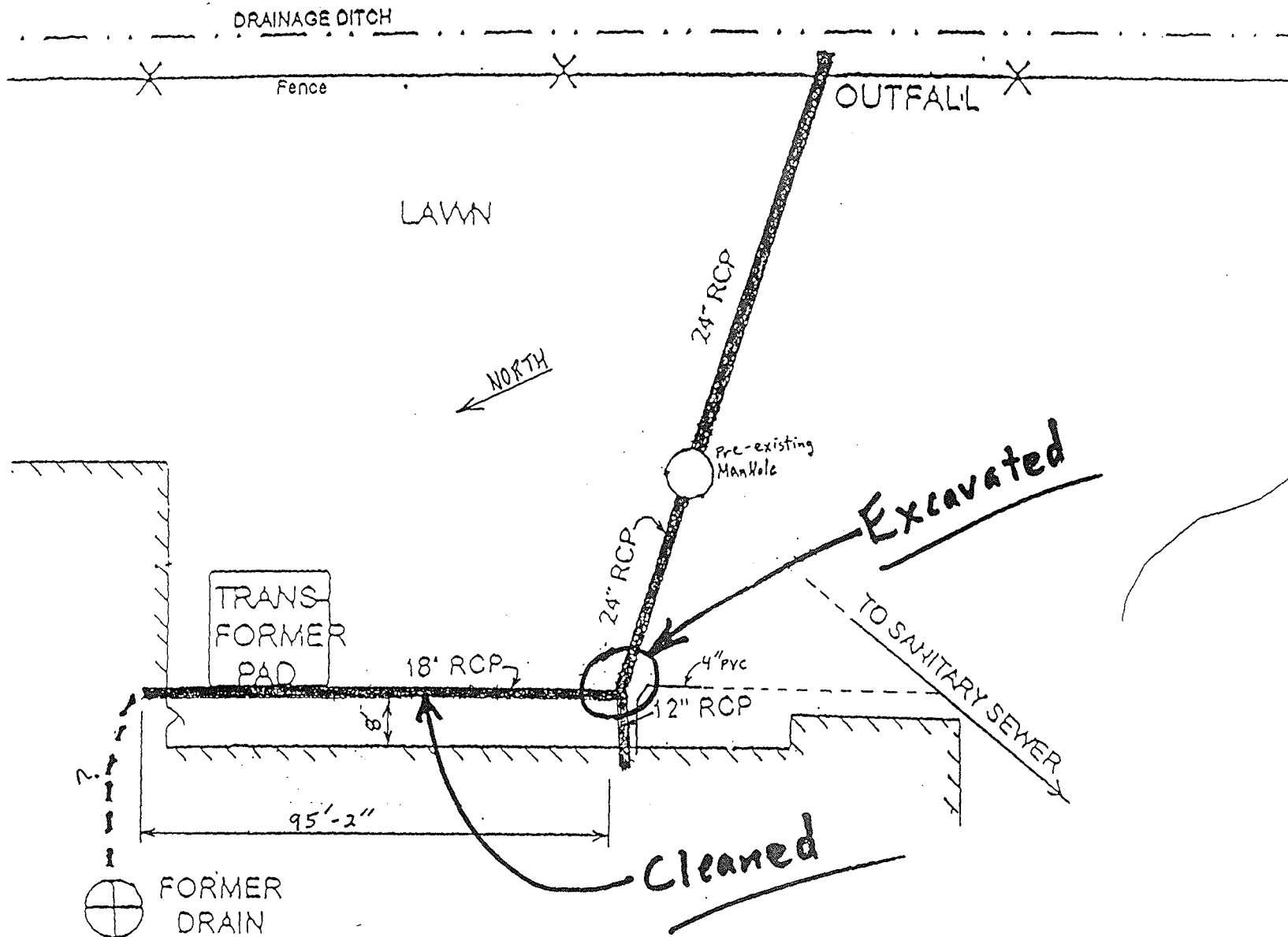
Partially Completed Excavation, with Tee Removed



Cleaning 18-inch Pipe



Cleaning Equipment



Not to Scale

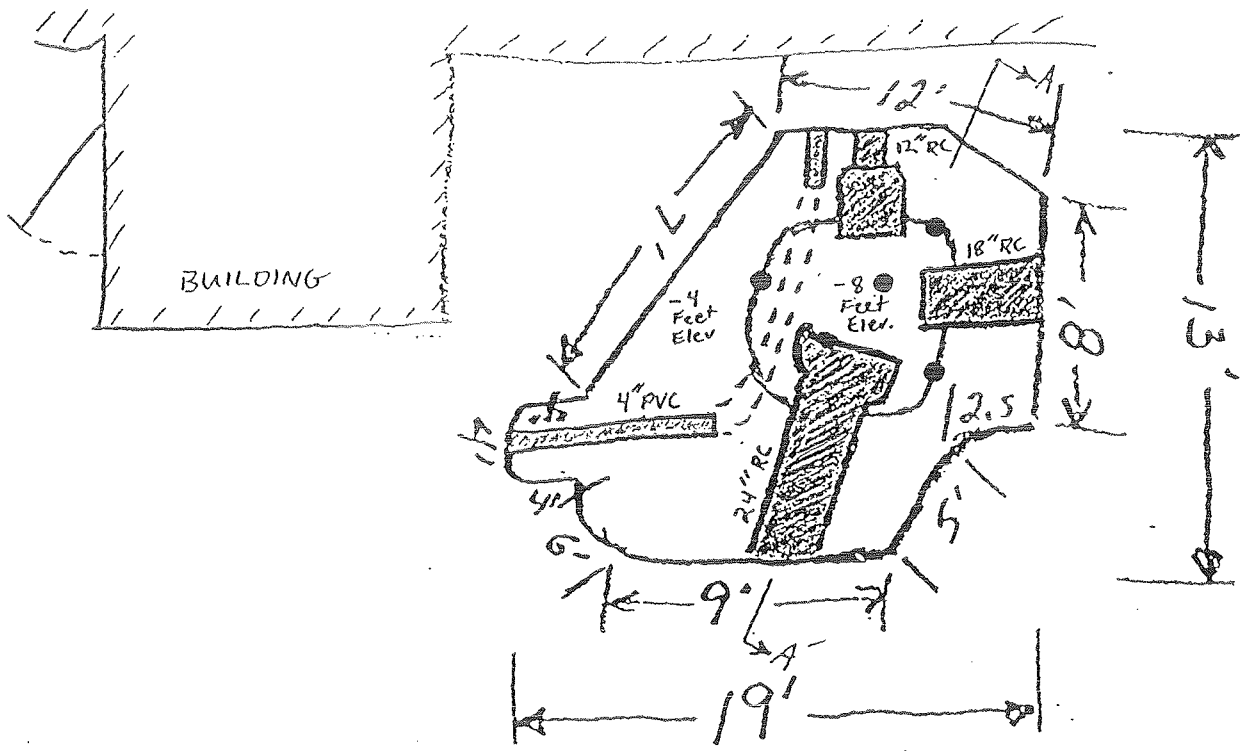
Ward Products Drain Pipe IRM

Amsterdam, New York

December, 2000

NRMD2-02936-300

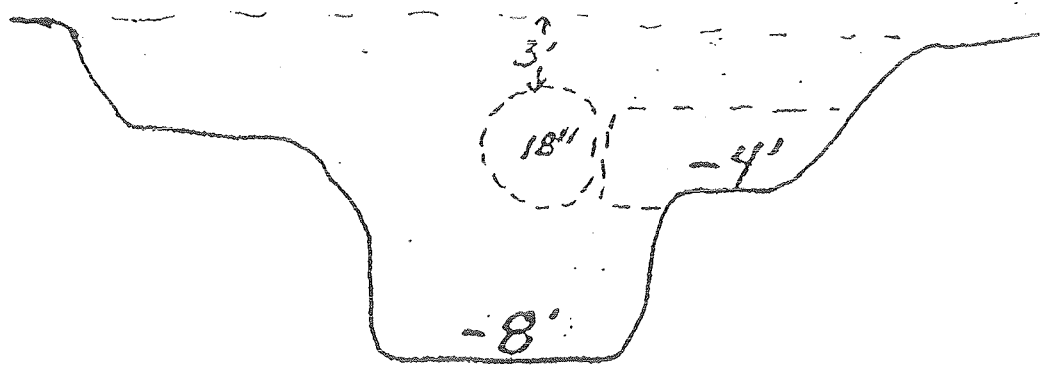
Site Plan



Assumed
North
→

PLAN VIEW

● Sample Locations



SECTION A-A

Drawn by Op-Tech and ThermoRetec
Not to Scale



Ward Products Drain Pipe IRM

Amsterdam, New York

December, 2000

NRMD2-02936-300

Excavation Detail

PAGE

COM

High Acres Landfill and Recycling Center
 ALL LOADS MUST BE TARPED OR TIED DOWN
 NO EXCEPTIONS TO THE RULE!!!!!!!!!!!!!!
 HARD HATS REQUIRED ON WORKING FACE

Manifest: 11076 Advf:

Origin: MONTGOMERY

Generator#: 2302 WARD PRODUCTS

Transporter: CUSTOMER Customer

Bill to: 2242 OP TECH-WARD PRODUCTS
 , NY

Gross: 56240 PB Lbs

Tare: 35400 PB Lbs

Net: 20840

Date: 12/30/2000 Ticket: 115470
 Time In: 09:15 Time Out: 10:34
 Grid: Cell 7 Western Expansion
 Profile#: CR9486 WARD PRODUCTS-SOIL(C
 Charge#:

Truck: PAGE

Trailer:

Tons: 10.42
 Quantity: 0.00
 Mixed %: 100.00

Code	Description	Quantity	Type	Rate	Amount
28	Soils - Cover	10.42	T		
FUELSUR	Fuel Surcharge				

PS:

Ticket Clerk _____ PPS

Driver William R. [Signature]

PAGE

COM

High Acres Landfill and Recycling Center
 ALL LOADS MUST BE TARPED OR TIED DOWN
 NO EXCEPTIONS TO THE RULE!!!!!!!!!!!!!!
 HARD HATS REQUIRED ON WORKING FACE

Manifest: 10377 Advf:

Origin: MONTGOMERY

Generator#: 2302 WARD PRODUCTS

Transporter: CUSTOMER Customer

Bill to: 2242 OP TECH-WARD PRODUCTS
 , NY

Gross: 72320 PB Lbs

Tare: 39120 PB Lbs

Net: 33200

Date: 12/30/2000 Ticket: 115460
 Time In: 09:35 Time Out: 10:32
 Grid: Cell 7 Western Expansion
 Profile#: CR9486 WARD PRODUCTS-SOIL(C
 Charge#:

Truck: R04226

Trailer:

Tons: 16.60
 Quantity: 0.00
 Mixed %: 100.00

Code	Description	Quantity	Type	Rate	Amount
28	Soils - Cover	16.60	T		
FUELSUR	Fuel Surcharge				

PS:

Ticket Clerk _____ PPS

Driver J. [Signature]



CWM Chemical Services, LLC
A WASTE MANAGEMENT COMPANY
P.O. Box 200
1550 Balmer Rd.
Model City, NY 14107
(716) 754-8231
(716) 754-0211

INVOICE

THIS IS AN INVOICE FOR CURRENT CHARGES.
PLEASE PAY AMOUNT INDICATED BELOW.

TERMS: PAY AMOUNT DUE UPON RECEIPT

**DUE UPON RECEIPT
OR PER CONTRACT TERMS**

ALL PAST DUE AMOUNTS WILL BEAR INTEREST AT ONE AND ONE-HALF PERCENT PER MONTH OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS.

UPSTATE ENVIRONMENTAL SVCS INC
ATTN: ACCOUNTS PAYABLE
6392 DEERE RD
SYRACUSE, NY 13206-1322

Invoice Date: 12/14/2000
Customer #: 378-1402804
Invoice #: 2045-9907112
Page #: 3055-9907112

Manifest#	Profile Description	Gener/Quantity	P.O.#/Unit	Billor
NYE2561373	CHS120 WASTE WATER FROM DRA	008162 WARD PRODUCTS C		KYQUNE
	TREAT BULK AQUEOUS	DISPOSAL	1,123.00 GALLON	
	TREAT BULK AQUEOUS	DISPOSAL	1.00 WASHOUT	
	DISPOSAL FUEL SURCHA	DISPOSAL FUEL SURCHG	LOAD	
	TOWN HOST TAX			
	TOWN HOST TAX			

Svc Date: 12/11/2000
ATC

8153749801 577931-1;

STHROI



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 17-NOV-2000

Lab Sample ID: L59039-1

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: WARD PRODUCTS DRAIN PIPE
Origin: DRAIN PIPE SEDIMENTS
Description: GRAB, NRMD2-02936
Sampled On: 09-NOV-99 00:00 by CLIENT
Date Received: 01-NOV-00 11:06
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Cadmium	25.1	mg/l	0.050	14-NOV-00 12:49	EPA 6010 TCLP	00-159-09
Chromium	8.67	mg/l	0.100	14-NOV-00 12:49	EPA 6010 TCLP	00-159-09
Hexachromium	0.15	mg/l	0.025	14-NOV-00 00:00	EPA 7195 TCLP	00-024-28
Lead	22.1	mg/l	0.440	14-NOV-00 12:49	EPA 6010 TCLP	00-159-09

Page 1 of 1

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

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STATE LIBRARY OF MASSACHUSETTS

CHAIN OF CUSTODY RECORD

[illegible]

PINK COPY - Sampler

YELLOW COPY - Laboratory

WHITE COPY - RETEC



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-1

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: EX-BOTTOM
Description: GRAB
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	82	%		11-DEC-00 00:00	CLP 3.0	00-132-86
Amium	9.99	mg/kg	0.526	15-DEC-00 05:11	EPA 6010	00-178-06
Chromium	301	mg/kg	1.05	15-DEC-00 05:11	EPA 6010	00-178-06
Cachromium	0.17	mg/kg	0.120	11-DEC-00 00:00	EPA 7195	00-024-32
Lead	17.8	mg/kg	4.63	15-DEC-00 05:11	EPA 6010	00-178-06
EPA 8260						
Chlorodifluoromethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Chloromethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Vinyl chloride	U	ug/kg	180	15-DEC-00 16:33	EPA 8260	00-163-3337
Bromomethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Fluoroethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Trichlorofluoromethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Acrolein	U	ug/kg	1800	15-DEC-00 16:33	EPA 8260	00-163-3337
1,1-Dichloroethene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Acetone	U	ug/kg	2200	15-DEC-00 16:33	EPA 8260	00-163-3337
Carbon disulfide	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,2-Dichloroethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Acrylonitrile	U	ug/kg	1800	15-DEC-00 16:33	EPA 8260	00-163-3337
trans-1,2-Dichloroethene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,1-Dichloroethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
cis-1,2-Dichloroethene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Methyl Ethyl Ketone (2-Butanone)	U	ug/kg	2200	15-DEC-00 16:33	EPA 8260	00-163-3337
Chloroform	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,1,1-Trichloroethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Carbon tetrachloride	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Benzene	U	ug/kg	62	15-DEC-00 16:33	EPA 8260	00-163-3337
1,2-Dichloroethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Trichloroethene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,2-Dichloropropane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Bromomethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,1-Dichloroethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
2-Chloroethylvinylether	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
cis-1,3-Dichloropropene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Methyl Ethyl Ketone (4-Methyl-2-pentanone)	U	ug/kg	880	15-DEC-00 16:33	EPA 8260	00-163-3337
Toluene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
trans-1,3-Dichloropropene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,1,2-Trichloroethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Tetrachloroethene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337

Results calculated on a dry weight basis.

NY 10252 NJ 73168 PA 68180 EPA NY 0008 Page 1 of 2

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-1

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: EX-BOTTOM
Description: GRAB
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Hexanone	U	ug/kg	880	15-DEC-00 16:33	EPA 8260	00-163-3337
Dibromochloromethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
EDB(1,2-Dibromoethane)	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Chlorobenzene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,1,1,2-Tetrachloroethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Ethylbenzene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
p-Xylene/m-Xylene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
o-Xylene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Styrene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Bromoform	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Bromobenzene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,1,2,2-Tetrachloroethane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,2,3-Trichloropropane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
2-Chlorotoluene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
4-Chlorotoluene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,3-Dichlorobenzene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,4-Dichlorobenzene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,2-Dichlorobenzene	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
1,2-Dibromo-3-chloropropane	U	ug/kg	440	15-DEC-00 16:33	EPA 8260	00-163-3337
Surrogate Recovery:						
Dibromofluoromethane	101	%				00-163-3337
Toluene-d8	96	%				00-163-3337
4-Bromofluorobenzene	95	%				00-163-3337

Results calculated on a dry weight basis.

QC L NY 10252 NJ 73168 PA 68180 EPA NY 00033

Page 2 of 2

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-2

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: EX-S
Description: GRAB
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	82.8	%		11-DEC-00 00:00	CLP 3.0	00-132-86
Cadmium	3.83	mg/kg	0.544	15-DEC-00 05:14	EPA 6010	00-178-06
Chromium	78.7	mg/kg	1.09	15-DEC-00 05:14	EPA 6010	00-178-06
Hexachromium	0.29	mg/kg	0.120	12-DEC-00 00:00	EPA 7195	00-024-33
Lead	21.1	mg/kg	4.79	15-DEC-00 05:14	EPA 6010	00-178-06
EPA 8260						
1,1-Dichlorodifluoromethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Chloromethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Vinyl chloride	U	ug/kg	180	15-DEC-00 17:04	EPA 8260	00-163-3338
Bromomethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Chloroethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,1-Dichlorofluoromethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Acrolein	U	ug/kg	1800	15-DEC-00 17:04	EPA 8260	00-163-3338
1,1-Dichloroethene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Acetone	U	ug/kg	2300	15-DEC-00 17:04	EPA 8260	00-163-3338
Carbon disulfide	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Methylene Chloride	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Acrylonitrile	U	ug/kg	1800	15-DEC-00 17:04	EPA 8260	00-163-3338
trans-1,2-Dichloroethene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,1-Dichloroethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
cis-1,2-Dichloroethene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
MEK(2-Butanone)	U	ug/kg	2300	15-DEC-00 17:04	EPA 8260	00-163-3338
Chloroform	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,1,1-Trichloroethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Carbon tetrachloride	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Benzene	U	ug/kg	63	15-DEC-00 17:04	EPA 8260	00-163-3338
1,2-Dichloroethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Trichloroethene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
2-Dichloropropane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Bromomethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,1-Dichloroethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
2-Chloroethylvinylether	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
cis-1,3-Dichloropropene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
BK(4-Methyl-2-pentanone)	U	ug/kg	900	15-DEC-00 17:04	EPA 8260	00-163-3338
Toluene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
trans-1,3-Dichloropropene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,1,2-Trichloroethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Tetrachloroethene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338

Results calculated on a dry weight basis.

NY 10252

NJ 73168

PA 68180

EPA NY 00033

Page 1 of 2

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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"Our family, caring about your analytical needs... Since 1963."



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-2

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: EX-S
Description: GRAB
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Hexanone	U	ug/kg	900	15-DEC-00 17:04	EPA 8260	00-163-3338
Dibromochloromethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
EDB(1,2-Dibromoethane)	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Chlorobenzene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,1,1,2-Tetrachloroethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Ethylbenzene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
p-Xylene/m-Xylene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
o-Xylene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Styrene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Bromoform	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Bromobenzene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,1,2,2-Tetrachloroethane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,2,3-Trichloropropane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
2-Chlorotoluene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
4-Chlorotoluene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,3-Dichlorobenzene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,4-Dichlorobenzene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,2-Dichlorobenzene	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
1,2-Dibromo-3-chloropropane	U	ug/kg	450	15-DEC-00 17:04	EPA 8260	00-163-3338
Surrogate Recovery:						
Dibromofluoromethane	101	%				00-163-3338
Toluene-d8	97	%				00-163-3338
4-Bromofluorobenzene	96	%				00-163-3338

Results calculated on a dry weight basis.

QC 9 NY 10252 NJ 73168 PA 68180 EPA NY 00033 Page 2 of 2

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-6

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: ROLLOFF
Description: GRAB
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
TCLP 8260						
Vinyl chloride	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
1,1-Dichloroethene	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
MEK(2-Butanone)	U	mg/L	0.1	13-DEC-00 19:31	TCLP 8260	00-163-3317
Chloroform	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
Carbon tetrachloride	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
Benzene	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
1,2-Dichloroethane	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
Trichloroethene	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
1,1,1-Trichloroethene	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
Chlorobenzene	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
1,4-Dichlorobenzene	U	mg/L	0.03	13-DEC-00 19:31	TCLP 8260	00-163-3317
Surrogate Recovery:						
Dibromofluoromethane	103	%				00-163-3317
luene-d8	96	%				00-163-3317
Bromofluorobenzene	99	%				00-163-3317

Results calculated on a dry weight basis.

NY 10252 NJ 73168 PA 68180 EPA NY 00033 Page 1 of 2

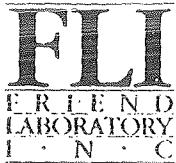
Approved by:

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-7

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

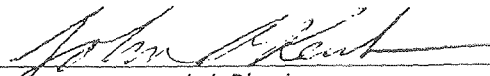
Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: RINSE WATER
Description: GRAB
Sampled On: 06-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
EPA 8260						
Chloromethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Vinyl chloride	U	ug/l	2	11-DEC-00 20:00	EPA 8260	00-163-3273
Chloroethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Bromomethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
1,1-Dichloroethene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Acetone	U	ug/l	25	11-DEC-00 20:00	EPA 8260	00-163-3273
Carbon disulfide	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Methylene chloride	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
trans-1,2-Dichloroethene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
1,1-Dichloroethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
cis-1,2-Dichloroethene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
MEK(2-Butanone)	U	ug/l	25	11-DEC-00 20:00	EPA 8260	00-163-3273
Chloroform	12	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
1,1,1-Trichloroethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Carbon tetrachloride	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Benzene	U	ug/l	0.7	11-DEC-00 20:00	EPA 8260	00-163-3273
1,2-Dichloroethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Trichloroethene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
1,2-Dichloropropane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Bromodichloromethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
cis-1,3-Dichloropropene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
MIBK(4-Methyl-2-pentanone)	U	ug/l	10	11-DEC-00 20:00	EPA 8260	00-163-3273
Toluene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
trans-1,3-Dichloropropene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
1,1,2-Trichloroethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Tetrachloroethene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
2-Hexanone	U	ug/l	10	11-DEC-00 20:00	EPA 8260	00-163-3273
Dibromochloromethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Chlorobenzene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Ethylbenzene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
p-Xylene/m-Xylene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
o-Xylene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Styrene	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
Bromoform	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273
1,1,2,2-Tetrachloroethane	U	ug/l	5	11-DEC-00 20:00	EPA 8260	00-163-3273

Results calculated on a dry weight basis.

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Page 1 of 2

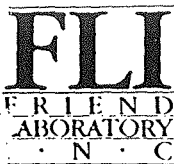
Approved by: 

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-7

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: RINSE WATER
Description: GRAB
Sampled On: 06-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery:						
m-bromofluoromethane	97	%				00-163-3273
luene-d8	98	%				00-163-3273
Bromofluorobenzene	93	%				00-163-3273

Results calculated on a dry weight basis.

NY 10252 NJ 73168 PA 68180 EPA NY 00039 Page 2 of 2

Approved by: 
Lab Director

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No.

CHAIN OF CUSTODY RECORD

PROJ. NO. 02936		PROJECT NAME Ward Products Drain		NO. OF CONTAINERS	TCE	Lead	Cadmium	Chromium (total)	Chromium (hexavalent)	Full TCLP	REMARKS																		
SAMPLERS: M Hofferbert		RECEIVING LABORATORY: Friend																											
SAMPLE NO.	DATE	TIME	SAMPLE LOCATION																										
1	12/5		EX - Bottom -1	2	✓	✓	✓	✓	✓		"Extra" Container included, if needed.																		
2	12/5		EX - S -2	2	✓	✓	✓	✓	✓		"																		
3	12/5		EX - NE -3	2	✓	✓	✓	✓	✓		"																		
4	12/5		EX - NW -4	2	✓	✓	✓	✓	✓		"																		
5	12/5		Roll off -5, -6							✓	Please Composite (in lab) grab samples number 1, 2 and 3. Any volatile																		
6	12/6		Rinse Water -7	2	(BTEX/Chlorinated VOCs)						analyses can be done on "mixed".																		
											Report and Invoice to																		
											RETEC, Ithaca NY																		
											Attn: Mark Hofferbert																		
<table border="1"> <tr> <td>Relinquished by: (Signature)</td> <td>Date/Time</td> <td>Received by: (Signature)</td> <td>Relinquished by: (Signature)</td> <td>Date/Time</td> <td>Received by: (Signature)</td> </tr> <tr> <td>Relinquished by: (Signature)</td> <td>Date/Time</td> <td>Received by: (Signature)</td> <td>Relinquished by: (Signature)</td> <td>Date/Time</td> <td>Received by: (Signature)</td> </tr> <tr> <td>Relinquished by: (Signature)</td> <td>Date/Time</td> <td>Received for laboratory by: (Signature)</td> <td>Date/Time</td> <td colspan="2"></td> </tr> </table>												Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received for laboratory by: (Signature)	Date/Time		
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REMARKS:																													


 REMEDIATION
TECHNOLOGIES INC

 REMEDIATION TECHNOLOGIES
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850
(607) 277-5716
Fax (607) 277-9057

PINK COPY - Sampler

YELLOW COPY - Laboratory

WHITE COPY - RETEC



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-3

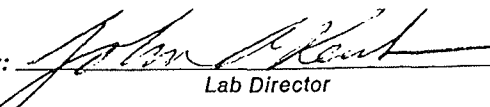
Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: EX-NE
Description: GRAB
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	84.7	%		11-DEC-00 00:00	CLP 3.0	00-132-86
Cadmium	14.5	mg/kg	0.590	15-DEC-00 05:17	EPA 6010	00-178-06
Chromium	238	mg/kg	1.18	15-DEC-00 05:17	EPA 6010	00-178-06
Hexachromium	0.37	mg/kg	0.150	11-DEC-00 00:00	EPA 7195	00-024-32
Lead	84.9	mg/kg	5.19	15-DEC-00 05:17	EPA 6010	00-178-06
EPA 8260						
1,1-Dichlorodifluoromethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Chloromethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Vinyl chloride	U	ug/kg	180	15-DEC-00 17:35	EPA 8260	00-163-3339
Bromomethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Chloroethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,1-Dichlorofluoromethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Acrolein	U	ug/kg	1800	15-DEC-00 17:35	EPA 8260	00-163-3339
1,1-Dichloroethene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Acetone	U	ug/kg	2200	15-DEC-00 17:35	EPA 8260	00-163-3339
Carbon disulfide	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Methylene Chloride	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Acrylonitrile	U	ug/kg	1800	15-DEC-00 17:35	EPA 8260	00-163-3339
trans-1,2-Dichloroethene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,1-Dichloroethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
cis-1,2-Dichloroethene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
MeK(2-Butanone)	U	ug/kg	2200	15-DEC-00 17:35	EPA 8260	00-163-3339
Chloroform	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,1,1-Trichloroethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Carbon tetrachloride	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Benzene	U	ug/kg	62	15-DEC-00 17:35	EPA 8260	00-163-3339
1,2-Dichloroethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Trichloroethene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,2-Dichloropropane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Bromomethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,1-Dichloromethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
2-Chloroethylvinylether	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
cis-1,3-Dichloropropene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
3-Methyl-2-pentanone	U	ug/kg	890	15-DEC-00 17:35	EPA 8260	00-163-3339
Toluene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
trans-1,3-Dichloropropene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,1,2-Trichloroethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Tetrachloroethene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339

Results calculated on a dry weight basis.

NY 10252 NJ 73168 PA 68180 EPA NY 00033 Page 1 of 2

Approved by: 
Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-3

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: EX-NE
Description: GRAB
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Hexanone	U	ug/kg	890	15-DEC-00 17:35	EPA 8260	00-163-3339
Dibromochloromethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
EDB(1,2-Dibromoethane)	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Chlorobenzene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,1,1,2-Tetrachloroethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Ethylbenzene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
p-Xylene/m-Xylene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
o-Xylene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Styrene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Bromoform	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Bromobenzene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,1,2,2-Tetrachloroethane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,2,3-Trichloropropane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
2-Chlorotoluene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
4-Chlorotoluene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,3-Dichlorobenzene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,4-Dichlorobenzene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,2-Dichlorobenzene	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
1,2-Dibromo-3-chloropropane	U	ug/kg	450	15-DEC-00 17:35	EPA 8260	00-163-3339
Surrogate Recovery:						
Dibromofluoromethane	101	%				00-163-3339
Toluene-d8	95	%				00-163-3339
4-Bromofluorobenzene	96	%				00-163-3339

Results calculated on a dry weight basis.

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033 Page 2 of 2

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-4

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: EX-NW
Description: GRAB
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	84.3	%		11-DEC-00 00:00	CLP 3.0	00-132-86
Cadmium	2.4	mg/kg	0.525	15-DEC-00 05:32	EPA 6010	00-178-06
Chromium	141	mg/kg	1.05	15-DEC-00 05:32	EPA 6010	00-178-06
Cachromium	0.12	mg/kg	0.059	11-DEC-00 00:00	EPA 7195	00-024-32
Lead	14.5	mg/kg	4.62	15-DEC-00 05:32	EPA 6010	00-178-06
EPA 8260						
Dichlorodifluoromethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Chloromethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Vinyl chloride	U	ug/kg	170	15-DEC-00 18:06	EPA 8260	00-163-3340
Bromomethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Chloroethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Trichlorofluoromethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Acrolein	U	ug/kg	1700	15-DEC-00 18:06	EPA 8260	00-163-3340
1,1-Dichloroethene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Acetone	U	ug/kg	2100	15-DEC-00 18:06	EPA 8260	00-163-3340
Carbon disulfide	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Methylene Chloride	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Acrylonitrile	U	ug/kg	1700	15-DEC-00 18:06	EPA 8260	00-163-3340
trans-1,2-Dichloroethene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,1-Dichloroethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
cis-1,2-Dichloroethene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
MEK(2-Butanone)	U	ug/kg	2100	15-DEC-00 18:06	EPA 8260	00-163-3340
Chloroform	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,1,1-Trichloroethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Carbon tetrachloride	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Benzene	U	ug/kg	60	15-DEC-00 18:06	EPA 8260	00-163-3340
1,2-Dichloroethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Trichloroethene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
2-Dichloropropane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Bromomethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,1-Dichloroethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
2-Chloroethylvinylether	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
cis-1,3-Dichloropropene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
4-Methyl-2-pentanone	U	ug/kg	850	15-DEC-00 18:06	EPA 8260	00-163-3340
Toluene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
trans-1,3-Dichloropropene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,1,2-Trichloroethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Tetrachloroethene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340

Results calculated on a dry weight basis.

NY 10252 NJ 73168 PA 68180 EPA NY 00039 Page 1 of 2

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-4

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: EX-NW
Description: GRAB
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2-Hexanone	U	ug/kg	850	15-DEC-00 18:06	EPA 8260	00-163-3340
Dibromochloromethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
EDB(1,2-Dibromoethane)	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Chlorobenzene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,1,1,2-Tetrachloroethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Ethylbenzene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
p-Xylene/m-Xylene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
o-Xylene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Styrene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Bromoform	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Bromobenzene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,1,2,2-Tetrachloroethane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,2,3-Trichloropropane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
2-Chlorotoluene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
4-Chlorotoluene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,3-Dichlorobenzene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,4-Dichlorobenzene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,2-Dichlorobenzene	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
1,2-Dibromo-3-chloropropane	U	ug/kg	430	15-DEC-00 18:06	EPA 8260	00-163-3340
Surrogate Recovery:						
Dibromofluoromethane	102	%				00-163-3340
Toluene-d8	97	%				00-163-3340
4-Bromofluorobenzene	98	%				00-163-3340

Results calculated on a dry weight basis.

QC 2 NY 10252 NJ 73168 PA 68180 EPA NY 00033

Page 2 of 2

Approved by:

Lab Director

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mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 20-DEC-2000

Lab Sample ID: L60914-5

Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: ROLLOFF
Description: COMPOSITE
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Arsenic	U	mg/L	1.20	15-DEC-00 01:22	EPA 6010 TCLP	00-178-06
Cadmium	1.73	mg/L	0.160	15-DEC-00 01:22	EPA 6010 TCLP	00-178-06
Cadmium	0.131	mg/L	0.050	15-DEC-00 01:22	EPA 6010 TCLP	00-178-06
Chromium	U	mg/L	0.100	15-DEC-00 01:22	EPA 6010 TCLP	00-178-06
Lead	U	mg/L	0.440	15-DEC-00 01:22	EPA 6010 TCLP	00-178-06
Mercury	U	mg/L	0.0100	15-DEC-00 00:00	EPA 7470 TCLP	98-011-27
Selenium	U	mg/L	0.700	15-DEC-00 01:22	EPA 6010 TCLP	00-178-06
Silver	U	mg/L	0.100	15-DEC-00 01:22	EPA 6010 TCLP	00-178-06
P 8081						
Lindane	U	mg/L	0.005	16-DEC-00 00:00	TCLP 8081	99-127-2146
Heptachlor	U	mg/L	0.005	16-DEC-00 00:00	TCLP 8081	99-127-2146
Heptachlor Epoxide	U	mg/L	0.005	16-DEC-00 00:00	TCLP 8081	99-127-2146
Dieldrin	U	mg/L	0.005	16-DEC-00 00:00	TCLP 8081	99-127-2146
Endosulfan	U	mg/L	0.005	16-DEC-00 00:00	TCLP 8081	99-127-2146
Chlordane	U	mg/L	0.005	16-DEC-00 00:00	TCLP 8081	99-127-2146
Toxaphene	U	mg/L	0.05	16-DEC-00 00:00	TCLP 8081	99-127-2146
Extraction Information:				14-DEC-00 00:00	EPA 3510	00-135-70
Surrogate Recovery:						
Tetrachloro-m-Xylene	112	%				99-127-2146
1,2-Dichlorobiphenyl	120	%				99-127-2146
TCLP 8151						
4,4'-DDE	U	mg/L	0.4	18-DEC-00 00:00	TCLP 8151	99-100-6350
4,5-TP (Silvex)	U	mg/L	0.4	18-DEC-00 00:00	TCLP 8151	99-100-6350
Extraction Information:				14-DEC-00 00:00		00-088-62

Results calculated on a dry weight basis.

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

Page 1 of 2

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

Date: 16-JAN-2001

Lab Sample ID: L60914-5

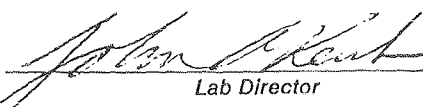
Remediation Technologies
Mark Hofferbert
1001 W. Seneca Street, Suite 204
Ithaca, NY 14850

Sample Source: 02936 WARD PRODUCTS DRAIN
Origin: ROLLOFF
Description: COMPOSITE
Sampled On: 05-DEC-00 00:00 by CLIENT
Date Received: 08-DEC-00 15:42
P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery: DCAA	100	%				99-100-6350
TCLP 8270						
Pyridine	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
o-Cresol	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
p-Cresol/m-Cresol	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
Hexachloroethane	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
Nitrobenzene	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
Hexachlorobutadiene	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
2,4,6-Trichlorophenol	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
2,4,5-Trichlorophenol	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
2,4-Dinitrotoluene	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
Hexachlorobenzene	U	mg/l	0.05	15-DEC-00 15:44	TCLP 8270	00-165-1240
Pentachlorophenol	U	mg/l	0.2	15-DEC-00 15:44	TCLP 8270	00-165-1240
Extraction Information:				13-DEC-00 00:00	EPA 3510	00-115-79
Surrogate Recovery:						
2-Fluorophenol	33	%				00-165-1240
Phenol-d5	22	%				00-165-1240
Nitrobenzene-d5	72	%				00-165-1240
2-Fluorobiphenyl	73	%				00-165-1240
2,4,6-Tribromophenol	57	%				00-165-1240
Terphenyl-d14	89	%				00-165-1240

Results calculated on a dry weight basis.

QC _____ NY 10252 NJ 73168 PA 68180 EPA NY 00033
Page 2 of 2

Approved by: 

Lab Director

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mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

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APPENDIX I

**NIAGARA MOHAWK AND
THERMO RETEC REPORTS
ON PCB IRM**



William J. Holzhauer
Chief Counsel - Environmental Affairs

Phone: (315) 428-6341
FAX: (315) 428-6407
E-mail: holzhauerw@nimo.com

Transmitted Via U.S. Mail

June 14, 1999

Richard J. Conway, Jr., Esq.
101 Eisenhower Parkway, 4th Floor
P.O. Box 610
Roseland, New Jersey 07068

Re: Ward Products Corporation
Amsterdam, New York
Limited Soil Investigation
Project #: 0364.36409 #2

Dear Mr. Conway:

This letter presents Niagara Mohawk's (NM's) response to your May 13, 1999 letter offering comments on the results and conclusions of NM's limited soil investigation that was conducted in the vicinity of the NM-owned transformer bank at the Ward Products Corporation (Ward Products) facility in Amsterdam, New York. NM's response to your comments is based on the findings of our limited investigation, on the available background history of this site, and on the technical comments provided by Ward Products' consultant Normandeau Associates (Normandeau) in an April 19, 1999 letter which was included as an attachment to your letter. As stated in your letter, you did not consider the conclusions derived from the results of NM's limited soil investigation to be acceptable. NM wishes to resolve this situation amicably, however, NM would like to respond to the technical comments presented in your letter regarding the conclusions of the limited soil investigation conducted in the vicinity of the NM-owned transformer bank.

As indicated in the April 19, 1999 letter from Normandeau, Ward Products has no record of purchasing, using, or generating any materials containing polychlorinated biphenyls (PCBs). However, during a conversation with Mr. Richard E. Dantz of Ward Products during a preliminary site visit, a NM representative learned that various types of oils and lubricating fluids (i.e., compressor oil, lubricating fluid, various oil containing equipment, etc.) have been used in manufacturing operations by Ward Products. Historically, Aroclors 1254 and 1260 (the PCB Aroclors detected in soil at the facility) have been used in numerous products such as

hydraulic fluids, plasticizer in synthetic resins and rubbers, adhesives, lubricants, and cutting oils. Unless additional records are available (i.e., laboratory results for oil and fluid samples, records specifically indicating the purchase/use of non-PCB containing material, etc.), NM does not believe that Ward Products can reasonably state with any degree of certainty that PCBs were never present in materials utilized in past manufacturing operations at the Ward Products facility.

NM's records do not indicate that PCB-containing oil has ever been used within the transformers at the Ward Products facility. In addition, NM has no record of any spills at this facility, and no visually oil-stained areas or petroleum-type sheens were observed during NM's limited soil investigation. NM does not accept Ward Product's conclusion that the NM-owned transformers are the probable source of the PCBs detected within soil at this facility based on the following:

The highest PCB concentrations were detected in soil located outside and slightly upgradient of the fenced transformer area. PCBs were not detected within the fenced transformer bank area at concentrations exceeding the recommended soil cleanup objectives presented in the New York State Department of Environmental Conservation- (NYSDEC) document entitled "Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels" HWR-94-4046 (TAGM 4046), dated January 24, 1994. In addition, the highest concentrations of PCBs were detected along the side of the fenced transformer area which is opposite the access gate into the transformer area. Therefore, it is unlikely that activities associated with the servicing of the transformers would have occurred in the immediate vicinity of the highest detected PCB concentrations; and

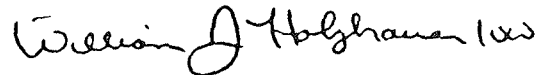
The distribution of PCB concentrations in soil located inside the fenced transformer area is not consistent with a point source spill from an electrical transformer. Based on numerous site investigations conducted by NM, low level PCB concentrations associated with mineral oil spills from an electrical transformer would typically be associated with visually oil stained soil.

The results of the limited soil investigation suggests that the distribution of the PCB concentrations in soil located in the vicinity of the transformer bank is consistent with a point source release of a PCB-containing material in the area north of the fenced transformer bank immediately adjacent to the grinding shop door. In addition, NM continues to believe that the distribution of PCBs in the vicinity of the transformer area may potentially indicate that imported PCB-contaminated fill material was placed in this area.

Please be advised that NM's consultant inadvertently presented preliminary (non-validated) analytical results in our December 22, 1998 letter. NM has included the validation data review report as well as a table and a figure presenting the validated results of the soil samples collected during the limited soil investigation conducted in December 1998. Based on the data validation, each of the PCB results has been qualified with an estimated value qualifier due to a continuing calibration result which fell outside the acceptable percent difference range from the previous calibration event. The elevated percent difference encountered during sample analysis lends to a low bias in the laboratory results and some of the PCB concentrations may be slightly higher than indicated. The validated data does not change any conclusions previously presented based on the limited soil investigation.

The results of the limited soil investigation indicate that no remedial activities are necessary to address the concentration of PCBs detected in soil located within the fenced transformer bank area at the Ward Products facility. In addition, the existing data is not sufficient to convince NM to take responsibility for addressing PCB concentrations in soil located immediately outside the grinding shop door. Please do not hesitate to contact me at (315) 428-6341 if you have any questions or require additional information.

Very truly yours,



William J. Holzhauer
Chief Counsel - Environmental Affairs

WJH:vw

Enclosures

cc: Mr. Lawrence Alden, New York State Department of Environmental Conservation
Mr. Al Darmofal, Ward Products Corporation
Mr. Steven P. Stucker, C.P.G., Niagara Mohawk
Mr. Michael W. Sherman, Niagara Mohawk
Mr. Michael G. Abbott, Niagara Mohawk
Mr. David J. Ulm, Blasland, Bouck & Lee, Inc.
Mr. Michael C. Jones, Blasland, Bouck & Lee, Inc.

Table 1

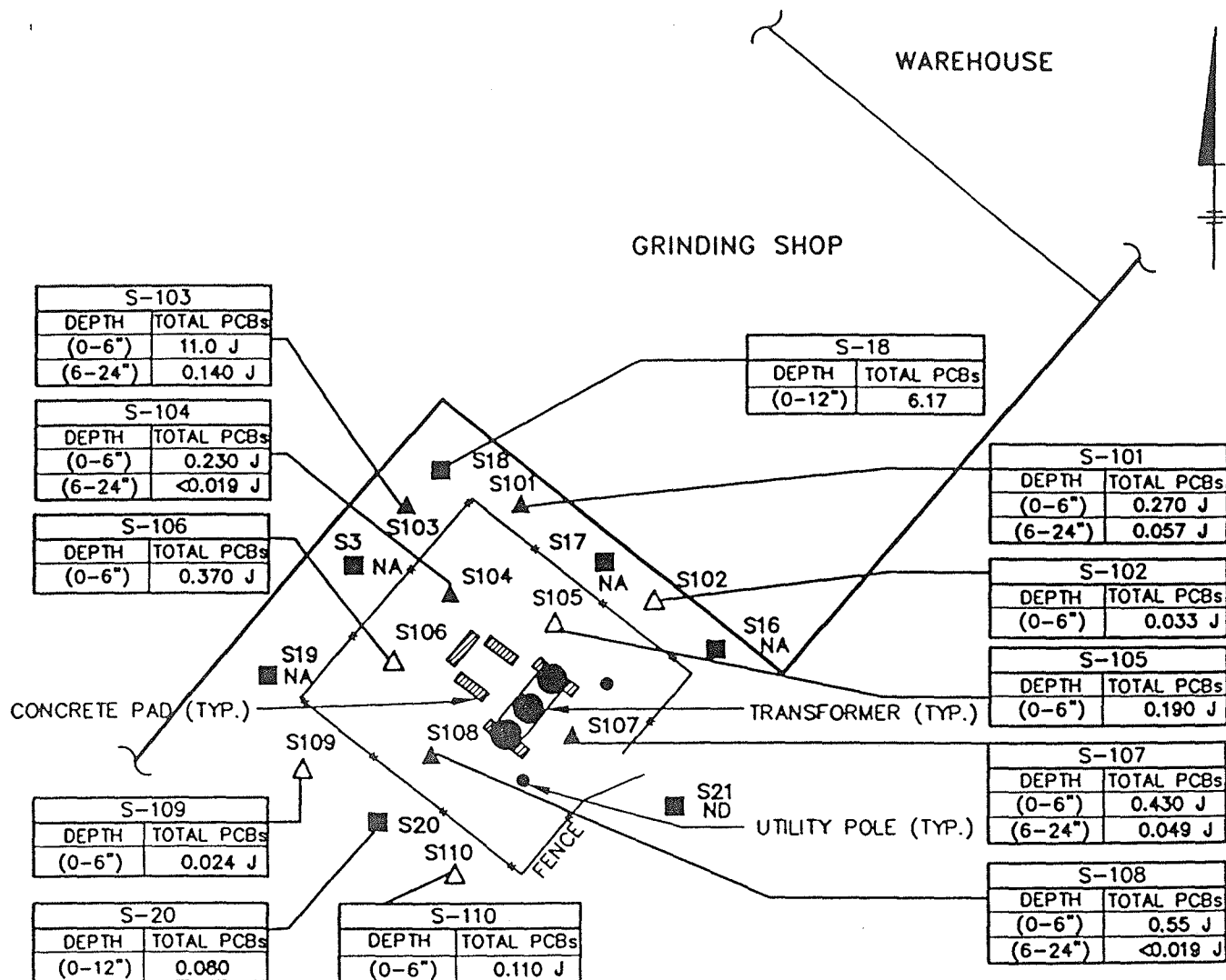
Ward Products Site
Amsterdam, New York
Limited Soil Investigation

Analytical Results for Total PCBs (ppm)

Sample ID	Total PCB Concentration
Surface Soil	
S-101 (0-6")	0.270 J
S-102 (0-6")	0.033 J
S-103 (0-6")	11.0 J
S-104 (0-6")	0.230 J
DUP-1 [S-104 (0-6")]	0.240 J
S-105 (0-6")	0.190 J
S-106 (0-6")	0.370 J
S-107 (0-6")	0.430 J
S-108 (0-6")	0.55 J
S-109 (0-6")	0.024 J
S-110 (0-6")	0.110 J
Subsurface Soil	
S-101 (6-24")	0.057 J
S-103 (6-24")	0.140 J
S-104 (6-24")	<0.019 J
S-107 (6-24")	0.049 J
S-108 (6-24")	<0.019 J
Asphalt/Tar Roof Material	
Roof	<0.066 J

Notes:

1. Samples collected by Blasland, Bouck & Lee, Inc. on December 1, 1998.
2. Samples analyzed by Galson Laboratories, Inc. using USEPA SW-846 Method 8082.
3. Concentrations reported in parts per million (ppm) or milligrams per kilogram (mg/kg).
4. < = No Aroclors were detected above the presented concentration.
5. J = Estimated value.
6. Result shown in bold was detected at an estimated concentration exceeding the recommended surface soil cleanup objective of 1 ppm as presented in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) HWR-94-4046, dated January 24, 1994.
7. Data validated by Blasland, Bouck & Lee, Inc,



Validated Analytical Data Report
SDG# - L47425
Samples Collected 12/1/98

DATA REVIEW FOR
NMPC
WARD PRODUCTS SITE

SDG# L47425
PCB ANALYSES

Analyses performed by:
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East Syracuse, New York

Review performed by: .



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Summary

The following is an assessment of the data package for SDG# L47425 for sampling at the NMPC- Ward Products Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC
S-108 (0-6)	L47425-1	soil	12/1/98			x		
S-106 (0-6)	L47425-2	soil	12/1/98			x		
S-104 (0-6)*	L47425-3	soil	12/1/98			x		
S-105 (0-6)	L47425-6	soil	12/1/98			x		
S-107 (0-6)	L47425-7	soil	12/1/98			x		
S-108 (6-24)	L47425-8	soil	12/1/98			x		
S-107 (6-24)	L47425-9	soil	12/1/98			x		
S-110 (0-6)	L47425-10	soil	12/1/98			x		
S-109 (0-6)	L47425-11	soil	12/1/98			x		
S-102 (0-6)	L47425-12	soil	12/1/98			x		
S-101 (0-6)	L47425-13	soil	12/1/98			x		
S-104 (6-24)	L47425-14	soil	12/1/98			x		
S-103 (0-6)	L47425-15	soil	12/1/98			x		
S-101 (6-24)	L47425-16	soil	12/1/98			x		
S-103 (6-24)	L47425-17	soil	12/1/98			x		
DUP-1	L47425-18	soil	12/1/98			x		
ROOF	L47436-1	soil	12/1/98			x		

* MS/MSD analysis performed on sample.

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

- U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- E The compound was quantitated above the calibration range.
- D Concentration is based on a diluted sample analysis.
- C Identification confirmed by GC/MS.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method blank.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All primary column continuing calibration standards were within this limit, with the following exceptions:

Instrument HP9B	12/9/98 20:31
Aroclor 1254	-38.5%
Instrument HP9B	12/9/98 20:51
Aroclor 1260	-40.9%

Aroclor 1260 data for all samples and Aroclor 1254 data for samples S-110(0-6), S-109(0-6), S-102(0-6), S-101(0-6), S-104(6-24), S-101(6-24), S-103(6-24), S-108(0-6), S-105(0-6), DUP-1, S-103(0-6) and S-107(0-6) have been qualified as estimated with a potential low bias based on the %D.

In addition to the abovementioned deviations, several confirmation column continuing calibration standards were outside the %D limit, since data from the confirmation column was used for verification of identification only, the deviations have no effect on the reported data.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Recovery for one surrogate was outside control limits in samples ROOF and S-107(6-24). Since recoveries for the remaining surrogate were within control limits, no data have been qualified based on the deviations. All other surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell within the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All matrix spike and matrix spike duplicate recoveries and relative percent differences between recoveries were within control limits.

8. Matrix Spike Blank

The matrix spike blank recovery was within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
S-104(0-6) / DUP-1	Aroclor 1260	230	240	4.2%

ND Not detected.

NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

10. General Comments

Based on the peaks selected for quantitation and the associated contributions from multiple Aroclors, the reported data for Aroclors 1254 and 1260 should be considered biased high in sample S-108(0-6).

Although not reported, Aroclor 1254 appears to be present in samples S-104(0-6) and DUP-1 and Aroclor 1260 appears to be present in sample S-101(0-6).

The Aroclor pattern for sample S-107(6-24) is highly altered.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
<u>Data Completeness and Deliverables</u>			
Have any missing deliverables been received and added to the data package?	_____	<u>X</u>	_____
Is there a narrative or cover letter present?	<u>X</u>	_____	_____
Are the sample numbers included in the narrative?	_____	<u>X</u>	_____
Are the sample chain-of-custodies present?	<u>X</u>	_____	_____
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	_____	<u>X</u>	_____
<u>Holding Times</u>			
Have any holding times been exceeded?	_____	<u>X</u>	_____
<u>Surrogate Recovery</u>			
Are the surrogate recovery forms present?	<u>X</u>	_____	_____
Are all the samples listed on the appropriate surrogate recovery form?	<u>X</u>	_____	_____
Were recoveries of any surrogate outside of specified limits for any sample or blank?	<u>X</u>	_____	_____
If yes, were the samples reanalyzed?	_____	_____	<u>X</u>
Are there any transcription/calculation errors between the raw data and the summary form?	_____	<u>X</u>	_____
<u>Matrix Spikes</u>			
Is there a matrix spike recovery form present?	<u>X</u>	_____	_____
Were matrix spikes analyzed at the required frequency?	<u>X</u>	_____	_____
How many spike recoveries were outside of QC limits?	<u>0</u> out of <u>2</u>		
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?	<u>0</u> out of <u>1</u>		
<u>Blanks</u>			
Is a method blank summary form present?	<u>X</u>	_____	_____
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	<u>X</u>	_____	_____

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any method/reagent/instrument blanks have positive results?	_____	<u>X</u>	_____
Do any field/rinse/equipment blanks have positive results?	_____	_____	<u>X</u>
Are there field/rinse/equipment blanks associated with every sample?	_____	<u>X</u>	_____
<u>Calibration and GC Performance</u>			
Are the following chromatograms and integration reports present?			
peak resolution check	_____	<u>X</u>	_____
Aroclor 1016/1260	<u>X</u>	_____	_____
Aroclors 1221, 1232, 1242, 1248, and 1254	<u>X</u>	_____	_____
Is a calibration summary form present and complete for each analytical sequence?	<u>X</u>	_____	_____
Are there any transcription/calculation errors between the raw data and the forms?	_____	<u>X</u>	_____
Are the %RSD for the initial calibration within specified limits for all analytes?	<u>X</u>	_____	_____
Is the resolution between any two adjacent peaks in the resolution check mixture > 60%?	_____	_____	<u>X</u>
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	<u>X</u>	_____	_____
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	<u>X</u>	_____	_____
Are there any transcription/calculation errors between the raw data and the form?	_____	<u>X</u>	_____
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	_____	<u>X</u>	_____
<u>Analytical Sequence</u>			
Is Form VIII present and complete for each column and each period of analyses?	<u>X</u>	_____	_____
Was the proper analytical sequence followed?	<u>X</u>	_____	_____

PCB Data Validation Checklist - Page 3

	YES	NO	NA
<u>Cleanup Efficiency Verification</u>			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	<u>X</u>	<u> </u>	<u> </u>
<u>PCB Identification</u>			
Are RT of sample compounds within the established RT windows?	<u>X</u>	<u> </u>	<u> </u>
Were all positively identified compounds confirmed on a second column?	<u>X</u>	<u> </u>	<u> </u>
Was GC/MS confirmation provided when required?	<u> </u>	<u> </u>	<u>X</u>
Were there any false negatives?	<u>X</u>	<u> </u>	<u> </u>
<u>Compound Quantitation and Reported Detection Limits</u>			
Are there any transcription/calculation errors in the Form 1 results?	<u> </u>	<u>X</u>	<u> </u>
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	<u>X</u>	<u> </u>	<u> </u>
<u>Chromatogram Quality</u>			
Were the baselines stable?	<u>X</u>	<u> </u>	<u> </u>
Were any electronegative displacement (negative peaks) or unusual peaks detected?	<u>X</u>	<u> </u>	<u> </u>
<u>Field Duplicates</u>			
Were field duplicates submitted with the samples?	<u>X</u>	<u> </u>	<u> </u>

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
S-108 (0-6)			
S-106 (0-6)			
S-104 (0-6)			
S-104 (0-6) MS			
S-104 (0-6) MSD			
S-105 (0-6)			
S-107 (0-6)			
S-108 (6-24)			
S-107 (6-24)		I	
S-110 (0-6)			
S-109 (0-6)			
S-102 (0-6)			
S-101 (0-6)			
S-104 (6-24)			
S-103 (0-6)			
S-101 (6-24)			
S-103 (6-24)			
DUP-1			
ROOF		I	

Surrogates:
 TCX Tetrachloro-m-xylene
 DCB Decachlorobiphenyl
 na Not applicable

Qualifiers:
 D Surrogate diluted out.
 I Recovery high
 I Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

Date:	10/21/98- 10/22/98	12/8/98	12/8/98	12/8/98	12/8/98	12/9/98	12/9/98	12/8/98
Time:		1548	1608	1649	2136	0139	1316	2031
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok			ok				
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok				ok			
Aroclor 1248	ok	ok				ok		
Aroclor 1254	ok		ok				ok	-38.5
Aroclor 1260	ok			ok				
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							
Affected Samples:								110(0-6)
								109(0-6)
								102(0-6)
								101(0-6)
								104(6-24)
								101(6-24)
								103(6-24)
								108(0-6)
								105(0-6)
								DUP1
								103(0-6)
								107(0-6)

PCB Calibration Summary - Page 2

Instrument: HP9B

Column: DB-608

[illegible]

Corrected Sample Analysis Data Sheets

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

DUP-1

Lab Code: Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-18

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: HP9B\B120856

% Moisture: 8 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	18	U
11104-28-2-----Aroclor-1221	18	U
11141-16-5-----Aroclor-1232	18	U
53469-21-9-----Aroclor-1242	18	U
12672-29-6-----Aroclor-1248	18	U
11097-69-1-----Aroclor-1254	18	U
11096-82-5-----Aroclor-1260	240	U

Aroclor 1254 may be present in the sample.

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

ROOF

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47436-1

Sample wt/vol: 30.4 (g/mL) g

Lab File ID: HP9B\B120835

% Moisture: 1 decanted: (Y/N) N

Date Received: 12/02/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 40000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

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

12674-11-2-----Aroclor-1016	66	U
11104-28-2-----Aroclor-1221	66	U
11141-16-5-----Aroclor-1232	66	U
53469-21-9-----Aroclor-1242	66	U
12672-29-6-----Aroclor-1248	66	U
11097-69-1-----Aroclor-1254	66	U
11096-82-5-----Aroclor-1260	66	U W

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-101(0-6")

Lab Code: Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-13

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: HP9B\B120848

% Moisture: 7 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	18	U
11104-28-2-----Aroclor-1221	18	U
11141-16-5-----Aroclor-1232	18	U
53469-21-9-----Aroclor-1242	18	U
12672-29-6-----Aroclor-1248	18	U
11097-69-1-----Aroclor-1254	270	J
11096-82-5-----Aroclor-1260	18	W

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-101(6-24")

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-16

Sample wt/vol: 30.6 (g/mL) g

Lab File ID: HP9B\B120850

% Moisture: 10 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepE/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	18	U
11104-28-2-----Aroclor-1221	18	U
11141-16-5-----Aroclor-1232	18	U
53469-21-9-----Aroclor-1242	18	U
12672-29-6-----Aroclor-1248	18	U
11097-69-1-----Aroclor-1254	57	U
11096-82-5-----Aroclor-1260	18	U

Aroclor 1260 may be present in the sample.

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-102(0-6")

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-12

Sample wt/vol: 30.4 (g/mL) g

Lab File ID: HP9B\B120847

% Moisture: 8 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	18	U
11104-28-2-----Aroclor-1221	18	U
11141-16-5-----Aroclor-1232	18	U
53469-21-9-----Aroclor-1242	18	U
12672-29-6-----Aroclor-1248	18	U
11097-69-1-----Aroclor-1254	33	U
11096-82-5-----Aroclor-1260	18	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-103(0-6")

Lab Code: Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-15

Sample wt/vol: 30.6 (g/mL) g

Lab File ID: HP9B\B120857

% Moisture: 7 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 100.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	1800	UP
11104-28-2-----Aroclor-1221	1800	UP
11141-16-5-----Aroclor-1232	1800	UP
53469-21-9-----Aroclor-1242	1800	UP
12672-29-6-----Aroclor-1248	1800	UP
11097-69-1-----Aroclor-1254	11000	D
11096-82-5-----Aroclor-1260	1800	UP

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-103(6-24")

Lab Code: Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-17

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: HP9B\B120851

% Moisture: 11 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	18	U
11104-28-2-----Aroclor-1221	18	U
11141-16-5-----Aroclor-1232	18	U
53469-21-9-----Aroclor-1242	18	U
12672-29-6-----Aroclor-1248	18	U
11097-69-1-----Aroclor-1254	140	U
11096-82-5-----Aroclor-1260	18	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-104(0-6")

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-3

Sample wt/vol: 30.7 (g/mL) g

Lab File ID: HP9B\BI20839

% Moisture: 12 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000(uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

CAS NO.

COMPOUND

12674-11-2-----	Aroclor-1016	18	U
11104-28-2-----	Aroclor-1221	18	U
11141-16-5-----	Aroclor-1232	18	U
53469-21-9-----	Aroclor-1242	18	U
12672-29-6-----	Aroclor-1248	18	U
11097-69-1-----	Aroclor-1254	18	U
11096-82-5-----	Aroclor-1260	230	U

Aroclor 1254 may be present in the sample.

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-104(6-24")

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-14

Sample wt/vol: 30.2 (g/mL) g

Lab File ID: HP9B\B120849

% Moisture: 14 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	19	U
11104-28-2-----Aroclor-1221	19	U
11141-16-5-----Aroclor-1232	19	U
53469-21-9-----Aroclor-1242	19	U
12672-29-6-----Aroclor-1248	19	U
11097-69-1-----Aroclor-1254	19	U
11096-82-5-----Aroclor-1260	19	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-105(0-6")

Lab Code: Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-6

Sample wt/vol: 30.3 (g/mL) g

Lab File ID: HP9B\B120854

% Moisture: 10 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	18	U
11104-28-2-----Aroclor-1221	18	U
11141-16-5-----Aroclor-1232	18	U
53469-21-9-----Aroclor-1242	18	U
12672-29-6-----Aroclor-1248	18	U
11097-69-1-----Aroclor-1254	18	U
11096-82-5-----Aroclor-1260	190	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-106(0-6")

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-2

Sample wt/vol: 30.4 (g/mL) g

Lab File ID: HP9B\B120838

% Moisture: 13 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	19	U
11104-28-2-----Aroclor-1221	19	U
11141-16-5-----Aroclor-1232	19	U
53469-21-9-----Aroclor-1242	19	U
12672-29-6-----Aroclor-1248	19	U
11097-69-1-----Aroclor-1254	19	U
11096-82-5-----Aroclor-1260	370	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-107(0-6")

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-7

Sample wt/vol: 30.4 (g/mL) g

Lab File ID: HP9B\B120858

% Moisture: 14 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 4.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

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

12674-11-2-----Aroclor-1016	76	UD
11104-28-2-----Aroclor-1221	76	UD
11141-16-5-----Aroclor-1232	76	UD
53469-21-9-----Aroclor-1242	76	UD
12672-29-6-----Aroclor-1248	76	UD
11097-69-1-----Aroclor-1254	76	UD
11096-82-5-----Aroclor-1260	430	D

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-107(6-24")

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-9

Sample wt/vol: 30 (g/mL) g

Lab File ID: HP9B\B120837

% Moisture: 13 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

Q

12674-11-2-----Aroclor-1016	19	U
11104-28-2-----Aroclor-1221	19	U
11141-16-5-----Aroclor-1232	19	U
53469-21-9-----Aroclor-1242	19	U
12672-29-6-----Aroclor-1248	19	U
11097-69-1-----Aroclor-1254	19	U
11096-82-5-----Aroclor-1260	49	4

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-108(0-6")

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-1

Sample wt/vol: 30.6 (g/mL) g

Lab File ID: HP9B\B120852

% Moisture: 9 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

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

12674-11-2-----Aroclor-1016	18	U
11104-28-2-----Aroclor-1221	18	U
11141-16-5-----Aroclor-1232	18	U
53469-21-9-----Aroclor-1242	18	U
12672-29-6-----Aroclor-1248	18	U
11097-69-1-----Aroclor-1254	260	44
11096-82-5-----Aroclor-1260	290	

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

S-108(6-24")

Lab Code: Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-8

Sample wt/vol: 30.9 (g/mL) g

Lab File ID: HP9B\B120836

% Moisture: 14 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg Q

12674-11-2-----Aroclor-1016	19	U
11104-28-2-----Aroclor-1221	19	U
11141-16-5-----Aroclor-1232	19	U
53469-21-9-----Aroclor-1242	19	U
12672-29-6-----Aroclor-1248	19	U
11097-69-1-----Aroclor-1254	19	U
11096-82-5-----Aroclor-1260	19	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-109(0-6")

Lab Name: GALSON LABORATORIES

Contract: Blasland, B

Lab Code:

Case No.: 2

SAS No.:

SDG No.: L47425

Matrix: (soil/water) SOIL

Lab Sample ID: L47425-11

Sample wt/vol: 30.7 (g/mL) g

Lab File ID: HP9B\B120846

% Moisture: 18 decanted: (Y/N) N

Date Received: 12/01/98

Extraction: (SepF/Cont/Sonc) SOXH

Date Extracted: 12/04/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/09/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

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

12674-11-2-----Aroclor-1016	20	U
11104-28-2-----Aroclor-1221	20	U
11141-16-5-----Aroclor-1232	20	U
53469-21-9-----Aroclor-1242	20	U
12672-29-6-----Aroclor-1248	20	U
11097-69-1-----Aroclor-1254	24	U
11096-82-5-----Aroclor-1260	20	U

FORM I PEST

Method 8082 PCB Package Review Checklist

Client BBL Project WARD SDG 147425

		Yes	No	NA
Form 4C:	Present and complete	☒	☐	☐
IDLs:	Present and complete	☒	☐	☐
GC Parameters:	Present and complete	☒	☐	☐
Form 6E:	Present and complete	☒	☐	☐
	% RSD within limits ($\leq 20\%$)	☒	☐	☐

Comments: _____

Form 7:	Present and complete	☒	☐	☐
	% D within limits ($\pm 15\%$)	☒	☐	☐

Comments: _____

Form 8:	Present and complete	☒	☐	☐
	% D within limits	☒	☐	☐
Form 9:	Present and complete	☒	☐	☐
	% D within limits ($\pm 15\%$)	☐	☒	☐

Comments: CONT. CAL. FAILED (AD0054 39.7d, AD0054 41.7d) LOW DUE TO MATRIX INTERFERENCE. CORRECTIVE ACTION WAS TAKEN AND AD0054 W3 AND AD0054 W3 CONT. CAL WERE REANALYZED AND FOUND TO BE WITHIN GC LIMITS. ALL SAMPLES MET SURrogate CRITERIA
Associated samples had been analyzed before with similar problem
 Calibration Data: Present and complete ☒ ☐ ☐

Method 8082 PCB Package Review Checklist

Client EPL Project WABD SDG L47425

Yes No NA

Form 1D, Method Blanks, MS/MSD, MSB:

Present and complete	☒	☐	☐
Raw Data present	☒	☐	☐
Non-detects lined-out and initialed	☒	☐	☐
Method Blank(s) results < MDL	☒	☐	☐
If no, associated results flagged "B"	☐	☐	☒

Comment: _____

Calculation Formula:	Present	☒	☐	☐
Extraction Logs:	Present	☒	☐	☐
GPC/Calibration Logs:	Present	☐	☐	☒
% Moisture Calculation:	Present	☒	☐	☐
Calibration and Spike Standards Log:	Present	☒	☐	☐

Section Supervisor: Dommen V. Kappel Date: 12/11/98

QC Reviewer: David W. Mac Date: 12/11/98

NYSDEC Sample Preparation and Analysis Summary Sheets

12

SDO : L47425 MATRIX : Soil

[illegible]

10

SDO : 147425 MATRIX : Soil

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
DUP-1 L47425-18	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
ROOF L47436-1	SOIL	01-DEC-98	02-DEC-98	04-DEC-98	09-DEC-98
S-101(0-6") L47425-13	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-101(6-24") L47425-16	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-102(0-6") L47425-12	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-103(0-6") L47425-15	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-103(6-24") L47425-17	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-104(0-6") L47425-3	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-104(0-6")MS L47425-4	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-104(0-6")MSD L47425-5	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-104(6-24") L47425-14	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-105(0-6") L47425-6	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-106(0-6") L47425-2	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-107(0-6") L47425-7	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-107(6-24") L47425-9	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98
S-108(0-6") L47425-1	SOIL	01-DEC-98	01-DEC-98	04-DEC-98	09-DEC-98

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

[illegible]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Clean up	Dil/Conc Factor
DUP-1 L47425-18	Soil	885 ANALYTICAL CAT B	SW846/3540 /8082	ACID WASH FLORAL	1
ROOF L47436-1	Soil		SW846/3540 /8082		1
S-101(0-6") L47425-13	Soil		SW846/3540 /8082		1
S-101(6-24") L47425-16	Soil		SW846/3540 /8082		1
S-102(0-6") L47425-12	Soil		SW846/3540 /8082		1
S-103(0-6") L47425-15	Soil		SW846/3540 /8082		100
S-103(6-24") L47425-17	Soil		SW846/3540 /8082		1
S-104(0-6") L47425-3	Soil		SW846/3540 /8082		1
S-104(0-6")MS L47425-4	Soil		SW846/3540 /8082		1
S-104(0-6")MSD L47425-5	Soil		SW846/3540 /8082		1
S-104(6-24") L47425-14	Soil		SW846/3540 /8082		1
S-105(0-6") L47425-6	Soil		SW846/3540 /8082		1
S-106(0-6") L47425-2	Soil		SW846/3540 /8082		1
S-107(0-6") L47425-7	Soil		SW846/3540 /8082		4
S-107(6-24") L47425-9	Soil		SW846/3540 /8082		1
S-108(0-6") L47425-1	Soil		SW846/3540 /8082		1

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

[illegible]

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliance ¹				Noncompliance
					VOA	BNA	PCB	TAL	
L47425	12/1/98	1995	S-108 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-106 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-104 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-105 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-107 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-108 (6-24)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-107 (6-24)	soil	--	--	no	--	cal, surr ²
L47425	12/1/98	1995	S-110 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-109 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-102 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-101 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-104 (6-24)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-103 (0-6)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-101 (6-24)	soil	--	--	no	--	cal
L47425	12/1/98	1995	S-103 (6-24)	soil	--	--	no	--	cal
L47425	12/1/98	1995	DUP-1	soil	--	--	no	--	cal
L47425	12/1/98	1995	ROOF	soil	--	--	no	--	cal, surr ²

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

2 The non-compliance resulted in no qualification of data.

3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.



December 1, 1999

Al Larson
Normandeau Associates
25 Nashua Road
Bedford, NH 03110-5500

(607) 277-5716 Phone
(607) 277-9057 Fax
www.thermoretec.com

Re: Ward Products PCB IRM - Final Report

Dear Mr. Larson:

This letter report presents the results of the PCB IRM conducted at the Ward Products site in Amsterdam, NY. The full scope of work is detailed in the Work Plan and Design Document, IRM: Removal of PCB-Contaminated Soil (ThermoRetec, August 31, 1999).

On October 17, 1999, West Central Environmental (the Contractor) and ThermoRetec (the Engineer) mobilized to the site and excavated soils to a depth of 8 to 12 inches in the area shown on the attached figure. The soil was excavated with a Kubota KX61-2 excavator except in areas of limited access, wherein the soil was excavated by hand. The excavated soil was placed directly into a 20 cubic yard rolloff with a minimum of handling.

The Engineer collected, over the course of the work, a composite sample of the soil as it was loaded into the rolloff. At the conclusion of the work, the engineer also collected eight confirmation samples from the bottom and sidewalls of the excavation. The confirmation samples (C-1 through C-8) were analyzed for total PCBs. The composite sample (Rolloff) was analyzed for total PCBs and full TCLP.

All eight of the confirmation results were below the clean-up goal of 1.0 mg/Kg PCBs except sample C-6 (2.2 mg/Kg). C-6 was a sidewall sample collected at the north fenceline of the NMPC transformer area.

The PCB analysis of the composite (Rolloff) sample indicated that the IRM had successfully removed PCB-impacted material from the work area. Total (average) PCBs in the rolloff were 1.1 mg/Kg. The TCLP analysis of the rolloff material, however, revealed a high concentration of TCLP cadmium (23.7 mg/L).

Following review of the analytical data, and in consultation with Normandeau, the Engineer instructed the laboratory to reanalyze samples C-1 through C-8 for total cadmium. The results of the reanalysis showed that all of the samples contained elevated levels of cadmium, especially at sample location C-6.

Access by personnel to the interior of the fenced area was not approved by Ward Products or NMPC. On November 9, 1999, however, the Contractor and the Engineer again mobilized to the site and were able to remove, by working from outside the fence, an additional 0.4 cubic yards of surface soil from the area of C-6. Again, the soil was placed directly into the rolloff and



the Engineer collected an additional confirmation sample (C-9) from the excavation sidewall.

The analysis of confirmation sample C-9 indicates that, while some cadmium residuals remain, the residual PCBs were successfully removed and that the IRM achieved the stated objectives.

The rolloff material was classified as a D006 hazardous waste and disposed of at CWM in Model City, NY.

The analytical results discussed above are summarized in the attached table. The full laboratory reports are also attached. All analyses were performed by Friend Laboratory. Project photographs and a copy of the hazardous waste manifest are also attached. CWM will provide a certificate of disposal to the Generator (Ward Products).

The Engineer performed air monitoring during all phases of the field work. Photoionization detector and Miniram dust meter readings were consistently below applicable action levels. No visible dust was generated. The work was protective of human health and the environment.

In conclusion, the IRM successfully achieved the performance criteria detailed in the project Work Plan, namely:

- Excavation, transportation, and offsite disposal of accessible soil (located near the NMPC transformer pad) which contained PCBs at concentrations greater than the TAGM 4046 guidance values.
- Avoided damaging the adjacent building and transformer pad.
- Collected sidewall and bottom samples for laboratory analyses to confirm that soils exceeding TAGM 4046 guidance values were excavated, and to document the quality of soils remaining.

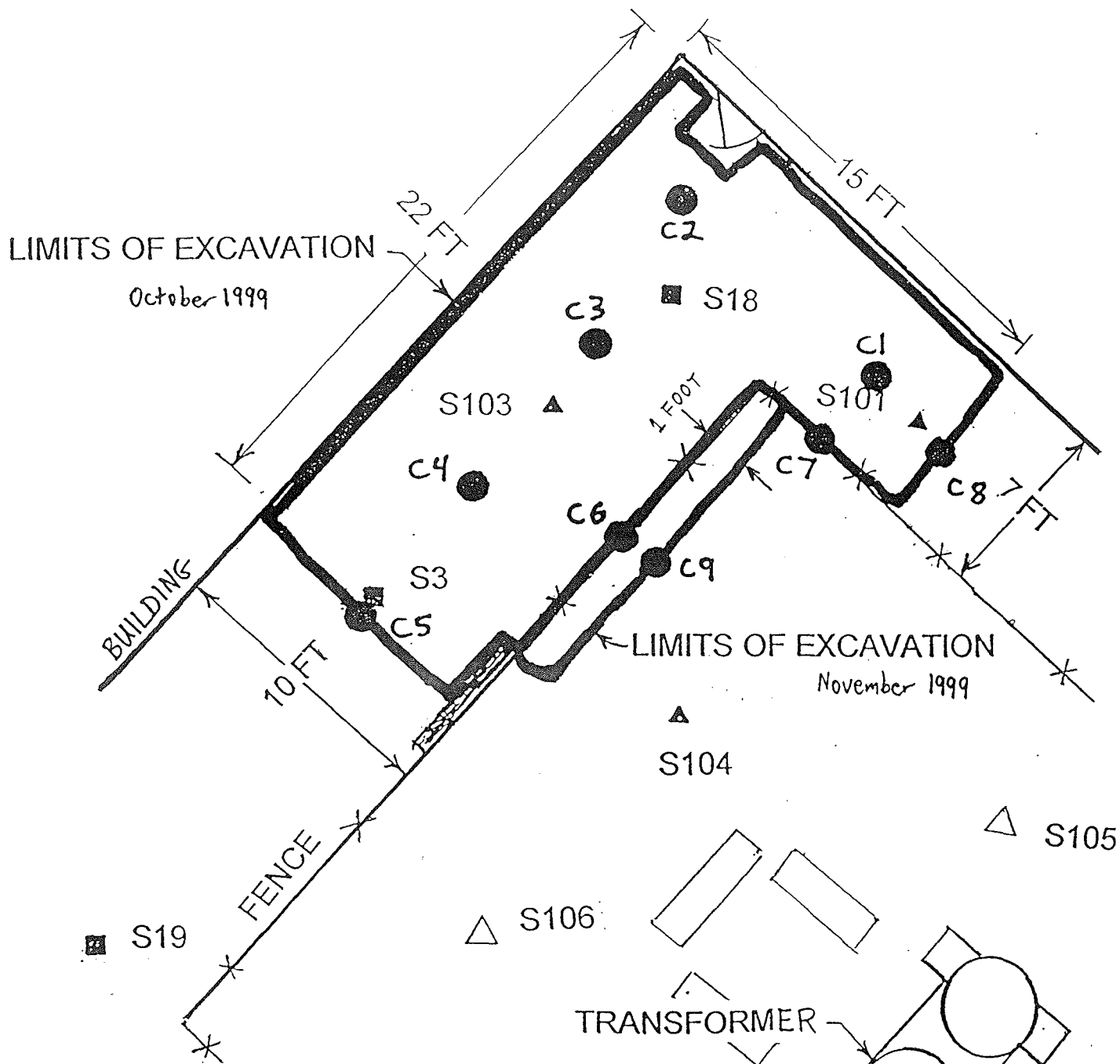
No further action is recommended at this time.

If you have any questions, please contact me at 607-277-5716.

Sincerely,
ThermoRetec Consulting Corporation

Mark Hofferbert
Project Engineer

cc: A. Darmofal - Ward Products
R. Conway, Esq.
L. Alden - NYSDEC
G. Rys - NYSDOH
J. Finn - ThermoRetec



● ThermoRetec Sampling Location



ThermoRetec

11/11/99 MRH

Analytical Summary - Ward Products PCB IRM

ThermoRetec Project # NRMD 2-02936-400

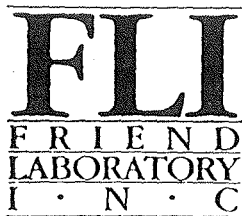
Excavation/Confirmation Analyses

Sample Location		Rolloff (composite)	C1 (grab)	C2 (grab)	C3 (grab)	C4 (grab)	C5 (grab)	C6 (grab)	C7 (grab)	C8 (grab)	C9 (grab)	OBJECTIVE
PCBs	mg/Kg	1.10	nd	0.31	0.08	nd	nd	2.20	0.21	nd	nd	1.0
Cadmium	mg/Kg	---	33	150	32	12	11	6,900	37	22	130	1.0

TCLP Analyses for Soil Disposal

Sample Location		Rolloff (composite)	OBJECTIVE
Arsenic	mg/L	nd	
Barium	mg/L	0.456	100.0
Cadmium	mg/L	23.7	1.0
Chromium	mg/L	0.145	5.0
Lead	mg/L	nd	
Mercury	mg/L	nd	
Selenium	mg/L	nd	
Silver	mg/L	nd	
VOCs	mg/L	nd	
SVOCs	mg/L	nd	
Herb/Pest	mg/L	nd	
Corrosivity	mg/L	nd	
Ignitability	mg/L	nd	
Cyanide Reactivity	mg/L	nd	
Sulfide Reactivity	mg/L	nd	

"nd" - Analyte not detected above detection limit.



ENVIRONMENTAL MONITORING • MICROBIOLOGY
ANALYTICAL CHEMISTRY • AIR QUALITY
INFORMATION MANAGEMENT

ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

THERMO RETEC

WARD PRODUCTS

SAMPLED: OCTOBER 7, 1999

ALBANY, NY

BUFFALO, NY

JAMESTOWN, NY

BOSTON, MA

SYRACUSE, NY

WATERTOWN, NY

"Our family, caring about your analytical needs . . . Since 1963."

CHAIN OF CUSTODY RECORD

FLI FRIEND LABORATORY I • N • C		ONE RESEARCH CIRCLE WAVERLY NY 14892-1532 Telephone (607) 565 3500 Fax (607) 565 7160		CLIENT: <i>ThermoRetec</i> ADDRESS: <i>Ithaca, NY</i> PHONE: <i>607 2775 716</i> FAX:		INVOICE TO: <i>Attn: Mark Hofferbert</i> ADDRESS:	
Sample Site: <i>WARD PRODUCTS</i> P.O. #		Untreated Sodium thiosulfate HCl pH <2 Ascorbic acid & HCl pH <2 HNO ₃ pH <2 H ₂ SO ₄ pH <2 NaOH pH >12 NaOH & Zinc acetate pH >9 Acetic Buffer pH <3 Sodium sulfite		PROJECT NO. / NAME <i>NRMD2-02936-400</i>		COPY TO: ADDRESS: <i>same</i>	
DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS		ANALYSES / TESTS REQUESTED		SAMPLE NUMBER	
<i>10/7/99</i> <i>1 pm</i>	<i>Roll off</i>	<i>4</i>		<i>Full TCLP, PCBs</i> <i>3 day TAT</i>		LAB USE ONLY	
<i>"</i> <i>3 pm</i>	<i>C-1 thru C-8,</i> <i>Matrix Spike,</i> <i>Matrix Spike Dup.</i> <i>(total 10 samples)</i>	<i>20</i>		<i>PCBs</i> <i>3 day TAT</i>		<i>11-10987654321</i>	
RELINQUISHED BY		DATE / TIME	ACCEPTED BY		DATE / TIME	NOTES TO LABORATORY	
<i>[Signature]</i> SAMPLER		<i>10/7/99</i> <i>4pm</i>	<i>Low Jones</i>		<i>10/8/99</i> <i>10:35</i>	<i>3 day Rush Turnaround Time.</i> <i>ASP Short Form Deliverables.</i> <i>Call with Questions:</i> <i>Mark Hofferbert 2775 716</i>	
						SUSPECTED CONTAMINATION LEVEL	

Laboratory Chronicle

FLI

**FRIEND
LABORATORY
INC**

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Lab Department

Volatiles

SDG/Project

Thermonutec

Fraction/Parameter

TCLP 8260

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L39635-1				
	L39635-10				
	L39635-11				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Shannon Mennett	10/12/99	11:40	Scott J. Borysuk	10-12-99	11:40	
1	Scott J. Borysuk	10-14-99	11:30	Scott J. Borysuk	10/14/99	11:30	
2							
2							
3							
3							

* Enter C to indicate sample or aliquot consumed during testing; R for return to Sample Custodian; L for return to cooler.

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Lab Department Semi-Vol

SDG/Project Thermo Retee

Fraction/Parameter _____

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L39635-9				
	L39635-10				
	L39635-11				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Lisa Moore	10/14/99	12:05	Theresa O'Connell	10/14/99	12:05	
1	Theresa O'Connell	10/15/99	18:20	Shannon M. Smith	10/15/99	18:20	
2							
2							
3							
3							

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Lab Department Semivolatiles
 Fraction/Parameter TCLP 8081 Pest

SDG/Project Thermoretec

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L39635-1				
	L39635-10				
	L39635-11				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Toni Jones	10/13/99	13:00	B. Colbaugh	10/13/99	13:00	R
1							
2							
2							
3							
3							

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Laboratory Chronicle

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Lab Department Semivolatiles
Fraction/Parameter 8082

SDG/Project Thermoniter

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L39635-1			L39635-11	
	L39635-2				
	L39635-3				
	L39635-4				
	L39635-5				
	L39635-6				
	L39635-7				
	L39635-8				
	L39635-9				
	L39635-10				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Joe. Shabel	10/8/99	12:53	Frank Gaudin	10/8/99	12:53	
1	Frank Gaudin	10/11/99	11:20	Shannon Bennett	10/11/99	11:30	
2							
2							
3							
3							

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Laboratory Chronicle

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Lab Department Metals
 Fraction/Parameter TCLP

SDG/Project Thermonitec

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L39635-1				
	L39635-10				
	L39635-11				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Joe Burleigh	10/8/99	13:30	Joe Burleigh	10/8/99	13:30	
1	Joe Burleigh	10/13/99	8:20	Thermonitec	10/13/99	8:20	
2							
2							
3							
3							

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Lab Department Wetchem
 Fraction/Parameter Corrosivity

SDG/Project Thermonitec

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L39635-1				
	L39635-11				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Shannon M. Bennett	10/12/99	840	Jack R. Halden	10/12/99	0845	
1	Jack R. Halden	10/12/99	1600	Jim Good	10/12/99	16100	
2							
2							
3							
3							

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Lab Department

Wetchem

SDG/Project

Thermoniter

Fraction/Parameter

Cyanide Reactivity

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	<u>L39635-1</u>				
	<u>L39635-11</u>				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
<u>1</u>	<u>Shannon M. Bennett</u>	<u>10/11/99</u>	<u>1100</u>	<u>Ben Brodie</u>	<u>10/11/99</u>	<u>1100</u>	
<u>1</u>	<u>Ben Brodie</u>	<u>10/11/99</u>	<u>1700</u>	<u>Shannon M. Bennett</u>	<u>10/11/99</u>	<u>1500</u>	
<u>2</u>							
<u>2</u>							
<u>3</u>							
<u>3</u>							

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Lab Department Wetchem
 Fraction/Parameter Ignitability

SDG/Project Thermonetec

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L39635-1				
	L39635-11				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Shannon MBennett	10/8/99	200	Robert T. Alameda	10/8/99	200	
1							
2	Robert T. Alameda	10/8/99	2:30	Shannon MBennett	10/8/99	1430	
2							
3							
3							

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Lab Department Wetchem
Fraction/Parameter Sulfide Reactivity

SDG/Project Thermonitec

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L39635-1				
	L39635-11				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	Shannon Bennett	10/11/99	1100	Brian Brackley	10/11/99	1100	
1	Brian Brackley	10/11/99	1700	Shannon Bennett	10/11/99	1700	
2							
2							
3							
3							

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Lab Department Wetchem
Fraction/Parameter Total Solids

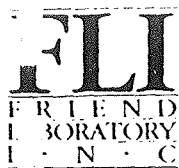
SDG/Project Thermometer

Number	Sample ID	Sample Origin	Number	Sample ID	Sample Origin
	L39635-1				
	L39635-2				
	L39635-3				
	L39635-4				
	L39635-5				
	L39635-6				
	L39635-7				
	L39635-8				
	L39635-9				
	L39635-11				

Number	Relinquished By	Date	Time	Received By	Date	Time	*
1	<u>Don Jones</u>	<u>10/8/99</u>	<u>10:30</u>	<u>Jack R. Stebbins</u>	<u>10-8-99</u>	<u>10:30</u>	
1	<u>JRS</u>	<u>10-8-99</u>	<u>12:30</u>	<u>Don Jones</u>	<u>10/8/99</u>	<u>12:30</u>	
2							
2							
3							
3							

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999

LAB SAMPLE ID L39635-1

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	ROLLOFF
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 13:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Corrosivity	Noncorrosive			14-OCT-99	EPA 1110	99-116-3
Cyanide, Reactive	U	mg/kg	0.486	13-OCT-99	SW846 CH.7	99-003-54
Ignitability	NON-IGNITABLE			08-OCT-99	SW846 CH.7	98-032-22
Total Solids	91.65	%		08-OCT-99	CLP 3.0	97-070-160
Sulfide Reactivity	U	mg/kg	11.5	14-OCT-99	SW846 CH.7	98-140-01
Arsenic	U	mg/l	1.20	15-OCT-99	EPA 6010 TCLP	99-178-10
Barium	0.465	mg/l	0.160	15-OCT-99	EPA 6010 TCLP	99-178-10
Cadmium	23.7	mg/l	0.0500	15-OCT-99	EPA 6010 TCLP	99-178-10
Chromium	0.145	mg/l	0.100	15-OCT-99	EPA 6010 TCLP	99-178-10
Lead	U	mg/l	0.440	15-OCT-99	EPA 6010 TCLP	99-178-10
Mercury	U	mg/l	0.1000	13-OCT-99	EPA 7470 TCLP	98-126-46
Selenium	U	mg/l	0.700	15-OCT-99	EPA 6010 TCLP	99-178-10
Silver	U	mg/l	0.100	15-OCT-99	EPA 6010 TCLP	99-178-10
TCLP 8260						
Vinyl chloride	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469
1,1-Dichloroethene	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469
Methyl ethyl ketone	U	mg/l	0.1	12-OCT-99	TCLP 8260	99-158-9469
Chloroform	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469
Carbon tetrachloride	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469
Benzene	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469
1,1-Dichloroethane	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469
Trichloroethene	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469
Tetrachloroethene	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469
Chlorobenzene	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469
1,1-Dichlorobenzene	U	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9469

Page 1

C De NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: John Kent
Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services.
Your samples will be discarded after 14 days unless we are advised otherwise.

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999

LAB SAMPLE ID : L39635-1

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	ROLLOFF
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 13:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery:						
Dibromofluoromethane	104	%				99-158-9469
Toluene-d8	99	%				99-158-9469
4-Bromofluorobenzene	104	%				99-158-9469

EPA 8082

PCB 1016	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2800
PCB 1221	U	mg/kg	0.21	13-OCT-99	EPA 8082	99-108-2800
PCB 1232	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2800
PCB 1242	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2800
PCB 1248	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2800
PCB 1254	1.1	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2800
PCB 1260	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2800

Extraction Information:

08-OCT-99

99-154-61

Surrogate Recovery:

Decachlorobiphenyl 116 %
Analysis Comment: Results are calculated on a dry weight basis.

99-108-2800

TCLP 8081

Lindane	U	mg/l	0.005	18-OCT-99	TCLP 8081	99-127-8116
Heptachlor	U	mg/l	0.005	18-OCT-99	TCLP 8081	99-127-8116
Heptachlor Epoxide	U	mg/l	0.005	18-OCT-99	TCLP 8081	99-127-8116
Endrin	U	mg/l	0.005	18-OCT-99	TCLP 8081	99-127-8116
Methoxychlor	U	mg/l	0.005	18-OCT-99	TCLP 8081	99-127-8116
Chlordane	U	mg/l	0.005	18-OCT-99	TCLP 8081	99-127-8116
Toxaphene	U	mg/l	0.05	18-OCT-99	TCLP 8081	99-127-8116

Extraction Information:

13-OCT-99

99-154-65

QC NY 10252 NJ 73168 PA 68180 EPA NY 00033

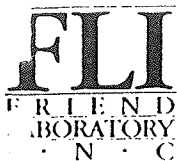
Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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DATE 26-OCT-1999

LAB SAMPLE ID : L39635-1

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	ROLLOFF
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 13:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery: Dachlorobiphenyl	104	%				99-127-8116
TCLP 8150						
2,4-D	U	mg/l	0.4	26-OCT-99	TCLP 8150	99-100-4309
4,5-TP (Silvex)	U	mg/l	0.4	26-OCT-99	TCLP 8150	99-100-4309
Extraction Information:				12-OCT-99		99-136-23
Surrogate Recovery: AA	98	%				99-100-4309
TCLP 8270						
Pyridine	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
Cresol	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
Cresol/m-Cresol	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
Hexachloroethane	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
Nitrobenzene	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
Hexachlorobutadiene	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
4,6-Trichlorophenol	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
4,5-Trichlorophenol	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
2,4-Dinitrotoluene	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
Hexachlorobenzene	U	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9388
ntachlorophenol	U	mg/l	0.2	13-OCT-99	TCLP 8270	98-051-9388
Extraction Information:				12-OCT-99		99-137-62
Surrogate Recovery:						
Fluorophenol	28	%				98-051-9388
enol-d5	20	%				98-051-9388
Nitrobenzene-d5	60	%				98-051-9388
2-Fluorobiphenyl	57	%				98-051-9388
2,4,6-Tribromophenol	41	%				98-051-9388
rphenyl-d14	72	%				98-051-9388

Page 3

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-OCT-1999

LAB SAMPLE ID : L39635-2

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-1
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	91.38	%		08-OCT-99	CLP 3.0	97-070-160
EPA 8082						
PCB 1016	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
PCB 1221	U	mg/kg	0.2	13-OCT-99	EPA 8082	99-108-2801
PCB 1232	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
PCB 1242	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
PCB 1248	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
PCB 1254	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
PCB 1260	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
Decachlorobiphenyl	63	%				99-108-2801
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

QC

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-OCT-1999

LAB SAMPLE ID : L39635-3

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-2
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	88.05	%		08-OCT-99	CLP 3.0	99-070-160
EPA 8082						
PCB 1016	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1221	U	mg/kg	0.24	13-OCT-99	EPA 8082	99-108-2802
PCB 1232	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1242	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1248	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1254	0.31	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1260	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
Polychlorobiphenyl	85	%				99-108-2802
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-OCT-1999

LAB SAMPLE ID L39635-4

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-3
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	89.93	%		08-OCT-99	CLP 3.0	97-070-160
EPA 8082						
PCB 1016	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
PCB 1221	U	mg/kg	0.16	13-OCT-99	EPA 8082	99-108-2803
PCB 1232	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
PCB 1242	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
PCB 1248	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
PCB 1254	0.08	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
PCB 1260	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803

Extraction Information:

08-OCT-99 99-154-61

Surrogate Recovery:

Decachlorobiphenyl 101 % 99-108-2803

Analysis Comment: Results are calculated on a dry weight basis.

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-OCT-1999

LAB SAMPLE ID L39635-5

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-4
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	87.81	%		08-OCT-99	CLP 3.0	97-070-160
EPA 8082						
CB 1016	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
CB 1221	U	mg/kg	0.18	13-OCT-99	EPA 8082	99-108-2804
CB 1232	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
PCB 1242	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
PCB 1248	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
PCB 1254	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
CB 1260	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
Polychlorobiphenyl	103	%				99-108-2804
Analysis Comment: Results are calculated on a dry weight basis.						

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-OCT-1999

LAB SAMPLE ID : L39635-6

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-5
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	85.67	%		08-OCT-99	CLP 3.0	97-070-160
EPA 8082						
PCB 1016	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
PCB 1221	U	mg/kg	0.24	13-OCT-99	EPA 8082	99-108-2805
PCB 1232	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
PCB 1242	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
PCB 1248	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
PCB 1254	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
PCB 1260	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805

Extraction Information:

08-OCT-99

99-154-61

Surrogate Recovery:

Decachlorobiphenyl

102

%

99-108-2805

Analysis Comment: Results are calculated on a dry weight basis.

QC

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

KEY: ND or U = None Detected
mg/L = milligrams per liter (equivalent to parts per million)
B = analyte was detected in the method or trip blank

ug/L = micrograms per liter (equivalent to parts per billion)
mg/kg = milligrams per kilogram (equivalent to parts per million)
J = result estimated below the quantitation limit

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-OCT-1999

LAB SAMPLE ID :L39635-7

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-6
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	82.02	%		08-OCT-99	CLP 3.0	97-070-160
EPA 8082						
PCB 1016	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
CB 1221	U	mg/kg	0.22	13-OCT-99	EPA 8082	99-108-2806
CB 1232	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
PCB 1242	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
PCB 1248	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
CB 1254	2.2	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
CB 1260	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
1,2-dichlorobiphenyl	75	%				99-108-2806
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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DATE 14-OCT-1999

LAB SAMPLE ID L39635-8

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-7
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	88.51	%		08-OCT-99	CLP 3.0	97-070-160
EPA 8082						
PCB 1016	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
PCB 1221	U	mg/kg	0.18	13-OCT-99	EPA 8082	99-108-2807
PCB 1232	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
PCB 1242	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
PCB 1248	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
PCB 1254	0.21	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
PCB 1260	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
Decachlorobiphenyl	99	%				99-108-2807
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 

Lab Director

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999

LAB SAMPLE ID : L39635-9

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-8
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	95.16	%		08-OCT-99	CLP 3.0	97-070-160
EPA 8082						
PCB 1016	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
B 1221	U	mg/kg	0.2	17-OCT-99	EPA 8082	99-108-2835
B 1232	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
PCB 1242	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
PCB 1248	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
PCB 1254	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
B 1260	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery: m-chlorobiphenyl	91	%				99-108-2835
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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DATE 26-OCT-1999

LAB SAMPLE ID L39635-10

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	L39635-1MS, ROLLOFF
DESCRIPTION	L39635-1
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Arsenic	38.9	mg/l	1.20	15-OCT-99	EPA 6010 TCLP	99-178-10
Barium	40.4	mg/l	0.160	15-OCT-99	EPA 6010 TCLP	99-178-10
Cadmium	24.5	mg/l	0.0500	15-OCT-99	EPA 6010 TCLP	99-178-10
Chromium	4.08	mg/l	0.100	15-OCT-99	EPA 6010 TCLP	99-178-10
Lead	9.87	mg/l	0.440	15-OCT-99	EPA 6010 TCLP	99-178-10
Mercury	0.06	mg/l	0.0100	13-OCT-99	EPA 7470 TCLP	98-126-46
Selenium	37	mg/l	0.700	15-OCT-99	EPA 6010 TCLP	99-178-10
Silver	0.991	mg/l	0.100	15-OCT-99	EPA 6010 TCLP	99-178-10
TCLP 8260						
Vinyl chloride	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
1,1-Dichloroethene	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
Methyl ethyl ketone	0.1	mg/l	0.1	12-OCT-99	TCLP 8260	99-158-9472
Chloroform	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
Carbon tetrachloride	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
Benzene	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
1,2-Dichloroethane	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
Trichloroethene	0.05	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
Tetrachloroethene	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
Chlorobenzene	0.05	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
1,4-Dichlorobenzene	0.05	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9472
Surrogate Recovery:						
Dibromofluoromethane	104	%				99-158-9472
Toluene-d8	100	%				99-158-9472
4-Bromofluorobenzene	101	%				99-158-9472

Page 1

QC *PK* NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: *John A. Kent*
Lab Director

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999

LAB SAMPLE ID : L39635-10

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	L39635-1MS, ROLLOFF
DESCRIPTION	L39635-1
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
EPA 8082						
B 1016	128	%		17-OCT-99	EPA 8082	99-108-2836
PCB 1260	198	%		17-OCT-99	EPA 8082	99-108-2836
Extraction Information:				14-OCT-99		99-154-69
surrogate Recovery:						
Decachlorobiphenyl	139	%				99-108-2836
LP 8081						
Endane	87	%		19-OCT-99	TCLP 8081	99-127-8126
Heptachlor	87	%		19-OCT-99	TCLP 8081	99-127-8126
Heptachlor Epoxide	90	%		19-OCT-99	TCLP 8081	99-127-8126
drin	90	%		19-OCT-99	TCLP 8081	99-127-8126
thoxychlor	96	%		19-OCT-99	TCLP 8081	99-127-8126
Extraction Information:				14-OCT-99		99-154-66
surrogate Recovery:						
cachlorobiphenyl	104	%				99-127-8126
TCLP 8150						
4-D	89	%		26-OCT-99	TCLP 8150	99-100-4310
4,5-TP (Silvex)	83	%		26-OCT-99	TCLP 8150	99-100-4310
Extraction Information:				12-OCT-99		99-136-23
surrogate Recovery:						
AA	104	%				99-100-4310
TCLP 8270						
ridine	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389
Cresol	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389
p-Cresol/m-Cresol	0.3	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389
Hexachloroethane	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389
trobenzene	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389
xachlorobutadiene	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389
4,4,6-Trichlorophenol	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389

Page 2

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999

LAB SAMPLE ID L39635-10

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	L39635-1MS, ROLLOFF
DESCRIPTION	L39635-1
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
2,4,5-Trichlorophenol	0.3	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389
2,4-Dinitrotoluene	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389
Hexachlorobenzene	0.3	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9389
Pentachlorophenol	0.2	mg/l	0.2	13-OCT-99	TCLP 8270	98-051-9389
<u>Extraction Information:</u>				12-OCT-99		99-137-62
<u>Surrogate Recovery:</u>						
2-Fluorophenol	31	%				98-051-9389
Phenol-d5	22	%				98-051-9389
Nitrobenzene-d5	56	%				98-051-9389
2-Fluorobiphenyl	54	%				98-051-9389
2,4,6-Tribromophenol	56	%				98-051-9389
Terphenyl-d14	63	%				98-051-9389

Page 3

QC 24 NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

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"Our family, caring about your analytical needs... Since 1963."



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999

LAB SAMPLE ID L39635-11

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	L39635-1MSD/DUP, ROLLOFF
DESCRIPTION	L39635-1
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Corrosivity	Noncorrosive			14-OCT-99	EPA 1110	99-116-3
Cyanide, Reactive	U	mg/kg	0.499	13-OCT-99	SW846 CH.7	99-003-54
Ignitability	NON-IGNITABLE			08-OCT-99	SW846 CH.7	98-032-22
Total Solids	89.76	%		08-OCT-99	CLP 3.0	97-070-160
Sulfide Reactivity	U	mg/kg	11.8	14-OCT-99	SW846 CH.7	98-140-01
Mercuric	U	mg/l	1.20	15-OCT-99	EPA 6010 TCLP	99-178-10
Barium	0.44	mg/l	0.160	15-OCT-99	EPA 6010 TCLP	99-178-10
Ammonium	22.9	mg/l	0.0500	15-OCT-99	EPA 6010 TCLP	99-178-10
Chromium	U	mg/l	0.100	15-OCT-99	EPA 6010 TCLP	99-178-10
Lead	U	mg/l	0.440	15-OCT-99	EPA 6010 TCLP	99-178-10
Mercury	U	mg/l	0.1000	13-OCT-99	EPA 7470 TCLP	98-126-46
Selenium	U	mg/l	0.700	15-OCT-99	EPA 6010 TCLP	99-178-10
Copper	U	mg/l	0.100	15-OCT-99	EPA 6010 TCLP	99-178-10
TCLP 8260						
Vinyl chloride	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473
1,1-Dichloroethene	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473
1,1,1-trichloroethane	0.1	mg/l	0.1	12-OCT-99	TCLP 8260	99-158-9473
Chloroform	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473
Carbon tetrachloride	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473
Benzene	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473
1,2-Dichloroethane	0.06	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473
1,1,2-trichloroethane	0.05	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473
Tetrachloroethene	0.05	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473
Chlorobenzene	0.05	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473
1,4-Dichlorobenzene	0.05	mg/l	0.03	12-OCT-99	TCLP 8260	99-158-9473

Page 1

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999

LAB SAMPLE ID : L39635-11

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	L39635-1MSD/DUP, ROLLOFF
DESCRIPTION	L39635-1
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery:						
Dibromofluoromethane	104	%				99-158-9473
Toluene-d8	99	%				99-158-9473
4-Bromofluorobenzene	100	%				99-158-9473
EPA 8082						
PCB 1016	135	%		17-OCT-99	EPA 8082	99-108-2837
PCB 1260	248	%		17-OCT-99	EPA 8082	99-108-2837
Extraction Information:				14-OCT-99		99-154-69
Surrogate Recovery:						
Decachlorobiphenyl	158	%				99-108-2837
TCLP 8081						
Lindane	89	%		18-OCT-99	TCLP 8081	99-127-8117
Heptachlor	88	%		18-OCT-99	TCLP 8081	99-127-8117
Heptachlor Epoxide	92	%		18-OCT-99	TCLP 8081	99-127-8117
Endrin	94	%		18-OCT-99	TCLP 8081	99-127-8117
Methoxychlor	100	%		18-OCT-99	TCLP 8081	99-127-8117
Extraction Information:				13-OCT-99		99-154-65
Surrogate Recovery:						
Decachlorobiphenyl	109	%				99-127-8117
TCLP 8150						
2,4-D	99	%		26-OCT-99	TCLP 8150	99-100-4311
2,4,5-TP (Silvex)	89	%		26-OCT-99	TCLP 8150	99-100-4311
Extraction Information:				12-OCT-99		99-136-23

Page 2

QC m NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: John Kent

Lab Director

KEY: ND or U = None Detected < = less than
mg/L = milligrams per liter (equivalent to parts per million)
B = analyte was detected in the method or trip blank

ug/L = micrograms per liter (equivalent to parts per billion)
mg/kg = milligrams per kilogram (equivalent to parts per million)
J = result estimated below the quantitation limit

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 26-OCT-1999

LAB SAMPLE ID : L39635-11

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	L39635-1MSD/DUP, ROLLOFF
DESCRIPTION	L39635-1
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery: CAA	115	%				99-100-4311
TCLP 8270						
Pyridine	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
m-Cresol	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
m-Cresol/m-Cresol	0.3	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
Hexachloroethane	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
Nitrobenzene	0.3	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
Hexachlorobutadiene	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
2,4,6-Trichlorophenol	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
2,4,5-Trichlorophenol	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
2,4-Dinitrotoluene	0.2	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
Hexachlorobenzene	0.3	mg/l	0.05	13-OCT-99	TCLP 8270	98-051-9390
Pentachlorophenol	0.2	mg/l	0.2	13-OCT-99	TCLP 8270	98-051-9390
Extraction Information:				12-OCT-99		99-137-62
Surrogate Recovery:						
2-Fluorophenol	30	%				98-051-9390
2-Fluorophenol-d5	22	%				98-051-9390
2-Nitrobenzene-d5	59	%				98-051-9390
2-Fluorobiphenyl	54	%				98-051-9390
2,4,6-Tribromophenol	51	%				98-051-9390
2-Nitrophenyl-d14	64	%				98-051-9390

Page 3

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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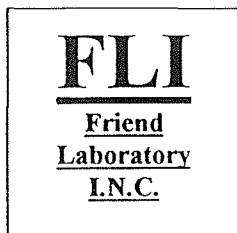
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Thermo ReTec, Inc.
Ward Products
Sampled October 7, 1999

Quality Control Report Index

QC Form	Description	Sample Delivery Group Associations	Page
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		QC 69	6
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		MB 69	10



Laboratory Validation and Usability Assessment

Project: Thermo ReTec, Inc.
Ward Products
Sampled October 7, 1999

The data reported in this package have been reviewed for compliance with QC acceptance limits as specified in the method cited for each analysis.

These statistical limits are typically based on historical laboratory data for a given sample matrix, and will not exceed any default limits specified by the method. CLP acceptance limits are also considered.

The following Quality Control operations are considered in the validation of reported results:

Holding times, surrogate recovery, spiked sample recovery, duplicates/spiked duplicate precision, tuning criteria, internal standard variation, continuing calibration variation, reference (check) sample recovery, and instrument, method, trip and field blanks. The appropriate frequency for each operation is also considered.

Every effort has been made to report data that is compliant with the EPA methodology cited for each analysis. In cases where the laboratory was unable to meet all method requirements prior to sample expiry, either due to the nature of the sample or other technical difficulty, results are reported with qualification with the understanding that qualified results may not be suitable for compliance purposes. The internal technical review is based on the USEPA Contract Laboratory Program *National Functional Guidelines for Organic Review* (EPA 540/R-94/012, February 1994) and *National Functional Guidelines for Inorganic Review* (EPA 540/R-94/013, February 1994).

Validation

Nine soil samples were received for PCB analysis. A Full TCLP was done for the Roll-off sample. Forms only were reported for the PCBs.

PCB

Nine soil site samples were analyzed for PCB.

Surrogate recoveries were within limits for all undiluted site samples.

Site sample ROLLOFF was spiked in duplicate with PCB 1016/1260. Recoveries were above acceptance limits, due to the presence of PCB 1254 in the site sample that caused an elevation of the results for the spiking compounds.

Precision as indicated by RPD was within acceptance limits.

Two blank spikes for PCB were associated with the site samples. Recoveries were within acceptance limits.

No other analytical difficulties were encountered.

Usability Assessment

All reported data were found to be valid and usable within the EPA National Functional Validation guidelines except those that were qualified in this Laboratory Validation.

Laboratory validation and

Usability assessment conducted by: Teresa B. Bishop

Date: October 21, 1999

Teresa B. Bishop
Quality Assurance

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

01

ANALYSES

02

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: Friend Laboratory, Inc.

Lab Code: 10252

Case No.: _____

SAS No.: _____

SDG No.: THERMORETEC

Level:[low/med] LOW

Column 1: RTX-CLPest1

Column 2: RTX-CLPesticide 2

	FLI SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
1	L39635-1		81		116	0
2	L39635-2		44		63	0
3	L39635-3		59		85	0
4	L39635-4		74		101	0
5	L39635-5		71		103	0
6	L39635-6		83		102	0
7	L39635-7		51		75	0
8	L39635-8		51		99	0
9	L39635-9		62		91	0
10	L39635-10S		86		139	0
11	L39635-11D		78		158 *	1
12	MB 61		72		102	0
13	MB 69		85		114	0
14	QC 61		66		80	0
15	QC 69		86		131	0
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

TXC = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

30 - 150
30 - 150

Comments:

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

-10+11 are spikes of -1.

3E
WATER PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
SW846/8082

Lab name: Friend Laboratory, Inc.

Reference: 99-108-2800

Matrix Spike - Lab Sample No. L39635-1

Date analyzed: 10/13/99

Matrix: Water

Date Extracted: 10/08/99

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC	#	QC LIMITS REC
PCB 1016	0.44	0.00	0.56	127	*	50-114
PCB 1260	0.44	0.00	0.87	198	*	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC	#	% RPD	#	QC RPD	LIMITS REC
PCB 1016	0.49	0.66	134	*	16.4		40	50-114
PCB 1260	0.49	1.2	248	*	33.5		40	8-127

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 4 out of 4 outside limits

COMMENTS:

34

3LCC
LOW CONC. SOIL PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

QC 61

Lab Name: FRIEND LABORATORY, INC

Contract:

Lab Code: 10252

Case No.:

SAS No.:

SDG No.: MIT

Lab Sample ID: QC 61

LCS Lot No.:

LCS Aliquot: 0 (uL)

Date Extracted: 10/08/99

Concentrated Extract Volume: _____ (uL)

Date Analyzed: 10/13/99

Injection Volume: 2 (uL)

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y

COMPOUND	CONC ADDED (mg/Kg)	CONC RECOVERED (mg/Kg)	%REC #	QC LIMITS
Aroclor-1016	0.40	0.27	68	50-114
Aroclor-1260	0.40	0.28	70	8-127

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 2 total.

COMMENTS: _____

3LCC
LOW CONC. SOIL PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

QC 69

Lab Name: FRIEND LABORATORY, INC

Contract:

Lab Code: 10252

Case No.:

SAS No.:

SDG No.: LOS

Lab Sample ID: QC 69

LCS Lot No.:

LCS Aliquot: 0 (uL)

Date Extracted: 10/14/99

Concentrated Extract Volume: (uL)

Date Analyzed: 10/17/99

Injection Volume: 2 (uL)

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

COMPOUND	CONC ADDED (mg/Kg)	CONC RECOVERED (mg/Kg)	%REC #	QC LIMITS
Aroclor-1016	0.33	0.27	82	50-114
Aroclor-1260	0.33	0.27	82	8-127

Column to be used to flag LCS recovery with an asterisk.

* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 2 total.

COMMENTS:

4C
PCB METHOD BLANK SUMMARY

Lab Name: Friend Laboratory, Inc.

Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMORETEC

Lab Sample ID: MB 61 Extraction: SOXHLET

Matrix: (soil/water): SOIL Date Extracted: 10/08/99

Lab File ID: 99-108-2798 Date Analyzed: 10/13/99

COLUMN 1: RTX-CLPESTICIDES 1 COLUMN 2: RTX-CLPESTICIDES 2

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	FILE(1)	FILE(2)
1	QC 61	QC 61	10/13/99		2799
2	L39635-1	L39635-1	10/13/99		2800
3	L39635-2	L39635-2	10/13/99		2801
4	L39635-3	L39635-3	10/13/99		2802
5	L39635-4	L39635-4	10/13/99		2803
6	L39635-5	L39635-5	10/13/99		2804
7	L39635-6	L39635-6	10/13/99		2805
8	L39635-7	L39635-7	10/13/99		2806
9	L39635-8	L39635-8	10/13/99		2807
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: _____

07

4C
PCB METHOD BLANK SUMMARY

Lab Name: Friend Laboratory, Inc.

Lab Code: 10252 Case No.: _____ SAS No.: _____

SDG No.: THERMORETEC

Lab Sample ID: MB 69

Extraction: SOXHLET

Matrix: (soil/water): SOIL

Date Extracted: 10/14/99

Lab File ID: 99-108-2833

Date Analyzed: 10/17/99

COLUMN 1: RTX-CLPESTICIDES 1 COLUMN 2: RTX-CLPESTICIDES 2

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	FILE(1)	FILE(2)
1	QC 69	QC 69	10/17/99		2834
2	L39635-9	L39635-9	10/17/99		2835
3	L39635-10	L39635-10	10/17/99		2836
4	L39635-11	L39635-11	10/17/99		2837
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: _____

1D
PCB ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB 61

Lab Name: FRIEND LABORATORY, INC Contract:

Lab Code: 10252 Case No.: SAS No.: SDG No.: MIT

Matrix: (soil/water) SOIL Lab Sample ID: MB 61

Sample wt/vol: 8.3 (g/mL) G Lab File ID: E2982798

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SOXLET Date Extracted: 10/08/99

Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 14.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

12674-11-2-----	Aroclor-1016	0.01	U
1104-28-2-----	Aroclor-1221	0.02	U
11141-16-5-----	Aroclor-1232	0.01	U
53469-21-9-----	Aroclor-1242	0.01	U
11097-69-1-----	Aroclor-1254	0.01	U
11096-82-5-----	Aroclor-1260	0.01	U
-----	Aroclor-1248	0.01	U

1D
PCB ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB 69

Lab Name: FRIEND LABORATORY, INC Contract: _____

Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: LOS

Matrix: (soil/water) SOIL Lab Sample ID: MB 69

Sample wt/vol: 10.5 (g/mL) G Lab File ID: E2982833

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SOXLET Date Extracted: 10/14/99

Concentrated Extract Volume: _____ (uL) Date Analyzed: 10/17/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 14.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) MG/KG	Q
12674-11-2-----	Aroclor-1016	0.01	U
1104-28-2-----	Aroclor-1221	0.02	U
11141-16-5-----	Aroclor-1232	0.01	U
53469-21-9-----	Aroclor-1242	0.01	U
11097-69-1-----	Aroclor-1254	0.01	U
11096-82-5-----	Aroclor-1260	0.01	U
-----	Aroclor-1248	0.01	U



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 03-NOV-1999

LAB SAMPLE ID L39635-2

ThermoRetec
Mr. James H. Edwards

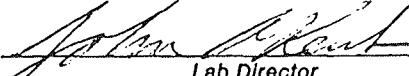
Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-1
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	91.38	%		08-OCT-99	CLP 3.0	97-070-160
Cadmium	33	mg/kg	0.5600	02-NOV-99	EPA 7130	97-014-65
EPA 8082						
DB 1016	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
PCB 1221	U	mg/kg	0.2	13-OCT-99	EPA 8082	99-108-2801
PCB 1232	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
DB 1242	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
DB 1248	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
DB 1254	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
PCB 1260	U	mg/kg	0.1	13-OCT-99	EPA 8082	99-108-2801
<u>Extraction Information:</u>				08-OCT-99		99-154-61
Surrogate Recovery:						
Decachlorobiphenyl	63	%				99-108-2801
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

C  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 
Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 03-NOV-1999

LAB SAMPLE ID L39635-3

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	:	WARD PROD.NRMD2-02936-400
ORIGIN	:	C-2
DESCRIPTION	:	GRAB
SAMPLED ON	:	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	:	08-OCT-99 10:35
P.O. NO.	:	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	88.05	%		08-OCT-99	CLP 3.0	97-070-160
Cadmium	150	mg/kg	5.7	02-NOV-99	EPA 7130	97-014-65
EPA 8082						
PCB 1016	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1221	U	mg/kg	0.24	13-OCT-99	EPA 8082	99-108-2802
PCB 1232	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1242	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1248	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1254	0.31	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802
PCB 1260	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2802

Extraction Information:

Surrogate Recovery:
Decachlorobiphenyl

85 %

Analysis Comment: Results are calculated on a dry weight basis.

08-OCT-99

99-154-61

99-108-2802

Page 1

QC H NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: John A. Kent

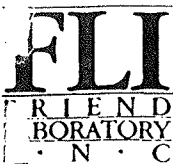
Lab Director

KEY: ND or U = None Detected < = less than
mg/L = milligrams per liter (equivalent to parts per million)
B = analyte was detected in the method or trip blank

ug/L = micrograms per liter (equivalent to parts per billion)
mg/kg = milligrams per kilogram (equivalent to parts per million)
J = result estimated below the quantitation limit

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 03-NOV-1999

LAB SAMPLE ID L39635-4

ThermoRetec
Mr. James H. Edwards
Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-3
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	89.93	%		08-OCT-99	CLP 3.0	97-070-160
Cadmium	32	mg/kg	0.6000	02-NOV-99	EPA 7130	97-014-65
A 8082						
B 1016	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
PCB 1221	U	mg/kg	0.16	13-OCT-99	EPA 8082	99-108-2803
PCB 1232	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
B 1242	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
B 1248	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
B 1254	0.08	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
PCB 1260	U	mg/kg	0.08	13-OCT-99	EPA 8082	99-108-2803
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
Decachlorobiphenyl	101	%				99-108-2803
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

NY 10252 NJ 73168 PA 68180 EPA NY 00033

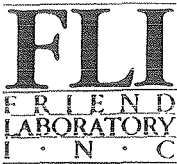
Approved by:

Lab Director

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mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 03-NOV-1999

LAB SAMPLE ID L39635-5

ThermoRetec
Mr. James H. Edwards
Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-4
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	87.81	%		08-OCT-99	CLP 3.0	97-070-160
Cadmium	12	mg/kg	0.6100	02-NOV-99	EPA 7130	97-014-65
EPA 8082						
PCB 1016	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
PCB 1221	U	mg/kg	0.18	13-OCT-99	EPA 8082	99-108-2804
PCB 1232	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
PCB 1242	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
PCB 1248	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
PCB 1254	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
PCB 1260	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2804
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
Decachlorobiphenyl	103	%				99-108-2804
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

QC RA NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 03-NOV-1999

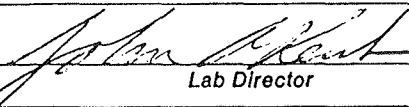
LAB SAMPLE ID L39635-6

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-5
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

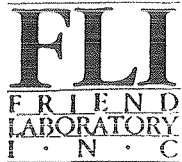
Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	85.67	%		08-OCT-99	CLP 3.0	97-070-160
Cadmium	11	mg/kg	0.6200	02-NOV-99	EPA 7130	97-014-65
EPA 8082						
B 1016	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
PCB 1221	U	mg/kg	0.24	13-OCT-99	EPA 8082	99-108-2805
PCB 1232	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
B 1242	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
B 1248	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
B 1254	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
PCB 1260	U	mg/kg	0.12	13-OCT-99	EPA 8082	99-108-2805
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
Decachlorobiphenyl	102	%				99-108-2805
Analysis Comment: Results are calculated on a dry weight basis.						

NY 10252 NJ 73168 PA 68180 EPA NY 00033
Approved by:  Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 03-NOV-1999

LAB SAMPLE ID L39635-7

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PROD.NRMD2-02936-400
ORIGIN	C-6
DESCRIPTION	GRAB
SAMPLED ON	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	08-OCT-99 10:35
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	82.02	%		08-OCT-99	CLP 3.0	97-070-160
Cadmium	6900	mg/kg	560	02-NOV-99	EPA 7130	97-014-65
EPA 8082						
PCB 1016	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
PCB 1221	U	mg/kg	0.22	13-OCT-99	EPA 8082	99-108-2806
PCB 1232	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
PCB 1242	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
PCB 1248	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
PCB 1254	2.2	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806
PCB 1260	U	mg/kg	0.11	13-OCT-99	EPA 8082	99-108-2806

Extraction Information:

08-OCT-99 99-154-61

Surrogate Recovery:

Decachlorobiphenyl 75 %
Analysis Comment: Results are calculated on a dry weight basis.

99-108-2806

Page 1

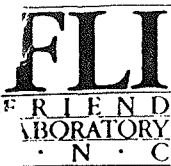
QC Re NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: John P. Kent
Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 03-NOV-1999

LAB SAMPLE ID : L39635-8

ThermoRetec
Mr. James H. Edwards

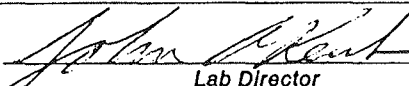
Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	:	WARD PROD.NRMD2-02936-400
ORIGIN	:	C-7
DESCRIPTION	:	GRAB
SAMPLED ON	:	07-OCT-99 15:00 by CLIENT
DATE RECEIVED	:	08-OCT-99 10:35
P.O. NO.	:	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	88.51	%		08-OCT-99	CLP 3.0	97-070-160
Cadmium	37	mg/kg	1.2	02-NOV-99	EPA 7130	97-014-65
EPA 8082						
CB 1016	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
PCB 1221	U	mg/kg	0.18	13-OCT-99	EPA 8082	99-108-2807
PCB 1232	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
CB 1242	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
CB 1248	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
CB 1254	0.21	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
PCB 1260	U	mg/kg	0.09	13-OCT-99	EPA 8082	99-108-2807
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
Decachlorobiphenyl	99	%				99-108-2807
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

C  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 03-NOV-1999

LAB SAMPLE ID : L39635-9

ThermoRetec
Mr. James H. Edwards

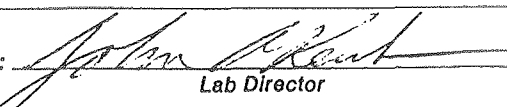
Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	: WARD PROD.NRMD2-02936-400
ORIGIN	: C-8
DESCRIPTION	: GRAB
SAMPLED ON	: 07-OCT-99 15:00 by CLIENT
DATE RECEIVED	: 08-OCT-99 10:35
P.O. NO.	: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	95.16	%		08-OCT-99	CLP 3.0	97-070-160
Cadmium	22	mg/kg	5.6	02-NOV-99	EPA 7130	97-014-65
EPA 8082						
PCB 1016	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
PCB 1221	U	mg/kg	0.2	17-OCT-99	EPA 8082	99-108-2835
PCB 1232	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
PCB 1242	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
PCB 1248	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
PCB 1254	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
PCB 1260	U	mg/kg	0.1	17-OCT-99	EPA 8082	99-108-2835
Extraction Information:				08-OCT-99		99-154-61
Surrogate Recovery:						
Decachlorobiphenyl	91	%				99-108-2835
Analysis Comment: Results are calculated on a dry weight basis.						

Page 1

QC OK NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1542
TELEPHONE (607) 565-8500 FAX (607) 565-4083

DATE 19-NOV-1999

LAB SAMPLE ID L41536-8

ThermoRetic
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	C-9
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Tests Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
tot. Solids	82.98	X		11-NOV-99	CLP 3.0	97-070-184
Leadum	130	mg/kg	6.4	19-NOV-99	EPA 7130	97-014-68
EPA 8082						
E 1016	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
PCB 1221	U	mg/kg	0.23	16-NOV-99	EPA 8082	99-108-3138
PCB 1232	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
PCB 1242	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
PCB 1248	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
PCB 1254	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
PCB 1260	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138

Extraction Information:

11-NOV-99 99-154-103

Recovery: 147 X
Decachlorobiphenyl
Analysis Comments: Results are calculated on a dry weight basis.

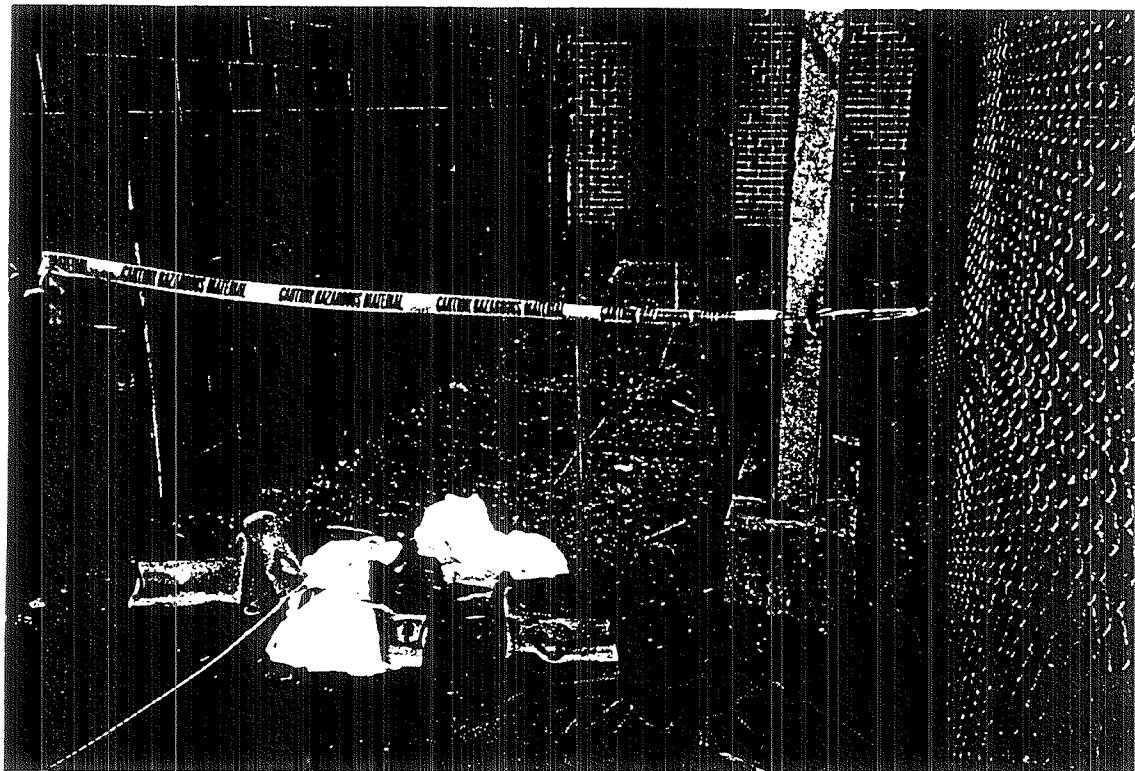
26 NY 10262 NJ 73188 PA 68180 EPA NY 00033

Approved by:
Lab Director

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Y: samples will be discarded after 14 days unless we are advised otherwise.

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Completed Excavation, Looking East



Completed Excavation, Looking South

NYG1772577

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS



HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 1/75/90)

Please type or print. Do not stamp.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Doc. No.		2. Page 1 of		Information within heavy bold line is not required by Federal Law.	
		N Y D 0 6 6 8 3 3 7 8 1		7 2 5 7 7		1			
3. Generator's Name and Mailing Address WARD PRODUCTS CORP. 61 EDSON ST., AMSTERDAM, N.Y. 12010		NYG1772577							
4. Generator's Telephone Number (518) 842-7220		B. Generator's ID SAME							
5. Transporter 1 (Company Name) WEST CENTRAL ENVIRONMENTAL		6. US EPA ID Number N Y D 0 0 0 7 0 8 2 7 1		C. State Transporter's ID 85350W(NY)		D. Transporter's Telephone (518) 272-6891		E. State Transporter's ID	
7. Transporter 2 (Company Name)		8. US EPA ID Number		F. Transporter's Telephone ()		G. State Facility ID		H. Facility Telephone (800) 843-3604	
9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, INC. 1550 BALMER RD., P.O. BOX 200 MODEL CITY, N.Y. 14107		10. US EPA ID Number N Y D 0 4 9 8 3 6 6 7 9		12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) 9Q HAZARDOUS WASTE SOLID N.O.S. 9, NA3077 III (D006)		12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
b.		12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol		EPA D006	
c.		12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol		EPA STATE	
d.		12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol		EPA STATE	
J. Additional Descriptions for Materials listed Above SOIL w/24 ppm CADMIUM CG 4301		K. Handling Codes for Wastes Listed Above a. NY = T		b.		c.		d.	
15. Special Handling Instructions and Additional Information ERG # 171 WCE J/N 21132 SERVICE REQUEST # 527765		CERTIFICATE OF DISPOSAL REQUIRED EMERGENCY CONTACT AL DARMOFAL 518-842-7220 General Manager							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name AL DARMOFAL		Signature <i>AL DARMOFAL</i>		Mo. 11		Day 10		Year 1999	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name Joseph D. Murphy		Signature <i>Joseph D. Murphy</i>		Mo. 11		Day 10		Year 1999	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name		Signature		Mo.		Day		Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name		Signature		Mo.		Day		Year	

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FRIEND LABORATORY, INC. Contract: _____
 Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMO
 Lab File ID (Standard): F2585.D Date Analyzed: 11/15/99
 Instrument ID: MSD-F Time Analyzed: 14:47
 GC Column: RTX-624 ID: 0.53 (mm) Heated Purge (Y/N): N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1188402	15.35	2647091	16.88	3216245	22.44
UPPER LIMIT	2376804	15.85	5294182	17.38	6432490	22.94
LOWER LIMIT	594201	14.85	1323546	16.38	1608123	21.94
NYSDEC SAMPLE NO.						
01 VBLKSF1	993003	15.35	2283331	16.88	2606573	22.45
02 VBLKSF1MS	895838	15.35	2131817	16.88	2598681	22.45
03 SEDIMENT	895766	15.35	2121335	16.88	2479383	22.45
04 SEDIMENT MS	1000005	15.35	2439892	16.88	3145060	22.45
05 SEDIMENT MSD	1212821	15.35	2915945	16.88	3639360	22.45
06 TP-1	1408845	15.35	3211875	16.88	3740358	22.45
07 TP-2	1250910	15.35	2948656	16.88	3396130	22.45
08 TP-3	1122105	15.35	2545073	16.88	2994303	22.45
09 TP-4	989873	15.35	2282139	16.88	2713414	22.45

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FRIEND LABORATORY, INC. Contract: _____
 Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMO
 Lab File ID (Standard): F2585.D Date Analyzed: 11/15/99
 Instrument ID: MSD-F Time Analyzed: 14:47
 GC Column: RTX-624 ID: 0.53 (mm) Heated Purge (Y/N): N

	IS43					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1779559	26.61				
UPPER LIMIT	3559118	27.11				
LOWER LIMIT	889780	26.11				
NYSDEC SAMPLE NO.						
01 VBLKSF1	1365092	26.62				
02 VBLKSF1MS	1317292	26.62				
03 SEDIMENT	1571708	26.62				
04 SEDIMENT M	1814042	26.62				
05 SEDIMENT M	2021376	26.62				
06 TP-1	2053103	26.62				
07 TP-2	1765546	26.62				
08 TP-3	1644074	26.62				
09 TP-4	1452762	26.62				

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5
 IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-1

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	SEDIMENT
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	77.36	%		11-NOV-99	EPA 160.3	97-070-184
Ironium	11000	mg/kg	130	17-NOV-99	EPA 7190	94-247-55
NA 8260						
Chloromethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Vinyl chloride	U	ug/kg	120	15-NOV-99	EPA 8260	99-187-F2589
Chloroethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Monomethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
1,1-Dichloroethene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Acetone	U	ug/kg	1500	15-NOV-99	EPA 8260	99-187-F2589
Carbon disulfide	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Methylene chloride	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
trans-1,2-Dichloroethene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
1,1-Dichloroethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
trans-1,2-Dichloroethene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Methyl ethyl ketone (2-Butanone)	U	ug/kg	1500	15-NOV-99	EPA 8260	99-187-F2589
Chloroform	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
1,1-Trichloroethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Carbon tetrachloride	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Benzene	U	ug/kg	41	15-NOV-99	EPA 8260	99-187-F2589
trans-1,2-Dichloroethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Trichloroethene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
1,1-Dichloropropane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
1,1,1-Trichloromethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
cis-1,3-Dichloropropene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Methyl isobutyl ketone	U	ug/kg	590	15-NOV-99	EPA 8260	99-187-F2589
Toluene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
trans-1,3-Dichloropropene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
trans-1,2-Dichloroethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Tetrachloroethene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
2-Hexanone	U	ug/kg	590	15-NOV-99	EPA 8260	99-187-F2589
Bromochloromethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Bromobenzene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Benzylbenzene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
o-Xylene/m-Xylene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
p-Xylene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Styrene	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
Formoform	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589
1,1,2,2-Tetrachloroethane	U	ug/kg	300	15-NOV-99	EPA 8260	99-187-F2589

Page 1

"AMENDED REPORT"

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

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"Our family, caring about your analytical needs... Since 1963."



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-1

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	SEDIMENT
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery:						
Dibromofluoromethane	113	%				99-187-F2589
Toluene-d8	104	%				99-187-F2589
4-Bromofluorobenzene	98	%				99-187-F2589
Analysis Comment: Results Calculated on a dry weight basis.						

Page 2

"ANALYSIS REPORT"

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 
Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-2

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	L41536-1MS, SEDIMENT
DESCRIPTION	L41536-1
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Chromium	16000	mg/kg	130	17-NOV-99	EPA 7190	94-247-55
EPA 8260						
Chloromethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Ethyl chloride	U	ug/kg	79	15-NOV-99	EPA 8260	99-187-F2590
Chloroethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Bromomethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
1,1-Dichloroethene	1600	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Acetone	U	ug/kg	990	15-NOV-99	EPA 8260	99-187-F2590
Carbon disulfide	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Ethylene chloride	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
trans-1,2-Dichloroethene	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
1,1-Dichloroethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
trans-1,2-Dichloroethene	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Ethyl ethyl ketone (2-Butanone)	U	ug/kg	990	15-NOV-99	EPA 8260	99-187-F2590
Chloroform	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
1,1,1-Trichloroethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Carbon tetrachloride	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Benzene	1800	ug/kg	28	15-NOV-99	EPA 8260	99-187-F2590
trans-1,2-Dichloroethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
1,1-Dichloroethene	1800	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
trans-1,2-Dichloropropane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Bromodichloromethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
trans-1,3-Dichloropropene	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Ethyl isobutyl ketone	U	ug/kg	400	15-NOV-99	EPA 8260	99-187-F2590
Toluene	1600	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
trans-1,3-Dichloropropene	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
1,1,2-Trichloroethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Trichloroethene	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Hexanone	U	ug/kg	400	15-NOV-99	EPA 8260	99-187-F2590
Dibromochloromethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Chlorobenzene	1700	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Ethylbenzene	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Xylene/m-Xylene	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Xylene	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Styrene	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
Bromoform	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590
1,2,2-Tetrachloroethane	U	ug/kg	200	15-NOV-99	EPA 8260	99-187-F2590

Page 1

"AMENDED REPORT"

C. NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

KEY: ND or U = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-2

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	L41536-1MS, SEDIMENT
DESCRIPTION	L41536-1
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery:						
Dibromofluoromethane	112	%				99-187-F2590
Toluene-d8	98	%				99-187-F2590
4-Bromofluorobenzene	100	%				99-187-F2590
Analysis Comment: Results Calculated on a dry weight basis.						

Page 2

"AMENDED REPORT"

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 

Lab Director

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mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-3

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	L41536-1MSD/DUP, SEDIMENT
DESCRIPTION	L41536-1
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	79.69	%		11-NOV-99	EPA 160.3	97-070-184
Analysis Comment: L41536-1						
Chromium	9400	mg/kg	130	17-NOV-99	EPA 7190	94-247-55
EPA 8260						
Chloromethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Vinyl chloride	U	ug/kg	110	15-NOV-99	EPA 8260	99-187-F2591
Chloroethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Bromomethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
1,1-Dichloroethane	1900	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Acetone	U	ug/kg	1400	15-NOV-99	EPA 8260	99-187-F2591
Carbon disulfide	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
1,1,1-Trichloroethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
trans-1,2-Dichloroethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
cis-1,2-Dichloroethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Methyl ethyl ketone (2-Butanone)	U	ug/kg	1400	15-NOV-99	EPA 8260	99-187-F2591
Chloroform	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
1,1,1-Trichloroethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Carbon tetrachloride	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Benzene	2400	ug/kg	38	15-NOV-99	EPA 8260	99-187-F2591
1,2-Dichloroethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
1,1-Dichloroethane	2500	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
1,2-Dichloropropane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Bromodichloromethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
cis-1,3-Dichloropropene	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Methyl isobutyl ketone	U	ug/kg	550	15-NOV-99	EPA 8260	99-187-F2591
Toluene	2200	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
trans-1,3-Dichloropropene	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
1,1,2-Trichloroethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Tetrachloroethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Hexanone	U	ug/kg	550	15-NOV-99	EPA 8260	99-187-F2591
Bromochloromethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Chlorobenzene	2300	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Ethylbenzene	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
p-Xylene/m-Xylene	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Xylene	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Yrene	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Chloroform	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591

Page 1

"AMENDED REPORT"

C NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-3

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	: WARD PRODUCTS
ORIGIN	: L41536-1MSD/DUP, SEDIMENT
DESCRIPTION	: L41536-1
SAMPLED ON	: 09-NOV-99 00:00 by CLIENT
DATE RECEIVED	: 11-NOV-99 10:43
P.O. NO.	: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
1,1,2,2-Tetrachloroethane	U	ug/kg	270	15-NOV-99	EPA 8260	99-187-F2591
Surrogate Recovery:						
Dibromofluoromethane	104	%				99-187-F2591
Toluene-d8	98	%				99-187-F2591
4-Bromofluorobenzene	105	%				99-187-F2591
Analysis Comment: Results Calculated on a dry weight basis.						

Page 2

AMENDED REPORT

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:


Lab Director

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mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
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TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-4

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	TP-1
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	81.43	%		11-NOV-99	EPA 160.3	97-070-184
Chromium	680	mg/kg	13.0	17-NOV-99	EPA 7190	94-247-55
8260						
Chloromethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Vinyl chloride	U	ug/kg	82	15-NOV-99	EPA 8260	99-187-F2592
Chloroethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Chloromethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
1,2-Dichloroethene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Acetone	U	ug/kg	1000	15-NOV-99	EPA 8260	99-187-F2592
Carbon disulfide	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Ethylene chloride	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
trans-1,2-Dichloroethene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
1,2-Dichloroethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
trans-1,2-Dichloroethene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Methyl ethyl ketone (2-Butanone)	U	ug/kg	1000	15-NOV-99	EPA 8260	99-187-F2592
Chloroform	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
1,1-Trichloroethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Carbon tetrachloride	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Benzene	U	ug/kg	29	15-NOV-99	EPA 8260	99-187-F2592
1,2-Dichloroethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
1,1-Dichloroethene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
1,2-Dichloropropane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
1,1-Dichloromethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
cis-1,3-Dichloropropene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Methyl isobutyl ketone	U	ug/kg	410	15-NOV-99	EPA 8260	99-187-F2592
Toluene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
trans-1,3-Dichloropropene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
1,2,2-Trichloroethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Tetrachloroethene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
2-Hexanone	U	ug/kg	410	15-NOV-99	EPA 8260	99-187-F2592
Bromochloromethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Bromobenzene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Styrene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
o-Xylene/m-Xylene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
p-Xylene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Acetylene	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
Acetone	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592
1,1,2,2-Tetrachloroethane	U	ug/kg	210	15-NOV-99	EPA 8260	99-187-F2592

Page 1

"AMENDED REPORT"

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-4

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	TP-1
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery:						
Dibromofluoromethane	95	%				99-187-F2592
Toluene-d8	99	%				99-187-F2592
4-Bromofluorobenzene	101	%				99-187-F2592
Analysis Comment: Results Calculated on a dry weight basis.						

Page 2

"ANALYZED FOR BHT"

QC B NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

John A. Kent
Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-5

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	TP-2
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	78.47	%		11-NOV-99	EPA 160.3	97-070-184
Chromium	540	mg/kg	6.30	17-NOV-99	EPA 7190	94-247-55
8260						
Chloromethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Vinyl chloride	U	ug/kg	75	15-NOV-99	EPA 8260	99-187-F2593
Chloroethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Chloromethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
1,2-Dichloroethene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Styrene	U	ug/kg	940	15-NOV-99	EPA 8260	99-187-F2593
Carbon disulfide	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Methylene chloride	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
trans-1,2-Dichloroethene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
cis-1,2-Dichloroethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
trans-1,2-Dichloroethene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Methyl ethyl ketone (2-Butanone)	U	ug/kg	940	15-NOV-99	EPA 8260	99-187-F2593
Chloroform	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
1,1,1-Trichloroethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Carbon tetrachloride	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Benzene	U	ug/kg	26	15-NOV-99	EPA 8260	99-187-F2593
1,2-Dichloroethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
1,1-Dichloroethene	1200	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
1,1-Dichloropropane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
1,1,1-Trichloromethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
cis-1,3-Dichloropropene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Methyl isobutyl ketone	U	ug/kg	380	15-NOV-99	EPA 8260	99-187-F2593
Acetone	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
trans-1,3-Dichloropropene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
1,1,2-Trichloroethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Tetrachloroethene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
2-Hexanone	U	ug/kg	380	15-NOV-99	EPA 8260	99-187-F2593
1,1-Dichloromethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Chlorobenzene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Toluene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
p-Xylene/m-Xylene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
p-Xylene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Styrene	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
Acetone	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593
1,1,2,2-Tetrachloroethane	U	ug/kg	190	15-NOV-99	EPA 8260	99-187-F2593

Page 1

"AMENDED REPORT"

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-6

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	TP-3
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery:						
Dibromofluoromethane	104	%				99-187-F2594
Toluene-d8	103	%				99-187-F2594
4-Bromofluorobenzene	102	%				99-187-F2594
Analysis Comment: Results Calculated on a dry weight basis.						

Page 2

"AMENDED REPORT"

QC C NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: John A. Kent

Lab Director

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DATE 14-DEC-1999

LAB SAMPLE ID L41536-7

ThermoRetec
 Mr. James H. Edwards

Suite 204
 Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	TP-4
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	80.01	%		11-NOV-99	EPA 160.3	97-070-184
Lead	1900	mg/kg	67.0	17-NOV-99	EPA 7190	94-247-55
EPA 8260						
Acetone	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Chloroethane	U	ug/kg	66	15-NOV-99	EPA 8260	99-187-F2595
Bromomethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
1,1-Dichloroethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
1,2-Dichloroethane	U	ug/kg	830	15-NOV-99	EPA 8260	99-187-F2595
Carbon disulfide	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Methylene chloride	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
trans-1,2-Dichloroethene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
1,1-Dichloroethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
trans-1,2-Dichloroethene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Methyl ethyl ketone (2-Butanone)	U	ug/kg	830	15-NOV-99	EPA 8260	99-187-F2595
Chloroform	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
1,1,1-Trichloroethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Carbon tetrachloride	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Benzene	U	ug/kg	23	15-NOV-99	EPA 8260	99-187-F2595
1,2-Dichloroethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Trichloroethene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
1,2-Dichloropropane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
1,1-Dichloroethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
trans-1,3-Dichloropropene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Methyl isobutyl ketone	U	ug/kg	330	15-NOV-99	EPA 8260	99-187-F2595
Toluene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
trans-1,3-Dichloropropene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
1,1,1-Trichloroethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
1,1-Dichloroethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
2-Hexanone	U	ug/kg	330	15-NOV-99	EPA 8260	99-187-F2595
Dibromochloromethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Chlorobenzene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Benzylbenzene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
p-Xylene/m-Xylene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
o-Xylene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Styrene	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
Formoform	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595
1,1,2,2-Tetrachloroethane	U	ug/kg	170	15-NOV-99	EPA 8260	99-187-F2595

Page 1

"AMENDED REPORT"

NY 10252 NJ 73168 PA 68180 EPA NY 00033

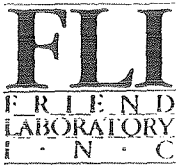
Approved by:

Lab Director

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE 14-DEC-1999

LAB SAMPLE ID L41536-7

ThermoRetec
Mr. James H. Edwards

Suite 204
Ithaca, NY 14850

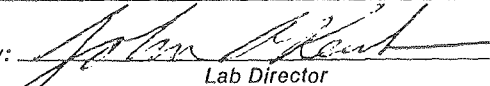
SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	TP-4
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Surrogate Recovery:						
Dibromofluoromethane	107	%				99-187-F2595
Toluene-d8	101	%				99-187-F2595
4-Bromofluorobenzene	103	%				99-187-F2595
Analysis Comment: Results Calculated on a dry weight basis.						

Page 2

"AMENDED REPORT"

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 
Lab Director

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DATE 14-DEC-1999

LAB SAMPLE ID L41536-8

ThermoRetec
 Mr. James H. Edwards

Suite 204
 Ithaca, NY 14850

SAMPLE SOURCE	WARD PRODUCTS
ORIGIN	C-9
DESCRIPTION	GRAB, NRMD2-02936-310
SAMPLED ON	09-NOV-99 00:00 by CLIENT
DATE RECEIVED	11-NOV-99 10:43
P.O. NO.	N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
Total Solids	82.98	%		11-NOV-99	EPA 160.3	97-070-184
Amium	130	mg/kg	6.4	19-NOV-99	EPA 7130	97-014-68
EPA 8082						
1016	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
1221	U	mg/kg	0.23	16-NOV-99	EPA 8082	99-108-3138
PCB 1232	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
PCB 1242	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
1248	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
1254	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138
1260	U	mg/kg	0.11	16-NOV-99	EPA 8082	99-108-3138

Extraction Information:

Progate Recovery: 147 %
 Dichlorobiphenyl
 Analysis Comment: Results are calculated on a dry weight basis.

"AMENDED REPORT"

NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by:

Lab Director

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LOGIN CHAIN OF CUSTODY REPORT (1n01)
Dec 13 1999, 08:00 pm

Login Number: L41536
Account: THERET ThermoRetec

Mr. James H. Edwards

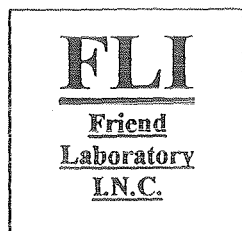
Suite 204
Ithaca NY 14850

0297

Lab. Sample #	By	PO #	Collect Date	Receive Date	Due PR Date
L41536-1	CLIENT	N/A	09-NOV-99 00:00	11-NOV-99 10:43	19-NOV-99
WARD PRODUCTS		SEDIMENT		GRAB, NRMD2-02936-310	
Soil	S 8260 TCL LIST		Hold:23-NOV-99		
Soil	S CHROMIUM-FLAA		Hold:16-FEB-00		
Soil	S SOLIDS TOTAL		Hold:16-NOV-99		
L41536-2	CLIENT	N/A	09-NOV-99 00:00	11-NOV-99 10:43	19-NOV-99
WARD PRODUCTS		L41536-1MS, SEDIMENT		L41536-1	
Soil	S 8260 TCL LIST		Hold:23-NOV-99		
Soil	S CHROMIUM-FLAA		Hold:16-FEB-00		
L41536-3	CLIENT	N/A	09-NOV-99 00:00	11-NOV-99 10:43	19-NOV-99
WARD PRODUCTS		L41536-1MSD/DUP, SEDIMENT		L41536-1	
Soil	S 8260 TCL LIST		Hold:23-NOV-99		
Soil	S CHROMIUM-FLAA		Hold:16-FEB-00		
Soil	S SOLIDS TOTAL		Hold:16-NOV-99		
L41536-4	CLIENT	N/A	09-NOV-99 00:00	11-NOV-99 10:43	19-NOV-99
WARD PRODUCTS		TP-1		GRAB, NRMD2-02936-310	
Soil	S 8260 TCL LIST		Hold:23-NOV-99		
Soil	S CHROMIUM-FLAA		Hold:16-FEB-00		
Soil	S SOLIDS TOTAL		Hold:16-NOV-99		
L41536-5	CLIENT	N/A	09-NOV-99 00:00	11-NOV-99 10:43	19-NOV-99
WARD PRODUCTS		TP-2		GRAB, NRMD2-02936-310	
Soil	S 8260 TCL LIST		Hold:23-NOV-99		
Soil	S CHROMIUM-FLAA		Hold:16-FEB-00		
Soil	S SOLIDS TOTAL		Hold:16-NOV-99		
L41536-6	CLIENT	N/A	09-NOV-99 00:00	11-NOV-99 10:43	19-NOV-99
WARD PRODUCTS		TP-3		GRAB, NRMD2-02936-310	
Soil	S 8260 TCL LIST		Hold:23-NOV-99		
Soil	S CHROMIUM-FLAA		Hold:16-FEB-00		
Soil	S SOLIDS TOTAL		Hold:16-NOV-99		
L41536-7	CLIENT	N/A	09-NOV-99 00:00	11-NOV-99 10:43	19-NOV-99
WARD PRODUCTS		TP-4		GRAB, NRMD2-02936-310	
Soil	S 8260 TCL LIST		Hold:23-NOV-99		
Soil	S CHROMIUM-FLAA		Hold:16-FEB-00		
Soil	S SOLIDS TOTAL		Hold:16-NOV-99		

14 DEC 99
[Signature]

QC Form	Description	Sample Delivery Group Associations	Page
	Laboratory Validation and Useability Summary		
	Analytical Requirement Summary		1
	Sample Preparation and Analysis Summary	8260	2
2A	Water Volatile Surrogate Recovery	8260	3
3A	Lab Control Sample Recovery	Sediment, L41536-1	4
		Run date 11/15/99	5
4A	Volatile Method Blank Summary	Run date 11/15/99	6
	VOA Method Blank Data Sheet	Run date 11/15/99	7
5A	BFB Tune Check	F2533	8
		F2584	9
6A	Initial Calibration	F2534-F2540	10
7A	Continuing Calibration	F2585	13
8A	Internal Standard Area and RT Summary	F2585	16
	Sample Preparation and Analysis Summary	Pest/PCB	18
2E	Water Pesticide/PCB Surrogate Recovery	Pest/PCB	19
3E	Pesticide Matrix Spike Recovery	QC 103	20
4C	Pesticide Method Blank Summary	MB 103	21
	Pesticide Method Blank Analysis	MB 103	22
	Metals		
3	Blanks - ICP, Hydride AA, Cold Vapor AA, Furnace AA		23
5A	Spike Sample Recovery		24
6	Duplicates		25
7	Laboratory Control Sample		26



Laboratory Validation and Usability Assessment

Project: Thermo ReTec, Inc.
Ward Products
Sampled November 9, 1999

The data reported in this package have been reviewed for compliance with QC acceptance limits as specified in the method cited for each analysis.

These statistical limits are typically based on historical laboratory data for a given sample matrix, and will not exceed any default limits specified by the method. CLP acceptance limits are also considered.

The following Quality Control operations are considered in the validation of reported results:

Holding times, surrogate recovery, spiked sample recovery, duplicates/spiked duplicate precision, tuning criteria, internal standard variation, continuing calibration variation, reference (check) sample recovery, and instrument, method, trip and field blanks. The appropriate frequency for each operation is also considered.

Every effort has been made to report data that is compliant with the EPA methodology cited for each analysis. In cases where the laboratory was unable to meet all method requirements prior to sample expiry, either due to the nature of the sample or other technical difficulty, results are reported with qualification with the understanding that qualified results may not be suitable for compliance purposes. The internal technical review is based on the USEPA Contract Laboratory Program *National Functional Guidelines for Organic Review* (EPA 540/R-94/012, February 1994) and *National Functional Guidelines for Inorganic Review* (EPA 540/R-94/013, February 1994).

Validation

Volatiles

Five soil samples plus an MS/MSD set were received for analysis by EPA method 8260 for the Target Compound List using a five milliliter purge volume.

Surrogate recoveries were within limits for all site samples.

One site sample, Sediment, was spiked in duplicate. Recoveries were within acceptance limits. Precision as indicated by RPD was within limits.

One blank spike was associated with the site samples. Blank spike recoveries were within acceptance limits.

PCB

One soil sample was received for PCB analysis by EPA method 8082 using a one microliter injection volume.

Surrogate recoveries were within limits for all undiluted site samples.

One blank spike for PCB was associated with the site sample. Recoveries were within acceptance limits.

Metals

Samples were analyzed for Chromium and Cadmium by Flame AA.

Site sample Sediment was spiked and duplicated for Chromium. Since the level of Chromium in the sample was more than four times the spiking level, no limit was applied.

Precision as indicated by RPD was within limits.

Laboratory Control Sample recoveries were within limits for both metals.

No other analytical difficulties were encountered.

Usability Assessment

All reported data were found to be valid and usable within the EPA National Functional Validation guidelines except those that were qualified in this Laboratory Validation.

Laboratory validation and
Usability assessment conducted by: Teresa B. Bishop

Date: December 16, 1999

Teresa B. Bishop
Quality Assurance

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Sample ID Summary
page 1 OF 1

01

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SW846/8260
ANALYSES

Sample Analysis Summary
Volatiles
Page 1 of 1

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: FRIEND LABORATORY, INC. Contract: _____
Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMO
Level: (low/med) MED

	NYSDEC SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VBLKSF1	106	101	105	0
02	VBLKSF1MS	110	100	106	0
03	SEDIMENT	113	104	98	0
04	SEDIMENT MS	112	98	100	0
05	SEDIMENT MSD	104	98	105	0
06	TP-1	95	99	101	0
07	TP-2	101	103	105	0
08	TP-3	104	103	102	0
09	TP-4	107	101	103	0

QC LIMITS

SMC1	=	Dibromofluoromethane	(73-116)
SMC2	=	Toluene-d8	(67-150)
SMC3	=	4-Bromofluorobenzene	(77-118)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: FRIEND LABORATORY, INC. Contract: _____
 Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMO
 Matrix Spike - EPA Sample No. SEDIMENT Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	2000	0.0	1600	80	59 - 172
Benzene	2000	0.0	1800	90	66 - 142
Trichloroethene	2000	0.0	1800	90	62 - 137
Toluene	2000	0.0	1600	80	59 - 139
Chlorobenzene	2000	0.0	1700	85	60 - 133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	2800	2000	71	12	22	59 - 172
Benzene	2800	2400	86	5	21	66 - 142
Trichloroethene	2800	2600	93	3	24	62 - 137
Toluene	2800	2300	82	2	21	59 - 139
Chlorobenzene	2800	2400	86	1	21	60 - 133

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

Data File Name #REF!
Data File Path #REF!
Operator SMB
Date Acquired 11/15/1999 4:54
Method File 8260F.M
Sample Name 12 Spiked Blank 11-12-99 1:50
Misc Info 50 ug/L CLP
Instrument Name MSD-F
Data File: F2588.D

<u>Name</u>	<u>Ret Time</u>	<u>Amount</u>	<u>Units</u>	<u>TRUE Value</u>	<u>% Recovery</u>	<u>Limits</u>
1,1-Dichloroethene	8.85	42.58	ug/L	50	85.16%	61 - 145
Benzene	16.01	45.78	ug/L	50	91.55%	76 - 127
Trichloroethene	17.36	43.68	ug/L	50	87.36%	71 - 120
Toluene	19.83	44.81	ug/L	50	89.62%	76 - 125
Chlorobenzene	22.50	45.85	ug/L	50	91.69%	75 - 130
<u>Surrogate</u>						
Dibromofluoromethane	15.27	55.11	ug/L	50	110.23%	80 - 115
Toluene-d8	19.70	50.05	ug/L	50	100.10%	89 - 118
4-Bromofluorobenzene	24.55	53.15	ug/L	50	106.30%	79 - 126

4A
VOLATILE METHOD BLANK SUMMARY

NYSDEC Sample NO.

VBLKSF1

Lab Name: FRIEND LABORATORY, INC. Contract: _____

Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMO

Lab File ID: F2587.D Lab Sample ID: Extraction Blank 1:

Date Analyzed: 11/15/99 Time Analyzed: 16:09

GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSD-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD AND MSB

	NYSDEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLKSF1MS	12 SPIKED BLANK 1:5	F2588.D	16:54
02	SEDIMENT	L41356-1, 1:50	F2589.D	17:35
03	SEDIMENT MS	L41356-2, -1MS, 1:50	F2590.D	18:16
04	SEDIMENT MSD	L41356-3, -1MSD, 1:50	F2591.D	18:57
05	TP-1	L41356-4, 1:50	F2592.D	19:37
06	TP-2	L41356-5, 1:50	F2593.D	20:19
07	TP-3	L41356-6, 1:50	F2594.D	20:59
08	TP-4	L41356-7, 1:50	F2595.D	21:40

COMMENTS

06

Friend Laboratory Inc.
Method Blank Analysis
EPA 8260 TCL List

DATE: 11/15/99

REFERENCE: 98-187-F2587

ANALYST: SMB

VBLKSF1

ANALYTE	ug/kg
Chloromethane	ND<480
Vinyl Chloride	ND<190
Bromomethane	ND<480
Chloroethane	ND<480
1,1-Dichloroethene	ND<480
Acetone	ND<480
Carbon Disulfide	ND<480
Methylene chloride	ND<480
trans-1,2-Dichloroethene	ND<480
1,1-Dichloroethane	ND<480
cis-1,2-Dichloroethene	ND<480
Methyl ethyl ketone	ND<480
Chloroform	ND<480
1,1,1-Trichloroethane	ND<480
Carbon tetrachloride	ND<480
Benzene	ND<67
1,2-Dichloroethane	ND<480
Trichloroethene	ND<480
1,2-Dichloropropane	ND<480

ANALYTE	ug/kg
Bromodichloromethane	ND<480
cis-1,3-Dichloropropene	ND<480
Methyl Isobutyl Ketone	ND<960
Toluene	ND<480
trans-1,3-Dichloropropene	ND<480
1,1,2-Trichloroethane	ND<480
Tetrachloroethene	ND<480
2-Hexanone	ND<960
Dibromochloromethane	ND<480
Chlorobenzene	ND<480
Ethylbenzene	ND<480
p-Xylene/m-Xylene	ND<480
o-Xylene	ND<480
Styrene	ND<480
Bromoform	ND<480
1,1,2,2-Tetrachloroethane	ND<480

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FRIEND LABORATORY, INC. Contract: _____
 Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMO
 Lab File ID: F2533.D BFB Injection Date: 11/11/99
 Instrument ID: MSD-F BFB Injection Time: 10:18
 GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40 percent of mass 95	26
75	30 - 60 percent of mass 95	53
95	Base peak, 100 percent relative abundance	100
96	5.0 - 9.0 percent of mass 95	6.8
173	Less than 2.0 percent of mass 174	0.0 (0.0)1
174	50 - 120 percent of mass 95	55
175	5.0 - 9.0 percent of mass 174	3.7 (6.8)1
176	95 - 101 percent of mass 174	52 (96)1
177	5.0 - 9.0 percent of mass 176	3.6 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	NYSDEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005F1	9 5.0 UG/L 8260 CON.	F2534.D	11/11/99	10:51
02	VSTD010F1	10 10.0 UG/L 8260 CO	F2535.D	11/11/99	11:31
03	VSTD020F1	11 20.0 UG/L 8260 CO	F2536.D	11/11/99	12:12
04	VSTD050F1	12 50.0 UG/L 8260 CO	F2537.D	11/11/99	12:53
05	VSTD100F1	13 100.0 UG/L 8260 C	F2538.D	11/11/99	13:34
06	VSTD150F1	14 150.0 UG/L 8260 C	F2539.D	11/11/99	14:14
07	VSTD200F1	15 200.0 UG/L 8260 C	F2540.D	11/11/99	14:56

08

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FRIEND LABORATORY, INC. Contract: _____
 Lab Code: 10252 Case No.: _____ SAS No.: _____ SDG No.: THERMO
 Lab File ID: F2584.D BFB Injection Date: 11/15/99
 Instrument ID: MSD-F BFB Injection Time: 14:15
 GC Column: RTX-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40 percent of mass 95	27
75	30 - 60 percent of mass 95	54
95	Base peak, 100 percent relative abundance	100
96	5.0 - 9.0 percent of mas 95	7.0
173	Less than 2.0 percent of mass 174	0.0 (0.0)1
174	50 - 120 percent of mass 95	55
175	5.0 - 9.0 percent of mass 174	4.0 (7.2)1
176	95 - 101 percent of mass 174	53 (97)1
177	5.0 - 9.0 percent of mass 176	3.4 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	NYSDEC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050F2	9 50.0 UG/L 8260 INIT.	F2585.D	11/15/99	14:47
02	VBLSKF1	EXTRACTION BLANK	F2587.D	11/15/99	16:09
03	VBLSKF1MS	12 SPIKED BLANK 1:5	F2588.D	11/15/99	16:54
04	SEDIMENT	L41356-1, 1:50	F2589.D	11/15/99	17:35
05	SEDIMENT MS	L41356-2, -1MS, 1:50	F2590.D	11/15/99	18:16
06	SEDIMENT MSD	L41356-3, -1MSD, 1:50	F2591.D	11/15/99	18:57
07	TP-1	L41356-4, 1:50	F2592.D	11/15/99	19:37
08	TP-2	L41356-5, 1:50	F2593.D	11/15/99	20:19
09	TP-3	L41356-6, 1:50	F2594.D	11/15/99	20:59
10	TP-4	L41356-7, 1:50	F2595.D	11/15/99	21:40

Calibration Table Report

Method: F11-11.M

Title:

Last Calibration: Tue Aug 24 10:45:02 1999

Calibration Files

Compound	5 F2534.D	10 F2535.D	20 F2536.D	50 F2537.D	100 F2538.D	150 F2539.D	200 F2540.D	Avg	%RSD
Pentafluorobenzene	ISTD								
Dichlorodifluoromethane	2.080	1.833	1.970	1.986	2.001	1.940	1.814	1.946	4.835
Chloromethane	1.143	0.825	0.900	0.914	0.990	0.990	0.973	0.962	10.347
Vinyl chloride	1.131	0.955	1.061	1.020	1.007	0.953	0.878	1.001	8.203
Bromomethane	0.930	0.657	0.578	0.536	0.470			0.634	28.185
Chloroethane	0.442	0.422	0.478	0.523	0.576			0.488	12.789
Trichlorofluoromethane	1.856	1.805	2.009	1.997	2.018	1.918	1.749	1.907	5.613
Acrolein				0.018	0.034	0.039	0.040	0.033	31.343
1,1,2-Trichloro-1,2,2-trifluoroethane	0.821	0.793	0.877	0.873	0.914	0.895	0.875	0.864	4.904
1,1-Dichloroethene	0.379	0.439	0.483	0.508	0.567	0.549	0.566	0.499	14.135
Iodomethane	0.455	0.528	0.638	0.740	0.910	0.959	0.989	0.746	28.709
Acetone	0.222	0.205	0.228	0.229	0.242	0.233	0.235	0.228	5.225
Carbon disulfide	1.059	1.006	1.132	1.120	1.257	1.262	1.261	1.157	9.071
Allyl chloride	0.089	0.128	0.150	0.183	0.189	0.188	0.187	0.159	24.375
Methylene chloride	0.576	0.535	0.547	0.510	0.569	0.575	0.597	0.558	5.277
MTBE	1.366	1.150	1.352	1.391	1.527	1.522	1.542	1.407	9.918
T-1,2-Dichloroethene	0.556	0.545	0.611	0.642	0.688	0.692	0.693	0.633	10.054
Acrylonitrile		0.012	0.063	0.088	0.104	0.109	0.109	0.081	46.952
1,1-Dichloroethane	1.026	1.071	1.173	1.196	1.283	1.299	1.280	1.190	9.089
Vinyl acetate	0.737	0.618	0.927	1.004			0.994	0.856	19.932
2,2-Dichloropropane	1.520	1.513	1.655	1.635	1.718	1.697	1.692	1.633	5.156
C-1,2-Dichloroethene	0.536	0.610	0.673	0.735	0.808	0.793	0.792	0.707	14.780
MEK(2-Butanone)		0.300	0.202	0.250	0.266	0.275	0.282	0.262	13.001
Bromochloromethane	0.459	0.469	0.515	0.539	0.568	0.546	0.552	0.521	8.106
Chloroform	1.743	1.777	1.913	1.974	2.067	2.013	1.946	1.919	6.227
1,1,1-Trichloroethane	1.930	1.892	2.204	2.107	2.228	2.153	2.017	2.076	6.365
Dibromofluoromethane	1.069	1.059	1.106	1.142	1.099	1.102	1.118	1.099	2.559
Carbon tetrachloride	1.958	1.863	2.096	2.101	2.140	1.984	1.955	2.014	4.979
1,1-Dichloropropene	1.005	0.948	1.129	1.182	1.260	1.233	1.218	1.139	10.530

Benzene	1.722	1.782	1.989	1.986	2.227	2.198	2.183	2.013	10.106
1,2-Dichloroethane	2.198	2.033	2.226	2.283	2.422	2.288	2.261	2.244	5.222
1,4-Difluorobenzene	ISTD								
Trichloroethene	0.415	0.434	0.457	0.476	0.520	0.505	0.490	0.471	8.035
1,2-Dichloropropane	0.207	0.241	0.255	0.268	0.293	0.287	0.280	0.262	11.543
Dibromomethane	0.330	0.318	0.343	0.347	0.371	0.353	0.338	0.343	4.908
Bromodichloromethane	0.715	0.749	0.769	0.797	0.841	0.821	0.776	0.781	5.484
2-Chloroethylvinylether	0.034	0.056	0.083	0.115	0.147	0.161	0.159	0.108	47.558
C-1,3-Dichloropropene	0.501	0.533	0.611	0.621	0.696	0.694	0.652	0.615	12.247
Chlorobenzene-d5	ISTD								
MIBK(4-Methyl-2-pentanone)	0.148	0.139	0.194	0.240	0.267	0.248	0.258	0.214	24.886
Toluene-d8	0.903	0.905	0.920	0.898	0.924	0.897	0.900	0.907	1.179
Toluene	1.027	1.033	1.143	1.162	1.277	1.176	1.143	1.1375	7.58374
T-1,3-Dichloropropene	0.518	0.521	0.597	0.626	0.688	0.633	0.609	0.5988	10.235
1,1,2-Trichloroethane	0.299	0.282	0.326	0.321	0.346	0.31	0.305	0.31276	6.57033
1,2-Dibromoethane (EDB)	0.397	0.401	0.429	0.434	0.486	0.44	0.441	0.43234	6.83333
Tetrachloroethene	0.231	0.239	0.252	0.252	0.281	0.258	0.265	0.25422	6.42904
1,3-Dichloropropane	0.438	0.46	0.507	0.508	0.559	0.527	0.515	0.50191	8.05126
2-Hexanone	0.116	0.107	0.152	0.174	0.184	0.193	0.185	0.15873	22.0036
Dibromochloromethane	0.54	0.582	0.604	0.617	0.674	0.607	0.579	0.60036	6.86404
Chlorobenzene	1.088	1.039	1.098	1.084	1.172	1.092	1.08	1.0935	3.64311
1,1,1,2-Tetrachloroethane	0.51	0.534	0.56	0.536	0.579	0.52	0.524	0.53768	4.50125
Ethylbenzene	0.427	0.504	0.514	0.528	0.581	0.539	0.539	0.51897	9.08663
P/M-Xylenes	0.566	0.632	0.674	0.683	0.731	0.664	0.666	0.65943	7.69233
O-Xylene	0.546	0.608	0.677	0.674	0.757	0.694	0.691	0.66383	10.2152
Styrene	0.941	1.079	1.209	1.194	1.365	1.256	1.224	1.1812	11.4936
Bromoform	0.244	0.241	0.274	0.283	0.319	0.29	0.289	0.27722	9.90625
Isopropylbenzene	1.644	1.851	2.032	2.059	2.275	2.107	2.05	2.00241	10.0552
1,4-Dichlorobenzene-d4	ISTD								
4-Bromofluorobenzene	1.034	1.015	1.023	1.04	1.035	0.995	1.017	1.02263	1.494
Bromobenzene	0.796	0.869	0.842	0.84	0.938	0.856	0.867	0.85836	5.00021
1,1,2,2-Tetrachloroethane	0.698	0.641	0.811	0.79	0.837	0.765	0.755	0.75654	8.92729
1,2,3-Trichloropropane	1.864	1.919	2.068	2.027	2.17	1.972	1.948	1.99525	5.11225
t-1,4-Dichlor-2-butene	0.267	0.294	0.363	0.393		0.387	0.375	0.34663	15.2738
N-Propylbenzene	3.803	4.142	4.392	4.275	4.647	4.227	4.241	4.24668	6.00759
2-Chlorotoluene	2.845	2.867	3.198	3.033	3.329	3.06	3.058	3.05575	5.59224
4-Chlorotoluene	2.537	2.772	2.834	2.914	3.209	2.941	2.916	2.87493	7.04073
1,3,5-Trimethylbenzene	2.643	2.792	2.959	2.944	3.215	3.04	3.032	2.94651	6.26877
Tert-Butylbenzene	2.39	2.69	2.903	2.857	3.164	2.915	2.863	2.82592	8.40384

1,2,4-Trimethylbenzene	2.656	2.881	3.102	3.201	3.363	3.222	3.172	3.08527	7.75044
Sec-Butylbenzene	3.864	3.952	4.387	4.343	4.691	4.418	4.217	4.26761	6.67412
1,3-Dichlorobenzene	1.731	1.835	1.899	1.887	2.1	1.954	1.913	1.90254	5.92236
4-Isopropyltoluene	2.911	3.204	3.537	3.564	3.886	3.738	3.675	3.50201	9.59178
1,4-Dichlorobenzene	1.902	1.922	1.977	1.94	2.069	2.01	1.907	1.9608	3.13084
1,2,3-Trimethylbenzene	2.668	2.906	3.01	2.936	3.024	2.989	2.835	2.90963	4.30487
Benzyl chloride	1.606	1.613	1.867	1.966	2.046	1.854	1.741	1.81321	9.30481
1,2-Dichlorobenzene	1.748	1.853	1.891	1.895	2.075	1.951	1.848	1.89439	5.32559
N-Butylbenzene	2.86	3.179	3.442	3.415	3.666	3.484	3.378	3.34644	7.72143
1,2-Dibromo-3-chloropropane	0.193	0.211	0.245	0.266	0.269	0.24	0.227	0.23595	11.7904
1,2,4-Trichlorobenzene	0.879	0.882	0.996	0.988	1.057	1.003	0.976	0.96864	6.77681
Hexachlorobutadiene	0.298	0.294	0.32	0.325	0.358	0.324	0.317	0.31947	6.56372
Naphthalene	2.835	2.716	3.23	3.395	3.551	3.383	3.195	3.18653	9.59671
1,2,3-Trichlorobenzene	0.825	0.723	0.891	0.916	0.995	0.93	0.9	0.88298	9.83029

Thu Dec 14 11:08:31 2000

Data File : C:\HPCHEM\3\DATA\F2585.D Vial: 9
 Acq On : 15 Nov 1999 2:47 pm Operator: SMB
 Sample : 9 50.0 ug/l 8260 Init. Cal Standard Inst : MSD-F
 Misc : 25 ul 98-027-154-3 ---> 5 ml Curv. 11/1 Multiplr: 1.00
 MS Integration Params: autoint1.e

Method : C:\HPCHEM\3\METHODS\F11-11.M (Chemstation Integrator)
 Title :
 Last Update : Fri Nov 12 11:26:32 1999
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Pentafluorobenzene	1.000	1.000	0.0	104	0.06
2	Dichlorodifluoromethane	1.946	2.103	-8.1	110	0.02
3 mp	Chloromethane	0.962	1.027	-6.8	116	0.03
4 mc	Vinyl chloride	1.001	1.016	-1.5	103	0.03
5 m	Bromomethane	0.571	0.586	-2.6	113	0.04
6 m	Chloroethane	0.429	0.526	-22.6#	104	0.04
7 m	Trichlorofluoromethane	1.907	2.180	-14.3	113	0.05
8 m	Acrolein	0.033	0.020	39.4#	117	0.08
9	1,1,2-Trichloro-1,2,2-trifl	0.864	0.819	5.2	97	0.06
10 Mc	1,1-Dichloroethene	0.499	0.475	4.8	97	0.06
11	Iodomethane	0.746	0.960	-28.7#	134	0.06
12 m	Acetone	0.228	0.227	0.4	103	0.07
13	Carbon disulfide	1.157	1.427	-23.3#	132	0.05
14	Allyl chloride	0.159	0.159	0.0	90	0.06
15 m	Methylene chloride	0.558	0.482	13.6	98	0.06
16	MTBE	1.407	1.275	9.4	95	0.07
17 m	T-1,2-Dichloroethene	0.633	0.590	6.8	95	0.06
18 m	Acrylonitrile	0.083	0.066	20.5#	78	0.06
19 mp	1,1-Dichloroethane	1.190	1.103	7.3	96	0.07
20	Vinyl acetate	0.856	1.287	-50.4#	133	0.06
21	2,2-Dichloropropane	1.633	1.636	-0.2	104	0.06
22 m	C-1,2-Dichloroethene	0.707	0.660	6.6	93	0.06
23	MEK(2-Butanone)	0.262	0.208	20.6#	87	0.07
24	Bromochloromethane	0.521	0.502	3.6	96	0.06
25 mc	Chloroform	1.919	1.791	6.7	94	0.06
26 m	1,1,1-Trichloroethane	2.076	2.100	-1.2	103	0.06
27 S	Dibromofluoromethane	1.099	1.109	-0.9	101	0.06
28 m	Carbon tetrachloride	2.014	2.023	-0.4	100	0.05
29	1,1-Dichloropropene	1.139	1.108	2.7	97	0.06
30 M	Benzene	2.012	1.820	9.5	95	0.06
31 m	1,2-Dichloroethane	2.244	2.218	1.2	101	0.06
32	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.06
33 M	Trichloroethene	0.471	0.456	3.2	95	0.06
34 mc	1,2-Dichloropropane	0.262	0.241	8.0	90	0.06
35	Dibromomethane	0.343	0.330	3.8	95	0.06
36 m	Bromodichloromethane	0.781	0.756	3.2	94	0.06
37 m	2-Chloroethylvinylether	0.108	0.125	-15.7	108	0.06
38 m	C-1,3-Dichloropropene	0.615	0.602	2.1	97	0.06
39	Chlorobenzene-d5	1.000	1.000	0.0	100	0.06

(#) = Out of Range

Acq On : 15 Nov 1999 2:47 pm

Operator: SMB

Sample : 9 50.0 ug/l 8260 Init. Cal Standard

Inst : MSD-F

Misc : 25 ul 98-027-154-3 ---> 5 ml Curv. 11/1 Multiplr: 1.00

MS Integration Params: autoint1.e

Method : C:\HPCHEM\3\METHODS\F11-11.M (Chemstation Integrator)

Title :

Last Update : Fri Nov 12 11:26:32 1999

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	MIBK(4-Methyl-2-pentanone)	0.214	0.381	-78.0#	159#	0.06
41 S	Toluene-d8	0.907	0.923	-1.8	102	0.06
42 Mc	Toluene	1.137	1.056	7.1	91	0.05
43 m	T-1,3-Dichloropropene	0.599	0.583	2.7	93	0.06
44	1,1,2-Trichloroethane	0.313	0.295	5.8	92	0.06
45	1,2-Dibromoethane (EDB)	0.432	0.413	4.4	95	0.06
46 m	Tetrachloroethene	0.254	0.249	2.0	98	0.06
47	1,3-Dichloropropane	0.502	0.460	8.4	90	0.06
48	2-Hexanone	0.159	0.148	6.9	85	0.06
49 m	Dibromochloromethane	0.600	0.602	-0.3	97	0.06
50 Mp	Chlorobenzene	1.094	1.053	3.7	97	0.06
51	1,1,1,2-Tetrachloroethane	0.538	0.527	2.0	98	0.06
52 mc	Ethylbenzene	0.519	0.506	2.5	95	0.06
53 m	P/M-Xylenes	0.659	0.620	5.9	90	0.06
54 m	O-Xylene	0.664	0.638	3.9	94	0.06
55 m	Styrene	1.181	1.114	5.7	93	0.06
56 mp	Bromoform	0.277	0.277	0.0	97	0.06
57	Isopropylbenzene	2.002	1.973	1.4	95	0.06
58	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.06
59 S	4-Bromofluorobenzene	1.023	1.025	-0.2	99	0.06
60	Bromobenzene	0.858	0.832	3.0	100	0.06
61 mp	1,1,2,2-Tetrachloroethane	0.757	0.706	6.7	90	0.06
62	1,2,3-Trichloropropane	1.995	1.959	1.8	97	0.06
63	t-1,4-Dichlor-2-butene	0.361	0.553	-53.2#	136	0.06
64	N-Propylbenzene	4.247	4.013	5.5	94	0.06
65	2-Chlorotoluene	3.056	2.906	4.9	96	0.06
66	4-Chlorotoluene	2.875	2.740	4.7	94	0.06
67	1,3,5-Trimethylbenzene	2.947	2.826	4.1	96	0.06
68	Tert-Butylbenzene	2.826	2.797	1.0	98	0.06
69	1,2,4-Trimethylbenzene	3.085	3.044	1.3	96	0.06
70	Sec-Butylbenzene	4.268	4.123	3.4	95	0.06
71 m	1,3-Dichlorobenzene	1.903	1.745	8.3	93	0.06
72	4-Isopropyltoluene	3.502	3.406	2.7	96	0.06
73 m	1,4-Dichlorobenzene	1.961	1.878	4.2	97	0.06
74	1,2,3-Trimethylbenzene	2.910	3.364	-15.6	115	0.06
75	Benzyl chloride	1.813	2.893	-59.6#	148	0.06
76 m	1,2-Dichlorobenzene	1.894	1.778	6.1	94	0.07
77	N-Butylbenzene	3.346	3.213	4.0	95	0.06
78	1,2-Dibromo-3-chloropropane	0.236	0.228	3.4	86	0.08
79	1,2,4-Trichlorobenzene	0.969	0.921	5.0	94	0.07

(#)= Out of Range

F2585.D F11-11.M

Mon Nov 15 14:33:07 1999

VOLATILEGC

Page 2

Data File : C:\HPCHEM\3\DATA\F2585.D Vial: 9
Acq On : 15 Nov 1999 2:47 pm Operator: SMB
Sample : 9 50.0 ug/l 8260 Init. Cal Standard Inst : MSD-F
Misc : 25 ul 98-027-154-3 ---> 5 ml Curv. 11/1 Multiplr: 1.00
MS Integration Params: autoint1.e

Method : C:\HPCHEM\3\METHODS\F11-11.M (Chemstation Integrator)
Title :
Last Update : Fri Nov 12 11:26:32 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	Hexachlorobutadiene	0.319	0.310	2.8	96	0.08
81	Naphthalene	3.187	2.900	9.0	86	0.09
82	1,2,3-Trichlorobenzene	0.883	0.853	3.4	94	0.08

(#) = Out of Range

F2585.D F11-11.M

SPCC's out = 0 CCC's out = 0

Mon Nov 15 14:33:08 1999

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