DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

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).
- 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):

Richardson Smith Gardner and Associates, Inc.

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

Name: Madeline German, PG Phone: 919-828-0577 x 222

E-mail: madeline@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Avery County C&D Landfill	Brushy Creek Road, Spruce Pine, NC	06-03	.0500	October 3, 2011

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.

Madeline German, PG — Geologist — 919-828-0577 x 222

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

Signature — 1/26/2012 Date — Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED 1/26/2012 SE 22.5 GEOLOGIST MADELINE GERMAN

14 N. Boylan Ave., Raleigh NC 27603

Facility Representative Address

C0828

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

T IS A E INTENTIONALL LE T BLAN

Avery County C&D Landfill

round Water Monitoring Report

all 2011 Semi annual Monitoring Event

Avery County Landfill
Ne land North Carolina
NC Solid Waste ermit 0 03

Prepared for:
Avery County Solid Waste
175 Linville St.
Newland, North Carolina 28657

anuary 2012

RICHARDSON SMITH GARDNER
& ASSOCIATES
ENGINEERING & GEOLOGICAL
SERVICES

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T IS A E INTENTIONALL LE T BLAN

Avery County C&D Landfill
Semi-annual Ground Water Monitoring Report
Fall 2011 Sampling Event

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Table 2 – Field Parameter Results
Table 3 – Detected Constituents
Table 4 – Indicator Parameters

APPENDICES

Appendix A – Field Data Sheets
Appendix B – Monitoring Well Information
Appendix C – Laboratory Analytical Report

T IS A E INTENTIONALL LE T BLAN

1.0 Introduction

Avery County C&D Landfill, currently operating under Solid Waste Permit # 06-03 (C&D) and 15A NCAC 13B.0544, is required to submit semi-annual ground water monitoring reports. This report presents the semi-annual sampling results for the event conducted on October 3, 2011.

The ground water monitoring network for the C&D landfill includes four ground water monitoring wells. This report includes a field parameter summary, laboratory analyses and a hydrogeologic evaluation.

2.0 Site Geology and Hydrogeology

The Avery County C&D Landfill is located in the Blue Ridge province of North Carolina, along the eastern limb of the Blue Ridge anticlinorium. Published geologic mapping[1] spots the site approximately twelve miles west of the Brevard Zone (measured perpendicular to strike), which is the boundary of the Blue Ridge Belt and the Piedmont. Local rock types comprise medium- to high-grade metamorphic species of sedimentary origin, and plutonic rocks of mid Proterozoic age (>1000 MY) to Devonian age (390 MY). The rocks in the region tend to be highly jointed, due to the mechanical stresses imposed, with the older rocks typically exhibiting more complex jointing.

Due to few outcrops in the area, collected rock cores were used to confirm the geologic mapping. The NC Geologic Map presents Alligator Back amphibolite underlying the higher, northern portion, surrounded by Alligator Back gneiss, including the lower, southern portion, with Grenville-age biotite gneiss existing close by to the east and Devonian quartz diorite further south. The surface topography reflects the underlying geology e.g., the southern, gentler slopes near Brushy Creek are probably indicative of the more deeply weathered micaceous gneiss and schist, whereas the steeper northern terrain likely results from the more resistant amphibolite. Test borings confirmed the gneiss and amphibolite contact.

The following table illustrates field established hydraulic conductivity values from site piezometers, grouped relative to principal hydrogeologic units defined on the basis of material density. The field hydraulic conductivity values relative to each hydrogeologic unit vary as follows:

[1] North Carolina Geologic Survey at http://www.geology.enr.state.nc.us

Hydro. Unit	Unit Description	Conductivity (cm/sec) Max.	Min.	Avg.	Conductivity (ft/day) Max.	Min.	Avg.
1A	Saprolite <100 bpf	7.67E-4 PZ-13i	3.42E-4 PZ-12	4.92E-4	2.17 PZ-13i	0.968 PZ-12	1.40
1B	Saprolite >100 bpf	1.60E-3 PZ-9	8.19E-6 MW-3d	7.24E-4	4.53 PZ-9	0.002 MW-3d	2.05
2	Bedrock	2.66E-3 MW-1d	5.64E-4 B-6	1.61E-3	7.53 MW-1d	1.60 B-6	4.65

Conductivity data indicates a slight increasing trend with depth, potentially due to higher clay content in the upper soils, more sand-like conditions and fracturing at depth, as indicated by the low Rock Quality Data (RQD) values.

3.0 Sampling Procedures

Richardson Smith Gardner & Associates (RSG) personnel performed the sampling event, October 3, 2011 in accordance with the approved Sampling and Analysis Plan. Samples were collected from four ground water wells (CDMW-1a, CDMW-2s, CDMW-3s and CDMW-4s), and two surface water monitoring locations (SW-1 & SW-2).

Sampling methods followed the protocol outlined in the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities (NCDENR, DWM). The depth to water in each well was gauged prior to purging and sampling. Field measurements for pH, specific conductivity, turbidity and temperature were recorded at each sampling location.

Samples were collected using new factory sealed teflon bailers and placed in laboratory prepared containers for the specified analytical procedures. Ground water samples were properly preserved, placed on ice, and transported to a NC certified laboratory facility within the specified hold times for each analysis.

Sampling locations are presented on **Figure 1**. Water table elevation data is presented in **Table 1.** Field data sheets for the monitoring wells are included in **Appendix A**, and available boring logs are included in **Appendix B**.

4.0 Field and Laboratory Results

4.1 Field Measurements

At the time of sampling field measurements of temperature, pH, turbidity and specific conductance were collected. These results are summarized in **Table 2**. In general these measurements were consistent with data from previous events.

4.2 Laboratory Analysis

Ground and surface water samples were transported to Pace Analytical Services, Inc.

facility in Ashville for metals analysis via EPA Test Method 6010, alkalinity via Test Method SM 2320B, total dissolved solids via Test Method SM 2540C, sulfate via EPA Test Method 300.0 and chloride via Test Method SM 4500-Cl-E. Samples were transported to Pace Analytical Services, Inc. facility in Charlotte for organics analysis via EPA Test Method 8260. Samples were transported to their respective facility under proper chain of custody and analyzed at the specified DWM Solid Waste Quantitation Limits (SWSLs)[2] for Appendix I and C&D landfill mandated constituents. The laboratory report is attached for your review as **Appendix C**.

4.3 Laboratory Results

Two inorganics/metals, barium in CDMW-2s and zinc in CDMW-1a and CDMW-2s, were detected above the Method Reporting Limit (MRL) and Solid Waste Section Limit (SWSL). No inorganics were reported at levels above the 2L Standards. No organic detections were reported above the MDL. No detections were reported in surface water sample locations.

Detected constituents are presented in **Table 3.** Indicator parameters are summarized in **Table 4**.

5.0 Ground Water Characterization

A potentiometric surface map was prepared from ground water elevations from this sampling event. The data indicates that ground water is flowing generally in a southerly direction across the site. Hydraulic conductivity data is not available for these wells however; an average hydraulic conductivity and effective porosity for shallow wells across the site were used to evaluate groundwater velocities. Groundwater velocity ranges from 0.003 ft/day (CDMW-1A) to 0.022 ft/day (CDMW-4S). The potentiometric surface map is included as **Figure 1.**

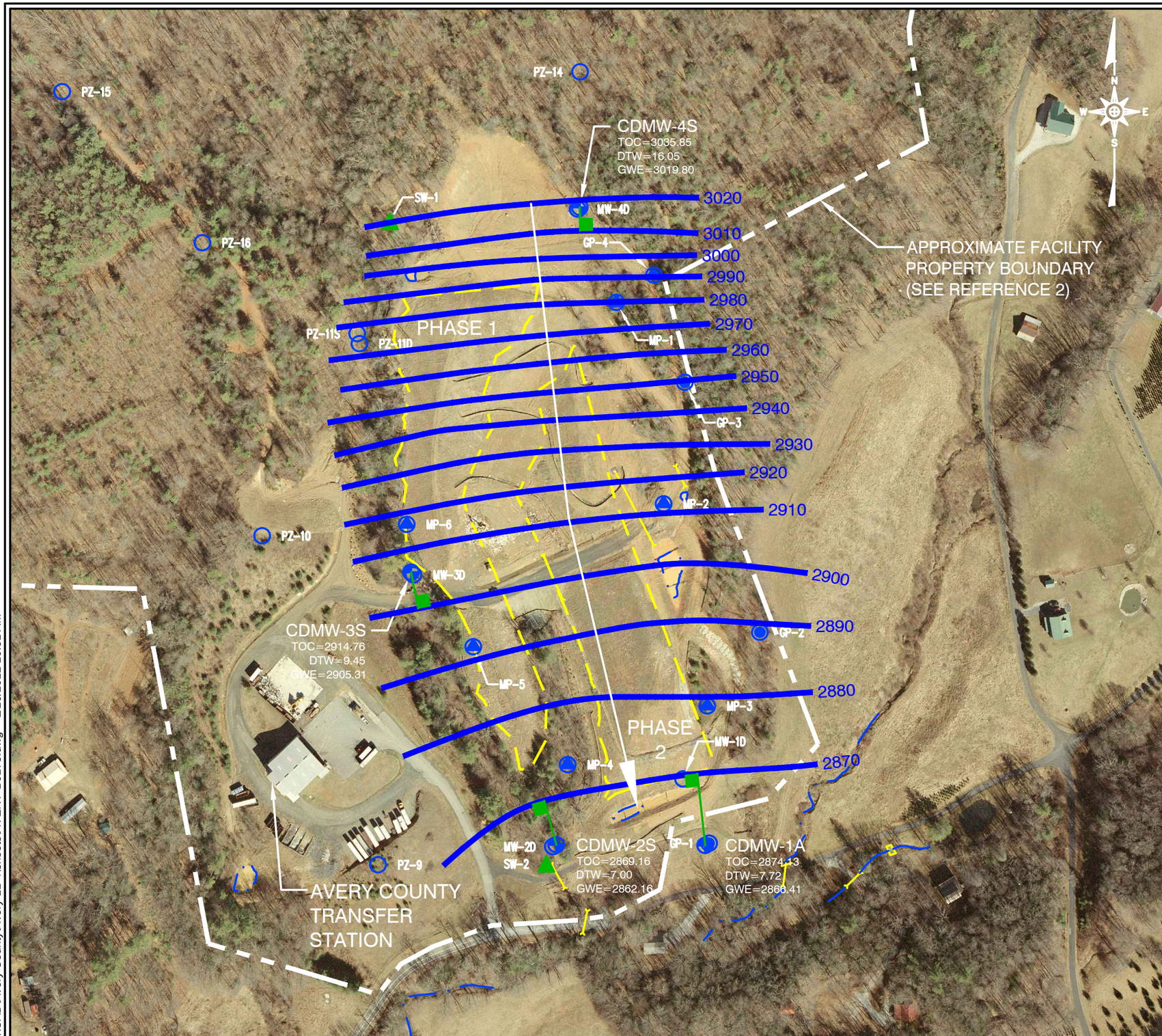
6.0 Conclusions

Laboratory results indicate the water quality at the Avery County C&D Landfill is generally consistent with historically reported results. Reported metals detections are likely naturally occurring, and may potentially have been influenced by sample turbidity.

The next ground water monitoring event is scheduled for April 2012. A report will be submitted to NCDENR following receipt of laboratory analyses.

[2] New Guidelines for Electronic Submittal of Environmental Monitoring Data Memo, NCDENR – Solid Waste Section, October 27, 2006

Figures



LEGEND

	PROPERTY LINE (SEE REFERENCE 2)
	PERMITTED PHASE LIMITS
	APPROXIMATE STREAM AND DRAINAGE LOCATION
2900	POTENTIOMETRIC SURFACE
	GENERAL FLOW DIRECTION
	MONITORING WELL
	PIEZOMETER
	MONITORING POINT
	GAS PROBE
	APPROXIMATE SURFACE WATER SAMPLING LOCATION
TOC=	TOP OF CASING ELEVATION (SEE REFERENCE 2)
DTW=	DEPTH TO WATER
GWE=	GROUND WATER ELEVATION
	GRADIENT MEASUREMENT

NOTES

1. DEPTH TO WATER MEASUREMENTS COLLECTED BY RSG PERSONNEL ON OCTOBER 3, 2011.

REFERENCES

1. OVERALL SITE DRAINAGE FEATURES PROVIDED BY GEODATA INC., BASED ON MARCH 3, 2011 AERIAL SURVEY.
2. SITE PROPERTY LINE AND MONITORING WELL LOCATIONS FROM FIELD SURVEYS DATED JANUARY 29, 2010, BY SURVEYING SOLUTIONS, P.C.

0 200' 400'

RICHARDSON SMITH GARDNER & ASSOCIATES
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14 N. Boylan Ave.
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ph: 919-828-0577
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FIGURE NO.	1
FILE NAME	AVERY-B0175
SCALE:	AS SHOWN
PROJECT NO.	AVERY 09-2
CHECKED BY:	J.A.S.
DRAWN BY:	W.R.B.
DATE:	Jan. 2012

TITLE:

AVERY COUNTY SOLID WASTE DEPARTMENT AVERY COUNTY C&D LANDFILL POTENTIOMETRIC MAP FALL '11

G:\CAD\Avery County\Avery 11-4\sheets\AVERY-B0175.dwg - 1/26/2012 10:51 AM

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Tables

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By: MG
Date: 1/6/2012

Table 1
Avery County C&D Landfill
Ground Water Elevations
10/3/2011

Well	Well Location Northing	Well Location Easting	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Hydraulic Conductivity (ft/day)	Porosity (%)	Gradient (ft/ft)	Velocity (ft/day)
CDMW-1a	817189.34	1121295.22	2874.13	7.72	2866.41	2.26	19	0.024	0.003
CDMW-2s	817190.86	1121007.60	2869.16	7.00	2862.16	2.26	19	0.098	0.012
CDMW-3s	817717.60	1120726.57	2914.76	9.45	2905.31	2.26	19	0.080	0.009
CDMW-4s	818421.66	1121053.03	3035.85	16.05	3019.80	2.26	19	0.189	0.022

Note:

1) survey data from 9/2007 and 1/14/2008 by Surveying Solutions, P.C. and 1/11/2010 by Appalachian Professional Land Surveyors, and Consultants, PA.

By: MG
Date: 1/6/2012

Table 2
Avery County C&D Landfill
Field Parameters
10/3/2011

Well Identification #	Temperature (°Celsius)	Turbidity (NTU)	Specific Conductivity (uS/cm)	pH
CDMW-1a	12	98	50	6.7
CDMW-2s	13	39	160	6.6
CDMW-3s	13	44	220	6.9
CDMW-4s	12	36	10	8.4
SW-1	10	7	20	8
SW-2	10	10	40	7

Note:

1. pH measured with a 'Hanna" pH/EC/TDS Meter, type HI9811
2. Water Levels measured with a Slope Indicator Water Level Meter
3. Turbidity measured with a Hach 2100P turbidimeter
4. Temperature measured with a laboratory grade thermometer.
5. Data Collected by Don Misenheimer of RSG Engineers Inc.

By: MG
Date: 1/10/2012

Table 3
Avery County C&D Landfill
Detected Constituents
10/3/2011

Constituents	MRL	SWSL	2L or GWP Standards	CDMW-1a	CDMW-2s
Barium	100	100	700	<100	**149**
Zinc	10	10	1000	**13.8**	**10.4**

MRL	-	Method Reporting Limit
SWSL	-	Solid Waste Section Quantitation Limit
2L	-	Groundwater Standard (15A NCAC 2L 0200)
GWP		Groundwater Protection Standard
< MRL	-	Not detected at or above the MRL
Shading	-	Levels above 2L standard or no 2L standard
Bold Letters	-	Constituent detected above SWSL

Results are presented in ug/l.
Data from 10/19/2011 Pace Analytica Laboratory Report #92103799.

BY: MG

DATE: 1/10/2012

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

Table 4
Avery C&D County Landfill
Indicator Parameters
10/3/2011

Parameter	MRL	CDMW-1a	CDMW-2s	CDMW-3s	CDMW-4s
Total Alkalinity	5000	26300	35700	39900	9450
Total Dissolved Solids	25000	63000	130000	136000	60000
Chloride	5000	<5000	13100	<5000	<5000
Sulfate	5000	<5000	28000	49400*	<5000

Note : Results are presented in ug/l.
MRL = Method Reporting Limit
* A dilution factor of 2 was used therefore the MRL = 10000

Appendix A

Field Data Sheets

Avery C&D 10.3.11

Well	DTW	DTB	AMT	TIME
MW-4S	16.05	35.4	10g	1:39
MW-3S	9.45	23.04	7g	2:21
MW-2	7.0	12.64	3g	2:40 dry @ 1.25
MW-1	7.72	10.23	4.5g	2:55

MSW

MW-3	5.73	15.15	5g	3:25
MW-2	9.55	19.02	5g	3:38 dry @ 2.75
MW-1	8.67	23.4	7.5	3:53

Avery C&D 10.3.11

Well	PH	COND	TURB	TEMP	TIME
MW-4S	8.4	10	36	12	9:29
SW-1	8.0	20	7	10	9:41
MW-3S	6.9	220	44	13	9:57
MW-2	6.6	160	39	13	10:12
SW-2	7.0	40	10	10	10:21
MW-1a	6.7	50	98	12	10:33

MSW

SW-1	7.9	120	224	11	10:52
MW-3	6.9	90	26	12	11:00
MW-2	6.1	90	22	13	11:16
SW-2	6.4	50	190	10	11:18
MW-1	6.0	150	31	12	11:26

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: Avery Co. C+D **Date:** 10·3·11

Well ID: MW-1a **Initials:** [illegible]

Please mark the aproprate box for the following areas of concern. If you answer NO, please explain in the comment box.

1. Well Vicinity	YES	NO
A. Well is assessable and surrounding area is safe for employees.	✓	
B. Vicinity is free of potential contaminants.	✓	
C. Dead trees, etc. not in danger of falling and damaging wells.	✓	
D. Well is in the same location as on field maps.	✓	
E.		

Comments/ items addressed or to be addressed:

O.K.

2. Concrete Apron and Steel Case	YES	NO
A. Concrete apron is present and in good condition.	✓	
B. Steel case is present and upright.	✓	
C. Steel case is not movable and cemented in.	✓	
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	✓	
E. Well tag is present with pertinent information.	✓	
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	✓	
G. No evidence of tampering is present.	✓	
H. Lock operates properly.	✓	
I.		

Comments/ items addressed or to be addressed:

O.K.

3. PVC Riser	YES	NO
A. Monitoring cap is present and provides a tight seal.	✓	
B. Riser is of appropriate height (has not been cut off too low within the steel case).	✓	
C. Riser is not loose/ easily moved.	✓	
D. Riser does not appear cracked, broken, or brittle.	✓	
E. No visual sign of external contamination entering well through riser.	✓	
F.		

Comments/ items addressed or to be addressed:

O.K.

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: Avery (+D) **Date:** 10-3-4

Well ID: MW-2 **Initials:** MD

Please mark the aproprate box for the following areas of concern. If you answer NO, please explain in the comment box.

1. Well Vicinity	YES	NO
A. Well is assessable and surrounding area is safe for employees.	✓	
B. Vicinity is free of potential contaminants.	✓	
C. Dead trees, etc. not in danger of falling and damaging wells.	✓	
D. Well is in the same location as on field maps.	✓	
E.		

Comments/ items addressed or to be addressed:

O.K.

2. Concrete Apron and Steel Case	YES	NO
A. Concrete apron is present and in good condition.	✓	
B. Steel case is present and upright.	✓	
C. Steel case is not movable and cemented in.	✓	
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	✓	
E. Well tag is present with pertinent information.	✓	
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	✓	
G. No evidence of tampering is present.	✓	
H. Lock operates properly.	✓	
I.		

Comments/ items addressed or to be addressed:

O.K.

3. PVC Riser	YES	NO
A. Monitoring cap is present and provides a tight seal.	✓	
B. Riser is of appropriate height (has not been cut off too low within the steel case).	✓	
C. Riser is not loose/ easily moved.	✓	
D. Riser does not appear cracked, broken, or brittle.	✓	
E. No visual sign of external contamination entering well through riser.	✓	
F.		

Comments/ items addressed or to be addressed:

O.K.

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: Avery C&D **Date:** 10-3-11

Well ID: MW-3 **Initials:** AD

Please mark the aproprate box for the following areas of concern. If you answer NO, please explain in the comment box.

1. Well Vicinity	YES	NO
A. Well is assessable and surrounding area is safe for employees.	✓	
B. Vicinity is free of potential contaminants.	✓	
C. Dead trees, etc. not in danger of falling and damaging wells.	✓	
D. Well is in the same location as on field maps.	✓	
E.		

Comments/ items addressed or to be addressed:

O.K.

2. Concrete Apron and Steel Case	YES	NO
A. Concrete apron is present and in good condition.		✓
B. Steel case is present and upright.	✓	
C. Steel case is not movable and cemented in.	✓	
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	✓	
E. Well tag is present with pertinent information.	✓	
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	✓	
G. No evidence of tampering is present.	✓	
H. Lock operates properly.	✓	
I.		

Comments/ items addressed or to be addressed:

Concrete apron may be buried

3. PVC Riser	YES	NO
A. Monitoring cap is present and provides a tight seal.	✓	
B. Riser is of appropriate height (has not been cut off too low within the steel case).	✓	
C. Riser is not loose/ easily moved.	✓	
D. Riser does not appear cracked, broken, or brittle.	✓	
E. No visual sign of external contamination entering well through riser.	✓	
F.		

Comments/ items addressed or to be addressed:

O.K.

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: AVERY (C+D) **Date:** 10-3-11

Well ID: MW-4s **Initials:** MD

Please mark the aproprate box for the following areas of concern. If you answer NO, please explain in the comment box.

1. Well Vicinity	YES	NO
A. Well is assessable and surrounding area is safe for employees.	✓	
B. Vicinity is free of potential contaminants.	✓	
C. Dead trees, etc. not in danger of falling and damaging wells.	✓	
D. Well is in the same location as on field maps.	✓	
E.		

Comments/ items addressed or to be addressed:

O.K.

2. Concrete Apron and Steel Case	YES	NO
A. Concrete apron is present and in good condition.		✓
B. Steel case is present and upright.	✓	
C. Steel case is not movable and cemented in.	✓	
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	✓	
E. Well tag is present with pertinent information.	✓	
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	✓	
G. No evidence of tampering is present.	✓	
H. Lock operates properly.	✓	
I.		

Comments/ items addressed or to be addressed:

concrete apron may be buried

3. PVC Riser	YES	NO
A. Monitoring cap is present and provides a tight seal.	✓	
B. Riser is of appropriate height (has not been cut off too low within the steel case).	✓	
C. Riser is not loose/ easily moved.	✓	
D. Riser does not appear cracked, broken, or brittle.	✓	
E. No visual sign of external contamination entering well through riser.	✓	
F.		

Comments/ items addressed or to be addressed:

ok.

Appendix B

Monitoring Well Information

T IS A E INTENTIONALL LE T BLAN

By: MG
Date: 1/6/2012

Appendix B
Avery County C&D Landfill
Monitoring Well Information
10/3/2011

Well	Well Location Northing	Well Location Easting	TOC Elevation (feet)	Depth to Water (feet)	Depth to Bottom (feet)	Assumed Screened Interval
CDMW-1a	817189.34	1121295.22	2880.37	7.72	16.23	4'-12
CDMW-2s	817190.86	1121007.60	2869.16	7.00	12.64	10' - 20
CDMW-3s	817717.60	1120726.57	2914.76	9.45	23.04	10' - 20
CDMW-4s	818421.66	1121053.03	3035.85	16.05	35.4	22' - 32'*

Note: survey data from 9/2007 and 1/14/2008 by Surveying Solutions, P.C. and 1/11/2010 by Appalachian Professional Land Surveyors, and Consultants, PA.
Depth to Water and Depth to Bottom measured from Top of Casing

No boring logs available for monitoirng wells MW-2s and MW-3s

Screened interval assumed based on depth to bottom measurements.

Monitoring well MW-1a MW-4s data is actual data from boring logs (provided)

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Richardson Smith ardner & Assoc
1 North Boylan Avenue Raleigh NC 2 03
(1) 2 0

IELD BORE OLE LO

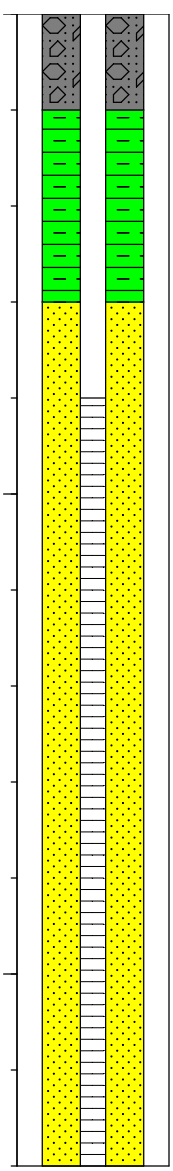
BOREHOLE NUMBER **MW 1a** Page 1 of 1

PROJECT NAME: **Avery County C&D Landfill**
LOCATION: **Ingalls, NC**
DRILLING CO: **Mad Dawg Drilling Inc**
DRILLING METHOD: **Geoprobe/HSA**
FIELD PARTY: **Tom Whitehead**
GEOLOGIST: **Joan Smyth**
DATE BEGUN: **10/26/09** COMPLETED: **10/26/09**

TOTAL DEPTH: **13**
TOP OF CASING ELEV.: GROUND ELEV.:
NORTHING: **0** EASTING: **0**

STATIC WATER LEVEL (BLS)		
Depth (ft)	--	--
Time	--	--
Date	--	--

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
0.0		Grab		GP/HSA	SANDY SILT: Dry micaceous brown sandy silt		0.0	
5.0		Grab			CLAYEY SANDY SILT: Dry brown micaceous clayey sandy silt.		5.0	
10.0		Grab			CLAYEY SANDY SILT: Clayey sandy silt to sandy clayey silt with relict structure. Wet at bottom of borehole. Auger refusal at 13'. (This was the deepest auger refusal of three attempted borings in this area).		10.0	



David Garrett and Associates

Engineering and Geology

Depths in feet, referenced b.g.s.

Boring No. MW-4s

Page **1** of **1**

Client and Project	**Avery County C&D Expansion**			Ground Elevation	**3032.72**
Equipment	**Dietrich D-50 ATV**	Drilling Method	**HSA**	Water Level, TOB	**20.00**
Date Started	**11/19/07**	Date Ended	**11/19/07**	Water Level, 24 Hr.	**15.78**
Drilling Firm	**Red Dog Drilling, Inc.**	Logged by	**Joan Smythe**	Stabilized Level	**18.30**
Comments	**Immediately north of landfill**	Total Depth	**32.0**	Observation Date	**2/7/08**

Elev.	SPT Depth, Value and Plot		Strata Depth and Soil Description (USCS)		Piezometer Constuction Data
		N = 0 20 40 60 80 100 BPF			
3032			SILT: Saprolite; finely laminated; highly micaceous;rock frags., qtz, feldspar, mica; relict rock texture and structure with depth (mica gneiss); approximately horizontal layering with sub-vertical fractures; dark mineral staining and more abundant rock frags. with depth; tan to brown; sample clayey from 7.5 to 10 feet; sample becoming wet at 23.5 feet, very wet at 33.5 with iron-manganese stains but alternating wet and dry layers noted; very wet (muddy) conditions at 43.5 feet in initial boring		
3030					
3028	3.5	32 27 11		MH	
3026					
3024	8.5	2 2 4		MH	
3022					Grout 0 to 18.0 ft.
3020					
3018	13.5	4 4 10		MH	
3016					
3014	18.5	1 2 4		MH	Bentonite Seal 18.0 to 20.0 ft.
3012					
3010			Initial boring extended to 45 feet but caved at 35 feet, was redrilled to 73.5 feet and called MW-4d, new boring installed to 32 feet and called MW-4s		Sand Pack 20.0 to 32.0 ft.
3008	23.5	8 5 6		MH	0.010" Slotted Screen 22.0 to 32.0 ft.
3006					
3004	28.5	3 4 5		MH	
3002			Boring Terminated at 32 feet		

Appendix C

Laboratory Analytical Report

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

October 19, 2011

Ms. Joan Smyth
RSG&A
14 N. Boylan Ave
Raleigh, NC 27603

RE: Project: AVERY C&D 11-4
Pace Project No.: 92103799

Dear Ms. Smyth:
Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated 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,

Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

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
South Carolina Drinking Water Cert. #: 99006003
Virginia Drinking Water Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460144

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
Virginia Certification #: 00072
West Virginia Certification #: 356
Virgina/VELAP Certification #: 460147

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SAMPLE ANALYTE COUNT

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92103799001	**SW-1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92103799002	**SW-2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
92103799003	**MW-4s**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 2540C	GW1	1	PASI-A
		EPA 300.0	SAJ	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
92103799004	**MW-3s**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 2540C	GW1	1	PASI-A
		EPA 300.0	SAJ	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
92103799005	**MW-1A**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 2540C	GW1	1	PASI-A
		EPA 300.0	SAJ	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
92103799006	**MW-2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	AES	1	PASI-A
		SM 2540C	GW1	1	PASI-A
		EPA 300.0	SAJ	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: SW-1 **Lab ID: 92103799001** Collected: 10/04/11 09:41 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	10/17/11 12:35	10/18/11 19:09	7440-36-0	
Arsenic	ND	ug/L	10.0	1	10/17/11 12:35	10/19/11 13:37	7440-38-2	
Barium	ND	ug/L	100	1	10/17/11 12:35	10/18/11 19:09	7440-39-3	
Beryllium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:09	7440-41-7	
Cadmium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:09	7440-43-9	
Chromium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:09	7440-47-3	
Cobalt	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:09	7440-48-4	
Copper	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:09	7440-50-8	
Lead	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:09	7439-92-1	
Nickel	ND	ug/L	50.0	1	10/17/11 12:35	10/18/11 19:09	7440-02-0	
Selenium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:09	7782-49-2	
Silver	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:09	7440-22-4	
Thallium	ND	ug/L	5.5	1	10/17/11 12:35	10/18/11 19:09	7440-28-0	
Vanadium	ND	ug/L	25.0	1	10/17/11 12:35	10/18/11 19:09	7440-62-2	
Zinc	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:09	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/08/11 21:20	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/08/11 21:20	107-13-1	
Benzene	ND	ug/L	1.0	1		10/08/11 21:20	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/08/11 21:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/08/11 21:20	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/08/11 21:20	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/08/11 21:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/08/11 21:20	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/08/11 21:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/08/11 21:20	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/08/11 21:20	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/08/11 21:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/11 21:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/08/11 21:20	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/08/11 21:20	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/08/11 21:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/08/11 21:20	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/08/11 21:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/11 21:20	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/08/11 21:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/08/11 21:20	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/11 21:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/08/11 21:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/11 21:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/11 21:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/11 21:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/08/11 21:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/08/11 21:20	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/08/11 21:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/08/11 21:20	10061-02-6	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: SW-1 **Lab ID: 92103799001** Collected: 10/04/11 09:41 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/08/11 21:20	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/08/11 21:20	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/08/11 21:20	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/08/11 21:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/08/11 21:20	108-10-1	
Styrene	ND	ug/L	1.0	1		10/08/11 21:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/11 21:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/08/11 21:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/08/11 21:20	127-18-4	
Toluene	ND	ug/L	1.0	1		10/08/11 21:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/08/11 21:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/08/11 21:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/08/11 21:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/08/11 21:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/08/11 21:20	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/08/11 21:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/11 21:20	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/08/11 21:20	1330-20-7	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/08/11 21:20	460-00-4	
Dibromofluoromethane (S)	113	%	70-130	1		10/08/11 21:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	70-130	1		10/08/11 21:20	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		10/08/11 21:20	2037-26-5	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: SW-2 **Lab ID: 92103799002** Collected: 10/04/11 10:21 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	10/17/11 12:35	10/18/11 19:12	7440-36-0	
Arsenic	ND	ug/L	10.0	1	10/17/11 12:35	10/19/11 13:40	7440-38-2	
Barium	ND	ug/L	100	1	10/17/11 12:35	10/18/11 19:12	7440-39-3	
Beryllium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:12	7440-41-7	
Cadmium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:12	7440-43-9	
Chromium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:12	7440-47-3	
Cobalt	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:12	7440-48-4	
Copper	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:12	7440-50-8	
Lead	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:12	7439-92-1	
Nickel	ND	ug/L	50.0	1	10/17/11 12:35	10/18/11 19:12	7440-02-0	
Selenium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:12	7782-49-2	
Silver	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:12	7440-22-4	
Thallium	ND	ug/L	5.5	1	10/17/11 12:35	10/18/11 19:12	7440-28-0	
Vanadium	ND	ug/L	25.0	1	10/17/11 12:35	10/18/11 19:12	7440-62-2	
Zinc	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:12	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/08/11 21:44	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/08/11 21:44	107-13-1	
Benzene	ND	ug/L	1.0	1		10/08/11 21:44	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/08/11 21:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/08/11 21:44	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/08/11 21:44	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/08/11 21:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/08/11 21:44	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/08/11 21:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/08/11 21:44	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/08/11 21:44	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/08/11 21:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/11 21:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/08/11 21:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/08/11 21:44	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/08/11 21:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/08/11 21:44	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/08/11 21:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/11 21:44	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/08/11 21:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/08/11 21:44	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/11 21:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/08/11 21:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/11 21:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/11 21:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/11 21:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/08/11 21:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/08/11 21:44	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/08/11 21:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/08/11 21:44	10061-02-6	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: SW-2 **Lab ID: 92103799002** Collected: 10/04/11 10:21 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/08/11 21:44	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/08/11 21:44	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/08/11 21:44	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/08/11 21:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/08/11 21:44	108-10-1	
Styrene	ND	ug/L	1.0	1		10/08/11 21:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/11 21:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/08/11 21:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/08/11 21:44	127-18-4	
Toluene	ND	ug/L	1.0	1		10/08/11 21:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/08/11 21:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/08/11 21:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/08/11 21:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/08/11 21:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/08/11 21:44	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/08/11 21:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/11 21:44	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/08/11 21:44	1330-20-7	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/08/11 21:44	460-00-4	
Dibromofluoromethane (S)	113	%	70-130	1		10/08/11 21:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		10/08/11 21:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		10/08/11 21:44	2037-26-5	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: MW-4s **Lab ID: 92103799003** Collected: 10/04/11 09:29 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	10/17/11 12:35	10/18/11 19:23	7440-36-0	
Arsenic	ND	ug/L	10.0	1	10/17/11 12:35	10/19/11 13:43	7440-38-2	
Barium	ND	ug/L	100	1	10/17/11 12:35	10/18/11 19:23	7440-39-3	
Beryllium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:23	7440-41-7	
Cadmium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:23	7440-43-9	
Chromium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:23	7440-47-3	
Cobalt	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:23	7440-48-4	
Copper	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:23	7440-50-8	
Lead	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:23	7439-92-1	
Nickel	ND	ug/L	50.0	1	10/17/11 12:35	10/18/11 19:23	7440-02-0	
Selenium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:23	7782-49-2	
Silver	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:23	7440-22-4	
Thallium	ND	ug/L	5.5	1	10/17/11 12:35	10/18/11 19:23	7440-28-0	
Vanadium	ND	ug/L	25.0	1	10/17/11 12:35	10/18/11 19:23	7440-62-2	
Zinc	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:23	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/08/11 22:09	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/08/11 22:09	107-13-1	
Benzene	ND	ug/L	1.0	1		10/08/11 22:09	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/08/11 22:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/08/11 22:09	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/08/11 22:09	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/08/11 22:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/08/11 22:09	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/08/11 22:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/08/11 22:09	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/08/11 22:09	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/08/11 22:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/11 22:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/08/11 22:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/08/11 22:09	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/08/11 22:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/08/11 22:09	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/08/11 22:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/11 22:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/08/11 22:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/08/11 22:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/11 22:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/08/11 22:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/11 22:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/11 22:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/11 22:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/08/11 22:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/08/11 22:09	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/08/11 22:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/08/11 22:09	10061-02-6	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: MW-4s **Lab ID: 92103799003** Collected: 10/04/11 09:29 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/08/11 22:09	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/08/11 22:09	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/08/11 22:09	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/08/11 22:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/08/11 22:09	108-10-1	
Styrene	ND	ug/L	1.0	1		10/08/11 22:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/11 22:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/08/11 22:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/08/11 22:09	127-18-4	
Toluene	ND	ug/L	1.0	1		10/08/11 22:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/08/11 22:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/08/11 22:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/08/11 22:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/08/11 22:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/08/11 22:09	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/08/11 22:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/11 22:09	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/08/11 22:09	1330-20-7	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/08/11 22:09	460-00-4	
Dibromofluoromethane (S)	114	%	70-130	1		10/08/11 22:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		10/08/11 22:09	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/08/11 22:09	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**9450**	ug/L	5000	1		10/14/11 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**60.0**	mg/L	25.0	1		10/07/11 16:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	5000	1		10/11/11 21:45	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	ND	mg/L	5.0	1		10/14/11 14:33	16887-00-6	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: MW-3s **Lab ID: 92103799004** Collected: 10/04/11 09:57 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	10/17/11 12:35	10/18/11 19:26	7440-36-0	
Arsenic	ND	ug/L	10.0	1	10/17/11 12:35	10/19/11 13:46	7440-38-2	
Barium	ND	ug/L	100	1	10/17/11 12:35	10/18/11 19:26	7440-39-3	
Beryllium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:26	7440-41-7	
Cadmium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:26	7440-43-9	
Chromium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:26	7440-47-3	
Cobalt	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:26	7440-48-4	
Copper	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:26	7440-50-8	
Lead	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:26	7439-92-1	
Nickel	ND	ug/L	50.0	1	10/17/11 12:35	10/18/11 19:26	7440-02-0	
Selenium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:26	7782-49-2	
Silver	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:26	7440-22-4	
Thallium	ND	ug/L	5.5	1	10/17/11 12:35	10/18/11 19:26	7440-28-0	
Vanadium	ND	ug/L	25.0	1	10/17/11 12:35	10/18/11 19:26	7440-62-2	
Zinc	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:26	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/11/11 11:46	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/11/11 11:46	107-13-1	
Benzene	ND	ug/L	1.0	1		10/11/11 11:46	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/11/11 11:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/11/11 11:46	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/11/11 11:46	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/11/11 11:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/11/11 11:46	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/11/11 11:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/11/11 11:46	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/11/11 11:46	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/11/11 11:46	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/11/11 11:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/11/11 11:46	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/11/11 11:46	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/11/11 11:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/11/11 11:46	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/11/11 11:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/11/11 11:46	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/11/11 11:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/11/11 11:46	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/11/11 11:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/11/11 11:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/11/11 11:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/11/11 11:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/11/11 11:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/11/11 11:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/11/11 11:46	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/11 11:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/11 11:46	10061-02-6	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: MW-3s **Lab ID: 92103799004** Collected: 10/04/11 09:57 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/11/11 11:46	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/11/11 11:46	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/11/11 11:46	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/11/11 11:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/11/11 11:46	108-10-1	
Styrene	ND	ug/L	1.0	1		10/11/11 11:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/11/11 11:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/11/11 11:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/11/11 11:46	127-18-4	
Toluene	ND	ug/L	1.0	1		10/11/11 11:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/11/11 11:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/11/11 11:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/11/11 11:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/11/11 11:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/11/11 11:46	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/11/11 11:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/11/11 11:46	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/11/11 11:46	1330-20-7	
4-Bromofluorobenzene (S)	101	%	70-130	1		10/11/11 11:46	460-00-4	
Dibromofluoromethane (S)	115	%	70-130	1		10/11/11 11:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		10/11/11 11:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		10/11/11 11:46	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**39900**	ug/L	5000	1		10/14/11 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**136**	mg/L	25.0	1		10/07/11 16:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**49400**	ug/L	10000	2		10/11/11 21:58	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	ND	mg/L	5.0	1		10/14/11 14:33	16887-00-6	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: MW-1A **Lab ID: 92103799005** Collected: 10/04/11 10:33 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	10/17/11 12:35	10/18/11 19:29	7440-36-0	
Arsenic	ND	ug/L	10.0	1	10/17/11 12:35	10/19/11 13:49	7440-38-2	
Barium	ND	ug/L	100	1	10/17/11 12:35	10/18/11 19:29	7440-39-3	
Beryllium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:29	7440-41-7	
Cadmium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:29	7440-43-9	
Chromium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:29	7440-47-3	
Cobalt	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:29	7440-48-4	
Copper	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:29	7440-50-8	
Lead	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:29	7439-92-1	
Nickel	ND	ug/L	50.0	1	10/17/11 12:35	10/18/11 19:29	7440-02-0	
Selenium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:29	7782-49-2	
Silver	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:29	7440-22-4	
Thallium	ND	ug/L	5.5	1	10/17/11 12:35	10/18/11 19:29	7440-28-0	
Vanadium	ND	ug/L	25.0	1	10/17/11 12:35	10/18/11 19:29	7440-62-2	
Zinc	**13.8**	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:29	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/11/11 12:11	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/11/11 12:11	107-13-1	
Benzene	ND	ug/L	1.0	1		10/11/11 12:11	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/11/11 12:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/11/11 12:11	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/11/11 12:11	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/11/11 12:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/11/11 12:11	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/11/11 12:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/11/11 12:11	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/11/11 12:11	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/11/11 12:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/11/11 12:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/11/11 12:11	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/11/11 12:11	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/11/11 12:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/11/11 12:11	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/11/11 12:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/11/11 12:11	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/11/11 12:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/11/11 12:11	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/11/11 12:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/11/11 12:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/11/11 12:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/11/11 12:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/11/11 12:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/11/11 12:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/11/11 12:11	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/11 12:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/11 12:11	10061-02-6	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: MW-1A **Lab ID: 92103799005** Collected: 10/04/11 10:33 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/11/11 12:11	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/11/11 12:11	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/11/11 12:11	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/11/11 12:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/11/11 12:11	108-10-1	
Styrene	ND	ug/L	1.0	1		10/11/11 12:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/11/11 12:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/11/11 12:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/11/11 12:11	127-18-4	
Toluene	ND	ug/L	1.0	1		10/11/11 12:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/11/11 12:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/11/11 12:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/11/11 12:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/11/11 12:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/11/11 12:11	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/11/11 12:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/11/11 12:11	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/11/11 12:11	1330-20-7	
4-Bromofluorobenzene (S)	102	%	70-130	1		10/11/11 12:11	460-00-4	
Dibromofluoromethane (S)	104	%	70-130	1		10/11/11 12:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		10/11/11 12:11	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		10/11/11 12:11	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**26300**	ug/L	5000	1		10/14/11 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**63.0**	mg/L	25.0	1		10/07/11 16:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	ug/L	5000	1		10/13/11 01:56	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	ND	mg/L	5.0	1		10/14/11 14:34	16887-00-6	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: MW-2 **Lab ID: 92103799006** Collected: 10/04/11 10:12 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	10/17/11 12:35	10/18/11 19:32	7440-36-0	
Arsenic	ND	ug/L	10.0	1	10/17/11 12:35	10/19/11 14:00	7440-38-2	
Barium	**149**	ug/L	100	1	10/17/11 12:35	10/18/11 19:32	7440-39-3	
Beryllium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:32	7440-41-7	
Cadmium	ND	ug/L	1.0	1	10/17/11 12:35	10/18/11 19:32	7440-43-9	
Chromium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:32	7440-47-3	
Cobalt	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:32	7440-48-4	
Copper	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:32	7440-50-8	
Lead	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:32	7439-92-1	
Nickel	ND	ug/L	50.0	1	10/17/11 12:35	10/18/11 19:32	7440-02-0	
Selenium	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:32	7782-49-2	
Silver	ND	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:32	7440-22-4	
Thallium	ND	ug/L	5.5	1	10/17/11 12:35	10/18/11 19:32	7440-28-0	
Vanadium	ND	ug/L	25.0	1	10/17/11 12:35	10/18/11 19:32	7440-62-2	
Zinc	**10.4**	ug/L	10.0	1	10/17/11 12:35	10/18/11 19:32	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/11/11 12:35	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/11/11 12:35	107-13-1	
Benzene	ND	ug/L	1.0	1		10/11/11 12:35	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/11/11 12:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/11/11 12:35	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/11/11 12:35	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/11/11 12:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/11/11 12:35	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/11/11 12:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/11/11 12:35	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/11/11 12:35	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/11/11 12:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/11/11 12:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/11/11 12:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/11/11 12:35	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/11/11 12:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/11/11 12:35	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/11/11 12:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/11/11 12:35	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/11/11 12:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/11/11 12:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/11/11 12:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/11/11 12:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/11/11 12:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/11/11 12:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/11/11 12:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/11/11 12:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/11/11 12:35	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/11 12:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/11/11 12:35	10061-02-6	

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ANALYTICAL RESULTS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Sample: MW-2 **Lab ID: 92103799006** Collected: 10/04/11 10:12 Received: 10/05/11 18:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/11/11 12:35	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/11/11 12:35	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/11/11 12:35	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/11/11 12:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/11/11 12:35	108-10-1	
Styrene	ND	ug/L	1.0	1		10/11/11 12:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/11/11 12:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/11/11 12:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/11/11 12:35	127-18-4	
Toluene	ND	ug/L	1.0	1		10/11/11 12:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/11/11 12:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/11/11 12:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/11/11 12:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/11/11 12:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/11/11 12:35	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/11/11 12:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/11/11 12:35	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/11/11 12:35	1330-20-7	
4-Bromofluorobenzene (S)	100	%	70-130	1		10/11/11 12:35	460-00-4	
Dibromofluoromethane (S)	113	%	70-130	1		10/11/11 12:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		10/11/11 12:35	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		10/11/11 12:35	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**35700**	ug/L	5000	1		10/14/11 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**130**	mg/L	25.0	1		10/07/11 16:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**28000**	ug/L	5000	1		10/13/11 02:10	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**13.1**	mg/L	5.0	1		10/14/11 14:36	16887-00-6	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

QC Batch: MPRP/9224 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92103799001, 92103799002, 92103799003, 92103799004, 92103799005, 92103799006

METHOD BLANK: 673557 Matrix: Water
Associated Lab Samples: 92103799001, 92103799002, 92103799003, 92103799004, 92103799005, 92103799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	10/18/11 18:52	
Arsenic	ug/L	ND	10.0	10/18/11 18:52	
Barium	ug/L	ND	100	10/18/11 18:52	
Beryllium	ug/L	ND	1.0	10/18/11 18:52	
Cadmium	ug/L	ND	1.0	10/18/11 18:52	
Chromium	ug/L	ND	10.0	10/18/11 18:52	
Cobalt	ug/L	ND	10.0	10/18/11 18:52	
Copper	ug/L	ND	10.0	10/18/11 18:52	
Lead	ug/L	ND	10.0	10/18/11 18:52	
Nickel	ug/L	ND	50.0	10/18/11 18:52	
Selenium	ug/L	ND	10.0	10/18/11 18:52	
Silver	ug/L	ND	10.0	10/18/11 18:52	
Thallium	ug/L	ND	5.5	10/18/11 18:52	
Vanadium	ug/L	ND	25.0	10/18/11 18:52	
Zinc	ug/L	ND	10.0	10/18/11 18:52	

LABORATORY CONTROL SAMPLE: 673558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	521	104	80-120	
Arsenic	ug/L	500	519	104	80-120	
Barium	ug/L	500	507	101	80-120	
Beryllium	ug/L	500	502	100	80-120	
Cadmium	ug/L	500	509	102	80-120	
Chromium	ug/L	500	501	100	80-120	
Cobalt	ug/L	500	523	105	80-120	
Copper	ug/L	500	511	102	80-120	
Lead	ug/L	500	503	101	80-120	
Nickel	ug/L	500	511	102	80-120	
Selenium	ug/L	500	520	104	80-120	
Silver	ug/L	250	253	101	80-120	
Thallium	ug/L	500	507	101	80-120	
Vanadium	ug/L	500	497	99	80-120	
Zinc	ug/L	500	526	105	80-120	

MATRIX SPIKE SAMPLE: 673559

Parameter	Units	92103797004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	505	101	75-125	
Arsenic	ug/L	ND	500	486	97	75-125	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

MATRIX SPIKE SAMPLE: 673559

Parameter	Units	92103797004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	ND	500	515	99	75-125	
Beryllium	ug/L	ND	500	493	99	75-125	
Cadmium	ug/L	ND	500	497	99	75-125	
Chromium	ug/L	ND	500	494	99	75-125	
Cobalt	ug/L	ND	500	511	102	75-125	
Copper	ug/L	ND	500	502	100	75-125	
Lead	ug/L	ND	500	492	98	75-125	
Nickel	ug/L	ND	500	499	100	75-125	
Selenium	ug/L	ND	500	506	101	75-125	
Silver	ug/L	ND	250	248	99	75-125	
Thallium	ug/L	ND	500	491	98	75-125	
Vanadium	ug/L	ND	500	488	97	75-125	
Zinc	ug/L	ND	500	517	103	75-125	

SAMPLE DUPLICATE: 673560

Parameter	Units	92103797005 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	102	ND	2	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	7.4J	2	
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	ND		
Zinc	ug/L	12.6	12.3	2	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

QC Batch: MSV/16916 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92103799001, 92103799002, 92103799003

METHOD BLANK: 670231 Matrix: Water
Associated Lab Samples: 92103799001, 92103799002, 92103799003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/08/11 14:01	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/08/11 14:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	10/08/11 14:01	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/08/11 14:01	
1,1-Dichloroethane	ug/L	ND	5.0	10/08/11 14:01	
1,1-Dichloroethene	ug/L	ND	5.0	10/08/11 14:01	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/08/11 14:01	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	10/08/11 14:01	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/08/11 14:01	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/08/11 14:01	
1,2-Dichloroethane	ug/L	ND	1.0	10/08/11 14:01	
1,2-Dichloropropane	ug/L	ND	1.0	10/08/11 14:01	
1,3-Dichloropropane	ug/L	ND	1.0	10/08/11 14:01	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/08/11 14:01	
2-Butanone (MEK)	ug/L	ND	100	10/08/11 14:01	
2-Hexanone	ug/L	ND	50.0	10/08/11 14:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	10/08/11 14:01	
Acetone	ug/L	ND	100	10/08/11 14:01	
Acrylonitrile	ug/L	ND	200	10/08/11 14:01	
Benzene	ug/L	ND	1.0	10/08/11 14:01	
Bromochloromethane	ug/L	ND	3.0	10/08/11 14:01	
Bromodichloromethane	ug/L	ND	1.0	10/08/11 14:01	
Bromoform	ug/L	ND	3.0	10/08/11 14:01	
Bromomethane	ug/L	ND	10.0	10/08/11 14:01	
Carbon disulfide	ug/L	ND	100	10/08/11 14:01	
Carbon tetrachloride	ug/L	ND	1.0	10/08/11 14:01	
Chlorobenzene	ug/L	ND	3.0	10/08/11 14:01	
Chloroethane	ug/L	ND	10.0	10/08/11 14:01	
Chloroform	ug/L	ND	5.0	10/08/11 14:01	
Chloromethane	ug/L	ND	1.0	10/08/11 14:01	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/08/11 14:01	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/08/11 14:01	
Dibromochloromethane	ug/L	ND	3.0	10/08/11 14:01	
Dibromomethane	ug/L	ND	10.0	10/08/11 14:01	
Ethylbenzene	ug/L	ND	1.0	10/08/11 14:01	
Iodomethane	ug/L	ND	10.0	10/08/11 14:01	
Methylene Chloride	ug/L	ND	1.0	10/08/11 14:01	
Styrene	ug/L	ND	1.0	10/08/11 14:01	
Tetrachloroethene	ug/L	ND	1.0	10/08/11 14:01	
Toluene	ug/L	ND	1.0	10/08/11 14:01	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/08/11 14:01	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/08/11 14:01	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/08/11 14:01	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

METHOD BLANK: 670231 Matrix: Water

Associated Lab Samples: 92103799001, 92103799002, 92103799003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	10/08/11 14:01	
Trichlorofluoromethane	ug/L	ND	1.0	10/08/11 14:01	
Vinyl acetate	ug/L	ND	50.0	10/08/11 14:01	
Vinyl chloride	ug/L	ND	1.0	10/08/11 14:01	
Xylene (Total)	ug/L	ND	5.0	10/08/11 14:01	
1,2-Dichloroethane-d4 (S)	%	110	70-130	10/08/11 14:01	
4-Bromofluorobenzene (S)	%	95	70-130	10/08/11 14:01	
Dibromofluoromethane (S)	%	108	70-130	10/08/11 14:01	
Toluene-d8 (S)	%	101	70-130	10/08/11 14:01	

LABORATORY CONTROL SAMPLE: 670232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.4	109	70-130	
1,1,1-Trichloroethane	ug/L	50	46.9	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.6	111	70-130	
1,1,2-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethene	ug/L	50	49.2	98	70-132	
1,2,3-Trichloropropane	ug/L	50	53.4	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.3	113	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	70-130	
1,2-Dichlorobenzene	ug/L	50	54.9	110	70-130	
1,2-Dichloroethane	ug/L	50	56.0	112	70-130	
1,2-Dichloropropane	ug/L	50	52.9	106	70-130	
1,3-Dichloropropane	ug/L	50	53.5	107	70-130	
1,4-Dichlorobenzene	ug/L	50	51.5	103	70-130	
2-Butanone (MEK)	ug/L	100	105	105	70-145	
2-Hexanone	ug/L	100	97.7	98	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.6J	95	70-140	
Acetone	ug/L	100	103	103	50-175	
Acrylonitrile	ug/L	250	280	112	70-143	
Benzene	ug/L	50	53.4	107	70-130	
Bromochloromethane	ug/L	50	51.9	104	70-130	
Bromodichloromethane	ug/L	50	50.4	101	70-130	
Bromoform	ug/L	50	48.0	96	70-130	
Bromomethane	ug/L	50	57.0	114	54-130	
Carbon disulfide	ug/L	50	46.3J	93	70-131	
Carbon tetrachloride	ug/L	50	50.8	102	70-132	
Chlorobenzene	ug/L	50	53.7	107	70-130	
Chloroethane	ug/L	50	58.0	116	64-134	
Chloroform	ug/L	50	48.9	98	70-130	
Chloromethane	ug/L	50	52.0	104	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.8	104	70-130	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

LABORATORY CONTROL SAMPLE: 670232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	51.3	103	70-130	
Dibromomethane	ug/L	50	50.2	100	70-131	
Ethylbenzene	ug/L	50	52.6	105	70-130	
Iodomethane	ug/L	100	107	107	49-180	
Methylene Chloride	ug/L	50	54.0	108	63-130	
Styrene	ug/L	50	55.7	111	70-130	
Tetrachloroethene	ug/L	50	48.1	96	70-130	
Toluene	ug/L	50	50.5	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.0	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	49J	98	70-141	
Trichloroethene	ug/L	50	56.2	112	70-130	
Trichlorofluoromethane	ug/L	50	52.2	104	62-133	
Vinyl acetate	ug/L	100	88.5	88	66-157	
Vinyl chloride	ug/L	50	56.4	113	69-130	
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			92	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 670256 670257

Parameter	Units	92103774002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	66.8	62.7	134	125	70-166	6	
Benzene	ug/L	1.1	50	50	65.5	62.0	129	122	70-148	5	
Chlorobenzene	ug/L	1.1J	50	50	62.3	59.8	122	117	70-146	4	
Toluene	ug/L	ND	50	50	60.9	58.4	122	117	70-155	4	
Trichloroethene	ug/L	ND	50	50	58.7	55.3	117	111	69-151	6	
1,2-Dichloroethane-d4 (S)	%						108	105	70-130		
4-Bromofluorobenzene (S)	%						97	94	70-130		
Dibromofluoromethane (S)	%						105	105	70-130		
Toluene-d8 (S)	%						96	97	70-130		

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

QC Batch: MSV/16933 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92103799004, 92103799005, 92103799006

METHOD BLANK: 670942 Matrix: Water
Associated Lab Samples: 92103799004, 92103799005, 92103799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/11/11 11:22	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/11/11 11:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	10/11/11 11:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/11/11 11:22	
1,1-Dichloroethane	ug/L	ND	5.0	10/11/11 11:22	
1,1-Dichloroethene	ug/L	ND	5.0	10/11/11 11:22	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/11/11 11:22	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	10/11/11 11:22	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/11/11 11:22	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/11/11 11:22	
1,2-Dichloroethane	ug/L	ND	1.0	10/11/11 11:22	
1,2-Dichloropropane	ug/L	ND	1.0	10/11/11 11:22	
1,3-Dichloropropane	ug/L	ND	1.0	10/11/11 11:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/11/11 11:22	
2-Butanone (MEK)	ug/L	ND	100	10/11/11 11:22	
2-Hexanone	ug/L	ND	50.0	10/11/11 11:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	10/11/11 11:22	
Acetone	ug/L	ND	100	10/11/11 11:22	
Acrylonitrile	ug/L	ND	200	10/11/11 11:22	
Benzene	ug/L	ND	1.0	10/11/11 11:22	
Bromochloromethane	ug/L	ND	3.0	10/11/11 11:22	
Bromodichloromethane	ug/L	ND	1.0	10/11/11 11:22	
Bromoform	ug/L	ND	3.0	10/11/11 11:22	
Bromomethane	ug/L	ND	10.0	10/11/11 11:22	
Carbon disulfide	ug/L	ND	100	10/11/11 11:22	
Carbon tetrachloride	ug/L	ND	1.0	10/11/11 11:22	
Chlorobenzene	ug/L	ND	3.0	10/11/11 11:22	
Chloroethane	ug/L	ND	10.0	10/11/11 11:22	
Chloroform	ug/L	ND	5.0	10/11/11 11:22	
Chloromethane	ug/L	ND	1.0	10/11/11 11:22	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/11/11 11:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/11/11 11:22	
Dibromochloromethane	ug/L	ND	3.0	10/11/11 11:22	
Dibromomethane	ug/L	ND	10.0	10/11/11 11:22	
Ethylbenzene	ug/L	ND	1.0	10/11/11 11:22	
Iodomethane	ug/L	ND	10.0	10/11/11 11:22	
Methylene Chloride	ug/L	ND	1.0	10/11/11 11:22	
Styrene	ug/L	ND	1.0	10/11/11 11:22	
Tetrachloroethene	ug/L	ND	1.0	10/11/11 11:22	
Toluene	ug/L	ND	1.0	10/11/11 11:22	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/11/11 11:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/11/11 11:22	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/11/11 11:22	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

METHOD BLANK: 670942 Matrix: Water

Associated Lab Samples: 92103799004, 92103799005, 92103799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	10/11/11 11:22	
Trichlorofluoromethane	ug/L	ND	1.0	10/11/11 11:22	
Vinyl acetate	ug/L	ND	50.0	10/11/11 11:22	
Vinyl chloride	ug/L	ND	1.0	10/11/11 11:22	
Xylene (Total)	ug/L	ND	5.0	10/11/11 11:22	
1,2-Dichloroethane-d4 (S)	%	106	70-130	10/11/11 11:22	
4-Bromofluorobenzene (S)	%	99	70-130	10/11/11 11:22	
Dibromofluoromethane (S)	%	95	70-130	10/11/11 11:22	
Toluene-d8 (S)	%	103	70-130	10/11/11 11:22	

LABORATORY CONTROL SAMPLE: 670943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.2	106	70-130	
1,1,1-Trichloroethane	ug/L	50	48.7	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	58.5	117	70-130	
1,1,2-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethane	ug/L	50	45.1	90	70-130	
1,1-Dichloroethene	ug/L	50	46.4	93	70-132	
1,2,3-Trichloropropane	ug/L	50	53.4	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.3	117	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	70-130	
1,2-Dichlorobenzene	ug/L	50	53.8	108	70-130	
1,2-Dichloroethane	ug/L	50	57.0	114	70-130	
1,2-Dichloropropane	ug/L	50	57.4	115	70-130	
1,3-Dichloropropane	ug/L	50	55.4	111	70-130	
1,4-Dichlorobenzene	ug/L	50	50.3	101	70-130	
2-Butanone (MEK)	ug/L	100	122	122	70-145	
2-Hexanone	ug/L	100	109	109	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	70-140	
Acetone	ug/L	100	108	108	50-175	
Acrylonitrile	ug/L	250	276	111	70-143	
Benzene	ug/L	50	58.7	117	70-130	
Bromochloromethane	ug/L	50	47.6	95	70-130	
Bromodichloromethane	ug/L	50	52.0	104	70-130	
Bromoform	ug/L	50	51.8	104	70-130	
Bromomethane	ug/L	50	38.5	77	54-130	
Carbon disulfide	ug/L	50	43J	86	70-131	
Carbon tetrachloride	ug/L	50	47.7	95	70-132	
Chlorobenzene	ug/L	50	54.1	108	70-130	
Chloroethane	ug/L	50	45.5	91	64-134	
Chloroform	ug/L	50	45.6	91	70-130	
Chloromethane	ug/L	50	52.0	104	64-130	
cis-1,2-Dichloroethene	ug/L	50	46.9	94	70-131	
cis-1,3-Dichloropropene	ug/L	50	58.4	117	70-130	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

LABORATORY CONTROL SAMPLE: 670943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	52.9	106	70-130	
Dibromomethane	ug/L	50	53.9	108	70-131	
Ethylbenzene	ug/L	50	52.7	105	70-130	
Iodomethane	ug/L	100	80.9	81	49-180	
Methylene Chloride	ug/L	50	51.1	102	63-130	
Styrene	ug/L	50	56.7	113	70-130	
Tetrachloroethene	ug/L	50	50.9	102	70-130	
Toluene	ug/L	50	51.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	44.9	90	70-130	
trans-1,3-Dichloropropene	ug/L	50	59.8	120	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	57.9J	116	70-141	
Trichloroethene	ug/L	50	55.3	111	70-130	
Trichlorofluoromethane	ug/L	50	45.2	90	62-133	
Vinyl acetate	ug/L	100	101	101	66-157	
Vinyl chloride	ug/L	50	53.9	108	69-130	
Xylene (Total)	ug/L	150	160	107	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 670944 670945

Parameter	Units	92103966001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	60.5	58.8	121	118	70-166	3	
Benzene	ug/L	ND	50	50	69.3	68.8	139	138	70-148	1	
Chlorobenzene	ug/L	ND	50	50	61.3	62.2	123	124	70-146	1	
Toluene	ug/L	ND	50	50	62.9	61.3	126	123	70-155	3	
Trichloroethene	ug/L	ND	50	50	59.9	57.7	120	115	69-151	4	
1,2-Dichloroethane-d4 (S)	%						101	100	70-130		
4-Bromofluorobenzene (S)	%						97	100	70-130		
Dibromofluoromethane (S)	%						106	100	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

QC Batch: WET/18249 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92103799003, 92103799004, 92103799005, 92103799006

METHOD BLANK: 672939 Matrix: Water
Associated Lab Samples: 92103799003, 92103799004, 92103799005, 92103799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	10/14/11 10:00	

LABORATORY CONTROL SAMPLE: 672940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	51000	102	90-110	

SAMPLE DUPLICATE: 672941

Parameter	Units	92104088009 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	200 mg/L	195000	2	

SAMPLE DUPLICATE: 672942

Parameter	Units	92103946001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	44.1 mg/L	44100	0	

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

QC Batch: WET/18171 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92103799003, 92103799004, 92103799005, 92103799006

METHOD BLANK: 670263 Matrix: Water
Associated Lab Samples: 92103799003, 92103799004, 92103799005, 92103799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10/07/11 16:33	

LABORATORY CONTROL SAMPLE: 670264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	80-120	

SAMPLE DUPLICATE: 670265

Parameter	Units	92103792001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	482	479	1	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

QC Batch: WETA/10701 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92103799003, 92103799004

METHOD BLANK: 670015 — Matrix: Water
Associated Lab Samples: 92103799003, 92103799004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	5000	10/11/11 15:24	

LABORATORY CONTROL SAMPLE: 670016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19200	96	90-110	

MATRIX SPIKE SAMPLE: 670017

Parameter	Units	92103947001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	ND	20000	21400	93	90-110	

MATRIX SPIKE SAMPLE: 670019

Parameter	Units	92103702007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	111 mg/L	20000	127000	82	90-110	M6

SAMPLE DUPLICATE: 670018

Parameter	Units	92103947001 Result	Dup Result	RPD	Qualifiers
Sulfate	ug/L	ND	ND		

SAMPLE DUPLICATE: 670020

Parameter	Units	92103702007 Result	Dup Result	RPD	Qualifiers
Sulfate	ug/L	111 mg/L	111000	0	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

QC Batch: WETA/10723
Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92103799005, 92103799006

METHOD BLANK: 670740
Matrix: Water
Associated Lab Samples: 92103799005, 92103799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	5000	10/12/11 23:40	

LABORATORY CONTROL SAMPLE: 670741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	20000	100	90-110	

MATRIX SPIKE SAMPLE: 670742

Parameter	Units	92103953021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	ND	20000	19700	87	90-110	M1

MATRIX SPIKE SAMPLE: 670744

Parameter	Units	92103889005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	92.5 mg/L	20000	89800	-13	90-110	M6

SAMPLE DUPLICATE: 670743

Parameter	Units	92103953021 Result	Dup Result	RPD	Qualifiers
Sulfate	ug/L	ND	ND		

SAMPLE DUPLICATE: 670745

Parameter	Units	92103889005 Result	Dup Result	RPD	Qualifiers
Sulfate	ug/L	92.5 mg/L	79000	16	

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QUALITY CONTROL DATA

Project: AVERY C&D 11-4
Pace Project No.: 92103799

QC Batch: WETA/10758 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92103799003, 92103799004, 92103799005, 92103799006

METHOD BLANK: 673081 Matrix: Water
Associated Lab Samples: 92103799003, 92103799004, 92103799005, 92103799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	10/14/11 14:21	

LABORATORY CONTROL SAMPLE: 673082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.0	100	90-110	

MATRIX SPIKE SAMPLE: 673083

Parameter	Units	92103702002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	32.4	20	51.0	93	75-125	

SAMPLE DUPLICATE: 673084

Parameter	Units	92103702003 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	8.8	9.1	4	

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QUALIFIERS

Project: AVERY C&D 11-4
Pace Project No.: 92103799

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.

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

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

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AVERY C&D 11-4
Pace Project No.: 92103799

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92103799001	**SW-1**	EPA 3010	MPRP/9224	EPA 6010	ICP/8531
92103799002	**SW-2**	EPA 3010	MPRP/9224	EPA 6010	ICP/8531
92103799003	**MW-4s**	EPA 3010	MPRP/9224	EPA 6010	ICP/8531
92103799004	**MW-3s**	EPA 3010	MPRP/9224	EPA 6010	ICP/8531
92103799005	**MW-1A**	EPA 3010	MPRP/9224	EPA 6010	ICP/8531
92103799006	**MW-2**	EPA 3010	MPRP/9224	EPA 6010	ICP/8531
92103799001	**SW-1**	EPA 8260	MSV/16916		
92103799002	**SW-2**	EPA 8260	MSV/16916		
92103799003	**MW-4s**	EPA 8260	MSV/16916		
92103799004	**MW-3s**	EPA 8260	MSV/16933		
92103799005	**MW-1A**	EPA 8260	MSV/16933		
92103799006	**MW-2**	EPA 8260	MSV/16933		
92103799003	**MW-4s**	SM 2320B	WET/18249		
92103799004	**MW-3s**	SM 2320B	WET/18249		
92103799005	**MW-1A**	SM 2320B	WET/18249		
92103799006	**MW-2**	SM 2320B	WET/18249		
92103799003	**MW-4s**	SM 2540C	WET/18171		
92103799004	**MW-3s**	SM 2540C	WET/18171		
92103799005	**MW-1A**	SM 2540C	WET/18171		
92103799006	**MW-2**	SM 2540C	WET/18171		
92103799003	**MW-4s**	EPA 300.0	WETA/10701		
92103799004	**MW-3s**	EPA 300.0	WETA/10701		
92103799005	**MW-1A**	EPA 300.0	WETA/10723		
92103799006	**MW-2**	EPA 300.0	WETA/10723		
92103799003	**MW-4s**	SM 4500-Cl-E	WETA/10758		
92103799004	**MW-3s**	SM 4500-Cl-E	WETA/10758		
92103799005	**MW-1A**	SM 4500-Cl-E	WETA/10758		
92103799006	**MW-2**	SM 4500-Cl-E	WETA/10758		

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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: of

1503680

Section A Required Client Information:

Company: RSG
Address: 14 N. Boylan Ave
Raleigh NC 27603
Email To: joan@rsgengineers.com
Phone: 919-828-0577 Fax:
Requested Due Date/TAT: Normal

Section B Required Project Information:

Report To: Joan Smyth (RSG)
Copy To:
Purchase Order No.: Avery 11-4
Project Name: Avery C+D
Project Number: Avery 11-4

Section C Invoice Information:

Attention: Joan Smyth
Company Name: RSG
Address: same
Pace Quote Reference:
Pace Project Manager: Kelly Dillon
Pace Profile #: 3962-2

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER DWM

Site Location STATE: NC

Solid Waste Section

Section D Required Client Information

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

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

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): APP I METALS (200.7)	APP I ORGANICS (8260)	TDS	Chloride	Sulfate	Alkalinity	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-4s	WT	G			10.4.11	9:29a	12	8	4		1	3					✓	✓	✓	✓	✓	✓		003
2	SW-1	WT	G			10.4.11	9:41a	10	4	0		1	3					✓	✓						004
3	MW-3s	WT	G			10.4.11	9:57a	13	8	4		1	3					✓	✓	✓	✓	✓	✓		006
4	MW-2	WT	G			10.4.11	10:12a	13	8	4		1	3					✓	✓	✓	✓	✓	✓		005
5	SW-2	WT	G			10.4.11	10:24a	10	4	0		1	3					✓	✓						002
6	MW-1a	WT	G			10.4.11	10:33a	12	8	4		1	3					✓	✓	✓	✓	✓	✓		005
7																									
8																									
9																									
10																									
11																									
12																									

9603799

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	DON MISENHEIMER	10.4.11	5:00p	Pace	10/5/11	0830				
	Pace	10/5/11	1530	Pace	10/5	1530				
	Pace	10/5/11	1815	Pace	10/5/11	1815	3.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: DON MISENHEIMER

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 10.4.11

*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.

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: July 29, 2011 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.05**	Issuing Authority: Pace Huntersville Quality Office

Client Name: RSG Project # 92103799

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

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

Thermometer Used: IR Gun T1102 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor Add / Subtract 0 °C

Corrected Cooler Temp.: 30 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: TMP 10/5

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
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: [illegible] **Date:** 10/5/11 **SRF Review:** [illegible] **Date:** 10/6/11

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)