

Resampling 3  
MW-6R

34-12

March 2, 2004

Fac/Perm/Co ID # AC	Date 3/18/04	Doc ID# DIN
------------------------	-----------------	----------------

Mr. Larry Rose  
 North Carolina Department of Environment  
 and Natural Resources (NCDENR)  
 Division of Solid Waste Management  
 Solid Waste Section  
 P. O. Box 27687  
 Raleigh, NC 27611-7687



Re: Fall 2003 Semiannual Groundwater Re-Sampling Analytical  
 Monitoring Results  
 Winston-Salem Construction and Demolition (C&D) Landfill (No. 34-12)  
 Forsyth County, North Carolina  
 HDR Project No. 00162-3925-018

Dear Mr. Rose:

HDR Engineering, Inc. of the Carolinas (HDR), on behalf of the Winston-Salem City/County Utility Commission (the City), is hereby submitting the groundwater re-sampling results for monitoring well MW-6R at the C&D Landfill (the Landfill) located in Forsyth County, North Carolina.

Acetone was detected in this well during the regular fall 2003 monitoring period (July through December 2003). It was the only Volatile organic compound (VOC) detected during that sampling event and at a concentration well below its 2L Standard. Based on past groundwater monitoring, the detection of acetone was probably due to laboratory error. Acetone is commonly used in laboratories as a cleaning agent during equipment preparation. Regardless, the City requested that this well be re-sampled.

March 2, 2004  
Mr. Larry Rose  
Page 2

A groundwater sample was collected from detection monitoring well MW-6R on December 9, 2003, for acetone analysis. Field measurements of pH, specific conductance, and temperature were recorded during pre-sampling well purging on field forms, which will be provided upon request. Acetone was not detected in the groundwater at monitoring well MW-6R during this recent re-sampling. This verifies that the previous detection of acetone to have been erroneous. The Report of Laboratory Analysis for this sampling event at the Landfill is attached to this letter.

If you have any questions or comments concerning the information summarized in this letter or in the attached analytical data report, please do not hesitate to contact me at (704) 338-6777.

Sincerely,



Chris Randazzo  
Staff Geologist

CR/eas

Attachments: Report of Laboratory Analysis Sheets

cc: Edward Gibson, PE, Winston-Salem City/County Utility Commission  
File



**Pace Analytical Services, Inc.**  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

December 17, 2003

Mr. Chris Randazzo  
HDR Engineering  
128 S. Tryon St. Suite 1400  
Charlotte, NC 28202

RE: Lab Project Number: 9255428  
Client Project ID: W-S OSR 00162-3925-002

Dear Mr. Randazzo:

Enclosed are the analytical results for sample(s) received by the laboratory on December 9, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Bonnie Kamla  
Bonnie.Kamla@pacelabs.com  
Project Manager

Enclosures

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.

### Asheville Certification IDs

NC Wastewater 40  
NC Drinking Water 37712  
SC Environmental 99030



### Charlotte Certification IDs

NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

Lab Project Number: 9255428  
Client Project ID: W-S OSR 00162-3925-002

Lab Sample No: 923612576      Project Sample Number: 9255428-001      Date Collected: 12/09/03 15:00  
Client Sample ID: MW-6R      Matrix: Water      Date Received: 12/09/03 16:19

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC/MS Volatiles</b>									
GC/MS VOCs by 8260	Method: EPA 8260								
Acetone	ND	ug/l	10.	1.0	12/16/03 12:04	DLK	67-64-1		
Toluene-d8 (S)	97	x		1.0	12/16/03 12:04	DLK	2037-26-5		
4-Bromofluorobenzene (S)	91	x		1.0	12/16/03 12:04	DLK	460-00-4		
Dibromofluoromethane (S)	107	x		1.0	12/16/03 12:04	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	x		1.0	12/16/03 12:04	DLK	17060-07-0		

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.

Asheville Certification IDs  
NC Wastewater 40  
NC Drinking Water 37712  
SC Environmental 99030



Charlotte Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

---

**PARAMETER FOOTNOTES**

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville Laboratory and Organic testing was performed at our Pace Charlotte Laboratory unless otherwise footnoted.

ND Not detected at or above adjusted reporting limit  
NC Not Calculable  
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit  
MDL Adjusted Method Detection Limit  
(S) Surrogate

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.



**QUALITY CONTROL DATA**

Lab Project Number: 9255428  
Client Project ID: W-S OSR 00162-3925-002

QC Batch: 87295  
QC Batch Method: EPA 8260  
Associated Lab Samples: 923612576

Analysis Method: EPA 8260  
Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 923634117  
Associated Lab Samples: 923612576

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	10.	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	98		
1,2-Dichloroethane-d4 (S)	%	88		

LABORATORY CONTROL SAMPLE: 923634133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Acetone	ug/l	100.00	71.45	71	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				94	
Dibromofluoromethane (S)				98	
1,2-Dichloroethane-d4 (S)				91	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923634141 923634158

Parameter	Units	923613137 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Toluene-d8 (S)						100	96		
4-Bromofluorobenzene (S)						96	98		
Dibromofluoromethane (S)						90	103		
1,2-Dichloroethane-d4 (S)						88	97		

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.



Charlotte Certification IDs

NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

Asheville Certification IDs

NC Wastewater 40  
NC Drinking Water 37712  
SC Environmental 99030

---

## QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference
- (S) Surrogate

Date: 12/17/03

Page: 4 of 4

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.

Asheville Certification IDs  
NC Wastewater 40  
NC Drinking Water 37712  
SC Environmental 99030



Charlotte Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

