34-12
5-13-97

BE | 8/18/98 | DIN

May 30, 1997

HDR

Mr. Bobby Lutfy, Hydrogeologist
North Carolina Department of Environment,
Health and Natural Resources
Division of Solid Waste Management
Solid Waste Section
P. O. Box 27687
Raleigh, North Carolina 27611-7687

RE: **Third Semiannual Ground-Water Sampling Analytical Results**
Winston-Salem[redacted]l (#34-12)
Forsyth County, North Carolina
HDR Project No.: 00162-090-018

Dear Mr. Lutfy:

HDR Engineering, Inc. of North Carolina (HDR) is hereby submitting, on behalf of the City of Winston-Salem Utilities Division, the ground-water analytical results for the third complete round of ground-water sampling at the C&D Landfill located in Forsyth County, North Carolina.

Ground-water samples were collected from all on-site detection monitoring wells (MW-1R, MW-2R, MW-3, MW-4R, MW-5R, MW-6, and MW-7) on May 13, 1997 for Appendix I volatile organic compound (VOC) analysis as well as for the eight RCRA metals. A trip and equipment blank were also included for QA/QC purposes. Field measurements of pH, specific conductance, and temperature were also recorded during pre-sampling well purging. These measurements were recorded on field forms which have been attached to the Report of Laboratory Analysis.

Based on past ground-water flow characteristics for the site, ground-water monitoring well MW-1R is hydraulically upgradient of the landfill and is therefore considered as "background" for the site.

The metals barium, cadmium, chromium, lead, and silver were detected in the ground water during this round of sampling. The concentrations detected were low and are [redacted]he [redacted] typically present in the saprolite of this region. [redacted] of 0.015 mg/l. Likewise, [redacted] of 0.05 mg/l. No volatile organic compounds were detected in any of the ground-water monitoring wells (including the equipment blank). The complete Report of Laboratory Analysis for this round of sampling at

HDR Engineering, Inc. of North Carolina
Suite 1400
128 S. Tryon Street
Charlotte, North Carolina
28202-5001
Telephone
704 338-6700
Fax
704 338-6760
Engineering

the Winston-Salem C&D Landfill is attached at the end of this letter (including the Chain-of-Custody Record and field purging forms).

If you have any questions or comments concerning the information summarized in this letter or on the attached analytical data report, please do not hesitate to contact me at (704) 338-6832.

Sincerely,

John R. Isham

John R. Isham, P.G.
Project Hydrogeologist

attachments: Report of Laboratory Analysis (w/ Chain-of-Custody Record)
Pre-Sampling Well Purging Forms
Phase I Ground-Water Monitoring Well Locations

cc: Barry Shearin, Winston-Salem Utilities Division

Pace Analytical

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Tel: 704-875-9092
Fax: 704-875-9091

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MAY 28 1997
HDR
CHARLOTTE, N.C.

May 28, 1997

Mr. John Isham
HDR Engineering
128 South Tryon Street
Suite 1400
Charlotte, NC 28202

RE: PACE Project No. 670514.500
Client Reference: Winston-Salem C&D Landfill 00162-090-018

Dear Mr. Isham:

Enclosed is the report of laboratory analyses for samples received May 14, 1997.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Kelly Wallace

for Felicia C Grogan
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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HDR Engineering
128 South Tryon Street
Suite 1400
Charlotte, NC 28202

May 28, 1997
PACE Project Number: 670514500

Attn: Mr. John Isham

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096096		
Date Collected:			05/13/97		
Date Received:			05/14/97		
			MW-1R		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	05/16/97
Barium	mg/L	0.010	0.10	200.7	05/16/97
Cadmium	mg/L	0.001	ND	213.2	05/23/97
Chromium	mg/L	0.002	0.003	218.2	05/20/97
Lead	mg/L	0.005	ND	239.2	05/22/97
Mercury	mg/L	0.0002	ND	245.1	05/22/97
Metal Digestion, Mercury			052297		05/22/97
Selenium	mg/L	0.005	ND	270.2	05/19/97
Silver	mg/L	0.005	ND	272.2	05/15/97
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Methyl Chloride	ug/L	10	ND		05/22/97
Chloroethene (Vinyl chloride)	ug/L	10	ND		05/22/97
Bromomethane	ug/L	10	ND		05/22/97
Chloroethane	ug/L	10	ND		05/22/97
Trichlorofluoromethane	ug/L	5.0	ND		05/22/97
Acetone	ug/L	100	ND		05/22/97
1,1-Dichloroethene	ug/L	5.0	ND		05/22/97
Methyl iodide	ug/L	5.0	ND		05/22/97
Acrylonitrile	ug/L	100	ND		05/22/97
Dichloromethane	ug/L	5.0	ND		05/22/97
Carbon disulfide	ug/L	5.0	ND		05/22/97
trans-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
1,1-Dichloroethane	ug/L	5.0	ND		05/22/97
Vinyl acetate	ug/L	50	ND		05/22/97
Methyl ethyl ketone	ug/L	100	ND		05/22/97
cis-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97

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Mr. John Isham
Page 2

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096096		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-1R		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Chloroform	ug/L	5.0	ND		05/22/97
Bromochloromethane	ug/L	5.0	ND		05/22/97
1,1,1-Trichloroethane	ug/L	5.0	ND		05/22/97
1,2-Dichloroethane	ug/L	5.0	ND		05/22/97
Carbon tetrachloride	ug/L	5.0	ND		05/22/97
Benzene	ug/L	5.0	ND		05/22/97
Trichloroethene	ug/L	5.0	ND		05/22/97
1,2-Dichloropropane	ug/L	5.0	ND		05/22/97
Dibromomethane	ug/L	5.0	ND		05/22/97
Bromodichloromethane	ug/L	5.0	ND		05/22/97
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		05/22/97
cis-1,3-Dichloropropene	ug/L	5.0	ND		05/22/97
Toluene	ug/L	5.0	ND		05/22/97
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND		05/22/97
1,1,2-Trichloroethane	ug/L	5.0	ND		05/22/97
2-Hexanone	ug/L	50	ND		05/22/97
Dibromochloromethane	ug/L	5.0	ND		05/22/97
Tetrachloroethylene	ug/L	5.0	ND		05/22/97
1,2-Dibromoethane	ug/L	5.0	ND		05/22/97
Chlorobenzene	ug/L	5.0	ND		05/22/97
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
Ethylbenzene	ug/L	5.0	ND		05/22/97
Xylenes, (total)	ug/L	5.0	ND		05/22/97
Styrene	ug/L	5.0	ND		05/22/97
Bromoform	ug/L	5.0	ND		05/22/97
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
1,2,3-Trichloropropane	ug/L	5.0	ND		05/22/97
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND		05/22/97
1,4-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096096		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-1R		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Surrogate - Dibromofluoromethane	%		98		05/22/97
Surrogate - Toluene-d8	%		94		05/22/97
Surrogate - 4-Bromofluorobenzene	%		104		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Parameter	Units	PRL		METHOD	DATE ANALYZED
PACE Sample Number:			92 0096100		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-2R		
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	05/16/97
Barium	mg/L	0.010	0.20	200.7	05/16/97
Cadmium	mg/L	0.001	0.003	213.2	05/23/97
Chromium	mg/L	0.002	0.004	218.2	05/20/97
Lead	mg/L	0.005	0.014	239.2	05/22/97
Mercury	mg/L	0.0002	ND	245.1	05/22/97
Metal Digestion, Mercury			052297		05/22/97
Selenium	mg/L	0.005	ND	270.2	05/19/97
Silver	mg/L	0.005	0.006	272.2	05/15/97
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Methyl Chloride	ug/L	10	ND		05/22/97
Chloroethene (Vinyl chloride)	ug/L	10	ND		05/22/97
Bromomethane	ug/L	10	ND		05/22/97
Chloroethane	ug/L	10	ND		05/22/97
Trichlorofluoromethane	ug/L	5.0	ND		05/22/97
Acetone	ug/L	100	ND		05/22/97
1,1-Dichloroethene	ug/L	5.0	ND		05/22/97
Methyl iodide	ug/L	5.0	ND		05/22/97
Acrylonitrile	ug/L	100	ND		05/22/97
Dichloromethane	ug/L	5.0	ND		05/22/97
Carbon disulfide	ug/L	5.0	ND		05/22/97
trans-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
1,1-Dichloroethane	ug/L	5.0	ND		05/22/97
Vinyl acetate	ug/L	50	ND		05/22/97
Methyl ethyl ketone	ug/L	100	ND		05/22/97
cis-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
Chloroform	ug/L	5.0	ND		05/22/97
Bromochloromethane	ug/L	5.0	ND		05/22/97
1,1,1-Trichloroethane	ug/L	5.0	ND		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Parameter	Units	PRL		METHOD	DATE ANALYZED
PACE Sample Number:			92 0096100		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-2R		
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
1,2-Dichloroethane	ug/L	5.0	ND		05/22/97
Carbon tetrachloride	ug/L	5.0	ND		05/22/97
Benzene	ug/L	5.0	ND		05/22/97
Trichloroethene	ug/L	5.0	ND		05/22/97
1,2-Dichloropropane	ug/L	5.0	ND		05/22/97
Dibromomethane	ug/L	5.0	ND		05/22/97
Bromodichloromethane	ug/L	5.0	ND		05/22/97
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		05/22/97
cis-1,3-Dichloropropene	ug/L	5.0	ND		05/22/97
Toluene	ug/L	5.0	ND		05/22/97
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND		05/22/97
1,1,2-Trichloroethane	ug/L	5.0	ND		05/22/97
2-Hexanone	ug/L	50	ND		05/22/97
Dibromochloromethane	ug/L	5.0	ND		05/22/97
Tetrachloroethylene	ug/L	5.0	ND		05/22/97
1,2-Dibromoethane	ug/L	5.0	ND		05/22/97
Chlorobenzene	ug/L	5.0	ND		05/22/97
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
Ethylbenzene	ug/L	5.0	ND		05/22/97
Xylenes, (total)	ug/L	5.0	ND		05/22/97
Styrene	ug/L	5.0	ND		05/22/97
Bromoform	ug/L	5.0	ND		05/22/97
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
1,2,3-Trichloropropane	ug/L	5.0	ND		05/22/97
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND		05/22/97
1,4-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND		05/22/97
Surrogate - Dibromofluoromethane	%		94		05/22/97
Surrogate - Toluene-d8	%		101		05/22/97
Surrogate - 4-Bromofluorobenzene	%		93		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096118		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-3		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	05/16/97
Barium	mg/L	0.010	0.80	200.7	05/16/97
Cadmium	mg/L	0.001	ND	213.2	05/23/97
Chromium	mg/L	0.004	0.028	218.2	05/20/97
[redacted]	mg/L	0.005	0[redacted]	239.2	05/22/97
Mercury	mg/L	0.0002	ND	245.1	05/22/97
Metal Digestion, Mercury			052297		05/22/97
Selenium	mg/L	0.005	ND	270.2	05/19/97
Silver	mg/L	0.005	ND	272.2	05/15/97
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Methyl Chloride	ug/L	10	ND		05/22/97
Chloroethene (Vinyl chloride)	ug/L	10	ND		05/22/97
Bromomethane	ug/L	10	ND		05/22/97
Chloroethane	ug/L	10	ND		05/22/97
Trichlorofluoromethane	ug/L	5.0	ND		05/22/97
Acetone	ug/L	100	ND		05/22/97
1,1-Dichloroethene	ug/L	5.0	ND		05/22/97
Methyl iodide	ug/L	5.0	ND		05/22/97
Acrylonitrile	ug/L	100	ND		05/22/97
Dichloromethane	ug/L	5.0	ND		05/22/97
Carbon disulfide	ug/L	5.0	ND		05/22/97
trans-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
1,1-Dichloroethane	ug/L	5.0	ND		05/22/97
Vinyl acetate	ug/L	50	ND		05/22/97
Methyl ethyl ketone	ug/L	100	ND		05/22/97
cis-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
Chloroform	ug/L	5.0	ND		05/22/97
Bromochloromethane	ug/L	5.0	ND		05/22/97
1,1,1-Trichloroethane	ug/L	5.0	ND		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096118		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-3		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
1,2-Dichloroethane	ug/L	5.0	ND		05/22/97
Carbon tetrachloride	ug/L	5.0	ND		05/22/97
Benzene	ug/L	5.0	ND		05/22/97
Trichloroethene	ug/L	5.0	ND		05/22/97
1,2-Dichloropropane	ug/L	5.0	ND		05/22/97
Dibromomethane	ug/L	5.0	ND		05/22/97
Bromodichloromethane	ug/L	5.0	ND		05/22/97
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		05/22/97
cis-1,3-Dichloropropene	ug/L	5.0	ND		05/22/97
Toluene	ug/L	5.0	ND		05/22/97
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND		05/22/97
1,1,2-Trichloroethane	ug/L	5.0	ND		05/22/97
2-Hexanone	ug/L	50	ND		05/22/97
Dibromochloromethane	ug/L	5.0	ND		05/22/97
Tetrachloroethylene	ug/L	5.0	ND		05/22/97
1,2-Dibromoethane	ug/L	5.0	ND		05/22/97
Chlorobenzene	ug/L	5.0	ND		05/22/97
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
Ethylbenzene	ug/L	5.0	ND		05/22/97
Xylenes, (total)	ug/L	5.0	ND		05/22/97
Styrene	ug/L	5.0	ND		05/22/97
Bromoform	ug/L	5.0	ND		05/22/97
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
1,2,3-Trichloropropane	ug/L	5.0	ND		05/22/97
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND		05/22/97
1,4-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND		05/22/97
Surrogate - Dibromofluoromethane	%		94		05/22/97
Surrogate - Toluene-d8	%		105		05/22/97
Surrogate - 4-Bromofluorobenzene	%		99		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096126		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-4R		
Parameter	Units	PRL		METHOD	DATE ANALYZED
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	05/16/97
Barium	mg/L	0.010	0.28	200.7	05/16/97
Cadmium	mg/L	0.001	ND	213.2	05/23/97
Chromium	mg/L	0.002	ND	218.2	05/20/97
Lead	mg/L	0.005	0.012	239.2	05/22/97
Mercury	mg/L	0.0002	ND	245.1	05/22/97
Metal Digestion, Mercury			052297		05/22/97
Selenium	mg/L	0.005	ND	270.2	05/19/97
Silver	mg/L	0.005	0.006	272.2	05/15/97
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Methyl Chloride	ug/L	10	ND		05/22/97
Chloroethene (Vinyl chloride)	ug/L	10	ND		05/22/97
Bromomethane	ug/L	10	ND		05/22/97
Chloroethane	ug/L	10	ND		05/22/97
Trichlorofluoromethane	ug/L	5.0	ND		05/22/97
Acetone	ug/L	100	ND		05/22/97
1,1-Dichloroethene	ug/L	5.0	ND		05/22/97
Methyl iodide	ug/L	5.0	ND		05/22/97
Acrylonitrile	ug/L	100	ND		05/22/97
Dichloromethane	ug/L	5.0	ND		05/22/97
Carbon disulfide	ug/L	5.0	ND		05/22/97
trans-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
1,1-Dichloroethane	ug/L	5.0	ND		05/22/97
Vinyl acetate	ug/L	50	ND		05/22/97
Methyl ethyl ketone	ug/L	100	ND		05/22/97
cis-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
Chloroform	ug/L	5.0	ND		05/22/97
Bromochloromethane	ug/L	5.0	ND		05/22/97
1,1,1-Trichloroethane	ug/L	5.0	ND		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096126		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-4R		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
1,2-Dichloroethane	ug/L	5.0	ND		05/22/97
Carbon tetrachloride	ug/L	5.0	ND		05/22/97
Benzene	ug/L	5.0	ND		05/22/97
Trichloroethene	ug/L	5.0	ND		05/22/97
1,2-Dichloropropane	ug/L	5.0	ND		05/22/97
Dibromomethane	ug/L	5.0	ND		05/22/97
Bromodichloromethane	ug/L	5.0	ND		05/22/97
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		05/22/97
cis-1,3-Dichloropropene	ug/L	5.0	ND		05/22/97
Toluene	ug/L	5.0	ND		05/22/97
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND		05/22/97
1,1,2-Trichloroethane	ug/L	5.0	ND		05/22/97
2-Hexanone	ug/L	50	ND		05/22/97
Dibromochloromethane	ug/L	5.0	ND		05/22/97
Tetrachloroethylene	ug/L	5.0	ND		05/22/97
1,2-Dibromoethane	ug/L	5.0	ND		05/22/97
Chlorobenzene	ug/L	5.0	ND		05/22/97
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
Ethylbenzene	ug/L	5.0	ND		05/22/97
Xylenes, (total)	ug/L	5.0	ND		05/22/97
Styrene	ug/L	5.0	ND		05/22/97
Bromoform	ug/L	5.0	ND		05/22/97
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
1,2,3-Trichloropropane	ug/L	5.0	ND		05/22/97
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND		05/22/97
1,4-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND		05/22/97
Surrogate - Dibromofluoromethane	%		95		05/22/97
Surrogate - Toluene-d8	%		100		05/22/97
Surrogate - 4-Bromofluorobenzene	%		101		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Parameter	Units	PRL		METHOD	DATE ANALYZED
PACE Sample Number:			92 0096134		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-5R		
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	05/16/97
Barium	mg/L	0.010	0.33	200.7	05/16/97
Cadmium	mg/L	0.001	ND	213.2	05/23/97
[redacted]	mg/L	0.010	[redacted]	218.2	05/20/97
Lead	mg/L	0.005	0.014	239.2	05/22/97
Mercury	mg/L	0.0002	ND	245.1	05/22/97
Metal Digestion, Mercury			052297		05/22/97
Selenium	mg/L	0.005	ND	270.2	05/22/97
Silver	mg/L	0.005	ND	272.2	05/15/97
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Methyl Chloride	ug/L	10	ND		05/22/97
Chloroethene (Vinyl chloride)	ug/L	10	ND		05/22/97
Bromomethane	ug/L	10	ND		05/22/97
Chloroethane	ug/L	10	ND		05/22/97
Trichlorofluoromethane	ug/L	5.0	ND		05/22/97
Acetone	ug/L	100	ND		05/22/97
1,1-Dichloroethene	ug/L	5.0	ND		05/22/97
Methyl iodide	ug/L	5.0	ND		05/22/97
Acrylonitrile	ug/L	100	ND		05/22/97
Dichloromethane	ug/L	5.0	ND		05/22/97
Carbon disulfide	ug/L	5.0	ND		05/22/97
trans-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
1,1-Dichloroethane	ug/L	5.0	ND		05/22/97
Vinyl acetate	ug/L	50	ND		05/22/97
Methyl ethyl ketone	ug/L	100	ND		05/22/97
cis-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
Chloroform	ug/L	5.0	ND		05/22/97
Bromochloromethane	ug/L	5.0	ND		05/22/97
1,1,1-Trichloroethane	ug/L	5.0	ND		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096134		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-5R		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
1,2-Dichloroethane	ug/L	5.0	ND		05/22/97
Carbon tetrachloride	ug/L	5.0	ND		05/22/97
Benzene	ug/L	5.0	ND		05/22/97
Trichloroethene	ug/L	5.0	ND		05/22/97
1,2-Dichloropropane	ug/L	5.0	ND		05/22/97
Dibromomethane	ug/L	5.0	ND		05/22/97
Bromodichloromethane	ug/L	5.0	ND		05/22/97
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		05/22/97
cis-1,3-Dichloropropene	ug/L	5.0	ND		05/22/97
Toluene	ug/L	5.0	ND		05/22/97
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND		05/22/97
1,1,2-Trichloroethane	ug/L	5.0	ND		05/22/97
2-Hexanone	ug/L	50	ND		05/22/97
Dibromochloromethane	ug/L	5.0	ND		05/22/97
Tetrachloroethylene	ug/L	5.0	ND		05/22/97
1,2-Dibromoethane	ug/L	5.0	ND		05/22/97
Chlorobenzene	ug/L	5.0	ND		05/22/97
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
Ethylbenzene	ug/L	5.0	ND		05/22/97
Xylenes, (total)	ug/L	5.0	ND		05/22/97
Styrene	ug/L	5.0	ND		05/22/97
Bromoform	ug/L	5.0	ND		05/22/97
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
1,2,3-Trichloropropane	ug/L	5.0	ND		05/22/97
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND		05/22/97
1,4-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND		05/22/97
Surrogate - Dibromofluoromethane	%		96		05/22/97
Surrogate - Toluene-d8	%		98		05/22/97
Surrogate - 4-Bromofluorobenzene	%		100		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Parameter	Units	PRL		METHOD	DATE ANALYZED
PACE Sample Number:			92 0096142		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-6		
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	05/16/97
Barium	mg/L	0.010	0.30	200.7	05/16/97
Cadmium	mg/L	0.001	ND	213.2	05/23/97
Chromium	mg/L	0.002	0.021	218.2	05/20/97
Lead	mg/L	0.005	0.014	239.2	05/22/97
Mercury	mg/L	0.0002	ND	245.1	05/22/97
Metal Digestion, Mercury			052297		05/22/97
Selenium	mg/L	0.005	ND	270.2	05/22/97
Silver	mg/L	0.005	ND	272.2	05/15/97
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Methyl Chloride	ug/L	10	ND		05/22/97
Chloroethene (Vinyl chloride)	ug/L	10	ND		05/22/97
Bromomethane	ug/L	10	ND		05/22/97
Chloroethane	ug/L	10	ND		05/22/97
Trichlorofluoromethane	ug/L	5.0	ND		05/22/97
Acetone	ug/L	100	ND		05/22/97
1,1-Dichloroethene	ug/L	5.0	ND		05/22/97
Methyl iodide	ug/L	5.0	ND		05/22/97
Acrylonitrile	ug/L	100	ND		05/22/97
Dichloromethane	ug/L	5.0	ND		05/22/97
Carbon disulfide	ug/L	5.0	ND		05/22/97
trans-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
1,1-Dichloroethane	ug/L	5.0	ND		05/22/97
Vinyl acetate	ug/L	50	ND		05/22/97
Methyl ethyl ketone	ug/L	100	ND		05/22/97
cis-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
Chloroform	ug/L	5.0	ND		05/22/97
Bromochloromethane	ug/L	5.0	ND		05/22/97
1,1,1-Trichloroethane	ug/L	5.0	ND		05/22/97

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Mr. John Isham
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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096142		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-6		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
1,2-Dichloroethane	ug/L	5.0	ND		05/22/97
Carbon tetrachloride	ug/L	5.0	ND		05/22/97
Benzene	ug/L	5.0	ND		05/22/97
Trichloroethene	ug/L	5.0	ND		05/22/97
1,2-Dichloropropane	ug/L	5.0	ND		05/22/97
Dibromomethane	ug/L	5.0	ND		05/22/97
Bromodichloromethane	ug/L	5.0	ND		05/22/97
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		05/22/97
cis-1,3-Dichloropropene	ug/L	5.0	ND		05/22/97
Toluene	ug/L	5.0	ND		05/22/97
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND		05/22/97
1,1,2-Trichloroethane	ug/L	5.0	ND		05/22/97
2-Hexanone	ug/L	50	ND		05/22/97
Dibromochloromethane	ug/L	5.0	ND		05/22/97
Tetrachloroethylene	ug/L	5.0	ND		05/22/97
1,2-Dibromoethane	ug/L	5.0	ND		05/22/97
Chlorobenzene	ug/L	5.0	ND		05/22/97
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
Ethylbenzene	ug/L	5.0	ND		05/22/97
Xylenes, (total)	ug/L	5.0	ND		05/22/97
Styrene	ug/L	5.0	ND		05/22/97
Bromoform	ug/L	5.0	ND		05/22/97
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
1,2,3-Trichloropropane	ug/L	5.0	ND		05/22/97
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND		05/22/97
1,4-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND		05/22/97
Surrogate - Dibromofluoromethane	%		96		05/22/97
Surrogate - Toluene-d8	%		100		05/22/97
Surrogate - 4-Bromofluorobenzene	%		102		05/22/97

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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Parameter	Units	PRL		METHOD	DATE ANALYZED
PACE Sample Number:			92 0096150		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-7		
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Arsenic	mg/L	0.005	ND	206.2	05/16/97
Barium	mg/L	0.010	0.75	200.7	05/16/97
Cadmium	mg/L	0.001	ND	213.2	05/23/97
[redacted]	mg/L	0.02	[redacted]	218.2	05/23/97
[redacted]	mg/L	0.005	[redacted]	239.2	05/22/97
Mercury	mg/L	0.0002	ND	245.1	05/22/97
Metal Digestion, Mercury			052297		05/22/97
Selenium	mg/L	0.005	ND	270.2	05/22/97
Silver	mg/L	0.005	ND	272.2	05/15/97
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Methyl Chloride	ug/L	10	ND		05/22/97
Chloroethene (Vinyl chloride)	ug/L	10	ND		05/22/97
Bromomethane	ug/L	10	ND		05/22/97
Chloroethane	ug/L	10	ND		05/22/97
Trichlorofluoromethane	ug/L	5.0	ND		05/22/97
Acetone	ug/L	100	ND		05/22/97
1,1-Dichloroethene	ug/L	5.0	ND		05/22/97
Methyl iodide	ug/L	5.0	ND		05/22/97
Acrylonitrile	ug/L	100	ND		05/22/97
Dichloromethane	ug/L	5.0	ND		05/22/97
Carbon disulfide	ug/L	5.0	ND		05/22/97
trans-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
1,1-Dichloroethane	ug/L	5.0	ND		05/22/97
Vinyl acetate	ug/L	50	ND		05/22/97
Methyl ethyl ketone	ug/L	100	ND		05/22/97
cis-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
Chloroform	ug/L	5.0	ND		05/22/97
Bromochloromethane	ug/L	5.0	ND		05/22/97
1,1,1-Trichloroethane	ug/L	5.0	ND		05/22/97

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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096150		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			MW-7		
Parameter	Units	PRL		METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
1,2-Dichloroethane	ug/L	5.0	ND		05/22/97
Carbon tetrachloride	ug/L	5.0	ND		05/22/97
Benzene	ug/L	5.0	ND		05/22/97
Trichloroethene	ug/L	5.0	ND		05/22/97
1,2-Dichloropropane	ug/L	5.0	ND		05/22/97
Dibromomethane	ug/L	5.0	ND		05/22/97
Bromodichloromethane	ug/L	5.0	ND		05/22/97
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		05/22/97
cis-1,3-Dichloropropene	ug/L	5.0	ND		05/22/97
Toluene	ug/L	5.0	ND		05/22/97
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND		05/22/97
1,1,2-Trichloroethane	ug/L	5.0	ND		05/22/97
2-Hexanone	ug/L	50	ND		05/22/97
Dibromochloromethane	ug/L	5.0	ND		05/22/97
Tetrachloroethylene	ug/L	5.0	ND		05/22/97
1,2-Dibromoethane	ug/L	5.0	ND		05/22/97
Chlorobenzene	ug/L	5.0	ND		05/22/97
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
Ethylbenzene	ug/L	5.0	ND		05/22/97
Xylenes, (total)	ug/L	5.0	ND		05/22/97
Styrene	ug/L	5.0	ND		05/22/97
Bromoform	ug/L	5.0	ND		05/22/97
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
1,2,3-Trichloropropane	ug/L	5.0	ND		05/22/97
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND		05/22/97
1,4-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND		05/22/97
Surrogate - Dibromofluoromethane	%		97		05/22/97
Surrogate - Toluene-d8	%		100		05/22/97
Surrogate - 4-Bromofluorobenzene	%		90		05/22/97

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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096169		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			Trip		
Parameter	Units	PRL	Blank	METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Methyl Chloride	ug/L	10	ND		05/22/97
Chloroethene (Vinyl chloride)	ug/L	10	ND		05/22/97
Bromomethane	ug/L	10	ND		05/22/97
Chloroethane	ug/L	10	ND		05/22/97
Trichlorofluoromethane	ug/L	5.0	ND		05/22/97
Acetone	ug/L	100	ND		05/22/97
1,1-Dichloroethene	ug/L	5.0	ND		05/22/97
Methyl iodide	ug/L	5.0	ND		05/22/97
Acrylonitrile	ug/L	100	ND		05/22/97
Dichloromethane	ug/L	5.0	ND		05/22/97
Carbon disulfide	ug/L	5.0	ND		05/22/97
trans-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
1,1-Dichloroethane	ug/L	5.0	ND		05/22/97
Vinyl acetate	ug/L	50	ND		05/22/97
Methyl ethyl ketone	ug/L	100	ND		05/22/97
cis-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
Chloroform	ug/L	5.0	ND		05/22/97
Bromochloromethane	ug/L	5.0	ND		05/22/97
1,1,1-Trichloroethane	ug/L	5.0	ND		05/22/97
1,2-Dichloroethane	ug/L	5.0	ND		05/22/97
Carbon tetrachloride	ug/L	5.0	ND		05/22/97
Benzene	ug/L	5.0	ND		05/22/97
Trichloroethene	ug/L	5.0	ND		05/22/97
1,2-Dichloropropane	ug/L	5.0	ND		05/22/97
Dibromomethane	ug/L	5.0	ND		05/22/97
Bromodichloromethane	ug/L	5.0	ND		05/22/97
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		05/22/97
cis-1,3-Dichloropropene	ug/L	5.0	ND		05/22/97
Toluene	ug/L	5.0	ND		05/22/97
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND		05/22/97
1,1,2-Trichloroethane	ug/L	5.0	ND		05/22/97

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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Parameter	Units	PRL	92 0096169 Trip Blank	METHOD	DATE ANALYZED
PACE Sample Number:			92 0096169		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			Trip Blank		
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
2-Hexanone	ug/L	50	ND		05/22/97
Dibromochloromethane	ug/L	5.0	ND		05/22/97
Tetrachloroethylene	ug/L	5.0	ND		05/22/97
1,2-Dibromoethane	ug/L	5.0	ND		05/22/97
Chlorobenzene	ug/L	5.0	ND		05/22/97
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
Ethylbenzene	ug/L	5.0	ND		05/22/97
Xylenes, (total)	ug/L	5.0	ND		05/22/97
Styrene	ug/L	5.0	ND		05/22/97
Bromoform	ug/L	5.0	ND		05/22/97
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
1,2,3-Trichloropropane	ug/L	5.0	ND		05/22/97
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND		05/22/97
1,4-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND		05/22/97
Surrogate - Dibromofluoromethane	%		95		05/22/97
Surrogate - Toluene-d8	%		98		05/22/97
Surrogate - 4-Bromofluorobenzene	%		105		05/22/97

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May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096177		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			Equipment		
Parameter	Units	PRL	Blank	METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
Methyl Chloride	ug/L	10	ND		05/22/97
Chloroethene (Vinyl chloride)	ug/L	10	ND		05/22/97
Bromomethane	ug/L	10	ND		05/22/97
Chloroethane	ug/L	10	ND		05/22/97
Trichlorofluoromethane	ug/L	5.0	ND		05/22/97
Acetone	ug/L	100	ND		05/22/97
1,1-Dichloroethene	ug/L	5.0	ND		05/22/97
Methyl iodide	ug/L	5.0	ND		05/22/97
Acrylonitrile	ug/L	100	ND		05/22/97
Dichloromethane	ug/L	5.0	ND		05/22/97
Carbon disulfide	ug/L	5.0	ND		05/22/97
trans-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
1,1-Dichloroethane	ug/L	5.0	ND		05/22/97
Vinyl acetate	ug/L	50	ND		05/22/97
Methyl ethyl ketone	ug/L	100	ND		05/22/97
cis-1,2-Dichloroethene	ug/L	5.0	ND		05/22/97
Chloroform	ug/L	5.0	ND		05/22/97
Bromochloromethane	ug/L	5.0	ND		05/22/97
1,1,1-Trichloroethane	ug/L	5.0	ND		05/22/97
1,2-Dichloroethane	ug/L	5.0	ND		05/22/97
Carbon tetrachloride	ug/L	5.0	ND		05/22/97
Benzene	ug/L	5.0	ND		05/22/97
Trichloroethene	ug/L	5.0	ND		05/22/97
1,2-Dichloropropane	ug/L	5.0	ND		05/22/97
Dibromomethane	ug/L	5.0	ND		05/22/97
Bromodichloromethane	ug/L	5.0	ND		05/22/97
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND		05/22/97
cis-1,3-Dichloropropene	ug/L	5.0	ND		05/22/97
Toluene	ug/L	5.0	ND		05/22/97
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND		05/22/97
1,1,2-Trichloroethane	ug/L	5.0	ND		05/22/97

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May 28, 1997
PACE Project Number: 67C514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

PACE Sample Number:			92 0096177		
Date Collected:			05/13/97		
Date Received:			05/14/97		
Client Sample ID:			Equipment		
Parameter	Units	PRL	Blank	METHOD	DATE ANALYZED
ORGANIC ANALYSIS					
APPENDIX I, LANDFILL VOLATILES				8260	
2-Hexanone	ug/L	50	ND		05/22/97
Dibromochloromethane	ug/L	5.0	ND		05/22/97
Tetrachloroethylene	ug/L	5.0	ND		05/22/97
1,2-Dibromoethane	ug/L	5.0	ND		05/22/97
Chlorobenzene	ug/L	5.0	ND		05/22/97
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
Ethylbenzene	ug/L	5.0	ND		05/22/97
Xylenes, (total)	ug/L	5.0	ND		05/22/97
Styrene	ug/L	5.0	ND		05/22/97
Bromoform	ug/L	5.0	ND		05/22/97
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND		05/22/97
1,2,3-Trichloropropane	ug/L	5.0	ND		05/22/97
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND		05/22/97
1,4-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dichlorobenzene	ug/L	5.0	ND		05/22/97
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND		05/22/97
Surrogate - Dibromofluoromethane	%		97		05/22/97
Surrogate - Toluene-d8	%		101		05/22/97
Surrogate - 4-Bromofluorobenzene	%		105		05/22/97

These data have been reviewed and are approved for release.

Margaret S. Harding
Manager, Laboratory Operations

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FOOTNOTES
for pages 1 through 19

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

ND Not detected at or above the PRL.
PRL PACE Reporting Limit

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Arsenic
Batch: 92 59550
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142, 92 0096150

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920097572	Duplicate of 92 0097572	RPD
Arsenic	mg/L	0.005	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920097572	Spike	Spike Recv	Spike Dupl Recv	RPD
Arsenic	mg/L	0.005	ND	0.020	94%	96%	2%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Arsenic	mg/L	0.005	0.020	107%	114%	6%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Cadmium
Batch: 92 59784
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142, 92 0096150

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920096096 MW-1R	Duplicate of 92 0096096	RPD
Cadmium	mg/L	0.001	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920096096 MW-1R	Spike	Spike Recv	Spike Dupl Recv	RPD
Cadmium	mg/L	0.001	ND	0.003	103%	100%	3%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Cadmium	mg/L	0.001	0.003	93%	93%	0%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Chromium
Batch: 92 59652
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920093313	Duplicate of 92 0093313	RPD
Chromium	mg/L	0.002	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920093313	Spike	Spike Recv	Spike Dupl Recv	RPD
Chromium	mg/L	0.002	ND	0.010	92%	93%	1%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Chromium	mg/L	0.002	0.010	98%	99%	1%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Chromium
Batch: 92 59804
Samples: 92 0096150

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920096150 MW-7	Duplicate of 92 0096150	RPD
Chromium	mg/L	0.002	ND			
Chromium	mg/L	0.02		0.18	0.18	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Chromium	mg/L	0.002	0.010	78%	79%	1%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Lead
Batch: 92 59729
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142, 92 0096150

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920095847	Duplicate of 92 0095847	RPD
Lead	mg/L	0.005	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920095847	Spike	Spike Recv	Spike Dupl Recv	RPD
Lead	mg/L	0.005	ND	0.020	106%	111%	5%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Lead	mg/L	0.005	0.020	111%	112%	1%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Mercury
Batch: 92 59756
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142, 92 0096150

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920096096 MW-1R	Duplicate of 92 0096096	RPD
Mercury	mg/L	0.0002	ND	ND	ND	NC

SPIKE:

Parameter	Units	PRL	920096096 MW-1R	Spike	Spike Recv
Mercury	mg/L	0.0002	ND	0.005	100%

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Mercury	mg/L	0.0002	0.002	103%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Selenium
Batch: 92 59593
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920096878	Duplicate of 92 0096878	RPD
Selenium	mg/L	0.005	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920096878	Spike	Spike Recv	Spike Dupl Recv	RPD
Selenium	mg/L	0.005	ND	0.020	98%	98%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Selenium	mg/L	0.005	0.020	97%	95%	2%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Selenium
Batch: 92 59764
Samples: 92 0096134, 92 0096142, 92 0096150

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920097572	Duplicate of 92 0097572	RPD
Selenium	mg/L	0.005	ND	ND	ND	NC

SPIKE:

Parameter	Units	PRL	920097572	Spike	Spike Recv
Selenium	mg/L	0.005	ND	0.020	93%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Selenium	mg/L	0.005	0.020	80%	85%	6%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

Silver
Batch: 92 59516
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142, 92 0096150

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	930388400	Duplicate of 93 0388400	RPD
Silver	mg/L	0.005	ND	ND	ND	NC

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Silver	mg/L	0.005	0.010	122%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

ICP QUALITY CONTROL
Batch: 92 59553
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920097084	Duplicate of 92 0097084	RPD
Zinc	mg/L	0.010		8.8	8.8	0%
Aluminum	mg/L	0.10	ND			
Antimony	mg/L	0.20	ND			
Arsenic	mg/L	0.50	ND			
Barium	mg/L	0.010	ND			
Beryllium	mg/L	0.010	ND			
Boron	mg/L	0.10	ND			
Cadmium	mg/L	0.010	ND			
Calcium	mg/L	0.10	ND			
Chromium	mg/L	0.010	ND			
Cobalt	mg/L	0.010	ND			
Copper	mg/L	0.010	ND			
Iron	mg/L	0.050	ND			
Lead	mg/L	0.10	ND			
Magnesium	mg/L	0.20	ND			
Manganese	mg/L	0.010	ND			
Molybdenum	mg/L	0.05	ND			
Nickel	mg/L	0.05	ND			
Potassium	mg/L	1.0	ND			
Selenium	mg/L	0.50	ND			
Silver	mg/L	0.050	ND			
Sodium	mg/L	0.20	ND			
Thallium	mg/L	0.50	ND			
Tin	mg/L	0.20	ND			
Titanium	mg/L	0.010	ND			
Vanadium	mg/L	0.010	ND			
Zinc	mg/L	0.010	ND			

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

ICP QUALITY CONTROL
Batch: 92 59553
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920097084	Spike	Spike Recv	Spike Dupl Recv	RPD
Aluminum	mg/L	0.10	9.6	50	100%	100%	0%
Antimony	mg/L	0.20	ND	5.0	102%	102%	0%
Arsenic	mg/L	0.50	ND	5.0	96%	98%	2%
Barium	mg/L	0.010	0.014	5.0	99%	99%	0%
Beryllium	mg/L	0.010	ND	1.0	102%	101%	1%
Cadmium	mg/L	0.010	ND	1.0	97%	97%	0%
Calcium	mg/L	0.10	82	100	88%	87%	1%
Chromium	mg/L	0.010	0.014	1.0	96%	97%	1%
Cobalt	mg/L	0.010	ND	1.0	95%	95%	0%
Copper	mg/L	0.010	0.022	1.0	101%	101%	0%
Iron	mg/L	0.050	1.2	50	96%	95%	1%
Lead	mg/L	0.10	ND	5.0	97%	97%	0%
Magnesium	mg/L	0.20	10	50	101%	101%	0%
Manganese	mg/L	0.010	0.022	1.0	98%	98%	0%
Molybdenum	mg/L	0.05	ND	1.0	99%	99%	0%
Nickel	mg/L	0.05	ND	1.0	96%	96%	0%
Potassium	mg/L	1.0	2.1	100	107%	106%	1%
Selenium	mg/L	0.50	ND	5.0	105%	103%	2%
Silver	mg/L	0.050	ND	5.0	90%	91%	1%
Sodium	mg/L	0.20	43	50	101%	100%	1%
Thallium	mg/L	0.50	ND	5.0	95%	93%	2%
Titanium	mg/L	0.010	0.66	1.0	95%	95%	0%
Vanadium	mg/L	0.010	0.023	1.0	98%	97%	1%
Zinc	mg/L	0.010	8.8	5.0	86%	86%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Aluminum	mg/L	0.10	50	99%	98%	1%
Antimony	mg/L	0.20	5.0	102%	101%	1%
Arsenic	mg/L	0.50	5.0	94%	94%	0%
Barium	mg/L	0.010	5.0	98%	96%	2%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

ICP QUALITY CONTROL
Batch: 92 59553
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Beryllium	mg/L	0.010	1.0	99%	99%	0%
Boron	mg/L	0.10	1.0	101%	98%	3%
Cadmium	mg/L	0.010	1.0	97%	96%	1%
Calcium	mg/L	0.10	100	93%	92%	1%
Chromium	mg/L	0.010	1.0	96%	96%	0%
Cobalt	mg/L	0.010	1.0	95%	95%	0%
Copper	mg/L	0.010	1.0	98%	97%	1%
Iron	mg/L	0.050	50	95%	95%	0%
Lead	mg/L	0.10	5.0	98%	98%	0%
Magnesium	mg/L	0.20	50	100%	100%	0%
Manganese	mg/L	0.010	1.0	98%	97%	1%
Molybdenum	mg/L	0.05	1.0	97%	97%	0%
Nickel	mg/L	0.05	1.0	95%	96%	1%
Potassium	mg/L	1.0	100	104%	102%	2%
Selenium	mg/L	0.50	5.0	99%	98%	1%
Silver	mg/L	0.050	5.0	98%	96%	2%
Sodium	mg/L	0.20	50	103%	100%	3%
Thallium	mg/L	0.50	5.0	96%	94%	2%
Titanium	mg/L	0.010	1.0	98%	97%	1%
Vanadium	mg/L	0.010	1.0	97%	97%	0%
Zinc	mg/L	0.010	5.0	97%	97%	0%

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Mr. John Isham
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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

ICP QUALITY CONTROL
Batch: 92 59588
Samples: 92 0096134, 92 0096142, 92 0096150

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920097041	Duplicate of 92 0097041	RPD
INDIVIDUAL PARAMETERS						
Aluminum	mg/L	0.10		1.0	0.98	2%
Chromium	mg/L	0.010		ND	ND	NC
Zinc	mg/L	0.010		0.058	0.058	0%
ICP QUALITY CONTROL						
Copper	mg/L	0.010		0.28	0.28	0%
Aluminum	mg/L	0.10	ND			
Antimony	mg/L	0.20	ND			
Arsenic	mg/L	0.50	ND			
Barium	mg/L	0.010	ND			
Beryllium	mg/L	0.010	ND			
Boron	mg/L	0.10	ND			
Cadmium	mg/L	0.010	ND			
Calcium	mg/L	0.10	ND			
Chromium	mg/L	0.010	ND			
Cobalt	mg/L	0.010	ND			
Copper	mg/L	0.010	ND			
Iron	mg/L	0.050	ND			
Lead	mg/L	0.10	ND			
Magnesium	mg/L	0.20	ND			
Manganese	mg/L	0.010	ND			
Molybdenum	mg/L	0.05	ND			
Nickel	mg/L	0.05	ND			
Potassium	mg/L	1.0	ND			
Selenium	mg/L	0.50	ND			
Silver	mg/L	0.050	ND			
Sodium	mg/L	0.20	ND			
Thallium	mg/L	0.50	ND			
Tin	mg/L	0.20	ND			
Titanium	mg/L	0.010	ND			

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

ICP QUALITY CONTROL
Batch: 92 59588
Samples: 92 0096134, 92 0096142, 92 0096150

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	PRL	Method Blank	920097041	Duplicate of 92 0097041	RPD
Vanadium	mg/L	0.010	ND			
Zinc	mg/L	0.010	ND			

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920097041	Spike	Spike Recv	Spike Dupl Recv	RPD
Aluminum	mg/L	0.10	1.0	50	100%	100%	0%
Antimony	mg/L	0.20	ND	5.0	101%	102%	1%
Arsenic	mg/L	0.50	ND	5.0	105%	103%	2%
Barium	mg/L	0.010	0.021	5.0	99%	99%	0%
Beryllium	mg/L	0.010	ND	1.0	102%	102%	0%
Boron	mg/L	0.10	0.38	1.0	97%	99%	2%
Cadmium	mg/L	0.010	ND	1.0	99%	98%	1%
Calcium	mg/L	0.10	31	100	92%	92%	0%
Chromium	mg/L	0.010	ND	1.0	97%	97%	0%
Cobalt	mg/L	0.010	ND	1.0	97%	97%	0%
Copper	mg/L	0.010	0.28	1.0	98%	99%	1%
Iron	mg/L	0.050	0.18	50	96%	96%	0%
Lead	mg/L	0.10	ND	5.0	100%	98%	2%
Magnesium	mg/L	0.20	1.9	50	102%	101%	1%
Manganese	mg/L	0.010	ND	1.0	100%	99%	1%
Molybdenum	mg/L	0.05	ND	1.0	99%	98%	1%
Nickel	mg/L	0.05	ND	1.0	94%	92%	2%
Potassium	mg/L	1.0	8.6	100	108%	106%	2%
Selenium	mg/L	0.50	ND	5.0	98%	98%	0%
Silver	mg/L	0.050	ND	5.0	75%	76%	1%
Sodium	mg/L	0.20	23	50	101%	100%	1%
Thallium	mg/L	0.50	ND	5.0	94%	94%	0%
Tin	mg/L	0.20	ND	1.0	87%	84%	4%
Titanium	mg/L	0.010	ND	1.0	100%	100%	0%
Vanadium	mg/L	0.010	ND	1.0	99%	98%	1%

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

ICP QUALITY CONTROL
Batch: 92 59588
Samples: 92 0096134, 92 0096142, 92 0096150

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	920097041	Spike	Spike Recv	Spike Dupl Recv	RPD
Zinc	mg/L	0.010	0.058	5.0	99%	99%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Aluminum	mg/L	0.10	50	97%	96%	1%
Antimony	mg/L	0.20	5.0	101%	100%	1%
Arsenic	mg/L	0.50	5.0	103%	101%	2%
Barium	mg/L	0.010	5.0	97%	96%	1%
Beryllium	mg/L	0.010	1.0	99%	98%	1%
Boron	mg/L	0.10	1.0	98%	97%	1%
Cadmium	mg/L	0.010	1.0	98%	97%	1%
Calcium	mg/L	0.10	100	93%	92%	1%
Chromium	mg/L	0.010	1.0	97%	96%	1%
Cobalt	mg/L	0.010	1.0	96%	95%	1%
Copper	mg/L	0.010	1.0	98%	96%	2%
Iron	mg/L	0.050	50	96%	95%	1%
Lead	mg/L	0.10	5.0	98%	97%	1%
Magnesium	mg/L	0.20	50	100%	99%	1%
Manganese	mg/L	0.010	1.0	98%	97%	1%
Molybdenum	mg/L	0.05	1.0	99%	97%	2%
Nickel	mg/L	0.05	1.0	92%	91%	1%
Potassium	mg/L	1.0	100	104%	102%	2%
Selenium	mg/L	0.50	5.0	96%	96%	0%
Silver	mg/L	0.050	5.0	99%	97%	2%
Sodium	mg/L	0.20	50	100%	99%	1%
Thallium	mg/L	0.50	5.0	94%	93%	1%
Titanium	mg/L	0.010	1.0	98%	97%	1%
Vanadium	mg/L	0.010	1.0	98%	96%	2%
Zinc	mg/L	0.010	5.0	98%	97%	1%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

APPENDIX I, LANDFILL VOLATILES
Batch: 92 59811
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142, 92 0096150, 92 0096169, 92 0096177

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Methyl Chloride	ug/L	10	ND
Chloroethene (Vinyl chloride)	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	5.0	ND
Acetone	ug/L	100	ND
1,1-Dichloroethene	ug/L	5.0	ND
Methyl iodide	ug/L	5.0	ND
Acrylonitrile	ug/L	100	ND
Dichloromethane	ug/L	5.0	ND
Carbon disulfide	ug/L	5.0	ND
trans-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
Vinyl acetate	ug/L	50	ND
Methyl ethyl ketone	ug/L	100	ND
cis-1,2-Dichloroethene	ug/L	5.0	ND
Chloroform	ug/L	5.0	ND
Bromochloromethane	ug/L	5.0	ND
1,1,1-Trichloroethane	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	5.0	ND
Carbon tetrachloride	ug/L	5.0	ND
Benzene	ug/L	5.0	ND
Trichloroethene	ug/L	5.0	ND
1,2-Dichloropropane	ug/L	5.0	ND
Dibromomethane	ug/L	5.0	ND
Bromodichloromethane	ug/L	5.0	ND
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
trans-1,3-Dichloro-1-propene	ug/L	5.0	ND
1,1,2-Trichloroethane	ug/L	5.0	ND

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

APPENDIX I, LANDFILL VOLATILES
Batch: 92 59811
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142, 92 0096150, 92 0096169, 92 0096177

METHOD BLANK:

Parameter	Units	PRL	Method Blank
2-Hexanone	ug/L	50	ND
Dibromochloromethane	ug/L	5.0	ND
Tetrachloroethylene	ug/L	5.0	ND
1,2-Dibromoethane	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
1,1,1,2-Tetrachloroethane	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
Xylenes, (total)	ug/L	5.0	ND
Styrene	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
1,2,3-Trichloropropane	ug/L	5.0	ND
trans-1,4-Dichloro-2-butene	ug/L	5.0	ND
1,4-Dichlorobenzene	ug/L	5.0	ND
1,2-Dichlorobenzene	ug/L	5.0	ND
1,2-Dibromo-3-chloropropane	ug/L	5.0	ND
Surrogate - Dibromofluoromethane	%		102
Surrogate - Toluene-d8	%		92
Surrogate - 4-Bromofluorobenzene	%		109

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Methyl Chloride	ug/L	10	20	100%
Chloroethene (Vinyl chloride)	ug/L	10	20	80%
Bromomethane	ug/L	10	20	115%
Chloroethane	ug/L	10	20	95%
Trichlorofluoromethane	ug/L	5.0	20	80%
Acetone	ug/L	100	40	135%
1,1-Dichloroethene	ug/L	5.0	20	120%
Methyl iodide	ug/L	5.0	40	45%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

APPENDIX I, LANDFILL VOLATILES
Batch: 92 59811
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142, 92 0096150, 92 0096169, 92 0096177

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Acrylonitrile	ug/L	100	200	118%
Dichloromethane	ug/L	5.0	20	115%
Carbon disulfide	ug/L	5.0	40	95%
trans-1,2-Dichloroethene	ug/L	5.0	20	110%
1,1-Dichloroethane	ug/L	5.0	20	105%
Vinyl acetate	ug/L	50	40	35%
Methyl ethyl ketone	ug/L	100	40	125%
cis-1,2-Dichloroethene	ug/L	5.0	20	110%
Chloroform	ug/L	5.0	20	100%
Bromochloromethane	ug/L	5.0	20	105%
1,1,1-Trichloroethane	ug/L	5.0	20	105%
1,2-Dichloroethane	ug/L	5.0	20	105%
Carbon tetrachloride	ug/L	5.0	20	105%
Benzene	ug/L	5.0	20	105%
Trichloroethene	ug/L	5.0	20	105%
1,2-Dichloropropane	ug/L	5.0	20	110%
Dibromomethane	ug/L	5.0	20	110%
Bromodichloromethane	ug/L	5.0	20	100%
4-Methyl-2-pentanone (MIBK)	ug/L	50	40	123%
cis-1,3-Dichloropropene	ug/L	5.0	20	95%
Toluene	ug/L	5.0	20	95%
trans-1,3-Dichloro-1-propene	ug/L	5.0	20	90%
1,1,2-Trichloroethane	ug/L	5.0	20	100%
2-Hexanone	ug/L	50	40	130%
Dibromochloromethane	ug/L	5.0	20	110%
Tetrachloroethylene	ug/L	5.0	20	105%
1,2-Dibromoethane	ug/L	5.0	20	110%
Chlorobenzene	ug/L	5.0	20	110%
1,1,1,2-Tetrachloroethane	ug/L	5.0	20	105%
Ethylbenzene	ug/L	5.0	20	105%
Xylenes, (total)	ug/L	5.0	60	68%

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QUALITY CONTROL DATA

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

APPENDIX I, LANDFILL VOLATILES
Batch: 92 59811
Samples: 92 0096096, 92 0096100, 92 0096118, 92 0096126, 92 0096134
92 0096142, 92 0096150, 92 0096169, 92 0096177

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Styrene	ug/L	5.0	20	105%
Bromoform	ug/L	5.0	20	110%
1,1,2,2-Tetrachloroethane	ug/L	5.0	20	115%
1,2,3-Trichloropropane	ug/L	5.0	20	110%
trans-1,4-Dichloro-2-butene	ug/L	5.0	20	105%
1,4-Dichlorobenzene	ug/L	5.0	20	105%
1,2-Dichlorobenzene	ug/L	5.0	20	105%
1,2-Dibromo-3-chloropropane	ug/L	5.0	20	100%

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FOOTNOTES
for pages 21 through 39

May 28, 1997
PACE Project Number: 670514500

Client Reference: Winston-Salem C&D Landfill 00162-090-018

NC	No calculation due to value below detection limit.
ND	Not detected at or above the PRL.
PRL	PACE Reporting Limit
RPD	Relative Percent Difference

REPORT OF LABORATORY ANALYSIS
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Suite 1400
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Charlotte, NC 28202-5001
704 338-6700

HDR Engineering, Inc.

613151
670514.500

Chain of Custody Record

Project No.: 00162-090-018
Project Name: WINSTON-SALEM C&D LANDFILL
Parameters
☐ Environmental
Hazardous: ☒ Low ☐ Med ☐ High

Samplers: (Signature) John R. Isham
(Printed) JOHN R. ISHAM

Lab: Address: PACE INCORPORATED, 100 KINCEY AVE., HUNTERSVILLE, NC. 28078

Field Sample Number	Date	Time	Comp.	GRAB	Station Location	No. of Containers	APPENDIX I VOCS (8260)	8 RCRA METAL					Remarks
													HAND DELIVERED
MW-1R	5/13	0850		X	BACKGROUND	5	4	1					9609.6
MW-2R	5/13	0945		X	DOWNGRADIENT	5	4	1			9610.0		LOW-LEVEL DETECTION FOR METALS
MW-3	5/13	1120		X	DOWNGRADIENT	5	4	1			11.8		PH VOAS (ALL) = 1.5
MW-4R	5/13	1445		X	DOWNGRADIENT	5	4	1			12.6		PH METALS (ALL) = 1.5
MW-5R	5/13	1530		X	DOWNGRADIENT	5	4	1			13.4		
MW-6	5/13	1030		X	DOWNGRADIENT	5	4	1			14.2		
MW-7	5/13	1425		X	DOWNGRADIENT	5	4	1			15.0		
TRIP BLANK				X	SAMPLE COOLER	4	4	*			16.9		
EQUIP. BLANK	5/13	1500		X	TEFLON BAILER	4	4				17.7		

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Relinquished By: (Signature)	Date	Time	Received By: (Signature)
John R. Isham	5/14	0800	Sherri Howard				
(Printed) JOHN R. ISHAM	HDR		(Printed) Sherri Howard	(Printed)			(Printed)

Relinquished By: (Signature)	Date	Time	Received for Laboratory By: (Signature)	Date	Time	Results to:
(Printed)			(Printed)			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

HDR
HDR Engineering, Inc.

PRE-SAMPLING WELL PURGING

PROJECT WINSTON-SALEM C.D
WELL NUMBER MW-1R
WELL INSIDE DIAMETER 2 INCHES
DEPTH OF BOTTOM 60 FEET
LENGTH OF GRAVEL PACK 17 FEET
DIAMETER OF GRAVEL PACK 8 INCHES

PROJECT NUMBER 00162-090-018
DATE 5/13/97 PAGE 1 OF 1
AIR TEMPERATURE (FAHRENHEIT) 60
WEATHER CONDITIONS COOL, PT SUNNY
HNU/OVA READING NA
METHOD OF EVACUATION AND TYPE OF EQUIPMENT USED
TEFLON BAILER

WITHDRAWAL OF WELL VOLUMES

FLUSHING	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME
WATER LEVEL BEFORE	37.94				
WATER LEVEL AFTER	NA				
TIME BEGIN FLUSHING	0805				
TIME END FLUSHING	0845				
ESTIMATED VOLUME FLUSHING (gal)	0	3	6	9	12
WELL VOLUMES REMOVED	0				
FIELD ANALYSIS					
WATER TEMPERATURE (~~C~~) F°	61.0	59.75	59.50	59.50	59.50
SAMPLE (pH)	5.95	5.95	5.95	5.96	5.95
SAMPLE CONDUCTIVITY (umhos/cm)	200	140	94	94	95
BUFFER BEFORE	7.0	7.0	7.0	7.0	7.0
BUFFER AFTER	7.0	7.0	7.0	7.0	7.0
ODOR	NONE	NONE	NONE	NONE	NONE
COLOR	CLEAR	V.SL.CLDY	SAME	V. FAINT BROWN	SAME
OTHER					

COMMENTS

SAMPLED 08:50
VOAs PH = 1.5
METALS = 1.5

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)
$\pi r^2 \times h$ = WELL VOLUME IN FT^3
π = 3.14

r = RADIUS IN INCHES/12 = RADIUS IN FEET
h = HEIGHT OF WATER COLUMN IN WELL IN FEET
CONVERSION FROM FT^3 TO GALLONS = 7.48 gal/ft^3

WELL RADIUS = 1.0 IN/12 = 0.0833 FT
h = 62.60 (WELL DEPTH) - 37.94 (DEPTH TO WATER) = 24.66 FT = h
3.14 X 0.0833 (r^2) X h = 0.54 FT^3 X 7.48 gal/FT^3 = 1 WELL VOLUME IN GAL = 4.0

WELLPURG.DWG

HDR
HDR Engineering, Inc.

PRE-SAMPLING WELL PURGING

PROJECT WINSTON-SALEM C&D
WELL NUMBER MW-2R
WELL INSIDE DIAMETER 2 INCHES
DEPTH OF BOTTOM 21 FEET
LENGTH OF GRAVEL PACK 17 FEET
DIAMETER OF GRAVEL PACK 8 INCHES

PROJECT NUMBER 00162-090-018
DATE 5/13/97 PAGE 1 OF 1
AIR TEMPERATURE (FAHRENHEIT) 62
WEATHER CONDITIONS CLOUDY, COOL
HNU/OVA READING NA
METHOD OF EVACUATION AND TYPE OF EQUIPMENT USED
TEFLON BAILER

WITHDRAWAL OF WELL VOLUMES

FLUSHING	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME
WATER LEVEL BEFORE	9.97				
WATER LEVEL AFTER	NA				
TIME BEGIN FLUSHING	0910				
TIME END FLUSHING	0935				
ESTIMATED VOLUME FLUSHING (gal)	0	3	6	9	
WELL VOLUMES REMOVED	0	1.23	2.47	3.70	
FIELD ANALYSIS					
WATER TEMPERATURE (°C) F	56.0	55.0	55.25	55.25	
SAMPLE (pH)	5.93	5.89	5.87	5.92	
SAMPLE CONDUCTIVITY (umhos/cm)	120	96	87	100	
BUFFER BEFORE	7.0	7.0	7.0	7.0	
BUFFER AFTER	7.0	7.0	7.0	7.0	
ODOR	NONE	V. FAINT	NONE	NONE	
COLOR	CLEAR	GREEN-BROWN	SAME	SAME	
OTHER	IRON BACT AT BOTTOM		SL. TURBID	SAME DRY	

COMMENTS

SAMPLED 0945
VOAs pH = 1.5
METALS = 1.5

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)
$\pi r^2 \times h$ = WELL VOLUME IN FT^3
π = 3.14

r = RADIUS IN INCHES/12 = RADIUS IN FEET
h = HEIGHT OF WATER COLUMN IN WELL IN FEET
CONVERSION FROM FT^3 TO GALLONS = 7.48 gal/ft^3

WELL RADIUS = 1.0 IN/12 = 0.0833 FT
h = 24.90 (WELL DEPTH) - 9.97 (DEPTH TO WATER) = 14.93 FT = h
3.14 x 0.0833 (r^2) x h = 0.33 FT^3 x 7.48 gal/FT^3 = 1 WELL VOLUME IN GAL = 2.43

WELLPURG.DWG

HDR
HDR Engineering, Inc.

PRE-SAMPLING WELL PURGING

PROJECT WINSTON-SALEM-CCD
WELL NUMBER MW-3
WELL INSIDE DIAMETER 2 INCHES
DEPTH OF BOTTOM 40 FEET
LENGTH OF GRAVEL PACK 17 FEET
DIAMETER OF GRAVEL PACK 8 INCHES

PROJECT NUMBER 00162-090-018
DATE 5/13/97 PAGE 1 OF 1
AIR TEMPERATURE (FAHRENHEIT) 63
WEATHER CONDITIONS PT SUNNY, BREEZY
HNU/OVA READING NA
METHOD OF EVACUATION AND TYPE OF EQUIPMENT USED
TEFLON BAILER

WITHDRAWAL OF WELL VOLUMES

FLUSHING	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME
WATER LEVEL BEFORE	34.97				
WATER LEVEL AFTER	NA				
TIME BEGIN FLUSHING	10:50				
TIME END FLUSHING	11:10				
ESTIMATED VOLUME FLUSHING (gal)	0	1	3	5	6
WELL VOLUMES REMOVED	0	0.74	2.22	3.70	4.44

FIELD ANALYSIS					
WATER TEMPERATURE (~~C~~) F	60.25	59.50	59.50	60.0	
SAMPLE (pH)	5.67	5.68	5.71	5.70	
SAMPLE CONDUCTIVITY (umhos/cm)	98	98	98	98	
BUFFER BEFORE	7.0	7.0	7.0	7.0	
BUFFER AFTER	7.0	7.0	7.0	7.0	
ODOR	NONE	NONE	NONE	NONE	
COLOR	CLEAR	YELLOW BROWN	SAME	SAME	
OTHER		TURBID	SAME	SAME	

COMMENTS

SAMPLED 11:20
VOAs pH = 1.5
METALS = 1.5

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)
$\pi r^2 \times h$ = WELL VOLUME IN FT^3
π = 3.14

r = RADIUS IN INCHES/12 = RADIUS IN FEET
h = HEIGHT OF WATER COLUMN IN WELL IN FEET
CONVERSION FROM FT^3 TO GALLONS = 7.48 gal/ft^3

WELL RADIUS = 1.0 IN/12 = 0.0833 FT
h = 43.25 (WELL DEPTH) - 34.97 (DEPTH TO WATER) = 8.28 FT = h
3.14 x 0.0833 (r^2) x h = 0.18 FT^3 x 7.48 gal/FT^3 = 1 WELL VOLUME IN GAL = 1.35

WELLPURG.DWG

HDR
HDR Engineering, Inc.

PRE-SAMPLING WELL PURGING

PROJECT WINSTON-SALEM C&D
WELL NUMBER MW-4R
WELL INSIDE DIAMETER 2 INCHES
DEPTH OF BOTTOM 20 FEET
LENGTH OF GRAVEL PACK 17 FEET
DIAMETER OF GRAVEL PACK 8 INCHES

PROJECT NUMBER 00162-090-018
DATE 5/13/97 PAGE 1 OF 1
AIR TEMPERATURE (FAHRENHEIT) 63
WEATHER CONDITIONS SUNNY, BREEZY
HNU/OVA READING NA
METHOD OF EVACUATION AND TYPE OF EQUIPMENT USED
TEFLON BAILER

WITHDRAWAL OF WELL VOLUMES

FLUSHING	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME
WATER LEVEL BEFORE	9.98				
WATER LEVEL AFTER	NA				
TIME BEGIN FLUSHING	13:50				
TIME END FLUSHING	14:05				
ESTIMATED VOLUME FLUSHING (gal)	0	2	4	6	8
WELL VOLUMES REMOVED	0	1.0	2.0	3.0	4.0

FIELD ANALYSIS					
WATER TEMPERATURE (~~°C~~) F					
SAMPLE (pH)	5.95	6.00	6.00	5.97	5.98
SAMPLE CONDUCTIVITY (umhos/cm)	160	160	160	160	160
BUFFER BEFORE	7.0	7.0	7.0	7.0	7.0
BUFFER AFTER	7.0	7.0	7.0	7.0	7.0
ODOR	NONE	NONE	NONE	NONE	NONE
COLOR	CLEAR	LT BROWN	SAME	SAME	SAME
OTHER		TURBID	SAME	SAME	SAME

COMMENTS

SAMPLED 1445
VOAS pH = 1.5
METALS = 1.5

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)
$\pi r^2 \times h$ = WELL VOLUME IN FT^3
π = 3.14

r = RADIUS IN INCHES/12 = RADIUS IN FEET
h = HEIGHT OF WATER COLUMN IN WELL IN FEET
CONVERSION FROM FT^3 TO GALLONS = 7.48 gal/ft^3

WELL RADIUS = 1.0 IN/12 = 0.0833 FT
h = 22.25 (WELL DEPTH) − 9.98 (DEPTH TO WATER) = 12.27 FT = h
3.14 x 0.0833 (r^2) x h = 0.27 FT^3 x 7.48 gal/FT^3 = 1 WELL VOLUME IN GAL = 2.0

WELLPURG.DWG

HDR
HDR Engineering, Inc.

PRE-SAMPLING WELL PURGING

PROJECT WINSTON-SALEM C&D
WELL NUMBER MW-5R
WELL INSIDE DIAMETER 2 INCHES
DEPTH OF BOTTOM 30 FEET
LENGTH OF GRAVEL PACK 17 FEET
DIAMETER OF GRAVEL PACK 8 INCHES

PROJECT NUMBER 00162-090-018
DATE 5/13/97 PAGE 1 OF 1
AIR TEMPERATURE (FAHRENHEIT) 65
WEATHER CONDITIONS PT SUNNY
HNU/OVA READING NA
METHOD OF EVACUATION AND TYPE OF EQUIPMENT USED
TEFLON BAILER

WITHDRAWAL OF WELL VOLUMES

FLUSHING	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME
WATER LEVEL BEFORE	13.00				
WATER LEVEL AFTER	NA				
TIME BEGIN FLUSHING	1500				
TIME END FLUSHING	1520				
ESTIMATED VOLUME FLUSHING (gal)	0	2	4	8	10
WELL VOLUMES REMOVED	0	0.64	1.28	2.56	3.19

FIELD ANALYSIS					
WATER TEMPERATURE (~~C~~) F	57.50	57.00	57.00	57.00	57.00
SAMPLE (pH)	6.12	6.15	6.14	6.12	6.16
SAMPLE CONDUCTIVITY (umhos/cm)	160	160	210	[illegible]	180
BUFFER BEFORE	7.0	7.0	7.0	7.0	7.0
BUFFER AFTER	7.0	7.0	7.0	7.0	7.0
ODOR	NONE	NONE	NONE	NONE	NONE
COLOR	CLEAR	SL. CLOUDY	CT. YELLOW BROWN	SAME	SAME
OTHER					

COMMENTS

SAMPLED 1530
VOAs pH = 1.5
METALS = 1.5

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)
$\pi r^2 \times h$ = WELL VOLUME IN FT^3
π = 3.14

r = RADIUS IN INCHES/12 = RADIUS IN FEET
h = HEIGHT OF WATER COLUMN IN WELL IN FEET
CONVERSION FROM FT^3 TO GALLONS = 7.48 gal/ft^3

WELL RADIUS = 1.0 IN/12 = 0.0833 FT
h = 32.20 (WELL DEPTH) − 13.00 (DEPTH TO WATER) = 19.20 FT = h
3.14 x 0.0833 (r^2) X h = 0.42 FT^3 X 7.48 gal/FT^3 = 1 WELL VOLUME IN GAL = 3.13

WELLPURG.DWG

HDR
HDR Engineering, Inc.

PRE-SAMPLING WELL PURGING

PROJECT WINSTON-SALEM C&D
WELL NUMBER MW-6
WELL INSIDE DIAMETER 2 INCHES
DEPTH OF BOTTOM 60 FEET
LENGTH OF GRAVEL PACK 17 FEET
DIAMETER OF GRAVEL PACK 8 INCHES

PROJECT NUMBER 00162-090-018
DATE 5/13/97 PAGE 1 OF 1
AIR TEMPERATURE (FAHRENHEIT) 62
WEATHER CONDITIONS CLOUDY, COOL
HNU/OVA READING NA
METHOD OF EVACUATION AND TYPE OF EQUIPMENT USED
TEFLON BAILER

WITHDRAWAL OF WELL VOLUMES

	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME
FLUSHING					
WATER LEVEL BEFORE	49.98				
WATER LEVEL AFTER	NA				
TIME BEGIN FLUSHING	10:00				
TIME END FLUSHING	10:25				
ESTIMATED VOLUME FLUSHING (gal)	0	2	4	6	8
WELL VOLUMES REMOVED	0	0.98	1.96	2.94	3.92
FIELD ANALYSIS					
WATER TEMPERATURE (~~C~~)F	59.0	59.0	58.50	58.75	59.0
SAMPLE (pH)	5.86	5.81	5.83	5.84	5.83
SAMPLE CONDUCTIVITY (umhos/cm)	80	75	74	73	73
BUFFER BEFORE	7.0	7.0	7.0	7.0	7.0
BUFFER AFTER	7.0	7.0	7.0	7.0	7.0
ODOR	NONE	NONE	NONE	NONE	NONE
COLOR	CLEAR	FAINT YELL-BROWN	SAME	ORANGE	SAME
OTHER			SL. TURBID	TURBID	SAME

COMMENTS

SAMPLED 10:30
VOAs PH = 1.5
METALS = 1.5

WELL VOLUME CALCULATIONS (1cf = 7.48 gal)
$\pi r^2 \times h$ = WELL VOLUME IN FT^3
π = 3.14
r = RADIUS IN INCHES/12 = RADIUS IN FEET
h = HEIGHT OF WATER COLUMN IN WELL IN FEET
CONVERSION FROM FT^3 TO GALLONS = 7.48 gal/ft^3

WELL RADIUS = 1.0 IN/12 = 0.0833 FT
h = 62.50 (WELL DEPTH) - 49.98 (DEPTH TO WATER) = 12.52 FT = h
3.14 x 0.0833 (r^2) x h = 0.27 FT^3 x 7.48 gal/FT^3 = 1 WELL VOLUME IN GAL = 2.04

WELLPURG.DWG

HDR
HDR Engineering, Inc.

PRE-SAMPLING WELL PURGING

PROJECT [redacted]NSTON-SALEM C&D
WELL NUMBER MW-7
WELL INSIDE DIAMETER 2 INCHES
DEPTH OF BOTTOM 48 FEET
LENGTH OF GRAVEL PACK 17 FEET
DIAMETER OF GRAVEL PACK 8 INCHES

PROJECT NUMBER 00162-090-018
DATE 5/13/97 PAGE 1 OF 1
AIR TEMPERATURE (FAHRENHEIT) 68
WEATHER CONDITIONS SUNNY, BREEZY
HNU/OVA READING NA
METHOD OF EVACUATION AND TYPE OF EQUIPMENT USED
TEFLON BAILER

WITHDRAWAL OF WELL VOLUMES

	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME	WELL VOLUME
FLUSHING					
WATER LEVEL BEFORE	35.00				
WATER LEVEL AFTER	NA				
TIME BEGIN FLUSHING	13:10				
TIME END FLUSHING	13:35				
ESTIMATED VOLUME FLUSHING (gal)	0	2	4	6	8
WELL VOLUMES REMOVED	0	0.93	1.85	2.78	3.70
FIELD ANALYSIS					
WATER TEMPERATURE (~~C~~)F					
SAMPLE (pH)	5.74	5.79	5.77	5.78	5.79
SAMPLE CONDUCTIVITY (umhos/cm)	100	90	87	88	88
BUFFER BEFORE	7.0	7.0	7.0	7.0	7.0
BUFFER AFTER	7.0	7.0	7.0	7.0	7.0
ODOR	NONE	NONE	NONE	NONE	NONE
COLOR	CLOUDY	GREEN-BROWN	SAME	BROWN	SAME
OTHER		TURBID	SAME	TURBID	SAME

COMMENTS

SAMPLED 1425
VOAS pH = 1.5
METALS = 1.5

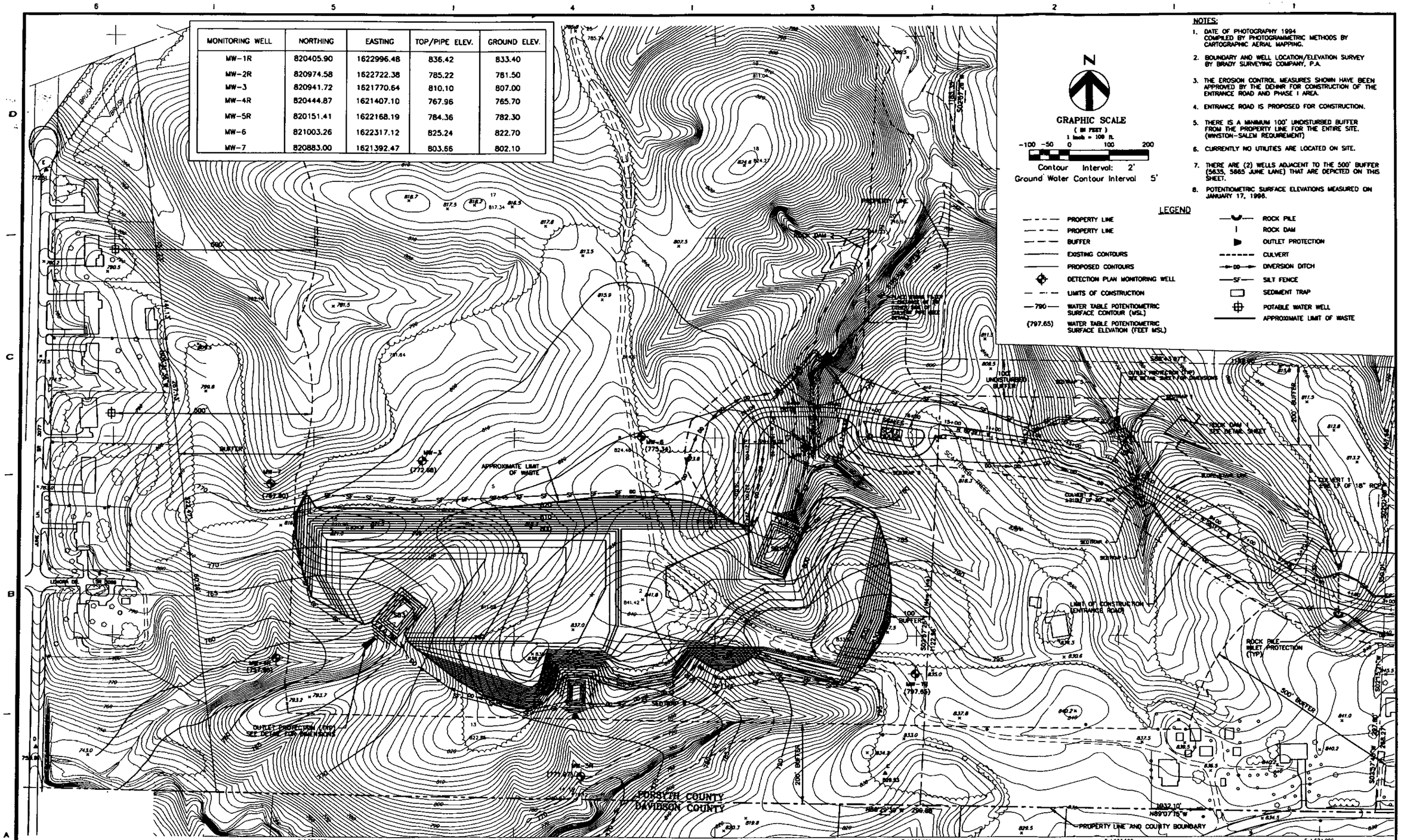
WELL VOLUME CALCULATIONS (1cf = 7.48 gal)
$\pi r^2 \times h$ = WELL VOLUME IN FT^3
π = 3.14

r = RADIUS IN INCHES/12 = RADIUS IN FEET
h = HEIGHT OF WATER COLUMN IN WELL IN FEET
CONVERSION FROM FT^3 TO GALLONS = 7.48 gal/ft^3

WELL RADIUS = 1.0 IN/12 = 0.0833 FT
h = 48.25 (WELL DEPTH) − 35.00 (DEPTH TO WATER) = 13.25 FT = h
3.14 x 0.0833 (r^2) x h = 0.29 FT^3 x 7.48 gal/FT^3 = 1 WELL VOLUME IN GAL = 2.76

WELLPURG.DWG

MONITORING WELL	NORTHING	EASTING	TOP/PIPE ELEV.	GROUND ELEV.
MW-1R	820405.90	1622996.48	836.42	833.40
MW-2R	820974.58	1622722.38	785.22	781.50
MW-3	820941.72	1621770.64	810.10	807.00
MW-4R	820444.87	1621407.10	767.96	765.70
MW-5R	820151.41	1622168.19	784.36	782.30
MW-6	821003.26	1622317.12	825.24	822.70
MW-7	820883.00	1621392.47	803.66	802.10



NOTES:

1. DATE OF PHOTOGRAPHY 1994 COMPILED BY PHOTOGRAMMETRIC METHODS BY CARTOGRAPHIC AERIAL MAPPING.
2. BOUNDARY AND WELL LOCATION/ELEVATION SURVEY BY BRADY SURVEYING COMPANY, P.A.
3. THE EROSION CONTROL MEASURES SHOWN HAVE BEEN APPROVED BY THE DEHNR FOR CONSTRUCTION OF THE ENTRANCE ROAD AND PHASE I AREA.
4. ENTRANCE ROAD IS PROPOSED FOR CONSTRUCTION.
5. THERE IS A MINIMUM 100' UNDISTURBED BUFFER FROM THE PROPERTY LINE FOR THE ENTIRE SITE. (WINSTON-SALEM REQUIREMENT)
6. CURRENTLY NO UTILITIES ARE LOCATED ON SITE.
7. THERE ARE (2) WELLS ADJACENT TO THE 500' BUFFER (5635, 5865 JUNE LANE) THAT ARE DEPICTED ON THIS SHEET.
8. POTENTIOMETRIC SURFACE ELEVATIONS MEASURED ON JANUARY 17, 1996.

HDR

HDR Engineering, Inc.

Project Manager: J. READLING, P.E.

Drawn By: D. CURRY

PROPOSED CONSTRUCTION AND DEMOLITION LANDFILL GROUND-WATER MONITORING PLAN

WINSTON-SALEM NORTH CAROLINA

PHASE I GROUND-WATER MONITORING WELL LOCATIONS

Date: JANUARY 1996

Scale: 1" = 100'

Project No.: 00162-082-018

Sheet No.: 1

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