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September/October 2013 Groundwater Monitoring Well Installation and Sampling Report
Former Wiley Davis Landfill
Wiley Davis Road
Greensboro, North Carolina
Permit #41-B
December 6, 2013

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

North Carolina Groundwater/Surface Water Exceedance Notification (October 11th, 2013)

Well	Parameter	Concentration (µg/L)	NCGS (µg/L)
WD-8	Arsenic	23	10
WD-8	Barium	1,400	700
WD-8	Cadmium	3.3	2
WD-8	Chromium	450	10
WD-8	Lead	36	15
WD-9	Barium	740	700
WD-9	Cadmium	11	2
WD-8	Chromium	30	10

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

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DEC 11 2013
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December 6, 2013

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

Reference: September/October 2013 Groundwater Monitoring Well Installation and 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 September/October 2013 groundwater monitoring well installation and sampling report 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: Ms. Christine Ritter- NCDENR

13-097/PLR/aht

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B	Well Construction Records
C	Laboratory Analytical Results

September/October 2013 Groundwater Monitoring Well Installation and Sampling Report
Former Wiley Davis Landfill
Wiley Davis Road
Greensboro, North Carolina
Permit #41-B
December 6, 2013

1 Introduction

A groundwater 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 groundwater 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 groundwater, and the possible source(s) of contamination detected in the groundwater and/or surface water.

Based on the results of the past groundwater assessment efforts, NCDENR has requested that additional groundwater monitoring wells be emplaced along the southern portion of the site for delineation purposes. Based on this request, this report will detail the well installation and sampling activities as well as provide our conclusions and recommendations for the site.

2 Groundwater Sampling Activities

2.1 Monitoring Well Installation

On September 27th, 2013, a Waters Edge environmental technician and air rotary drilling rig were mobilized to the site to install two shallow groundwater monitoring wells at the locations shown in Figure 3 according to the procedures contained in Appendix A. Monitoring well construction records are shown in Appendix B.

2.2 Monitoring Well Sampling

On October 11th, 2013, a Waters Edge environmental technician was mobilized to the site for the groundwater sampling activities. Groundwater samples were collected from wells WD-8 and WD-9. Groundwater samples were analyzed for volatile organic compounds (VOCs) and tetrahydrofuran (THF) according to EPA Method 8260B and total RCRA metals (EPA Method 6010 and 7470- see summary of analytical results in Table 1 and documentation in Appendix C).

3 Assessment Results

3.1 Groundwater Laboratory Analytical Results

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

WD-8- This well had the following NCGS exceedances:

- Arsenic detected at 23 µg/L versus a NCGS at 10 µg/L
- Barium detected at 1,400 µg/L versus a NCGS at 700 µg/L
- Cadmium detected at 3.3 µg/L versus a NCGS at 2 µg/L
- Chromium detected at 450 µg/L versus a NCGS at 10 µg/L
- Lead detected at 36 µg/L versus a NCGS at 15 µg/L

WD-9- This well had the following NCGS exceedances:

- Barium detected at 740 µg/L versus a NCGS at 700 µg/L
- Cadmium detected at 11 µg/L versus a NCGS at 2 µg/L
- Chromium detected at 30 µg/L versus a NCGS at 10 µg/L

All VOC results were BDL.

4 Conclusions and Recommendations

Based on the results of the newly installed groundwater monitoring wells, there were several low level NCGS exceedances for several inorganic constituents while the VOC results were BDL. It is strongly suspected that sediment in the samples have caused false positive readings with the inorganic constituents detected. We believe that this is corroborated by the fact that the samples were still somewhat cloudy and the fact that the VOCs which migrate more quickly than inorganic constituents were BDL. We would recommend the following:

- Both well should be further developed to remove sediment in the groundwater monitoring wells prior to the November 2014 semiannual sampling event. This will hopefully provide more representative sampling results for these newly installed groundwater monitoring wells.

WATERS EDGE ENVIRONMENTAL, LLC
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December 6, 2013

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

Reference: September/October 2013 Groundwater Monitoring Well Installation and 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 September/October 2013 groundwater monitoring well installation and sampling report 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.

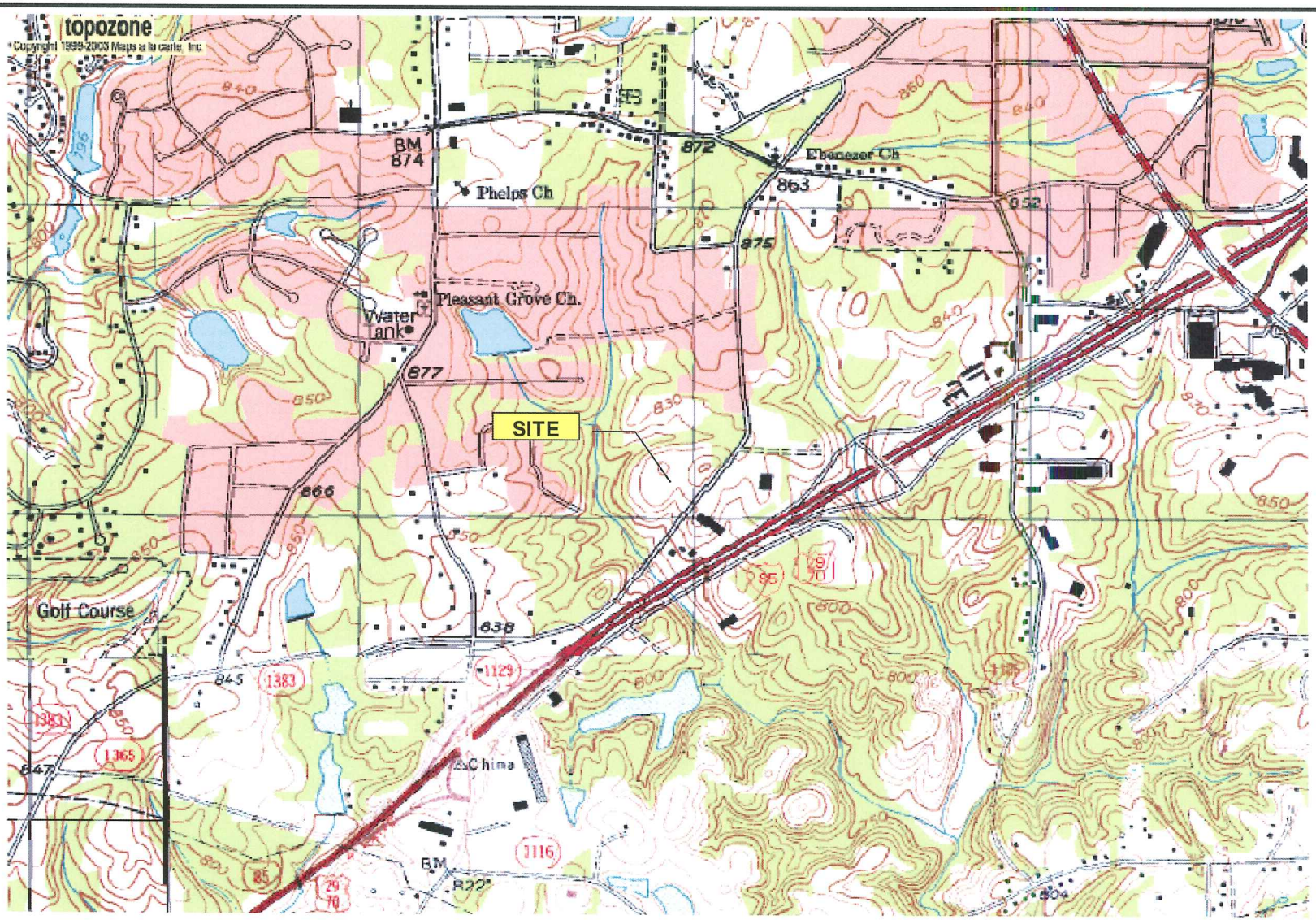
Sincerely,

WATERS EDGE ENVIRONMENTAL, LLC

Phillip L Rahn, P.G.
President

cc: Ms. Christine Ritter- NCDENR

13-097/PLR/aht



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: Babb & Ass / aht	Drawing: 13-097 F03	Layers:	Date: 6.19.13	Title: Groundwater Monitoring Well Location Map (November 2013)	
Job No.: R5-34	Revision: 12.10.2013	Figure: 3	Scale: 1" = 300'	Project: Wiley Davis Landfill Greensboro, North Carolina	

Table 1. Groundwater Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-8

Parameter	Units	2L Standard	Oct-13										
Volatile Organic Compounds													
Benzene	ug/L	1.0	.										
Chlorobenzene	ug/L	50	.										
Chloroethane	ug/L	2,800	.										
1,2-Dichlorobenzene (o-Dichloro)	ug/L	20	.										
1,3-Dichlorobenzene	ug/L	200	.										
1,4-Dichlorobenzene (p-Dichloro)	ug/L	6	.										
1,1-Dichloloethane	ug/L	6	.										
cis-1,2-Dichloroethene	ug/L	70	.										
Methylene Chloride	ug/L	5.0	.										
Naphthalene	ug/L	6	.										
Tetrahydrofuran	ug/L	4.6*	.										
Trichlorofluoromethane	ug/L	2,000	.										
Vinyl Chloride	ug/L	0.03	.										
Total VOCs	**ug/L**	**--**	**0**										
Metals (total)													
Arsenic	mg/l	0.01	**0.023**										
Barium	mg/l	0.7	**1.4**										
Cadmium	mg/l	0.002	**0.0033**										
Chromium	mg/l	0.01	**0.45**										
Lead	mg/l	0.015	**0.036**										
Mercury	mg/l	0.001	.										
Selenium	mg/l	0.02	.										
Silver	mg/l	0.02	.										

** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.

Table 1. Groundwater Laboratory Analytical Results, Wiley Davis Landfill, Greensboro, North Carolina

WD-9

Parameter	Units	2L Standard	Oct-13
Volatile Organic Compounds			
Benzene	ug/L	1.0	.
Chlorobenzene	ug/L	50	.
Chloroethane	ug/L	2,800	.
1,2-Dichlorobenzene (o-Dichloro)	ug/L	20	.
1,3-Dichlorobenzene	ug/L	200	.
1,4-Dichlorobenzene (p-Dichloro)	ug/L	6	.
1,1-Dichloloethane	ug/L	6	.
cis-1,2-Dichloroethene	ug/L	70	.
Methylene Chloride	ug/L	5.0	.
Naphthalene	ug/L	6	.
Tetrahydrofuran	ug/L	4.6*	.
Trichlorofluoromethane	ug/L	2,000	.
Vinyl Chloride	ug/L	0.03	.
Total VOCs	**ug/L**	--	**0**
Metals (total)			
Arsenic	mg/l	0.01	.
Barium	mg/l	0.7	**0.74**
Cadmium	mg/l	0.002	**0.011**
Chromium	mg/l	0.01	**0.03**
Lead	mg/l	0.015	.
Mercury	mg/l	0.001	.
Selenium	mg/l	0.02	.
Silver	mg/l	0.02	.

** - Recommended Interim Maxium Allowable Concentration (IMAC)*
Blank cells indicate compound not detected at the method detection limit.

Monitoring Well Installation

Monitoring wells are installed in both unconsolidated and consolidated formations to provide secure sampling points for discrete intervals within confined or unconfined aquifers or hydrostratigraphic units. Following drilling activities, typically 2 or 4-inch diameter PVC, or other material, monitoring well screen and casing is placed in the boring in accordance with the standards specified in the *RCRA Groundwater Monitoring Technical Enforcement Guidance Document*.

Well Construction:

Once the boring is complete, a groundwater monitoring well is constructed by installing a casing and screen to the desired depth. The annulus is typically backfilled to approximately 1 to 2 feet above the well screen with a sand pack selected based on the size of the formation material. A 1 to 2-foot bentonite seal is emplaced above the sand pack. The remaining annulus is then grouted to the surface with No. 1 Portland cement. The wellhead is secured with a watertight, lockable well cap and is protected by either a steel manhole cover (at grade) or steel casing (above grade). Refer to the well construction schematics for details of well construction.

Well Development:

Monitoring wells are typically developed using decontaminated Teflon bailers or new disposable bailers as surge blocks, by pumping, or by other acceptable well development procedures. Well development is performed to remove fines from the sand pack and well screen to minimize turbidity in samples and to improve the hydraulic connection between the well screen and the formation.

Surveying:

Surveying is performed to determine the relative reference point elevation of the wells. Elevations are referenced to either the state grid system (mean sea level) or an assumed elevation at a temporary benchmark established on-site. Elevations are measured to the nearest 0.01 foot, and are used for creating groundwater contour maps.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

KENNY SARGENT

Well Contractor Name

A - 4226

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/27/13 **Well ID#** WD-8

5a. Well Location:

WILEY DAVIS LANDFILL

Facility/Owner Name

Facility ID# (if applicable)

WILEY DAVIS ROAD GREENSBORO, NC 27407

Physical Address, City, and Zip

GUILFORD

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36° 00' 11.15" N 79° 51' 37.78" W

6. Is (are) the well(s): ☑Permanent or ☐Temporary

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 27.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 14.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 6.0 (in.)

12. Well construction method: AIR ROTARY

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	12.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
12.0 ft.	27.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	7.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
10.0 ft.	27.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	22.0 ft.	BROWN SANDY PWR
22.0 ft.	27.0 ft.	BROWN SANDY CLAY
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 7.0 TO 10.0 FEET

22. Certification:

Signature of Certified Well Contractor

10/01/13

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

KENNY SARGENT

Well Contractor Name

A - 4226

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 09/27/13 **Well ID#** WD-9

5a. Well Location:

WILEY DAVIS LANDFILL

Facility/Owner Name

Facility ID# (if applicable)

WILEY DAVIS ROAD GREENSBORO, NC 27407

Physical Address, City, and Zip

GUILFORD

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36° 00' 10.40" N 79° 51' 34.16" W

6. Is (are) the well(s): ☑Permanent or ☐Temporary

7. Is this a repair to an existing well: ☐Yes or ☑No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 25.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 12.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 6.0 (in.)

12. Well construction method: AIR ROTARY

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	10.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10.0 ft.	25.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	5.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
8.0 ft.	25.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	13.0 ft.	BROWN SANDY PWR
13.0 ft.	25.0 ft.	GRAY ROCK
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 5.0 TO 8.0 FEET

22. Certification:

Signature of Certified Well Contractor — Date: 10/01/13

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

Pace Analytical®
www.pacelabs.com

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 29, 2013

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

RE: Project: Wiley Davis Landfill
Pace Project No.: 92175723

Dear Mr. Rahn:
Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Terri Page

Terri Page

terri.page@pacelabs.com
Project Manager

Enclosures

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

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(704)875-9092

CERTIFICATIONS

Project: Wiley Davis Landfill
Pace Project No.: 92175723

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Wiley Davis Landfill
Pace Project No.: 92175723

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92175723001	**WD-5**	Water	10/11/13 12:00	10/14/13 09:16
92175723002	**WD-6**	Water	10/11/13 00:00	10/14/13 09:16

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Wiley Davis Landfill
Pace Project No.: 92175723

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92175723001	WD-5	EPA 6010	JMW	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	65	PASI-C
92175723002	WD-6	EPA 6010	JMW	7	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	65	PASI-C

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ANALYTICAL RESULTS

Project: Wiley Davis Landfill
Pace Project No.: 92175723

Sample: WD-5 **Lab ID: 92175723001** Collected: 10/11/13 12:00 Received: 10/14/13 09:16 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	**0.023**	mg/L	0.010	0.0027	1	10/18/13 10:00	10/18/13 18:31	7440-38-2	
Barium	**1.4**	mg/L	0.0050	0.0025	1	10/18/13 10:00	10/18/13 18:31	7440-39-3	
Cadmium	**0.0033**	mg/L	0.0010	0.00050	1	10/18/13 10:00	10/18/13 18:31	7440-43-9	
Chromium	**0.45**	mg/L	0.0050	0.0020	1	10/18/13 10:00	10/18/13 18:31	7440-47-3	
Lead	**0.036**	mg/L	0.0050	0.0040	1	10/18/13 10:00	10/18/13 18:31	7439-92-1	
Selenium	ND	mg/L	0.010	0.0050	1	10/18/13 10:00	10/18/13 18:31	7782-49-2	
Silver	ND	mg/L	0.0050	0.0025	1	10/18/13 10:00	10/18/13 18:31	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.00024**	mg/L	0.00020	0.00010	1	10/21/13 17:00	10/22/13 19:51	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Benzene	ND	mg/L	0.0010	0.00025	1		10/16/13 21:14	71-43-2	
Bromobenzene	ND	mg/L	0.0010	0.00030	1		10/16/13 21:14	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	0.00017	1		10/16/13 21:14	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	0.00018	1		10/16/13 21:14	75-27-4	
Bromoform	ND	mg/L	0.0010	0.00026	1		10/16/13 21:14	75-25-2	
Bromomethane	ND	mg/L	0.0020	0.00029	1		10/16/13 21:14	74-83-9	
n-Butylbenzene	ND	mg/L	0.0010	0.00041	1		10/16/13 21:14	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	0.00038	1		10/16/13 21:14	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	0.00040	1		10/16/13 21:14	98-06-6	
Carbon tetrachloride	ND	mg/L	0.0010	0.00025	1		10/16/13 21:14	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	0.00023	1		10/16/13 21:14	108-90-7	
Chloroethane	ND	mg/L	0.0010	0.00054	1		10/16/13 21:14	75-00-3	
Chloroform	ND	mg/L	0.0010	0.00014	1		10/16/13 21:14	67-66-3	
Chloromethane	ND	mg/L	0.0010	0.00011	1		10/16/13 21:14	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	0.00035	1		10/16/13 21:14	95-49-8	
4-Chlorotoluene	ND	mg/L	0.0010	0.00031	1		10/16/13 21:14	106-43-4	
Dibromochloromethane	ND	mg/L	0.0010	0.00021	1		10/16/13 21:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0010	0.00027	1		10/16/13 21:14	106-93-4	
Dibromomethane	ND	mg/L	0.0010	0.00021	1		10/16/13 21:14	74-95-3	
1,2-Dichlorobenzene	ND	mg/L	0.0010	0.00030	1		10/16/13 21:14	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0010	0.00024	1		10/16/13 21:14	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0010	0.00033	1		10/16/13 21:14	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0010	0.00021	1		10/16/13 21:14	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		10/16/13 21:14	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		10/16/13 21:14	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/L	0.0010	0.00049	1		10/16/13 21:14	540-59-0	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		10/16/13 21:14	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		10/16/13 21:14	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		10/16/13 21:14	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0010	0.00027	1		10/16/13 21:14	78-87-5	
1,3-Dichloropropane	ND	mg/L	0.0010	0.00028	1		10/16/13 21:14	142-28-9	
2,2-Dichloropropane	ND	mg/L	0.0010	0.00013	1		10/16/13 21:14	594-20-7	
1,1-Dichloropropene	ND	mg/L	0.0010	0.00049	1		10/16/13 21:14	563-58-6	
Diisopropyl ether	ND	mg/L	0.0010	0.00012	1		10/16/13 21:14	108-20-3	

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ANALYTICAL RESULTS

Project: Wiley Davis Landfill
Pace Project No.: 92175723

Sample: WD-5 **Lab ID: 92175723001** Collected: 10/11/13 12:00 Received: 10/14/13 09:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Ethylbenzene	ND	mg/L	0.0010	0.00030	1		10/16/13 21:14	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/L	0.0010	0.00071	1		10/16/13 21:14	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/L	0.0010	0.00040	1		10/16/13 21:14	98-82-8	
p-Isopropyltoluene	ND	mg/L	0.0010	0.00031	1		10/16/13 21:14	99-87-6	
Methylene Chloride	ND	mg/L	0.0020	0.00097	1		10/16/13 21:14	75-09-2	
Methyl-tert-butyl ether	ND	mg/L	0.0010	0.00021	1		10/16/13 21:14	1634-04-4	
Naphthalene	ND	mg/L	0.0010	0.00024	1		10/16/13 21:14	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	0.00042	1		10/16/13 21:14	103-65-1	
Styrene	ND	mg/L	0.0010	0.00026	1		10/16/13 21:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	0.00033	1		10/16/13 21:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	0.00040	1		10/16/13 21:14	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		10/16/13 21:14	127-18-4	
Tetrahydrofuran	ND	mg/L	0.010	0.0031	1		10/16/13 21:14	109-99-9	
Toluene	ND	mg/L	0.0010	0.00026	1		10/16/13 21:14	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	0.00033	1		10/16/13 21:14	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	0.00035	1		10/16/13 21:14	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		10/16/13 21:14	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	0.00029	1		10/16/13 21:14	79-00-5	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		10/16/13 21:14	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	0.00020	1		10/16/13 21:14	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0010	0.00041	1		10/16/13 21:14	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	0.00031	1		10/16/13 21:14	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	0.00036	1		10/16/13 21:14	108-67-8	
Vinyl acetate	ND	mg/L	0.0020	0.00035	1		10/16/13 21:14	108-05-4	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		10/16/13 21:14	75-01-4	
Xylene (Total)	ND	mg/L	0.0020	0.00066	1		10/16/13 21:14	1330-20-7	
m&p-Xylene	ND	mg/L	0.0020	0.00066	1		10/16/13 21:14	179601-23-1	
o-Xylene	ND	mg/L	0.0010	0.00023	1		10/16/13 21:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/16/13 21:14	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/16/13 21:14	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/16/13 21:14	2037-26-5	

Sample: WD-6 **Lab ID: 92175723002** Collected: 10/11/13 00:00 Received: 10/14/13 09:16 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	0.010	0.0027	1	10/16/13 12:10	10/17/13 13:08	7440-38-2	H3
Barium	**0.74**	mg/L	0.0050	0.0025	1	10/16/13 12:10	10/17/13 13:08	7440-39-3	H3
Cadmium	**0.011**	mg/L	0.0010	0.00050	1	10/16/13 12:10	10/17/13 13:08	7440-43-9	H3
Chromium	**0.030**	mg/L	0.0050	0.0020	1	10/16/13 12:10	10/17/13 13:08	7440-47-3	H3
Lead	ND	mg/L	0.0050	0.0040	1	10/16/13 12:10	10/17/13 13:08	7439-92-1	H3
Selenium	ND	mg/L	0.010	0.0050	1	10/16/13 12:10	10/17/13 13:08	7782-49-2	H3

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ANALYTICAL RESULTS

Project: Wiley Davis Landfill
Pace Project No.: 92175723

Sample: WD-6 **Lab ID: 92175723002** Collected: 10/11/13 00:00 Received: 10/14/13 09:16 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								
Silver	ND	mg/L	0.0050	0.0025	1	10/16/13 12:10	10/17/13 13:08	7440-22-4	H3
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	mg/L	0.00020	0.00010	1	10/21/13 17:00	10/22/13 19:35	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Benzene	ND	mg/L	0.0010	0.00025	1		10/16/13 21:30	71-43-2	
Bromobenzene	ND	mg/L	0.0010	0.00030	1		10/16/13 21:30	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	0.00017	1		10/16/13 21:30	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	0.00018	1		10/16/13 21:30	75-27-4	
Bromoform	ND	mg/L	0.0010	0.00026	1		10/16/13 21:30	75-25-2	
Bromomethane	ND	mg/L	0.0020	0.00029	1		10/16/13 21:30	74-83-9	
n-Butylbenzene	ND	mg/L	0.0010	0.00041	1		10/16/13 21:30	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	0.00038	1		10/16/13 21:30	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	0.00040	1		10/16/13 21:30	98-06-6	
Carbon tetrachloride	ND	mg/L	0.0010	0.00025	1		10/16/13 21:30	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	0.00023	1		10/16/13 21:30	108-90-7	
Chloroethane	ND	mg/L	0.0010	0.00054	1		10/16/13 21:30	75-00-3	
Chloroform	ND	mg/L	0.0010	0.00014	1		10/16/13 21:30	67-66-3	
Chloromethane	ND	mg/L	0.0010	0.00011	1		10/16/13 21:30	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	0.00035	1		10/16/13 21:30	95-49-8	
4-Chlorotoluene	ND	mg/L	0.0010	0.00031	1		10/16/13 21:30	106-43-4	
Dibromochloromethane	ND	mg/L	0.0010	0.00021	1		10/16/13 21:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0010	0.00027	1		10/16/13 21:30	106-93-4	
Dibromomethane	ND	mg/L	0.0010	0.00021	1		10/16/13 21:30	74-95-3	
1,2-Dichlorobenzene	ND	mg/L	0.0010	0.00030	1		10/16/13 21:30	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0010	0.00024	1		10/16/13 21:30	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0010	0.00033	1		10/16/13 21:30	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0010	0.00021	1		10/16/13 21:30	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0010	0.00032	1		10/16/13 21:30	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	0.00012	1		10/16/13 21:30	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/L	0.0010	0.00049	1		10/16/13 21:30	540-59-0	
1,1-Dichloroethene	ND	mg/L	0.0010	0.00056	1		10/16/13 21:30	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	0.00019	1		10/16/13 21:30	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	0.00049	1		10/16/13 21:30	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0010	0.00027	1		10/16/13 21:30	78-87-5	
1,3-Dichloropropane	ND	mg/L	0.0010	0.00028	1		10/16/13 21:30	142-28-9	
2,2-Dichloropropane	ND	mg/L	0.0010	0.00013	1		10/16/13 21:30	594-20-7	
1,1-Dichloropropene	ND	mg/L	0.0010	0.00049	1		10/16/13 21:30	563-58-6	
Diisopropyl ether	ND	mg/L	0.0010	0.00012	1		10/16/13 21:30	108-20-3	
Ethylbenzene	ND	mg/L	0.0010	0.00030	1		10/16/13 21:30	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/L	0.0010	0.00071	1		10/16/13 21:30	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/L	0.0010	0.00040	1		10/16/13 21:30	98-82-8	
p-Isopropyltoluene	ND	mg/L	0.0010	0.00031	1		10/16/13 21:30	99-87-6	
Methylene Chloride	ND	mg/L	0.0020	0.00097	1		10/16/13 21:30	75-09-2	
Methyl-tert-butyl ether	ND	mg/L	0.0010	0.00021	1		10/16/13 21:30	1634-04-4	

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ANALYTICAL RESULTS

Project: Wiley Davis Landfill
Pace Project No.: 92175723

Sample: WD-6 **Lab ID: 92175723002** Collected: 10/11/13 00:00 Received: 10/14/13 09:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Naphthalene	ND	mg/L	0.0010	0.00024	1		10/16/13 21:30	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	0.00042	1		10/16/13 21:30	103-65-1	
Styrene	ND	mg/L	0.0010	0.00026	1		10/16/13 21:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	0.00033	1		10/16/13 21:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	0.00040	1		10/16/13 21:30	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	0.00046	1		10/16/13 21:30	127-18-4	
Tetrahydrofuran	ND	mg/L	0.010	0.0031	1		10/16/13 21:30	109-99-9	
Toluene	ND	mg/L	0.0010	0.00026	1		10/16/13 21:30	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	0.00033	1		10/16/13 21:30	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	0.00035	1		10/16/13 21:30	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	0.00048	1		10/16/13 21:30	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	0.00029	1		10/16/13 21:30	79-00-5	
Trichloroethene	ND	mg/L	0.0010	0.00047	1		10/16/13 21:30	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	0.00020	1		10/16/13 21:30	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0010	0.00041	1		10/16/13 21:30	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	0.00031	1		10/16/13 21:30	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	0.00036	1		10/16/13 21:30	108-67-8	
Vinyl acetate	ND	mg/L	0.0020	0.00035	1		10/16/13 21:30	108-05-4	
Vinyl chloride	ND	mg/L	0.0010	0.00062	1		10/16/13 21:30	75-01-4	
Xylene (Total)	ND	mg/L	0.0020	0.00066	1		10/16/13 21:30	1330-20-7	
m&p-Xylene	ND	mg/L	0.0020	0.00066	1		10/16/13 21:30	179601-23-1	
o-Xylene	ND	mg/L	0.0010	0.00023	1		10/16/13 21:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/16/13 21:30	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/16/13 21:30	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/16/13 21:30	2037-26-5	

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QUALITY CONTROL DATA

Project: Wiley Davis Landfill
Pace Project No.: 92175723

QC Batch: MERP/5715
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92175723001, 92175723002

METHOD BLANK: 1069728 Matrix: Water
Associated Lab Samples: 92175723001, 92175723002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	10/22/13 19:30	

LABORATORY CONTROL SAMPLE: 1069729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0028	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1069730 1069731

Parameter	Units	92175723002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.0025	.0025	0.0029	0.0030	111	114	75-125	2	25	

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QUALITY CONTROL DATA

Project: Wiley Davis Landfill
Pace Project No.: 92175723

QC Batch: MPRP/14443
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 92175723002

METHOD BLANK: 1066621 Matrix: Water
Associated Lab Samples: 92175723002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	10/17/13 13:02	
Barium	mg/L	ND	0.0050	10/17/13 13:02	
Cadmium	mg/L	ND	0.0010	10/17/13 13:02	
Chromium	mg/L	ND	0.0050	10/17/13 13:02	
Lead	mg/L	ND	0.0050	10/17/13 13:02	
Selenium	mg/L	ND	0.010	10/17/13 13:02	
Silver	mg/L	ND	0.0050	10/17/13 13:02	

LABORATORY CONTROL SAMPLE: 1066622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.50	100	80-120	
Barium	mg/L	.5	0.52	103	80-120	
Cadmium	mg/L	.5	0.50	100	80-120	
Chromium	mg/L	.5	0.51	101	80-120	
Lead	mg/L	.5	0.50	101	80-120	
Selenium	mg/L	.5	0.51	102	80-120	
Silver	mg/L	.25	0.25	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066623 1066624

Parameter	Units	92175723002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	.5	.5	0.50	0.51	100	101	75-125	1	20	
Barium	mg/L	0.74	.5	.5	1.3	1.3	104	103	75-125	0	20	
Cadmium	mg/L	0.011	.5	.5	0.48	0.49	94	95	75-125	1	20	
Chromium	mg/L	0.030	.5	.5	0.53	0.53	100	100	75-125	0	20	
Lead	mg/L	ND	.5	.5	0.44	0.45	87	88	75-125	2	20	
Selenium	mg/L	ND	.5	.5	0.51	0.51	100	101	75-125	1	20	
Silver	mg/L	ND	.25	.25	0.26	0.26	103	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Wiley Davis Landfill
Pace Project No.: 92175723

QC Batch: MPRP/14464
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 92175723001

METHOD BLANK: 1068354 Matrix: Water
Associated Lab Samples: 92175723001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	10/18/13 17:47	
Barium	mg/L	ND	0.0050	10/18/13 17:47	
Cadmium	mg/L	ND	0.0010	10/18/13 17:47	
Chromium	mg/L	ND	0.0050	10/18/13 17:47	
Lead	mg/L	ND	0.0050	10/21/13 13:35	
Selenium	mg/L	ND	0.010	10/18/13 17:47	
Silver	mg/L	ND	0.0050	10/18/13 17:47	

LABORATORY CONTROL SAMPLE: 1068355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.47	93	80-120	
Barium	mg/L	.5	0.48	97	80-120	
Cadmium	mg/L	.5	0.50	101	80-120	
Chromium	mg/L	.5	0.53	105	80-120	
Lead	mg/L	.5	0.49	99	80-120	
Selenium	mg/L	.5	0.49	97	80-120	
Silver	mg/L	.25	0.26	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1068356 1068357

Parameter	Units	92175757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	.5	.5	0.47	0.48	94	95	75-125	2	20	
Barium	mg/L	198 ug/L	.5	.5	0.68	0.69	97	98	75-125	1	20	
Cadmium	mg/L	ND	.5	.5	0.50	0.50	99	101	75-125	2	20	
Chromium	mg/L	ND	.5	.5	0.52	0.53	105	105	75-125	1	20	
Lead	mg/L	ND	.5	.5	0.47	0.48	94	95	75-125	1	20	
Selenium	mg/L	5.3J ug/L	.5	.5	0.48	0.48	95	96	75-125	1	20	
Silver	mg/L	ND	.25	.25	0.25	0.25	100	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: Wiley Davis Landfill
Pace Project No.: 92175723

QC Batch: MSV/24576
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92175723001, 92175723002

METHOD BLANK: 1066818
Matrix: Water
Associated Lab Samples: 92175723001, 92175723002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	ND	0.0010	10/16/13 15:37	
1,1,1-Trichloroethane	mg/L	ND	0.0010	10/16/13 15:37	
1,1,2,2-Tetrachloroethane	mg/L	ND	0.0010	10/16/13 15:37	
1,1,2-Trichloroethane	mg/L	ND	0.0010	10/16/13 15:37	
1,1-Dichloroethane	mg/L	ND	0.0010	10/16/13 15:37	
1,1-Dichloroethene	mg/L	ND	0.0010	10/16/13 15:37	
1,1-Dichloropropene	mg/L	ND	0.0010	10/16/13 15:37	
1,2,3-Trichlorobenzene	mg/L	ND	0.0010	10/16/13 15:37	
1,2,3-Trichloropropane	mg/L	ND	0.0010	10/16/13 15:37	
1,2,4-Trichlorobenzene	mg/L	ND	0.0010	10/16/13 15:37	
1,2,4-Trimethylbenzene	mg/L	ND	0.0010	10/16/13 15:37	
1,2-Dibromoethane (EDB)	mg/L	ND	0.0010	10/16/13 15:37	
1,2-Dichlorobenzene	mg/L	ND	0.0010	10/16/13 15:37	
1,2-Dichloroethane	mg/L	ND	0.0010	10/16/13 15:37	
1,2-Dichloroethene (Total)	mg/L	ND	0.0010	10/16/13 15:37	
1,2-Dichloropropane	mg/L	ND	0.0010	10/16/13 15:37	
1,3,5-Trimethylbenzene	mg/L	ND	0.0010	10/16/13 15:37	
1,3-Dichlorobenzene	mg/L	ND	0.0010	10/16/13 15:37	
1,3-Dichloropropane	mg/L	ND	0.0010	10/16/13 15:37	
1,4-Dichlorobenzene	mg/L	ND	0.0010	10/16/13 15:37	
2,2-Dichloropropane	mg/L	ND	0.0010	10/16/13 15:37	
2-Chlorotoluene	mg/L	ND	0.0010	10/16/13 15:37	
4-Chlorotoluene	mg/L	ND	0.0010	10/16/13 15:37	
Benzene	mg/L	ND	0.0010	10/16/13 15:37	
Bromobenzene	mg/L	ND	0.0010	10/16/13 15:37	
Bromochloromethane	mg/L	ND	0.0010	10/16/13 15:37	
Bromodichloromethane	mg/L	ND	0.0010	10/16/13 15:37	
Bromoform	mg/L	ND	0.0010	10/16/13 15:37	
Bromomethane	mg/L	ND	0.0020	10/16/13 15:37	
Carbon tetrachloride	mg/L	ND	0.0010	10/16/13 15:37	
Chlorobenzene	mg/L	ND	0.0010	10/16/13 15:37	
Chloroethane	mg/L	ND	0.0010	10/16/13 15:37	
Chloroform	mg/L	ND	0.0010	10/16/13 15:37	
Chloromethane	mg/L	ND	0.0010	10/16/13 15:37	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	10/16/13 15:37	
Dibromochloromethane	mg/L	ND	0.0010	10/16/13 15:37	
Dibromomethane	mg/L	ND	0.0010	10/16/13 15:37	
Dichlorodifluoromethane	mg/L	ND	0.0010	10/16/13 15:37	
Diisopropyl ether	mg/L	ND	0.0010	10/16/13 15:37	
Ethylbenzene	mg/L	ND	0.0010	10/16/13 15:37	
Hexachloro-1,3-butadiene	mg/L	ND	0.0010	10/16/13 15:37	
Isopropylbenzene (Cumene)	mg/L	ND	0.0010	10/16/13 15:37	
m&p-Xylene	mg/L	ND	0.0020	10/16/13 15:37	

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QUALITY CONTROL DATA

Project: Wiley Davis Landfill
Pace Project No.: 92175723

METHOD BLANK: 1066818 Matrix: Water

Associated Lab Samples: 92175723001, 92175723002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methyl-tert-butyl ether	mg/L	ND	0.0010	10/16/13 15:37	
Methylene Chloride	mg/L	ND	0.0020	10/16/13 15:37	
n-Butylbenzene	mg/L	ND	0.0010	10/16/13 15:37	
n-Propylbenzene	mg/L	ND	0.0010	10/16/13 15:37	
Naphthalene	mg/L	ND	0.0010	10/16/13 15:37	
o-Xylene	mg/L	ND	0.0010	10/16/13 15:37	
p-Isopropyltoluene	mg/L	ND	0.0010	10/16/13 15:37	
sec-Butylbenzene	mg/L	ND	0.0010	10/16/13 15:37	
Styrene	mg/L	ND	0.0010	10/16/13 15:37	
tert-Butylbenzene	mg/L	ND	0.0010	10/16/13 15:37	
Tetrachloroethene	mg/L	ND	0.0010	10/16/13 15:37	
Tetrahydrofuran	mg/L	ND	0.010	10/16/13 15:37	
Toluene	mg/L	ND	0.0010	10/16/13 15:37	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	10/16/13 15:37	
Trichloroethene	mg/L	ND	0.0010	10/16/13 15:37	
Trichlorofluoromethane	mg/L	ND	0.0010	10/16/13 15:37	
Vinyl acetate	mg/L	ND	0.0020	10/16/13 15:37	
Vinyl chloride	mg/L	ND	0.0010	10/16/13 15:37	
Xylene (Total)	mg/L	ND	0.0020	10/16/13 15:37	
1,2-Dichloroethane-d4 (S)	%	93	70-130	10/16/13 15:37	
4-Bromofluorobenzene (S)	%	100	70-130	10/16/13 15:37	
Toluene-d8 (S)	%	95	70-130	10/16/13 15:37	

LABORATORY CONTROL SAMPLE: 1066819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	.05	0.051	101	70-130	
1,1,1-Trichloroethane	mg/L	.05	0.045	91	70-130	
1,1,2,2-Tetrachloroethane	mg/L	.05	0.053	107	70-130	
1,1,2-Trichloroethane	mg/L	.05	0.052	105	70-130	
1,1-Dichloroethane	mg/L	.05	0.048	97	70-130	
1,1-Dichloroethene	mg/L	.05	0.051	102	70-132	
1,1-Dichloropropene	mg/L	.05	0.054	107	70-130	
1,2,3-Trichlorobenzene	mg/L	.05	0.056	113	70-135	
1,2,3-Trichloropropane	mg/L	.05	0.054	108	70-130	
1,2,4-Trichlorobenzene	mg/L	.05	0.057	113	70-134	
1,2,4-Trimethylbenzene	mg/L	.05	0.054	108	70-130	
1,2-Dibromoethane (EDB)	mg/L	.05	0.055	109	70-130	
1,2-Dichlorobenzene	mg/L	.05	0.056	112	70-130	
1,2-Dichloroethane	mg/L	.05	0.044	89	70-130	
1,2-Dichloroethene (Total)	mg/L	.1	0.099	99	70-130	
1,2-Dichloropropane	mg/L	.05	0.058	115	70-130	
1,3,5-Trimethylbenzene	mg/L	.05	0.053	107	70-130	
1,3-Dichlorobenzene	mg/L	.05	0.055	109	70-130	
1,3-Dichloropropane	mg/L	.05	0.057	114	70-130	

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QUALITY CONTROL DATA

Project: Wiley Davis Landfill
Pace Project No.: 92175723

LABORATORY CONTROL SAMPLE: 1066819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	mg/L	.05	0.054	108	70-130	
2,2-Dichloropropane	mg/L	.05	0.051	102	58-145	
2-Chlorotoluene	mg/L	.05	0.057	114	70-130	
4-Chlorotoluene	mg/L	.05	0.056	111	70-130	
Benzene	mg/L	.05	0.052	103	70-130	
Bromobenzene	mg/L	.05	0.053	106	70-130	
Bromochloromethane	mg/L	.05	0.047	94	70-130	
Bromodichloromethane	mg/L	.05	0.049	98	70-130	
Bromoform	mg/L	.05	0.050	100	70-130	
Bromomethane	mg/L	.05	0.043	86	54-130	
Carbon tetrachloride	mg/L	.05	0.045	90	70-132	
Chlorobenzene	mg/L	.05	0.052	104	70-130	
Chloroethane	mg/L	.05	0.049	98	64-134	
Chloroform	mg/L	.05	0.048	96	70-130	
Chloromethane	mg/L	.05	0.053	106	64-130	
cis-1,2-Dichloroethene	mg/L	.05	0.050	100	70-131	
Dibromochloromethane	mg/L	.05	0.050	100	70-130	
Dibromomethane	mg/L	.05	0.050	100	70-131	
Dichlorodifluoromethane	mg/L	.05	0.046	93	56-130	
Diisopropyl ether	mg/L	.05	0.056	111	70-130	
Ethylbenzene	mg/L	.05	0.051	101	70-130	
Hexachloro-1,3-butadiene	mg/L	.05	0.054	108	70-130	
Isopropylbenzene (Cumene)	mg/L	.05	0.057	115	70-130	
m&p-Xylene	mg/L	.1	0.11	106	70-130	
Methyl-tert-butyl ether	mg/L	.05	0.051	101	70-130	
Methylene Chloride	mg/L	.05	0.050	100	63-130	
n-Butylbenzene	mg/L	.05	0.057	115	70-130	
n-Propylbenzene	mg/L	.05	0.056	111	70-130	
Naphthalene	mg/L	.05	0.058	116	70-138	
o-Xylene	mg/L	.05	0.056	113	70-130	
p-Isopropyltoluene	mg/L	.05	0.058	116	70-130	
sec-Butylbenzene	mg/L	.05	0.058	116	70-130	
Styrene	mg/L	.05	0.055	110	70-130	
tert-Butylbenzene	mg/L	.05	0.058	115	70-130	
Tetrachloroethene	mg/L	.05	0.055	109	70-130	
Tetrahydrofuran	mg/L	.5	0.60	120	70-130	
Toluene	mg/L	.05	0.050	100	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.050	99	70-130	
Trichloroethene	mg/L	.05	0.050	101	70-130	
Trichlorofluoromethane	mg/L	.05	0.041	83	62-133	
Vinyl acetate	mg/L	.1	0.12	122	66-157	
Vinyl chloride	mg/L	.05	0.053	105	69-130	
Xylene (Total)	mg/L	.15	0.16	108	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: Wiley Davis Landfill
Pace Project No.: 92175723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1067725 1067726

Parameter	Units	92175832021 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	0.047	0.043	94	87	70-166	8	30	
Benzene	mg/L	ND	.05	.05	0.057	0.051	114	101	70-148	12	30	
Chlorobenzene	mg/L	ND	.05	.05	0.055	0.048	110	96	70-146	13	30	
Toluene	mg/L	ND	.05	.05	0.052	0.046	104	92	70-155	12	30	
Trichloroethene	mg/L	ND	.05	.05	0.059	0.053	119	106	69-151	11	30	
1,2-Dichloroethane-d4 (S)	%						93	93	70-130			
4-Bromofluorobenzene (S)	%						102	98	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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QUALIFIERS

Project: Wiley Davis Landfill
Pace Project No.: 92175723

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wiley Davis Landfill
Pace Project No.: 92175723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92175723001	WD-5	EPA 3010	MPRP/14464	EPA 6010	ICP/13150
92175723002	WD-6	EPA 3010	MPRP/14443	EPA 6010	ICP/13129
92175723001	WD-5	EPA 7470	MERP/5715	EPA 7470	MERC/5531
92175723002	WD-6	EPA 7470	MERP/5715	EPA 7470	MERC/5531
92175723001	WD-5	EPA 8260	MSV/24576		
92175723002	WD-6	EPA 8260	MSV/24576		

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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

1699849

Section A Required Client Information:

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

Section B Required Project Information:

Report To:	Phil Rohn
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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260+THE	RCRA METALS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WD-5	WT	G	10/11/13	1200				~~4~~			1	3						✓	✓		92175723
2	WD-6	WT	G	10/11/13	1300				4			1	3						✓	✓		
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	10/14/13	0916	Brittany Gibson	10/14/13	0916	1.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Haynes

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10/11/13

*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.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

1699849

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	S260+THE	RCRA METALS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WD-5	WT	G	10/11/13	1200				4			1	3						✓	✓		92173723
2	WD-6	WT	G	10/11/13	1300				4			1	3						✓	✓		
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	10/14/13	0916	Brittany Gbsr	10/14/13	0916	1.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Hughes

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10/11/13

2

*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.

F-ALL-Q-020rev.07, 15-May-2007

Client Name: Waters Edge

Where Received: ☐ Huntersville ☐ Asheville ☒ Eden ☐ Raleigh

Courier (circle): Fed Ex UPS USPS (Client) Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other_____

Thermometer Used: IR Gun ED007 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor: (Add) / Subtract 0.1 C

Corrected Cooler Temp.: 1.9 C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 10/14/13 BLG

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed BLG
Samples checked for dechlorination:	☒Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (If purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: JNP Date: 10/14/13

SRF Review: Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

OR

Handwrite project number (if no label available)