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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

WATERS EDGE ENVIRONMENTAL

RECEIVED JAN 13 2010 DIVISION OF SOLID WASTE SECTION

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: PHILLIP RAHN Phone: 919.219.5826

E-mail: PRAHN@WATERSEDGEENV.COM

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
FORMER WILEY DAVIS LANDFILL	WILEY DAVIS ROAD GREENSBORO, N.C.	41-B		NOVEMBER 18, 2009

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☐ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☐ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

PHILLIP RAHN PRESIDENT 919.219.5820

Facility Representative Name (Print) Title (Area Code) Telephone Number

Signature 1.8.10 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

Nov 2009 Sampling

November 2009 Ground and Surface Water Sampling Report
Former Wiley Davis Landfill
Wiley Davis Road
Greensboro, North Carolina
Permit #41-B
January 7, 2010

RECEIVED
JAN 13 2010
SOLID WASTE SECTION

Prepared For Submittal To

Griffin Industrial Services, LLC
Greensboro, North Carolina 27407

Prepared By

Waters Edge Environmental, LLC
Raleigh, North Carolina

WATERS EDGE ENVIRONMENTAL, LLC
4901 WATERS EDGE DRIVE, SUITE 201 • RALEIGH, NC 27606 • PHONE 919.859.9987 • FAX 919.859.9930

January 7, 2010

Mr. David Griffin, Jr.
Griffin Industrial Services, LLC
4700 Hilltop Road
Greensboro, North Carolina 27407

Reference: November 2009 Ground and Surface Water Sampling Report
Former Wiley David Landfill
Wiley Davis Road
Greensboro, North Carolina
Permit #41-B
Waters Edge Job No. R5-34

Dear Mr. Griffin:

Waters Edge Environmental has completed the November 2009 ground and surface water sampling event at the above mentioned facility.

If you have any questions regarding the information contained herein, please do not hesitate to contact our office at 919.859.9987.

Sincerely,

WATERS EDGE ENVIRONMENTAL, LLC

Phillip L Rahn, P.G.
President

cc: Mr. Matt Gamble- NCDENR

09-140/PLR/aht

Table of Contents

1	**Introduction**	**1**
2	**Ground Water Sampling Activities**	**1**
2.1	*Monitor Well Sampling*	*1*
2.2	*Surface Water Sampling*	*1*
3	**Assessment Results**	**2**
3.1	*Ground Water Conditions*	*2*
3.2	*Ground Water Laboratory Analytical Results*	*2*
3.3	*Surface Water Laboratory Analytical Results*	*3*
4	**Conclusions and Recommendations**	**3**

Figures

Figure No.	Title
1	Site Location Map
2	Aerial Photograph Map
3	Ground Water Potentiometric Surface (11.18.09)

Tables

Table No.	Title
1	Ground Water Elevation Data
2	Hydraulic Gradient Data
3	Ground Water / Surface Water Analytical Results

Appendices

Appendix	Title
A	Laboratory Analytical Results

November 2009 Ground and Surface Water Sampling Report
Former Wiley Davis Landfill
Wiley Davis Road
Greensboro, North Carolina
Permit #41-B
January 7, 2010

1 Introduction

A ground water and surface water assessment is ongoing at the former Wiley Davis Landfill (Permit #41-B) located on Wiley Davis Road in Greensboro, North Carolina (see Figures 1 and 2). The purpose of this assessment is to determine the presence, extent, and concentration of contaminants present in ground water and/or surface water, the horizontal and vertical extent of contamination which may originate from the landfill, the direction and rate of migration of the contaminants in the ground water, and the possible source(s) of contamination detected in the ground water and/or surface water.

This assessment is being performed in accordance with the *Water Quality Monitoring Plan* (Babb & Associates, P.A. and EcoLogic Associates, P.C. - Revised August 1999) and the *Groundwater Assessment Plan* (Babb & Associates, P.A. and EcoLogic Associates, P.C. - Revised August 1999). The 2005, the sampling responsibilities have been contracted with Waters Edge Environmental, LLC (Waters Edge).

Herein contains an account of the field sampling, laboratory analytical results and our conclusions and recommendations for the site.

2 Ground Water Sampling Activities

2.1 Monitor Well Sampling

On November 18th, 2009, a Waters Edge environmental technician was mobilized to the site for the ground water sampling activities. Prior to the sampling event, depth-to-ground water measurements were made to the nearest 0.01 foot at each monitoring well using an electric water level indicator (see Tables 1 and 2).

Ground water samples were collected from wells WD-1, WD-2, WD-2D, WD-3, WD-3D, WD-4, WD-4D and WD-7. Ground water samples were analyzed for volatile organic compounds (VOCs) and tetrahydrofuran (THF) according to EPA Method 8260B and total RCRA metals (Method 6010- see summary of analytical results in Table 3 and documentation in Appendix A).

2.3 Surface Water Sampling

On November 18th, 2009, both an upgradient (SW-1- see Figure 2) and downgradient (SW-2- see Figure 2) surface water samples were collected and analyzed for VOCs and THF

according to EPA Method 8260B and total RCRA metals (Method 6010- see summary of analytical results in Table 3 and documentation in Appendix A).

3 Assessment Results

3.1 Ground Water Conditions

November 18th, 2009 water level measurements collected from the shallow wells indicate that the shallow water table elevations range from 816.05 feet (WD-7) to 786.01 feet (WD-4) above mean sea level (msl). We would add that WD-2 has not been surveyed to add as a data point. The ground water elevations continue to indicate an overall southwesterly flow direction for shallow ground water. The horizontal hydraulic gradient of the shallow water table has an average gradient of 0.0161 ft/ft (see Figure 3)

The vertical gradient was calculated to be 0.0589 ft/ft downward between wells WD-3 and WD-3D and -0.0927 upward between wells WD-4 and WD-4D. We would also note that WD-2/WD-2D have not been surveyed.

3.2 Ground Water Laboratory Analytical Results

Laboratory analysis of ground water samples collected had the following exceedances of North Carolina Groundwater Standards (NCGS):

WD-2- This well had the following NCGS exceedances:

- Benzene at 1.9 μg/L versus a NCGS at 1 μg/L
- THF at 160 μg/L μg/L versus a North Carolina Occupational and Environmental Epidemiology Branch Recommended 2L Standard of 4.6 μg/L (there is no codified NCGS)

WD-2D- This well had the following NCGS exceedances:

- Benzene at 1.2 μg/L versus a NCGS at 1 μg/L
- Chlorobenzene at 55 μg/L versus a NCGS at 50 μg/L
- THF at 120 μg/L versus a North Carolina Occupational and Environmental Epidemiology Branch Recommended 2L Standard of 4.6 μg/L (there is no codified NCGS)

WD-3- This well had the following NCGS exceedances:

- THF at 28 μg/L versus a North Carolina Occupational and Environmental Epidemiology Branch Recommended 2L Standard of 4.6 μg/L (there is no codified NCGS)

WD-3D- This well had the following NCGS exceedances:

- THF at 10 μg/L versus a North Carolina Occupational and Environmental Epidemiology Branch Recommended 2L Standard of 4.6 μg/L (there is no codified NCGS)

WD-4- This well had the following NCGS exceedances:

- THF at 20 μg/L versus a North Carolina Occupational and Environmental Epidemiology Branch Recommended 2L Standard of 4.6 μg/L (there is no codified NCGS)

WD-7- This well had the following NCGS exceedances:

- Chromium at 170 μg/L versus a NCGS at 50 μg/L

3.3 Surface Water Laboratory Analytical Results

Low levels of one inorganic was detected in upstream sampling point SW-1 (barium at 150 μg/L) and downstream sampling point SW-2 had one inorganic (barium at 160 μg/L); however, no applicable Class C surface water standards were exceeded (15A NCAC 2B .0211).

4 Conclusions and Recommendations

Information gathered during ground water assessment activities to date indicates the general shallow and deep ground water flow direction (horizontal gradient) beneath the site to be to the southwest. Using a horizontal hydraulic gradient of 0.0161 ft/ft and assuming an average hydraulic conductivity in saprolite of 1E-5 cm/sec and an effective porosity of 0.25, the rate of horizontal ground water migration would be on the order of 0.666 ft/year.

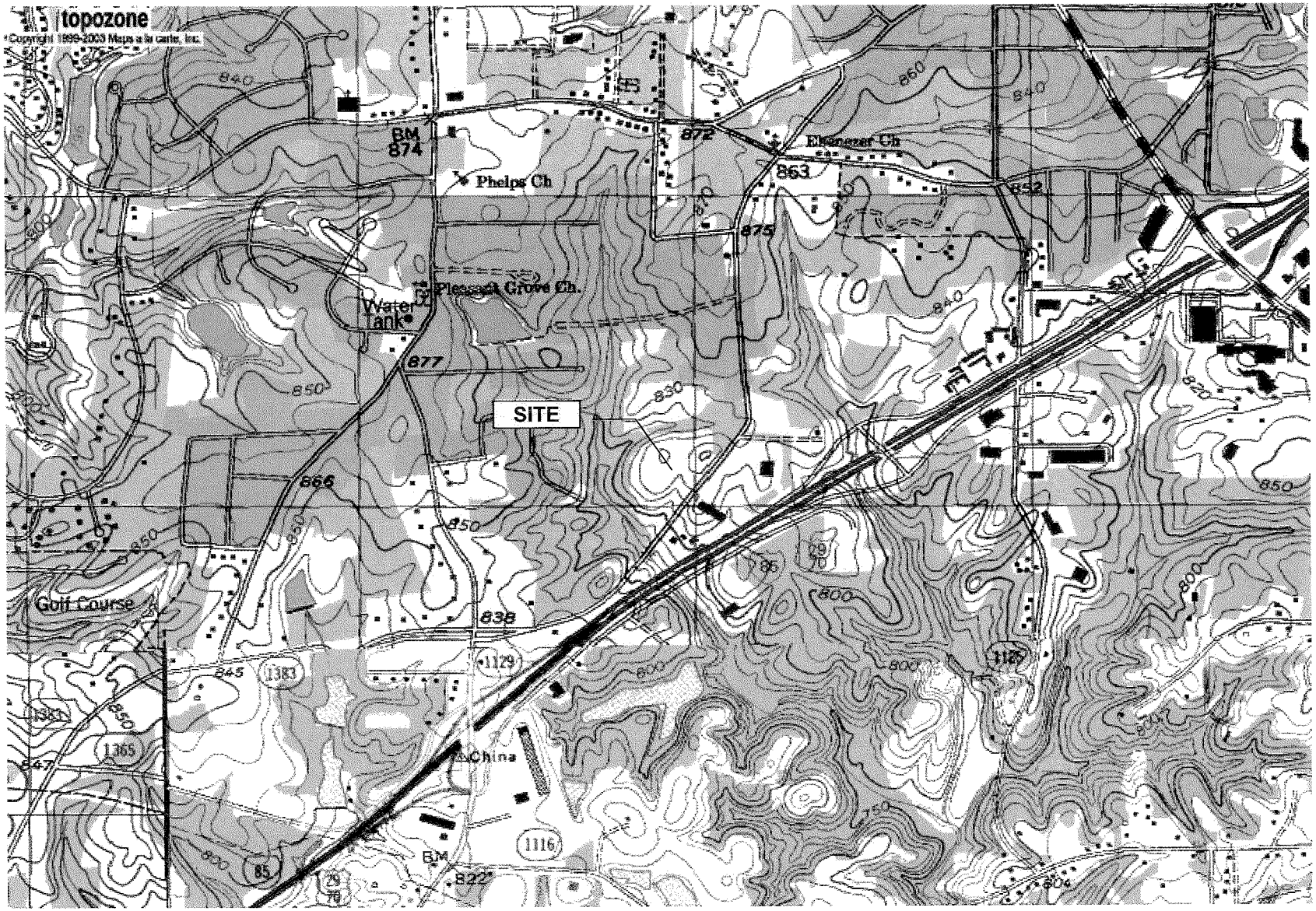
Now that the landfill is no longer active and has been graded to shed runoff and covered, the infiltration of rainfall should be significantly reduced. It follows that the driving head inside the landfill will gradually decline and both the quantity and rate of leachate production and release should decrease proportionately. Leachate strength should also continue to decline as the waste stabilizes, with no further introduction of potential

contaminants. Based on these recent results, we would conclude that a continued positive trend in ground water quality downgradient of the landfill has occurred.

There were several low level NCGS exceedances and THF was detected at low concentrations in five of the wells sampled ranging from 10 μg/L (WD-3D) to 160 μg/L (WD-2) which is above the interim NCGS at 4.6 μg/L. Based upon our research into THF uses, it appears that one major use is for PVC pipe cement which could have been mistakenly used in the older monitoring wells; however, in that it was also detected in the recently installed monitoring wells, it must be included as a constituent of concern.

Only one RCRA metal was detected in surface water samples (barium) at concentrations well below the 2B standards. As such, we conclude that no measurable impacts to surface water by VOCs or metals have been identified during this assessment.

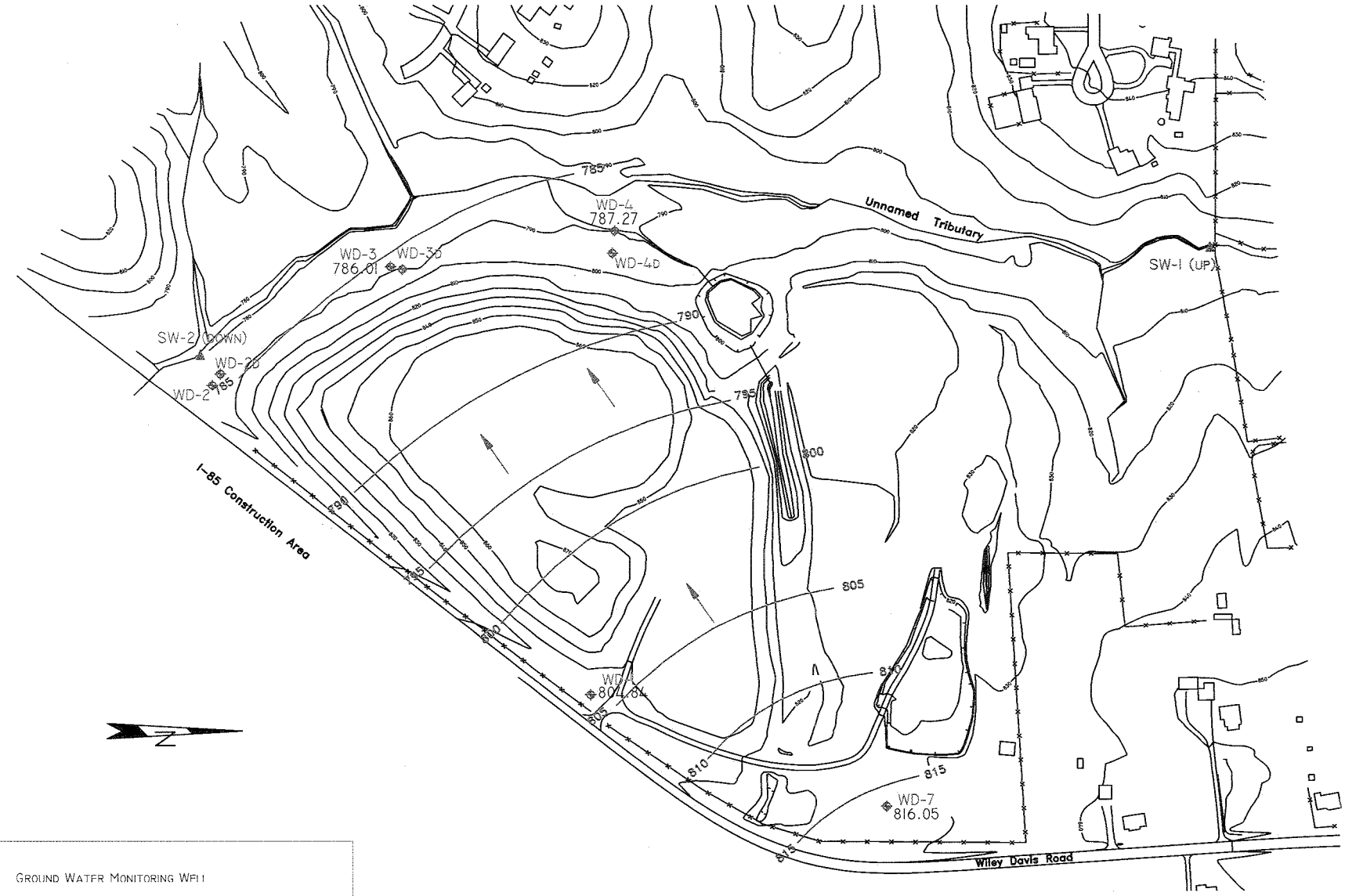
Given the aforementioned conclusions, it is our recommendation to Wiley Davis Landfill, Inc. that monitoring of the current system is continued on a semi-annual schedule in accordance with the post-closure conditions specified in the Division of Waste Management's closure letter dated May 23, 2000. We recommend continuation of the semiannual sampling during May 2010. We would also recommend that WD-2 and WD-2D be surveyed for both horizontal and vertical control.



WATERS EDGE ENVIRONMENTAL, LLC	*Author*	*Drawing* R5-34.xls	*Quad* Greensboro	*Date* 7/6/2005	*Title* Project Location Map
	Job No. R5-34	*Report Date*	*Figure* 1	*Scale* as shown	*Project* Wiley Davis Landfill Greensboro, North Carolina

GUILFORD COUNTY SPATIAL DATA EXPLORER
2003

WATERS EDGE ENVIRONMENTAL, LLC	*Author*	*Drawing* R5-34.xls	*Layers*	*Date* 7/6/2005	*Title* Aerial Photograph Map
	Job No. R5-34	*Revision*	*Figure* 2	*Scale* unknown	*Project* Wiley Davis Landfill Greensboro, North Carolina



LEGEND

- GROUND WATER MONITORING WELL
- SURFACE WATER SAMPLE LOCATION
- GROUND WATER CONTOUR
- TOPOGRAPHIC CONTOUR
- 804.33 GROUND WATER ELEVATION

WATERS EDGE ENVIRONMENTAL, LLC

Author	Drawing	Layers	Date	Title
Babb & Ass / aht	09-140 F03		1.6.10	Shallow Ground Water Contour Map (Data Collected Nov 18, 2009)
Job No.	**Revision**	**Figure**	**Scale**	**Project**
R5-34	1.6.10	3	1" = 300'	Wiley Davis Landfill Greensboro, North Carolina

WATERS EDGE ENVIRONMENTAL, LLC
4901 WATERS EDGE DRIVE, SUITE 201 • RALEIGH, NC 27606 • PHONE 919.859.9987 • FAX 919.859.9930

North Carolina Groundwater/Surface Water Exceedance Notification (November 18th, 2009)

Well	Parameter	Concentration (µg/L)	NCGS (µg/L)
WD-2	Benzene	1.9	1.0
WD-2	THF	160	4.6*
WD-2D	Benzene	1.2	1.0
WD-2D	Chlorobenzene	55	50
WD-2D	THF	120	4.6*
WD-3	THF	28	4.6*
WD-3D	THF	10	4.6*
WD-4	THF	20	4.6*
WD-7	Chromium	170	50

Table 1. **Monitoring Well Reference Points and Ground Water Elevaltions**
Wiley Davis Landfill, Greensboro, North Carolina

Well ID	Reference Point Elevation	Water Level Measurement (11.18.09)	Water Level Elevation
WD-1	836.65	31.81	804.84
WD-3	791.35	5.34	786.01
WD-3D	793.79	10.02	783.77
WD-4	793.28	6.01	787.27
WD-4D	799.11	7.53	791.58
WD-7	828.08	12.03	816.05

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-1

Parameter	Units	2L Standard	Aug-90	Mar-91	Apr-91	May-93	Oct-93	Apr-94	Feb-96	Aug-96	Apr-97	Nov-97	Oct-98
Volatile Organic Compounds													
Benzene	ug/L	1.0	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
bis-(2-ethylhexyl) phthalate	ug/L	3.0	.	Not Sampled	Not Sampled	**16**	.	.	.	.	.	.	.
Chlorobenzene	ug/L	50	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Chloroethane	ug/L	2,800	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Chloromethane	ug/L	3	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Chlorofluoromethane	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
di-n-butyl phthalate	ug/L	700	12	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
1,3-Dichlorobenzene	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Methyl Iodide	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
4-(o-cresol) Methylphenol	ug/L	3.5	.	Not Sampled	Not Sampled	.	.	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	21	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
N-Nitrosodiphenylamine	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Tetrahydrofuran	ug/L	4.6*	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Trichlorofluoromethane	ug/L	2,100	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Total VOCs	**ug/L**	**--**	**12**			**16**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Metals (total)													
Arsenic	mg/l	0.05	.	Not Sampled	NA	.	NA	.	.	.	.	.	.
Barium	mg/l	2.0	0.380	Not Sampled	0.580	0.314	NA	0.450	0.300	0.270	0.291	0.320	0.200
Cadmium	mg/l	0.005	.	Not Sampled	NA	.	NA	.	.	.	**0.006**	.	.
Chromium	mg/l	0.05	**0.160**	Not Sampled	**0.360**	0.050	NA	**0.070**	0.040	.	**0.110**	**0.071**	**0.084**
Lead	mg/l	0.015	.	Not Sampled	0.006	.	NA	.	.	.	.	.	.
Mercury	mg/l	0.0011	.	Not Sampled	NA	.	NA	.	.	.	.	.	.
Selenium	mg/l	0.05	.	Not Sampled	NA	.	NA	.	.	.	.	.	.
Silver	mg/l	0.018	.	Not Sampled	NA	.	NA	.	.	.	.	.	.

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-1 (continued)

Parameter	Units	2L Standard	Nov-07	May-08	Nov-08	May-09	Nov-09
Volatile Organic Compounds							
Benzene	ug/L	1.0	.	.	.	.	.
bis-(2-ethylhexyl) phthalate	ug/L	3.0	.	.	.	.	NA
Chlorobenzene	ug/L	50	.	.	.	.	.
Chloroethane	ug/L	2,800	.	.	.	.	.
Chloromethane	ug/L	3	.	.	.	.	.
Chlorofluoromethane	ug/L	No Standard	.	.	NA	NA	NA
di-n-butyl phthalate	ug/L	700	.	.	NA	NA	NA
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	.	.	.	.	.
1,3-Dichlorobenzene	ug/L	No Standard	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	.	.	.	.
Methyl Iodide	ug/L	NS	NA	NA	NA	NA	NA
4-(o-cresol) Methylphenol	ug/L	3.5	.	.	NA	NA	NA
Naphthalene	ug/L	21	.	.	.	.	.
N-Nitrosodiphenylamine	ug/L	No Standard	.	.	NA	NA	NA
Tetrahydrofuran	ug/L	4.6*	.	.	.	.	.
Trichlorofluoromethane	ug/L	2,100	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	.	.	.	.	.
Total VOCs	**ug/L**	--	**0**	**0**	**0**	**0**	**0**

Metals (total)							
Arsenic	mg/l	0.05	.	.	.	.	.
Barium	mg/l	2.0	0.47	0.46	0.40	0.41	0.48
Cadmium	mg/l	0.005	.	0.0012	.	.	.
Chromium	mg/l	0.05	**0.052**	**0.096**	0.044	0.025	0.040
Lead	mg/l	0.015	.	.	.	.	.
Mercury	mg/l	0.0011	.	.	.	.	.
Selenium	mg/l	0.05	.	.	.	.	.
Silver	mg/l	0.018	.	0.0074	.	.	.

Not Sampled

Not Sampled

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-2s (continued)

Parameter	Units	2L Standard	Mar-00	Nov-06	Jun-07	Nov-07	May-08	Nov-08	May-09	Nov-09
Volatile Organic Compounds										
Benzene	ug/L	1.0	.	**1.9**	**1.7**	**1.8**	**1.8**	**1.6**	**1.5**	**1.9**
sec-butylbenzene	ug/L	70.0	.	.	.	.	2.0	.	.	.
Chlorobenzene	ug/L	50	**94**	7.3	.	.	.	.	.	.
Chloroethane	ug/L	2,800	.	.	.	.	.	.	.	.
Chloromethane	ug/L	2.6	.	1.6	.	.	.	.	.	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	5.0	1.8	.	.	.	.	.	.
1,3-Dichlorobenzene	ug/L	No Standard	.	.	.	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	.	.	.	.	.	.	.
Dichlorodifluoromethane (freon)	ug/L	1.4	.	**1.9**	.	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	.	1.5	3.6	1.6	2.0	.	3.9
cis-1,2-Dichloroethene	ug/L	70	.	.	.	.	.	.	.	.
Ethylbenzene	ug/L	550	.	.	1.2	1.4	1.0	1.7	1.5	1.7
Isopropylbenzene (Cumene)	ug/L	70	.	.	1.8	2.3	2.0	1.7	2.1	2.3
p-Isopropylbenzene	ug/L	No Standard	.	1.8	1.1	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	.	.	.	.	.	.	.
Methyl-tert butyl ether	ug/L	200	.	.	1.2	1.2	.	.	1.1	.
4-(o-cresol) Methylphenol	ug/L	3.5	.	.	.	.	.	NA	NA	NA
Naphthalene	ug/L	21	.	3.3	4.1	5.3	6.5	3.1	1.6	6.4
Tetrahydrofuran	ug/L	4.6*	**54**	**110**	**180**	**190**	**110**	**17**	**11**	**160**
Toluene	ug/L	1,000	.	.	2.1	1.5	1.1	.	.	1.2
1,2,4-Trimethylbenzene	ug/L	350	.	.	3.3	3.3	.	2.4	2.0	1.7
1,3,5-Trimethylbenzene	ug/L	350	.	.	1.1	1.1	1.1	.	.	.
Vinyl Chloride	ug/L	0.015	.	.	.	.	.	.	.	.
Xylenes	ug/L	530	.	.	5.6	5.3	4.8	3.9	4.1	4.0
Total VOCs	**ug/L**	**--**	**153**	**129.6**	**204.7**	**216.8**	**131.9**	**33.4**	**24.9**	**183.1**
Metals (total)										
Arsenic	mg/l	0.05	.	.	0.014	0.0074	0.0067	.	0.019	0.0097
Barium	mg/l	2.0	**2.24**	0.34	0.36	0.47	0.53	0.31	0.52	0.37
Cadmium	mg/l	0.005	0.0033	.	.	.	.	.	.	.
Chromium	mg/l	0.05	.	0.0092	0.0088	0.022	0.012	0.0098	0.0085	0.010
Lead	mg/l	0.015	.	.	.	.	.	.	.	.
Mercury	mg/l	0.0011	.	.	.	.	.	.	.	.
Selenium	mg/l	0.05	.	.	.	.	.	.	0.012	.
Silver	mg/l	0.018	.	0.0050	.	.	.	.	0.0050	0.0054

NA - compound not analyzed

** - Recommended Interim Maxium Allowable Concentration (IMAC)*

Blank cells indicate compound not detected at the method detection limit.

Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-2d (continued)

Parameter	Units	2L Standard	Mar-00	Nov-06	Jun-07	Nov-08	May-08	Nov-08	May-09	Nov-09
Volatile Organic Compounds										
Benzene	ug/L	1.0	.	**1.6**	**2.4**	**2.0**	**2.3**	**1.3**	**1.2**	.
Chlorobenzene	ug/L	50	**68**	.	7.8	8.8	9.4	4.6	5.8	5.5
Chloroethane	ug/L	2,800	.	4.6	.	.	.	.	.	.
Chlorofluoromethane	ug/L	No Standard	.	.	.	.	.	.	.	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	10	.	1.3	1.6	1.9	.	1.2	1.4
1,3-Dichlorobenzene	ug/L	No Standard	.	.	.	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	.	.	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	1.9	.	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	.	.	.	.	.	.	.
Dichlorodifluoromethane	ug/L	1,400	.	.	1.9	.	1.1	.	.	.
Isopropylbenzene (cumene)	ug/L	70	.	2.1	1.8	3.6	3.1	1.2	1.6	1.5
p-Isopropylbenzene	ug/L	No Standard	.	3.9	.	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	.	.	.	.	2.3	.	.
Methyl-tert butyl ether	ug/L	200.0	.	1.3	.	.	.	.	.	.
4-(o-cresol) Methylphenol	ug/L	3.5	.	.	.	.	.	NA	NA	NA
Naphthalene	ug/L	21	.	8.9	1.2	1.1	.	.	.	.
Tetrahydrofuran	ug/L	4.6*	**51**	**180**	**170**	**110**	**130**	**13**	**11**	**120**
Trichlorofluoromethane	ug/L	2,100	.	.	.	.	.	.	.	.
1,2,4-Trimethylbenzene	ug/L	350	.	2.5	.	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	.	.	.	.	.	.	.	.
Xylenes (total)	ug/L	530	.	4.3	.	.	.	.	.	.
Total VOCs	**ug/L**	--	**129**	**211.1**	**186.4**	**127.1**	**147.8**	**22.4**	**20.8**	**128.4**

Metals (total)										
Arsenic	mg/l	0.05	0.0108	.	0.0059	.	0.0068	0.0092	0.0076	0.0084
Barium	mg/l	2.0	.	0.45	0.21	0.19	0.19	0.26	0.15	0.19
Cadmium	mg/l	0.005	0.0020	0.0016	.	.	0.0019	.	.	.
Chromium	mg/l	0.05	.	0.016	0.017	0.008	0.021	0.015	0.012	0.011
Lead	mg/l	0.015	.	.	.	.	.	.	.	.
Mercury	mg/l	0.0011	.	.	.	.	.	0.00021	.	.
Selenium	mg/l	0.05	.	.	.	.	.	.	.	.
Silver	mg/l	0.018	.	.	.	.	.	.	.	.

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-3 (continued)

Parameter	Units	2L Standard	Mar-00	Sep-00	May-01	Dec-01	Jul-02	Jan-03	May-05	Mar-06	May-06	Nov-06	Jun-07
Volatile Organic Compounds													
Benzene	ug/L	1.0	.	.	.	.	.	.	.	.	.	.	.
bis-(2-ethylhexyl) phthalate	ug/L	3.0	.	.	.	.	.	.	.	.	.	.	.
Chlorobenzene	ug/L	50	.	.	.	.	.	.	.	.	.	.	.
Chloroethane	ug/L	2,800	.	.	.	.	.	.	.	.	.	.	.
Chlorofluoromethane	ug/L	No Standard	.	.	.	2.0	.	.	.	.	.	.	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	.	.	.	.	.	.	.	.	.	.	.
1,3-Dichlorobenzene	ug/L	No Standard	.	.	.	.	.	.	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	.	.	.	.	.	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	.	.	.	.	.	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	.	.	.	.	.	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	.	.	.	.	.	.	.	.	.	.
Naphthalene	ug/L	21	.	.	.	.	.	.	.	.	.	.	.
Tetrahydrofuran	ug/L	4.6*	.	**10**	.	.	**15**	**24**	**15**	**59**	**15**	**22**	**18**
Trichlorofluoromethane	ug/L	2,100	.	.	.	.	.	.	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	.	.	.	.	.	.	.	.	.	.	.
Total VOCs	**ug/L**	--	**0**	**10**	**0**	**2.0**	**15**	**24**	**15**	**59**	**15**	**22**	**18**

Metals (total)													
Arsenic	mg/l	0.05	0.0117	.	.	.	.	.	0.0075	.	.	0.0052	.
Barium	mg/l	2.0	0.602	.	0.325	.	0.297	0.505	1.50	0.96	0.27	0.88	0.83
Cadmium	mg/l	0.005	0.0041	0.0015	0.0013	.	.	.	.	.	.	**0.0043**	**0.003**
Chromium	mg/l	0.05	.	.	.	.	.	.	0.0073	.	0.0023	0.017	0.0079
Lead	mg/l	0.015	.	.	.	.	.	.	.	.	.	.	.
Mercury	mg/l	0.0011	.	.	.	.	.	.	.	.	.	.	0.0004
Selenium	mg/l	0.05	.	.	.	.	.	.	.	.	.	.	.
Silver	mg/l	0.018	.	.	.	.	.	.	.	.	.	.	.

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-3D

Parameter	Units	2L Standard	Mar-00	Sep-00	May-01	Dec-01	Jul-02	Jan-03	May-05	Mar-06	May-06	Nov-06	Jun-07
Volatile Organic Compounds													
Benzene	ug/L	1.0	.	.	.	.	.	.	.	.	.	.	.
Chlorobenzene	ug/L	50	.	.	.	3.0	.	.	.	.	.	.	.
Chloroethane	ug/L	2,800	.	.	.	.	.	.	.	.	.	.	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	.	.	.	5.0	3.0	3.0	1.8	.	1.0	1.2	1.2
1,3-Dichlorobenzene	ug/L	No Standard	.	.	.	.	.	.	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	.	.	.	.	.	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	.	.	.	.	.	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	.	.	.	.	.	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	.	.	.	.	.	.	.	.	.	.
Naphthalene	ug/L	21	.	.	.	.	.	.	.	.	.	.	.
Tetrahydrofuran	ug/L	4.6*	9.0	**27**	.	.	**35**	**19**	.	**54**	.	.	.
Trichlorofluoromethane	ug/L	2,100	.	.	.	.	.	.	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	.	.	.	.	.	.	.	.	.	.	.
Total VOCs	**ug/L**	--	**9.0**	**27**	**0**	**8.0**	**38**	**22**	**1.8**	**54**	**1.0**	**1.2**	**1.2**

Metals (total)													
Arsenic	mg/l	0.05	.	.	.	.	.	.	.	.	.	.	.
Barium	mg/l	2.0	.	.	0.341	.	.	.	0.92	0.071	0.042	0.13	0.084
Cadmium	mg/l	0.005	0.0017	.	0.0011	.	.	.	.	.	.	0.0011	.
Chromium	mg/l	0.05	.	.	.	.	.	.	.	0.0034	0.0028	0.010	0.0067
Lead	mg/l	0.015	.	.	.	.	.	.	.	.	.	.	.
Mercury	mg/l	0.0011	.	.	.	.	.	.	.	.	.	.	0.00026
Selenium	mg/l	0.05	.	.	0.0102	.	.	.	0.0069	.	.	.	.
Silver	mg/l	0.018	.	.	.	.	.	.	.	.	.	.	.

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-4

Parameter	Units	2L Standard	Aug-90	Mar-91	Apr-91	May-93	Oct-93	Apr-94	Feb-96	Aug-96	Apr-97	Nov-97	Oct-98
Volatile Organic Compounds													
Benzene	ug/L	1.0	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Chlorobenzene	ug/L	50	.	Not Sampled	Not Sampled	.	.	.	.	.	2.09	.	.
Chloroethane	ug/L	2,800	9 J	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Chlorofluoromethane	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
1,3-Dichlorobenzene	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	8.0	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Naphthalene	ug/L	21	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Tetrahydrofuran	ug/L	4.6*	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Trichlorofluoromethane	ug/L	2,100	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	.	Not Sampled	Not Sampled	.	.	.	.	.	.	.	.
Total VOCs	**ug/L**	**--**	**17.0**			**0**	**0**	**0**	**0**	**0**	**2.09**	**0**	**0**
Metals (total)													
Arsenic	mg/l	0.05	.	Not Sampled	NA	.	NA	.	.	.	.	.	.
Barium	mg/l	2.0	1.300	Not Sampled	1.400	0.704	NA	.	0.700	1.000	0.706	0.840	0.830
Cadmium	mg/l	0.005	.	Not Sampled	NA	.	NA	**1.0**	.	.	0.002	.	.
Chromium	mg/l	0.05	0.110	Not Sampled	0.110	.	NA	.	.	.	.	.	.
Lead	mg/l	0.015	0.010	Not Sampled	0.006	0.018	NA	.	.	.	.	.	.
Mercury	mg/l	0.0011	.	Not Sampled	NA	.	NA	.	.	.	.	.	.
Selenium	mg/l	0.05	.	Not Sampled	NA	.	NA	.	.	.	.	.	.
Silver	mg/l	0.018	.	Not Sampled	NA	.	NA	.	.	.	.	.	.

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-4 (continued)

Parameter	Units	2L Standard	Nov-07	May-08	Nov-08	May-09	Nov-09
Volatile Organic Compounds							
Benzene	ug/L	1.0	.	.	.	.	.
Chlorobenzene	ug/L	50	.	1.5	1.2	1.4	1.6
Chloroethane	ug/L	2,800	.	.	.	.	.
Chlorofluoromethane	ug/L	No Standard	.	.	.	.	NA
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	.	.	.	.	.
1,3-Dichlorobenzene	ug/L	No Standard	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	1.0	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	.	.	.	.
Naphthalene	ug/L	21	.	.	.	.	.
Tetrahydrofuran	ug/L	4.6*	**18**	**22**	**20**	**17**	**20**
Trichlorofluoromethane	ug/L	2,100	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	.	.	.	.	.
Total VOCs	**ug/L**	–	**19**	**23.5**	**21.2**	**18.4**	**21.6**
Metals (total)							
Arsenic	mg/l	0.05	.	.	.	0.0090	0.0079
Barium	mg/l	2.0	0.77	0.78	0.66	0.78	0.83
Cadmium	mg/l	0.005	.	.	.	.	.
Chromium	mg/l	0.05	0.02	0.016	0.0059	.	0.0058
Lead	mg/l	0.015	.	.	.	.	.
Mercury	mg/l	0.0011	.	.	.	.	.
Selenium	mg/l	0.05	.	.	.	.	.
Silver	mg/l	0.018	.	.	.	.	0.023

Not Sampled

Not Sampled

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-4D (continued)

Parameter	Units	2L Standard	Nov-07	May-08	Nov-08	May-09	Nov-09
Volatile Organic Compounds							
Benzene	ug/L	1.0	.	.	.	.	.
Chlorobenzene	ug/L	50	.	.	.	.	.
Chloroethane	ug/L	2,800	.	.	.	.	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	.	.	.	.	.
1,3-Dichlorobenzene	ug/L	No Standard	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	1.0	.	.	.
Methylene Chloride	ug/L	5.0	.	.	.	.	.
Methyl-tert-butyl ether	ug/L	200	.	.	.	.	.
Naphthalene	ug/L	21	.	.	.	.	.
Tetrahydrofuran	ug/L	4.6*	.	**15**	.	.	.
Trichlorofluoromethane	ug/L	2,100	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	.	.	.	.	.
Total VOCs	**ug/L**	**–**	**0**	**16**	**0**	**0**	**0**

Metals (total)							
Arsenic	mg/l	0.05	.	.	.	0.0054	.
Barium	mg/l	2.0	0.046	0.038	0.031	0.042	0.041
Cadmium	mg/l	0.005	.	.	.	.	.
Chromium	mg/l	0.05	.	.	.	.	.
Lead	mg/l	0.015	.	.	.	.	.
Mercury	mg/l	0.0011	.	.	.	.	.
Selenium	mg/l	0.05	.	.	.	.	.
Silver	mg/l	0.018	.	.	.	.	.

Not Sampled

Not Sampled

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-7

Parameter	Units	2L Standard	Mar-91	Apr-91	Mar-00	Sep-00	May-01	Dec-01	Jul-02	Jan-03	May-05	Mar-06	May-06
Volatile Organic Compounds													
Benzene	ug/L	1.0	NA	NA	.	.	.	.	.	.	.	.	.
Chlorobenzene	ug/L	50	.	NA	.	.	.	.	.	.	.	.	.
Chloroethane	ug/L	2,800	.	NA	.	.	.	.	.	.	.	.	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	.	NA	.	.	.	.	.	.	.	.	.
1,3-Dichlorobenzene	ug/L	No Standard	.	NA	.	.	.	.	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	NA	.	.	.	.	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	NA	.	.	.	.	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	NA	.	.	.	.	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	NA	.	.	.	.	.	.	.	.	.
Naphthalene	ug/L	21	NA	NA	.	.	.	.	.	.	.	.	.
Tetrahydrofuran	ug/L	4.6*	.	NA	.	.	.	.	.	.	.	.	.
Trichlorofluoromethane	ug/L	2,100	.	NA	.	.	.	.	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	NA	NA	.	.	.	.	.	.	.	.	.
Total VOCs	**ug/L**	**--**	**0**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Metals (total)													
Arsenic	mg/l	0.05	NA	NA	.	.	.	.	.	.	.	.	.
Barium	mg/l	2.0	.	0.120	.	.	.	.	.	.	0.045	0.081	0.054
Cadmium	mg/l	0.005	NA	NA	.	.	0.001	.	.	.	.	.	.
Chromium	mg/l	0.05	.	.	.	.	0.0153	0.019	.	.	.	0.019	0.012
Lead	mg/l	0.015	.	.	.	.	.	.	.	.	.	.	.
Mercury	mg/l	0.0011	NA	NA	.	.	.	.	.	.	.	.	.
Selenium	mg/l	0.05	NA	NA	.	.	.	.	.	.	.	.	.
Silver	mg/l	0.018	NA	NA	.	.	.	.	.	.	.	.	.

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-7 (continued)

Parameter	Units	2L Standard	Nov-06	Jun-07	Nov-07	May-08	Nov-08	May-09	Nov-09
Volatile Organic Compounds									
Benzene	ug/L	1.0	.	.	.	.	.	.	.
Chlorobenzene	ug/L	50	.	.	.	.	.	.	.
Chloroethane	ug/L	2,800	.	.	.	.	.	.	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	No Standard	.	.	.	.	.	.	.
1,3-Dichlorobenzene	ug/L	No Standard	.	.	.	.	.	.	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	No Standard	.	.	.	.	.	.	.
1,1-Dichloloethane	ug/L	700	.	.	.	.	.	.	.
cis-1,2-Dichloroethene	ug/L	70	.	.	.	.	.	.	.
Methylene Chloride	ug/L	5.0	.	.	.	.	.	.	.
Naphthalene	ug/L	21	.	.	.	.	.	.	.
Tetrahydrofuran	ug/L	4.6*	.	.	.	.	.	.	.
Trichlorofluoromethane	ug/L	2,100	.	.	.	.	.	.	.
Vinyl Chloride	ug/L	0.015	.	.	.	.	.	.	.
Total VOCs	**ug/L**	--	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Metals (total)									
Arsenic	mg/l	0.05	.	.	.	.	.	.	.
Barium	mg/l	2.0	0.14	0.12	0.29	0.33	0.20	0.22	0.36
Cadmium	mg/l	0.005	.	.	.	0.0012	.	.	.
Chromium	mg/l	0.05	**0.056**	0.043	**0.21**	**0.25**	**0.075**	**0.13**	**0.17**
Lead	mg/l	0.015	.	.	.	.	.	.	.
Mercury	mg/l	0.0011	.	.	.	.	.	.	.
Selenium	mg/l	0.05	.	.	.	.	.	.	.
Silver	mg/l	0.018	.	.	.	.	.	.	.

NA - compound not analyzed
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

Table 3. Ground Water Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

SW-2

Parameter	Units	2B Standard	Mar-00	Sep-00	May-01	Dec-01	Jul-02	Jan-03	May-05	Mar-06	May-06	Nov-06	Jun-07
Volatile Organic Compounds													
Chlorobenzene	ug/L	488	.	.	.	1.0	dry	2.0	.	.	.	.	1.3
Chlorofluoromethane	ug/L	No Standard	.	.	.	1.0	dry	.	.	.	.	.	.
Tetrahydrofuran	ug/L	4.4903*	.	**6.0**	.	.	dry	**8.0**	.	.	.	.	.
Total VOCs	**ug/L**	--	**0**	**6.0**	**0**	**2.0**		**10**	**0**	**0**	**0**	**0**	**1.3**
Metals (total)													
Arsenic	mg/l	0.05	.	.	.	.	dry	.	.	.	.	.	.
Barium	mg/l	1.0	.	.	0.150	.	dry	0.116	0.077	0.33	0.10	0.11	0.30
Cadmium	mg/l	0.002	.	.	.	.	dry	.	.	.	.	.	.
Chromium	mg/l	0.05	.	.	.	.	dry	.	0.0026	.	.	.	.
Lead	mg/l	0.025	.	.	.	.	dry	.	.	.	.	.	.
Mercury	mg/l	0.000012	.	.	.	.	dry	.	.	.	.	.	.
Selenium	mg/l	0.005	.	.	**0.0148**	.	dry	.	.	.	.	.	.
Silver	mg/l	0.00006	.	.	.	.	dry	.	**0.0026**	.	.	.	.

Parameter	Units	2B Standard	Nov-07	May-08	Nov-08	May-09	Nov-09
Volatile Organic Compounds							
Chlorobenzene	ug/L	488	.	.	1.1	.	.
Chlorofluoromethane	ug/L	No Standard	.	.	.	.	.
Tetrahydrofuran	ug/L	4.4903*	.	.	.	.	.
Total VOCs	**ug/L**	--	**0**	**0**	**1.1**	**0**	**0**
Metals (total)							
Arsenic	mg/l	0.05	.	.	.	.	.
Barium	mg/l	1.0	0.10	0.12	0.15	0.12	0.16
Cadmium	mg/l	0.002	.	.	.	.	.
Chromium	mg/l	0.05	.	.	.	.	.
Lead	mg/l	0.025	.	.	.	.	.
Mercury	mg/l	0.000012	.	.	.	.	.
Selenium	mg/l	0.005	.	.	.	.	.
Silver	mg/l	0.00006	.	.	.	.	.

NA - compound not analyzed
2B - Standard for Class C Surface Water
** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.
Data thru 1.15.2003 compiled from previous report tables.

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December 02, 2009

Mr. Phil Rahn
Waters Edge Environmental
4901 Waters's Edge Drive
Suite 201
Raleigh, NC 27606

RE: Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Dear Mr. Rahn:
Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2009. The results relate only to the samples included in this report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Tammie Easter

tammie.easter@pacelabs.com
Project Manager

Enclosures

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ANALYTICAL RESULTS

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Sample: WD-1 **Lab ID: 9258007001** Collected: 11/18/09 16:00 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Diisopropyl ether	ND	mg/L	0.0010	0.00012	1		11/30/09 03:28	108-20-3	
Ethylbenzene	ND	mg/L	0.0010	0.00030	1		11/30/09 03:28	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/L	0.0010	0.00071	1		11/30/09 03:28	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/L	0.0010	0.00040	1		11/30/09 03:28	98-82-8	
p-Isopropyltoluene	ND	mg/L	0.0010	0.00031	1		11/30/09 03:28	99-87-6	
Methylene Chloride	ND	mg/L	0.0020	0.00097	1		11/30/09 03:28	75-09-2	
Methyl-tert-butyl ether	ND	mg/L	0.0010	0.00021	1		11/30/09 03:28	1634-04-4	
Naphthalene	ND	mg/L	0.0010	0.00024	1		11/30/09 03:28	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	0.00042	1		11/30/09 03:28	103-65-1	
Styrene	ND	mg/L	0.0010	0.00026	1		11/30/09 03:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	0.00033	1		11/30/09 03:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	0.00040	1		11/30/09 03:28	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		11/30/09 03:28	127-18-4	
Tetrahydrofuran	ND	mg/L	0.010	0.0031	1		11/30/09 03:28	109-99-9	
Toluene	ND	mg/L	0.0010	0.00026	1		11/30/09 03:28	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	0.00033	1		11/30/09 03:28	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	0.00035	1		11/30/09 03:28	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		11/30/09 03:28	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	0.00029	1		11/30/09 03:28	79-00-5	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		11/30/09 03:28	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	0.00020	1		11/30/09 03:28	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0010	0.00041	1		11/30/09 03:28	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	0.00031	1		11/30/09 03:28	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	0.00036	1		11/30/09 03:28	108-67-8	
Vinyl acetate	ND	mg/L	0.0020	0.00035	1		11/30/09 03:28	108-05-4	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		11/30/09 03:28	75-01-4	
Xylene (Total)	ND	mg/L	0.0020	0.00066	1		11/30/09 03:28	1330-20-7	
m&p-Xylene	ND	mg/L	0.0020	0.00066	1		11/30/09 03:28	1330-20-7	
o-Xylene	ND	mg/L	0.0010	0.00023	1		11/30/09 03:28	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		11/30/09 03:28	460-00-4	
Dibromofluoromethane (S)	103	%	85-115		1		11/30/09 03:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		11/30/09 03:28	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		11/30/09 03:28	2037-26-5	

Sample: WD-2 **Lab ID: 9258007002** Collected: 11/18/09 14:00 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**0.0097**	mg/L	0.0050	0.0027	1	11/30/09 16:30	12/01/09 19:38	7440-38-2	
Barium	**0.37**	mg/L	0.0050	0.00020	1	11/30/09 16:30	12/01/09 19:38	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	11/30/09 16:30	12/01/09 19:38	7440-43-9	
Chromium	**0.010**	mg/L	0.0050	0.00040	1	11/30/09 16:30	12/01/09 19:38	7440-47-3	
Lead	ND	mg/L	0.0050	0.0040	1	11/30/09 16:30	12/01/09 19:38	7439-92-1	

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ANALYTICAL RESULTS

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Sample: WD-2 **Lab ID: 9258007002** Collected: 11/18/09 14:00 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	mg/L	0.0020	0.00097	1		11/30/09 03:51	75-09-2	
Methyl-tert-butyl ether	ND	mg/L	0.0010	0.00021	1		11/30/09 03:51	1634-04-4	
Naphthalene	**0.0064**	mg/L	0.0010	0.00024	1		11/30/09 03:51	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	0.00042	1		11/30/09 03:51	103-65-1	
Styrene	ND	mg/L	0.0010	0.00026	1		11/30/09 03:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	0.00033	1		11/30/09 03:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	0.00040	1		11/30/09 03:51	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		11/30/09 03:51	127-18-4	
Tetrahydrofuran	**0.16**	mg/L	0.010	0.0031	1		11/30/09 03:51	109-99-9	
Toluene	**0.0012**	mg/L	0.0010	0.00026	1		11/30/09 03:51	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	0.00033	1		11/30/09 03:51	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	0.00035	1		11/30/09 03:51	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		11/30/09 03:51	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	0.00029	1		11/30/09 03:51	79-00-5	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		11/30/09 03:51	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	0.00020	1		11/30/09 03:51	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0010	0.00041	1		11/30/09 03:51	96-18-4	
1,2,4-Trimethylbenzene	**0.0017**	mg/L	0.0010	0.00031	1		11/30/09 03:51	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	0.00036	1		11/30/09 03:51	108-67-8	
Vinyl acetate	ND	mg/L	0.0020	0.00035	1		11/30/09 03:51	108-05-4	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		11/30/09 03:51	75-01-4	
Xylene (Total)	**0.0040**	mg/L	0.0020	0.00066	1		11/30/09 03:51	1330-20-7	
m&p-Xylene	**0.0028**	mg/L	0.0020	0.00066	1		11/30/09 03:51	1330-20-7	
o-Xylene	**0.0013**	mg/L	0.0010	0.00023	1		11/30/09 03:51	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		11/30/09 03:51	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		11/30/09 03:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		11/30/09 03:51	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		11/30/09 03:51	2037-26-5	

Sample: WD-2d **Lab ID: 9258007003** Collected: 11/18/09 13:00 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**0.0084**	mg/L	0.0050	0.0027	1	11/30/09 16:30	12/01/09 19:43	7440-38-2	
Barium	**0.19**	mg/L	0.0050	0.00020	1	11/30/09 16:30	12/01/09 19:43	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	11/30/09 16:30	12/01/09 19:43	7440-43-9	
Chromium	**0.011**	mg/L	0.0050	0.00040	1	11/30/09 16:30	12/01/09 19:43	7440-47-3	
Lead	ND	mg/L	0.0050	0.0040	1	11/30/09 16:30	12/01/09 19:43	7439-92-1	
Selenium	ND	mg/L	0.010	0.0038	1	11/30/09 16:30	12/01/09 19:43	7782-49-2	
Silver	ND	mg/L	0.0050	0.00010	1	11/30/09 16:30	12/01/09 19:43	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.000070	1	11/30/09 15:20	12/01/09 11:56	7439-97-6	

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ANALYTICAL RESULTS

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Sample: WD-2d **Lab ID: 9258007003** Collected: 11/18/09 13:00 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		11/30/09 04:15	127-18-4	
Tetrahydrofuran	**0.12**	mg/L	0.010	0.0031	1		11/30/09 04:15	109-99-9	
Toluene	ND	mg/L	0.0010	0.00026	1		11/30/09 04:15	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	0.00033	1		11/30/09 04:15	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	0.00035	1		11/30/09 04:15	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		11/30/09 04:15	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	0.00029	1		11/30/09 04:15	79-00-5	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		11/30/09 04:15	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	0.00020	1		11/30/09 04:15	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0010	0.00041	1		11/30/09 04:15	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	0.00031	1		11/30/09 04:15	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	0.00036	1		11/30/09 04:15	108-67-8	
Vinyl acetate	ND	mg/L	0.0020	0.00035	1		11/30/09 04:15	108-05-4	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		11/30/09 04:15	75-01-4	
Xylene (Total)	ND	mg/L	0.0020	0.00066	1		11/30/09 04:15	1330-20-7	
m&p-Xylene	ND	mg/L	0.0020	0.00066	1		11/30/09 04:15	1330-20-7	
o-Xylene	ND	mg/L	0.0010	0.00023	1		11/30/09 04:15	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		11/30/09 04:15	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		11/30/09 04:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		11/30/09 04:15	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		11/30/09 04:15	2037-26-5	

Sample: WD-3 **Lab ID: 9258007004** Collected: 11/18/09 11:45 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**0.0094**	mg/L	0.0050	0.0027	1	11/30/09 16:30	12/01/09 19:47	7440-38-2	
Barium	**0.96**	mg/L	0.0050	0.00020	1	11/30/09 16:30	12/01/09 19:47	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	11/30/09 16:30	12/01/09 19:47	7440-43-9	
Chromium	**0.0065**	mg/L	0.0050	0.00040	1	11/30/09 16:30	12/01/09 19:47	7440-47-3	
Lead	ND	mg/L	0.0050	0.0040	1	11/30/09 16:30	12/01/09 19:47	7439-92-1	
Selenium	ND	mg/L	0.010	0.0038	1	11/30/09 16:30	12/01/09 19:47	7782-49-2	
Silver	ND	mg/L	0.0050	0.00010	1	11/30/09 16:30	12/01/09 19:47	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.000070	1	11/30/09 15:20	12/01/09 11:58	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Benzene	ND	mg/L	0.0010	0.00025	1		11/30/09 04:39	71-43-2	
Bromobenzene	ND	mg/L	0.0010	0.00030	1		11/30/09 04:39	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	0.00017	1		11/30/09 04:39	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	0.00018	1		11/30/09 04:39	75-27-4	
Bromoform	ND	mg/L	0.0010	0.00026	1		11/30/09 04:39	75-25-2	

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ANALYTICAL RESULTS

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Sample: WD-3 **Lab ID: 9258007004** Collected: 11/18/09 11:45 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		11/30/09 04:39	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	0.00029	1		11/30/09 04:39	79-00-5	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		11/30/09 04:39	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	0.00020	1		11/30/09 04:39	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0010	0.00041	1		11/30/09 04:39	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	0.00031	1		11/30/09 04:39	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	0.00036	1		11/30/09 04:39	108-67-8	
Vinyl acetate	ND	mg/L	0.0020	0.00035	1		11/30/09 04:39	108-05-4	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		11/30/09 04:39	75-01-4	
Xylene (Total)	ND	mg/L	0.0020	0.00066	1		11/30/09 04:39	1330-20-7	
m&p-Xylene	ND	mg/L	0.0020	0.00066	1		11/30/09 04:39	1330-20-7	
o-Xylene	ND	mg/L	0.0010	0.00023	1		11/30/09 04:39	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		11/30/09 04:39	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		11/30/09 04:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		11/30/09 04:39	17060-07-0	
Toluene-d8 (S)	103	%	70-120		1		11/30/09 04:39	2037-26-5	

Sample: WD-3d **Lab ID: 9258007005** Collected: 11/18/09 12:30 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	mg/L	0.0050	0.0027	1	11/30/09 16:30	12/01/09 19:59	7440-38-2	
Barium	**0.14**	mg/L	0.0050	0.00020	1	11/30/09 16:30	12/01/09 19:59	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	11/30/09 16:30	12/01/09 19:59	7440-43-9	
Chromium	**0.011**	mg/L	0.0050	0.00040	1	11/30/09 16:30	12/01/09 19:59	7440-47-3	
Lead	ND	mg/L	0.0050	0.0040	1	11/30/09 16:30	12/01/09 19:59	7439-92-1	
Selenium	ND	mg/L	0.010	0.0038	1	11/30/09 16:30	12/01/09 19:59	7782-49-2	
Silver	ND	mg/L	0.0050	0.00010	1	11/30/09 16:30	12/01/09 19:59	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.000070	1	11/30/09 15:20	12/01/09 12:01	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Benzene	ND	mg/L	0.0010	0.00025	1		11/30/09 05:03	71-43-2	
Bromobenzene	ND	mg/L	0.0010	0.00030	1		11/30/09 05:03	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	0.00017	1		11/30/09 05:03	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	0.00018	1		11/30/09 05:03	75-27-4	
Bromoform	ND	mg/L	0.0010	0.00026	1		11/30/09 05:03	75-25-2	
Bromomethane	ND	mg/L	0.0050	0.00029	1		11/30/09 05:03	74-83-9	
n-Butylbenzene	ND	mg/L	0.0010	0.00041	1		11/30/09 05:03	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	0.00038	1		11/30/09 05:03	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	0.00040	1		11/30/09 05:03	98-06-6	
Carbon tetrachloride	ND	mg/L	0.0010	0.00025	1		11/30/09 05:03	56-23-5	

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ANALYTICAL RESULTS

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Sample: WD-3d **Lab ID: 9258007005** Collected: 11/18/09 12:30 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	0.00031	1		11/30/09 05:03	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	0.00036	1		11/30/09 05:03	108-67-8	
Vinyl acetate	ND	mg/L	0.0020	0.00035	1		11/30/09 05:03	108-05-4	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		11/30/09 05:03	75-01-4	
Xylene (Total)	ND	mg/L	0.0020	0.00066	1		11/30/09 05:03	1330-20-7	
m&p-Xylene	ND	mg/L	0.0020	0.00066	1		11/30/09 05:03	1330-20-7	
o-Xylene	ND	mg/L	0.0010	0.00023	1		11/30/09 05:03	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		11/30/09 05:03	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		11/30/09 05:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		11/30/09 05:03	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		11/30/09 05:03	2037-26-5	

Sample: WD-4 **Lab ID: 9258007006** Collected: 11/18/09 10:00 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**0.0079**	mg/L	0.0050	0.0027	1	11/30/09 16:30	12/01/09 20:07	7440-38-2	
Barium	**0.83**	mg/L	0.0050	0.00020	1	11/30/09 16:30	12/01/09 20:07	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	11/30/09 16:30	12/01/09 20:07	7440-43-9	
Chromium	**0.0058**	mg/L	0.0050	0.00040	1	11/30/09 16:30	12/01/09 20:07	7440-47-3	
Lead	ND	mg/L	0.0050	0.0040	1	11/30/09 16:30	12/01/09 20:07	7439-92-1	
Selenium	ND	mg/L	0.010	0.0038	1	11/30/09 16:30	12/01/09 20:07	7782-49-2	
Silver	**0.023**	mg/L	0.0050	0.00010	1	11/30/09 16:30	12/01/09 20:07	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.000070	1	11/30/09 15:20	12/01/09 12:03	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Benzene	ND	mg/L	0.0010	0.00025	1		11/30/09 05:27	71-43-2	
Bromobenzene	ND	mg/L	0.0010	0.00030	1		11/30/09 05:27	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	0.00017	1		11/30/09 05:27	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	0.00018	1		11/30/09 05:27	75-27-4	
Bromoform	ND	mg/L	0.0010	0.00026	1		11/30/09 05:27	75-25-2	
Bromomethane	ND	mg/L	0.0050	0.00029	1		11/30/09 05:27	74-83-9	
n-Butylbenzene	ND	mg/L	0.0010	0.00041	1		11/30/09 05:27	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	0.00038	1		11/30/09 05:27	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	0.00040	1		11/30/09 05:27	98-06-6	
Carbon tetrachloride	ND	mg/L	0.0010	0.00025	1		11/30/09 05:27	56-23-5	
Chlorobenzene	**0.0016**	mg/L	0.0010	0.00023	1		11/30/09 05:27	108-90-7	
Chloroethane	ND	mg/L	0.0010	0.00054	1		11/30/09 05:27	75-00-3	
Chloroform	ND	mg/L	0.0010	0.00014	1		11/30/09 05:27	67-66-3	
Chloromethane	ND	mg/L	0.0010	0.00011	1		11/30/09 05:27	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	0.00035	1		11/30/09 05:27	95-49-8	

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ANALYTICAL RESULTS

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Sample: WD-4 **Lab ID: 9258007006** Collected: 11/18/09 10:00 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
m&p-Xylene	ND	mg/L	0.0020	0.00066	1		11/30/09 05:27	1330-20-7	
o-Xylene	ND	mg/L	0.0010	0.00023	1		11/30/09 05:27	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		11/30/09 05:27	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		11/30/09 05:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		11/30/09 05:27	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		11/30/09 05:27	2037-26-5	

Sample: WD-4d **Lab ID: 9258007007** Collected: 11/18/09 10:45 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	mg/L	0.0050	0.0027	1	11/30/09 16:30	12/01/09 20:26	7440-38-2	
Barium	**0.041**	mg/L	0.0050	0.00020	1	11/30/09 16:30	12/01/09 20:26	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	11/30/09 16:30	12/01/09 20:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00040	1	11/30/09 16:30	12/01/09 20:26	7440-47-3	
Lead	ND	mg/L	0.0050	0.0040	1	11/30/09 16:30	12/01/09 20:26	7439-92-1	
Selenium	ND	mg/L	0.010	0.0038	1	11/30/09 16:30	12/01/09 20:26	7782-49-2	
Silver	ND	mg/L	0.0050	0.00010	1	11/30/09 16:30	12/01/09 20:26	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.000070	1	11/30/09 15:20	12/01/09 12:06	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Benzene	ND	mg/L	0.0010	0.00025	1		11/30/09 05:51	71-43-2	
Bromobenzene	ND	mg/L	0.0010	0.00030	1		11/30/09 05:51	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	0.00017	1		11/30/09 05:51	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	0.00018	1		11/30/09 05:51	75-27-4	
Bromoform	ND	mg/L	0.0010	0.00026	1		11/30/09 05:51	75-25-2	
Bromomethane	ND	mg/L	0.0050	0.00029	1		11/30/09 05:51	74-83-9	
n-Butylbenzene	ND	mg/L	0.0010	0.00041	1		11/30/09 05:51	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	0.00038	1		11/30/09 05:51	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	0.00040	1		11/30/09 05:51	98-06-6	
Carbon tetrachloride	ND	mg/L	0.0010	0.00025	1		11/30/09 05:51	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	0.00023	1		11/30/09 05:51	108-90-7	
Chloroethane	ND	mg/L	0.0010	0.00054	1		11/30/09 05:51	75-00-3	
Chloroform	ND	mg/L	0.0010	0.00014	1		11/30/09 05:51	67-66-3	
Chloromethane	ND	mg/L	0.0010	0.00011	1		11/30/09 05:51	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	0.00035	1		11/30/09 05:51	95-49-8	
4-Chlorotoluene	ND	mg/L	0.0010	0.00031	1		11/30/09 05:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0030	0.0025	1		11/30/09 05:51	96-12-8	
Dibromochloromethane	ND	mg/L	0.0010	0.00021	1		11/30/09 05:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0010	0.00027	1		11/30/09 05:51	106-93-4	
Dibromomethane	ND	mg/L	0.0010	0.00021	1		11/30/09 05:51	74-95-3	

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ANALYTICAL RESULTS

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Sample: WD-4d **Lab ID: 9258007007** Collected: 11/18/09 10:45 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Toluene-d8 (S)	103	%	70-120		1		11/30/09 05:51	2037-26-5	

Sample: WD-7 **Lab ID: 9258007008** Collected: 11/18/09 15:00 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	mg/L	0.0050	0.0027	1	11/30/09 16:30	12/01/09 20:30	7440-38-2	
Barium	**0.36**	mg/L	0.0050	0.00020	1	11/30/09 16:30	12/01/09 20:30	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	11/30/09 16:30	12/01/09 20:30	7440-43-9	
Chromium	**0.17**	mg/L	0.0050	0.00040	1	11/30/09 16:30	12/01/09 20:30	7440-47-3	
Lead	ND	mg/L	0.0050	0.0040	1	11/30/09 16:30	12/01/09 20:30	7439-92-1	
Selenium	ND	mg/L	0.010	0.0038	1	11/30/09 16:30	12/01/09 20:30	7782-49-2	
Silver	ND	mg/L	0.0050	0.00010	1	11/30/09 16:30	12/01/09 20:30	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.000070	1	11/30/09 15:20	12/01/09 12:08	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Benzene	ND	mg/L	0.0010	0.00025	1		11/30/09 06:15	71-43-2	
Bromobenzene	ND	mg/L	0.0010	0.00030	1		11/30/09 06:15	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	0.00017	1		11/30/09 06:15	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	0.00018	1		11/30/09 06:15	75-27-4	
Bromoform	ND	mg/L	0.0010	0.00026	1		11/30/09 06:15	75-25-2	
Bromomethane	ND	mg/L	0.0050	0.00029	1		11/30/09 06:15	74-83-9	
n-Butylbenzene	ND	mg/L	0.0010	0.00041	1		11/30/09 06:15	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	0.00038	1		11/30/09 06:15	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	0.00040	1		11/30/09 06:15	98-06-6	
Carbon tetrachloride	ND	mg/L	0.0010	0.00025	1		11/30/09 06:15	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	0.00023	1		11/30/09 06:15	108-90-7	
Chloroethane	ND	mg/L	0.0010	0.00054	1		11/30/09 06:15	75-00-3	
Chloroform	ND	mg/L	0.0010	0.00014	1		11/30/09 06:15	67-66-3	
Chloromethane	ND	mg/L	0.0010	0.00011	1		11/30/09 06:15	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	0.00035	1		11/30/09 06:15	95-49-8	
4-Chlorotoluene	ND	mg/L	0.0010	0.00031	1		11/30/09 06:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0030	0.0025	1		11/30/09 06:15	96-12-8	
Dibromochloromethane	ND	mg/L	0.0010	0.00021	1		11/30/09 06:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0010	0.00027	1		11/30/09 06:15	106-93-4	
Dibromomethane	ND	mg/L	0.0010	0.00021	1		11/30/09 06:15	74-95-3	
1,2-Dichlorobenzene	ND	mg/L	0.0010	0.00030	1		11/30/09 06:15	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0010	0.00024	1		11/30/09 06:15	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0010	0.00033	1		11/30/09 06:15	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0010	0.00021	1		11/30/09 06:15	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		11/30/09 06:15	75-34-3	

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ANALYTICAL RESULTS

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Sample: SW-1 **Lab ID: 9258007009** Collected: 11/18/09 11:30 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Diisopropyl ether	ND	mg/L	0.0010	0.00012	1		11/30/09 06:39	108-20-3	
Ethylbenzene	ND	mg/L	0.0010	0.00030	1		11/30/09 06:39	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/L	0.0010	0.00071	1		11/30/09 06:39	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/L	0.0010	0.00040	1		11/30/09 06:39	98-82-8	
p-Isopropyltoluene	ND	mg/L	0.0010	0.00031	1		11/30/09 06:39	99-87-6	
Methylene Chloride	ND	mg/L	0.0020	0.00097	1		11/30/09 06:39	75-09-2	
Methyl-tert-butyl ether	ND	mg/L	0.0010	0.00021	1		11/30/09 06:39	1634-04-4	
Naphthalene	ND	mg/L	0.0010	0.00024	1		11/30/09 06:39	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	0.00042	1		11/30/09 06:39	103-65-1	
Styrene	ND	mg/L	0.0010	0.00026	1		11/30/09 06:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	0.00033	1		11/30/09 06:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	0.00040	1		11/30/09 06:39	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		11/30/09 06:39	127-18-4	
Tetrahydrofuran	ND	mg/L	0.010	0.0031	1		11/30/09 06:39	109-99-9	
Toluene	ND	mg/L	0.0010	0.00026	1		11/30/09 06:39	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	0.00033	1		11/30/09 06:39	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	0.00035	1		11/30/09 06:39	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		11/30/09 06:39	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	0.00029	1		11/30/09 06:39	79-00-5	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		11/30/09 06:39	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	0.00020	1		11/30/09 06:39	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0010	0.00041	1		11/30/09 06:39	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	0.00031	1		11/30/09 06:39	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	0.00036	1		11/30/09 06:39	108-67-8	
Vinyl acetate	ND	mg/L	0.0020	0.00035	1		11/30/09 06:39	108-05-4	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		11/30/09 06:39	75-01-4	
Xylene (Total)	ND	mg/L	0.0020	0.00066	1		11/30/09 06:39	1330-20-7	
m&p-Xylene	ND	mg/L	0.0020	0.00066	1		11/30/09 06:39	1330-20-7	
o-Xylene	ND	mg/L	0.0010	0.00023	1		11/30/09 06:39	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		11/30/09 06:39	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		11/30/09 06:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		11/30/09 06:39	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		11/30/09 06:39	2037-26-5	

Sample: SW-2 **Lab ID: 9258007010** Collected: 11/18/09 13:30 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	mg/L	0.0050	0.0027	1	11/30/09 16:30	12/01/09 20:38	7440-38-2	
Barium	**0.16**	mg/L	0.0050	0.00020	1	11/30/09 16:30	12/01/09 20:38	7440-39-3	
Cadmium	ND	mg/L	0.0010	0.00050	1	11/30/09 16:30	12/01/09 20:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00040	1	11/30/09 16:30	12/01/09 20:38	7440-47-3	
Lead	ND	mg/L	0.0050	0.0040	1	11/30/09 16:30	12/01/09 20:38	7439-92-1	

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ANALYTICAL RESULTS

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

Sample: SW-2 **Lab ID: 9258007010** Collected: 11/18/09 13:30 Received: 11/20/09 09:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	mg/L	0.0020	0.00097	1		11/30/09 07:03	75-09-2	
Methyl-tert-butyl ether	ND	mg/L	0.0010	0.00021	1		11/30/09 07:03	1634-04-4	
Naphthalene	ND	mg/L	0.0010	0.00024	1		11/30/09 07:03	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	0.00042	1		11/30/09 07:03	103-65-1	
Styrene	ND	mg/L	0.0010	0.00026	1		11/30/09 07:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	0.00033	1		11/30/09 07:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	0.00040	1		11/30/09 07:03	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		11/30/09 07:03	127-18-4	
Tetrahydrofuran	ND	mg/L	0.010	0.0031	1		11/30/09 07:03	109-99-9	
Toluene	ND	mg/L	0.0010	0.00026	1		11/30/09 07:03	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	0.00033	1		11/30/09 07:03	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	0.00035	1		11/30/09 07:03	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		11/30/09 07:03	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	0.00029	1		11/30/09 07:03	79-00-5	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		11/30/09 07:03	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	0.00020	1		11/30/09 07:03	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0010	0.00041	1		11/30/09 07:03	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	0.00031	1		11/30/09 07:03	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	0.00036	1		11/30/09 07:03	108-67-8	
Vinyl acetate	ND	mg/L	0.0020	0.00035	1		11/30/09 07:03	108-05-4	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		11/30/09 07:03	75-01-4	
Xylene (Total)	ND	mg/L	0.0020	0.00066	1		11/30/09 07:03	1330-20-7	
m&p-Xylene	ND	mg/L	0.0020	0.00066	1		11/30/09 07:03	1330-20-7	
o-Xylene	ND	mg/L	0.0010	0.00023	1		11/30/09 07:03	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		11/30/09 07:03	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		11/30/09 07:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		11/30/09 07:03	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		11/30/09 07:03	2037-26-5	

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Pace Analytical Services, Inc.
370 West Meadow Road
Eden, NC 27288
(336)623-8921

QUALITY CONTROL DATA

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

QC Batch: MERP/2529 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9258007001, 9258007002, 9258007003, 9258007004, 9258007005, 9258007006, 9258007007, 9258007008, 9258007009, 9258007010

METHOD BLANK: 372477 Matrix: Water
Associated Lab Samples: 9258007001, 9258007002, 9258007003, 9258007004, 9258007005, 9258007006, 9258007007, 9258007008, 9258007009, 9258007010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	12/01/09 11:36	

LABORATORY CONTROL SAMPLE: 372478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0024	97	80-120	

MATRIX SPIKE SAMPLE: 372479

Parameter	Units	9258007001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	.0025	0.0017	68	75-125	M0

SAMPLE DUPLICATE: 372480

Parameter	Units	9258007002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

METHOD BLANK: 372123 Matrix: Water

Associated Lab Samples: 9258007001, 9258007002, 9258007003, 9258007004, 9258007005, 9258007006, 9258007007, 9258007008, 9258007009, 9258007010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/L	ND	0.0010	11/30/09 02:40	
Isopropylbenzene (Cumene)	mg/L	ND	0.0010	11/30/09 02:40	
m&p-Xylene	mg/L	ND	0.0020	11/30/09 02:40	
Methyl-tert-butyl ether	mg/L	ND	0.0010	11/30/09 02:40	
Methylene Chloride	mg/L	ND	0.0020	11/30/09 02:40	
n-Butylbenzene	mg/L	ND	0.0010	11/30/09 02:40	
n-Propylbenzene	mg/L	ND	0.0010	11/30/09 02:40	
Naphthalene	mg/L	ND	0.0010	11/30/09 02:40	
o-Xylene	mg/L	ND	0.0010	11/30/09 02:40	
p-Isopropyltoluene	mg/L	ND	0.0010	11/30/09 02:40	
sec-Butylbenzene	mg/L	ND	0.0010	11/30/09 02:40	
Styrene	mg/L	ND	0.0010	11/30/09 02:40	
tert-Butylbenzene	mg/L	ND	0.0010	11/30/09 02:40	
Tetrachloroethene	mg/L	ND	0.0010	11/30/09 02:40	
Tetrahydrofuran	mg/L	ND	0.010	11/30/09 02:40	
Toluene	mg/L	ND	0.0010	11/30/09 02:40	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	11/30/09 02:40	
Trichloroethene	mg/L	ND	0.0010	11/30/09 02:40	
Trichlorofluoromethane	mg/L	ND	0.0010	11/30/09 02:40	
Vinyl acetate	mg/L	ND	0.0020	11/30/09 02:40	
Vinyl chloride	mg/L	ND	0.0010	11/30/09 02:40	
Xylene (Total)	mg/L	ND	0.0020	11/30/09 02:40	
1,2-Dichloroethane-d4 (S)	%	102	79-120	11/30/09 02:40	
4-Bromofluorobenzene (S)	%	98	87-109	11/30/09 02:40	
Dibromofluoromethane (S)	%	103	85-115	11/30/09 02:40	
Toluene-d8 (S)	%	102	70-120	11/30/09 02:40	

LABORATORY CONTROL SAMPLE: 372124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	.05	0.057	114	83-125	
1,1,1-Trichloroethane	mg/L	.05	0.060	120	80-129	
1,1,2,2-Tetrachloroethane	mg/L	.05	0.051	102	73-127	
1,1,2-Trichloroethane	mg/L	.05	0.058	116	77-123	
1,1-Dichloroethane	mg/L	.05	0.061	122	76-129	
1,1-Dichloroethene	mg/L	.05	0.063	127	78-146	
1,1-Dichloropropene	mg/L	.05	0.064	129	79-134	
1,2,3-Trichlorobenzene	mg/L	.05	0.053	105	70-150	
1,2,3-Trichloropropane	mg/L	.05	0.052	104	72-125	
1,2,4-Trichlorobenzene	mg/L	.05	0.053	105	68-127	
1,2,4-Trimethylbenzene	mg/L	.05	0.056	112	78-138	
1,2-Dibromo-3-chloropropane	mg/L	.05	0.054	108	65-128	
1,2-Dibromoethane (EDB)	mg/L	.05	0.056	112	81-125	
1,2-Dichlorobenzene	mg/L	.05	0.052	104	82-126	

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(336)623-8921

QUALITY CONTROL DATA

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

LABORATORY CONTROL SAMPLE: 372124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	mg/L	.15	0.17	111	83-125	
1,2-Dichloroethane-d4 (S)	%			99	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			106	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 372125 372126

Parameter	Units	9258007001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	mg/L	ND	.05	.05	0.057	0.056	113	113	60-150	1	30	
Benzene	mg/L	ND	.05	.05	0.086	0.081	172	162	74-136	6	30	M0
Chlorobenzene	mg/L	ND	.05	.05	0.059	0.057	117	113	79-135	3	30	
Toluene	mg/L	ND	.05	.05	0.056	0.056	112	112	73-131	0	30	
Trichloroethene	mg/L	ND	.05	.05	0.058	0.057	115	114	73-131	1	30	
1,2-Dichloroethane-d4 (S)	%						99	98	79-120			
4-Bromofluorobenzene (S)	%						97	95	87-109			
Dibromofluoromethane (S)	%						98	98	85-115			
Toluene-d8 (S)	%						99	99	70-120			

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Pace Analytical Services, Inc.
370 West Meadow Road
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(336)623-8921

QUALITY CONTROL DATA

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

SAMPLE DUPLICATE: 372363

Parameter	Units	9258007006 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	mg/L	ND	.0084J		20	
Silver	mg/L	0.023	.0047J		20	

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QUALITY CONTROL DATA

Project: R5-34 Wiley Davis Landfill
Pace Project No.: 9258007

SAMPLE DUPLICATE: 372355

Parameter	Units	9257933003 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	mg/L	ND	ND		20	
Silver	mg/L	0.61J ug/L	.00059J		20	

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Chain-of-Custody / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1306438

Section A Required Client Information:

Company: WATERS EDGE ENV.
Address: Raleigh N.C.
Email To: Phil Rahn
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Phil Rahn
Copy To: "
Purchase Order No.: R5-34
Project Name: Wiley Davis Landfill
Project Number: R5-34

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260+THE	PCPA METALS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WD-1	WT	G			11/18	1600		4			1	3						✓	✓		4258007
2	WD-2	WT	G			11/18	1400		4			1	3						✓	✓		
3	WD-2d	WT	G			11/18	1300		4			1	3						✓	✓		
4	WD-3	WT	G			11/18	1145		4			1	3						✓	✓		
5	WD-3d	WT	G			11/18	1230		4			1	3						✓	✓		
6	WD-4	WT	G			11/18	1000		4			1	3						✓	✓		
7	WD-4d	WT	G			11/18	1045		4			1	3						✓	✓		
8	WD-7	WT	G			11/18	1500		4			1	3						✓	✓		
9	SW-1	WT	G			11/18	1130		4			1	3						✓	✓		
10	SW-2	WT	G			11/18	1330		4			1	3						✓	✓		
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Thomas Haynes / WATERS EDGE	11/20/09	0950	Kyle Pickard	112009	0950	4	Y		

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Haynes

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11-18-09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.