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):

Blue Ridge Paper Products, Inc., DBA Evergreen Packaging

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

Name: Mark Lancaster Phone: 864-232-1556

E-mail: mark.lancaster@rogersandcallcott.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Blue Ridge Paper Products, Inc., DBA Evergreen Packaging	1155 Incinerator Rd., Clyde, NC 28721	4406-INDUS-1984	.0500	November 10-12, 2014

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.

Jim Giauque — Waste Compliance & Landfill Super — 828-646-2028

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

Signature — Date: 1/15/15

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1129 GEOLOGIST GEORGE Y. MAALOUF

Evergreen Packaging / 175 Main Street, Canton, NC 28716

Facility Representative Address

NC PG Firm License Number C-199

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

Revised 6/2009

Smart, Integrated, Efficient Solutions.

Groundwater & Surface Water Monitoring Report – November 2014

Blue Ridge Paper Products, Inc. DBA
Evergreen Packaging Landfill #6
Permit # 4406-INDUS-1984

R&C Project No. 2004-159

Prepared for:
Blue Ridge Paper Products, Inc. DBA
Evergreen Packaging

January 2015

LABORATORY

ENGINEERING

ASSESSMENT

REMEDIATION

AIR QUALITY

COMPLIANCE

Rogers & Callcott
ENVIRONMENTAL

Rogers & Callcott
ENVIRONMENTAL

Laboratory
Engineering
Assessment
Remediation
Air Quality
Compliance

January 20, 2015

Compliance Unit
NCDENR-DWM
Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699

Subject: November 2014 Data Submittal
Landfill No. 6, Solid Waste Permit No. 4406-INDUS-1984
Evergreen Packaging, Canton, Haywood County, NC

Dear Sir/Madame:

Rogers & Callcott has completed the collection and laboratory analysis of groundwater, leachate, and surface water samples from the Evergreen Packaging landfill #6 for November 2014. In accordance with the November 2014 NCDENR guidance for submittal of monitoring data, the following items are provided in one file on the enclosed CD.

1. The completed Environmental Monitoring Reporting Form.
2. A copy of this letter.
3. The complete laboratory analysis reports and field forms.
4. Summary tables of historical data from each of the sampling locations since May 2005. Sample results that exceed the appropriate standard are highlighted in these tables.
5. A brief explanation of the cause and significance of concentrations exceeding the standards.
6. A table of well construction information for the landfill wells that includes the groundwater elevations measured on November 10, 2014 and coordinates of the surface water samples.
7. A 2013 aerial photo of the landfill site with potentiometric lines of water levels measured on November 10, 2014 and direction of groundwater flow.
8. Also included in a separate file on the CD is an electronic data deliverable of the November 2014 landfill sample data in the format requested by NCDENR.

If you have any questions or comments concerning this submittal, please call us.

Sincerely,

ROGERS & CALLCOTT ENVIRONMENTAL

Mark A. Lancaster
Environmental Scientist

Enclosure on CD
Cc: Jim Giauque – Evergreen Packaging

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Evergreen Packaging C/O Mark Lancaster - Rogers and Callcott 175 Main Street Canton, NC 28716	**Project:** **Work Order:** **Received:**	MW and SW 4110360 11/10/2014 17:00

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on November 10, 2014. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Kara Hrkach, your Project Manager, at kara.hrkach@rogersandcallcott.com or (864)-335-4956 if you have any questions about this report.

CC: George Maalouf - Rogers and Callcott

Report Approved By:

Kara Hrkach

Kara Hrkach
Project Manager

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PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

Client Evergreen Packaging
C/O Mark Lancaster - Rogers and Callcott
175 Main Street
Canton, NC 28716

Project: MW and SW
Work Order: 4110360
Received: 11/10/2014 17:00

Sample Number	Sample Description	Matrix	Sampled	Type
4110360-01	Pigeon River Down	Ground Water	11/10/14 11:30	Grab
4110360-02	BB Up	Ground Water	11/10/14 12:10	Grab
4110360-03	BB Down	Ground Water	11/10/14 13:00	Grab
4110360-04	BB 3	Ground Water	11/10/14 13:20	Grab
4110360-05	BB 4	Ground Water	11/10/14 13:40	Grab
4110360-06	Pigeon River Up	Ground Water	11/10/14 14:00	Grab
4110360-07	Underflow Drain	Ground Water	11/10/14 14:20	Grab
4110360-08	Landfill Leachate	Ground Water	11/10/14 14:45	Grab
4110360-09	Pigeon River Down	Ground Water	11/10/14 11:30	Grab
4110360-10	BB Up	Ground Water	11/10/14 12:10	Grab
4110360-11	BB Down	Ground Water	11/10/14 13:00	Grab
4110360-12	BB 3	Ground Water	11/10/14 13:20	Grab
4110360-13	BB 4	Ground Water	11/10/14 13:40	Grab
4110360-14	Pigeon River Up	Ground Water	11/10/14 14:00	Grab
4110360-15	Underflow Drain	Ground Water	11/10/14 14:20	Grab
4110360-16	Landfill Leachate	Ground Water	11/10/14 14:45	Grab
4110360-17	Pigeon River Down	Ground Water	11/10/14 11:30	Grab
4110360-18	BB Up	Ground Water	11/10/14 12:10	Grab
4110360-19	BB Down	Ground Water	11/10/14 13:00	Grab
4110360-20	BB 3	Ground Water	11/10/14 13:20	Grab
4110360-21	BB 4	Ground Water	11/10/14 13:40	Grab
4110360-22	Pigeon River Up	Ground Water	11/10/14 14:00	Grab
4110360-23	Underflow Drain	Ground Water	11/10/14 14:20	Grab
4110360-24	Landfill Leachate	Ground Water	11/10/14 14:45	Grab
4110360-25	Underflow Drain	Ground Water	11/10/14 14:20	Grab
4110360-26	Landfill Leachate	Ground Water	11/10/14 14:45	Grab

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Data

Sample Number 4110360-01
Sample Description Pigeon River Down collected on 11/10/14 11:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**7.4**	0.1	pH Units	1.00	11/10/14 11:30	EPA 9040C		JHF	B4K0333
Specific Conductance at 25 C	**705**	10.0	umhos/cm	1.00	11/10/14 11:30	EPA 9050A		JHF	B4K0333
Temperature	**14.4**	0.0	°C	1.00	11/10/14 11:30	SM 2550B-2010		JHF	B4K0333
Turbidity (Field)	ND	5.0	NTU	1.00	11/10/14 11:30	Field Screen		JHF	B4K0333

Sample Number 4110360-02
Sample Description BB Up collected on 11/10/14 12:10

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.4**	0.1	pH Units	1.00	11/10/14 12:10	EPA 9040C		JHF	B4K0333
Specific Conductance at 25 C	**89.4**	10.0	umhos/cm	1.00	11/10/14 12:10	EPA 9050A		JHF	B4K0333
Temperature	**14.2**	0.0	°C	1.00	11/10/14 12:10	SM 2550B-2010		JHF	B4K0333
Turbidity (Field)	ND	5.0	NTU	1.00	11/10/14 12:10	Field Screen		JHF	B4K0333

Sample Number 4110360-03
Sample Description BB Down collected on 11/10/14 13:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.1**	0.1	pH Units	1.00	11/10/14 13:00	EPA 9040C		JHF	B4K0333
Specific Conductance at 25 C	**86.8**	10.0	umhos/cm	1.00	11/10/14 13:00	EPA 9050A		JHF	B4K0333
Temperature	**14.4**	0.0	°C	1.00	11/10/14 13:00	SM 2550B-2010		JHF	B4K0333
Turbidity (Field)	ND	5.0	NTU	1.00	11/10/14 13:00	Field Screen		JHF	B4K0333

Sample Number 4110360-04
Sample Description BB 3 collected on 11/10/14 13:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.1**	0.1	pH Units	1.00	11/10/14 13:20	EPA 9040C		JHF	B4K0333
Specific Conductance at 25 C	**102**	10.0	umhos/cm	1.00	11/10/14 13:20	EPA 9050A		JHF	B4K0333
Temperature	**13.5**	0.0	°C	1.00	11/10/14 13:20	SM 2550B-2010		JHF	B4K0333
Turbidity (Field)	ND	5.0	NTU	1.00	11/10/14 13:20	Field Screen		JHF	B4K0333

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-05
Sample Description BB 4 collected on 11/10/14 13:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.4**	0.1	pH Units	1.00	11/10/14 13:40	EPA 9040C		JHF	B4K0333
Specific Conductance at 25 C	**108**	10.0	umhos/cm	1.00	11/10/14 13:40	EPA 9050A		JHF	B4K0333
Temperature	**13.9**	0.0	°C	1.00	11/10/14 13:40	SM 2550B-2010		JHF	B4K0333
Turbidity (Field)	ND	5.0	NTU	1.00	11/10/14 13:40	Field Screen		JHF	B4K0333

Sample Number 4110360-06
Sample Description Pigeon River Up collected on 11/10/14 14:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**7.0**	0.1	pH Units	1.00	11/10/14 14:00	EPA 9040C		JHF	B4K0333
Specific Conductance at 25 C	**695**	10.0	umhos/cm	1.00	11/10/14 14:00	EPA 9050A		JHF	B4K0333
Temperature	**15.4**	0.0	°C	1.00	11/10/14 14:00	SM 2550B-2010		JHF	B4K0333
Turbidity (Field)	ND	5.0	NTU	1.00	11/10/14 14:00	Field Screen		JHF	B4K0333

Sample Number 4110360-07
Sample Description Underflow Drain collected on 11/10/14 14:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**5.9**	0.1	pH Units	1.00	11/10/14 14:20	EPA 9040C		JHF	B4K0333
Specific Conductance at 25 C	**110**	10.0	umhos/cm	1.00	11/10/14 14:20	EPA 9050A		JHF	B4K0333
Temperature	**21.5**	0.0	°C	1.00	11/10/14 14:20	SM 2550B-2010		JHF	B4K0333
Turbidity (Field)	ND	5.0	NTU	1.00	11/10/14 14:20	Field Screen		JHF	B4K0333

Sample Number 4110360-08
Sample Description Landfill Leachate collected on 11/10/14 14:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**7.4**	0.1	pH Units	1.00	11/10/14 14:45	EPA 9040C		JHF	B4K0333
Specific Conductance at 25 C	**20100**	10.0	umhos/cm	1.00	11/10/14 14:45	EPA 9050A		JHF	B4K0333
Temperature	**21.7**	0.0	°C	1.00	11/10/14 14:45	SM 2550B-2010		JHF	B4K0333
Turbidity (Field)	**132**	5.0	NTU	1.00	11/10/14 14:45	Field Screen		JHF	B4K0333

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-09
Sample Description Pigeon River Down collected on 11/10/14 11:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**62.5**	10.0	mg/L	10.0	11/12/14 21:23	EPA 300.0		LJW	B4K0478
Fluoride	ND	0.10	mg/L	1.00	11/12/14 21:01	EPA 300.0		LJW	B4K0477
Nitrate-Nitrite as N	**0.11**	0.10	mg/L	1.00	11/18/14 13:10	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 09:36	SM 4500NO2B-2011		REH	B4K0383
Sulfate	**110**	25.0	mg/L	25.0	11/12/14 21:45	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**408**	25.0	mg/L	1.00	11/11/14 16:30	SM 2540C-2011		JRA	B4K0368
Total Organic Carbon	**9.47**	2.00	mg/L	2.00	11/13/14 23:26	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 10:25	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 11:32	EPA 200.8		DER	B4K0370
Barium	**0.031**	0.010	mg/L	1.00	11/20/14 12:32	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 11:32	EPA 200.8		DER	B4K0370
Calcium	**16**	2.0	mg/L	20.0	11/20/14 12:29	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 11:32	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 11:32	EPA 200.8		DER	B4K0370
Iron	**0.12**	0.050	mg/L	1.00	11/20/14 12:32	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 11:32	EPA 200.8		DER	B4K0370
Magnesium	**2.3**	0.10	mg/L	1.00	11/20/14 12:32	EPA 200.7		MEC	B4K0341
Manganese	**0.020**	0.005	mg/L	1.00	11/19/14 11:32	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 11:32	EPA 200.8		DER	B4K0370
Potassium	**6.8**	0.50	mg/L	1.00	11/20/14 12:32	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 11:32	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 12:27	EPA 200.8		DER	B4K0371
Sodium	**130**	50	mg/L	100	11/20/14 12:27	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 12:32	EPA 200.7		MEC	B4K0341

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-10
Sample Description BB Up collected on 11/10/14 12:10

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**3.27**	1.00	mg/L	1.00	11/12/14 16:15	EPA 300.0		LJW	B4K0478
Fluoride	ND	0.10	mg/L	1.00	11/12/14 16:15	EPA 300.0	S1	LJW	B4K0477
Nitrate-Nitrite as N	**0.47**	0.10	mg/L	1.00	11/18/14 13:10	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 09:36	SM 4500NO2B-2011		REH	B4K0383
Sulfate	**3.01**	1.00	mg/L	1.00	11/12/14 16:15	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**39.0**	25.0	mg/L	1.00	11/11/14 16:30	SM 2540C-2011		JRA	B4K0368
Total Organic Carbon	**1.23**	1.00	mg/L	1.00	11/13/14 22:43	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 10:33	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 12:08	EPA 200.8		DER	B4K0370
Barium	**0.028**	0.010	mg/L	1.00	11/20/14 11:08	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 12:08	EPA 200.8		DER	B4K0370
Calcium	**4.6**	0.10	mg/L	1.00	11/20/14 11:08	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 12:08	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 12:08	EPA 200.8		DER	B4K0370
Iron	**0.35**	0.050	mg/L	1.00	11/20/14 11:08	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 12:08	EPA 200.8		DER	B4K0370
Magnesium	**1.8**	0.10	mg/L	1.00	11/20/14 11:08	EPA 200.7		MEC	B4K0341
Manganese	**0.021**	0.005	mg/L	1.00	11/19/14 12:08	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 12:08	EPA 200.8		DER	B4K0370
Potassium	**2.2**	0.50	mg/L	1.00	11/20/14 11:08	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 12:08	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 12:53	EPA 200.8		DER	B4K0371
Sodium	**3.9**	0.50	mg/L	1.00	11/20/14 11:08	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 11:08	EPA 200.7		MEC	B4K0341

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-11
Sample Description BB Down collected on 11/10/14 13:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**5.58**	1.00	mg/L	1.00	11/12/14 17:21	EPA 300.0		LJW	B4K0478
Fluoride	ND	0.10	mg/L	1.00	11/12/14 17:21	EPA 300.0		LJW	B4K0477
Nitrate-Nitrite as N	**0.51**	0.10	mg/L	1.00	11/18/14 13:21	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 09:41	SM 4500NO2B-2011		REH	B4K0383
Sulfate	**3.53**	1.00	mg/L	1.00	11/12/14 17:21	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**45.0**	25.0	mg/L	1.00	11/11/14 16:30	SM 2540C-2011		JRA	B4K0368
Total Organic Carbon	**1.25**	1.00	mg/L	1.00	11/13/14 23:40	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 10:36	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 12:12	EPA 200.8		DER	B4K0370
Barium	**0.031**	0.010	mg/L	1.00	11/20/14 11:40	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 12:12	EPA 200.8		DER	B4K0370
Calcium	**5.5**	0.20	mg/L	2.00	11/20/14 11:38	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 12:12	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 12:12	EPA 200.8		DER	B4K0370
Iron	**0.38**	0.050	mg/L	1.00	11/20/14 11:40	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 12:12	EPA 200.8		DER	B4K0370
Magnesium	**2.1**	0.10	mg/L	1.00	11/20/14 11:40	EPA 200.7		MEC	B4K0341
Manganese	**0.038**	0.005	mg/L	1.00	11/19/14 12:12	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 12:12	EPA 200.8		DER	B4K0370
Potassium	**2.2**	0.50	mg/L	1.00	11/20/14 11:40	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 12:12	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 14:16	EPA 200.8		DER	B4K0371
Sodium	**5.6**	1.0	mg/L	2.00	11/20/14 11:38	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 11:40	EPA 200.7		MEC	B4K0341

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-12
Sample Description BB 3 collected on 11/10/14 13:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**6.21**	1.00	mg/L	1.00	11/12/14 17:43	EPA 300.0		LJW	B4K0478
Fluoride	ND	0.10	mg/L	1.00	11/12/14 17:43	EPA 300.0		LJW	B4K0477
Nitrate-Nitrite as N	**0.52**	0.10	mg/L	1.00	11/18/14 13:21	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 09:41	SM 4500NO2B-2011		REH	B4K0383
Sulfate	**5.99**	1.00	mg/L	1.00	11/12/14 17:43	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**71.0**	25.0	mg/L	1.00	11/11/14 16:30	SM 2540C-2011		JRA	B4K0368
Total Organic Carbon	**1.20**	1.00	mg/L	1.00	11/13/14 23:52	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 10:39	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 11:46	EPA 200.8		DER	B4K0370
Barium	**0.029**	0.010	mg/L	1.00	11/20/14 12:05	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 11:46	EPA 200.8		DER	B4K0370
Calcium	**5.7**	1.0	mg/L	10.0	11/20/14 12:02	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 11:46	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 11:46	EPA 200.8		DER	B4K0370
Iron	**0.30**	0.050	mg/L	1.00	11/20/14 12:05	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 11:46	EPA 200.8		DER	B4K0370
Magnesium	**2.2**	0.10	mg/L	1.00	11/20/14 12:05	EPA 200.7		MEC	B4K0341
Manganese	**0.028**	0.005	mg/L	1.00	11/19/14 11:46	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 11:46	EPA 200.8		DER	B4K0370
Potassium	**2.3**	0.50	mg/L	1.00	11/20/14 12:05	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 11:46	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 12:37	EPA 200.8		DER	B4K0371
Sodium	**8.4**	5.0	mg/L	10.0	11/20/14 12:02	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 12:05	EPA 200.7		MEC	B4K0341

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-13
Sample Description BB 4 collected on 11/10/14 13:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**6.38**	1.00	mg/L	1.00	11/12/14 18:05	EPA 300.0		LJW	B4K0478
Fluoride	ND	0.10	mg/L	1.00	11/12/14 18:05	EPA 300.0		LJW	B4K0477
Nitrate-Nitrite as N	**0.50**	0.10	mg/L	1.00	11/18/14 13:32	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 09:46	SM 4500NO2B-2011		REH	B4K0383
Sulfate	**8.18**	1.00	mg/L	1.00	11/12/14 18:05	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**63.0**	25.0	mg/L	1.00	11/11/14 16:30	SM 2540C-2011		JRA	B4K0368
Total Organic Carbon	**1.20**	1.00	mg/L	1.00	11/14/14 00:04	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 10:47	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 12:16	EPA 200.8		DER	B4K0370
Barium	**0.029**	0.010	mg/L	1.00	11/20/14 12:10	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 12:16	EPA 200.8		DER	B4K0370
Calcium	**5.8**	1.0	mg/L	10.0	11/20/14 12:07	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 12:16	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 12:16	EPA 200.8		DER	B4K0370
Iron	**0.32**	0.050	mg/L	1.00	11/20/14 12:10	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 12:16	EPA 200.8		DER	B4K0370
Magnesium	**2.3**	0.10	mg/L	1.00	11/20/14 12:10	EPA 200.7		MEC	B4K0341
Manganese	**0.027**	0.005	mg/L	1.00	11/19/14 12:16	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 12:16	EPA 200.8		DER	B4K0370
Potassium	**2.3**	0.50	mg/L	1.00	11/20/14 12:10	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 12:16	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 12:55	EPA 200.8		DER	B4K0371
Sodium	**11**	5.0	mg/L	10.0	11/20/14 12:07	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 12:10	EPA 200.7		MEC	B4K0341

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-14
Sample Description Pigeon River Up collected on 11/10/14 14:00

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**63.6**	10.0	mg/L	10.0	11/12/14 22:29	EPA 300.0		LJW	B4K0478
Fluoride	ND	0.10	mg/L	1.00	11/12/14 22:07	EPA 300.0		LJW	B4K0477
Nitrate-Nitrite as N	**0.11**	0.10	mg/L	1.00	11/18/14 13:32	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 09:46	SM 4500NO2B-2011		REH	B4K0383
Sulfate	**111**	25.0	mg/L	25.0	11/12/14 22:52	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**380**	50.0	mg/L	2.00	11/11/14 16:30	SM 2540C-2011		JRA	B4K0368
Total Organic Carbon	**9.82**	2.00	mg/L	2.00	11/14/14 00:18	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	**0.007**	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 10:50	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 12:20	EPA 200.8		DER	B4K0370
Barium	**0.030**	0.010	mg/L	1.00	11/20/14 12:41	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 12:20	EPA 200.8		DER	B4K0370
Calcium	**13**	2.0	mg/L	20.0	11/20/14 12:38	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 12:20	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 12:20	EPA 200.8		DER	B4K0370
Iron	**0.11**	0.050	mg/L	1.00	11/20/14 12:41	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 12:20	EPA 200.8		DER	B4K0370
Magnesium	**2.3**	0.10	mg/L	1.00	11/20/14 12:41	EPA 200.7		MEC	B4K0341
Manganese	**0.027**	0.005	mg/L	1.00	11/19/14 12:20	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 12:20	EPA 200.8		DER	B4K0370
Potassium	**6.6**	0.50	mg/L	1.00	11/20/14 12:41	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 12:20	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 12:58	EPA 200.8		DER	B4K0371
Sodium	**130**	50	mg/L	100	11/20/14 12:36	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 12:41	EPA 200.7		MEC	B4K0341

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-15
Sample Description Underflow Drain collected on 11/10/14 14:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**14.2**	2.00	mg/L	2.00	11/12/14 18:49	EPA 300.0		LJW	B4K0478
Fluoride	ND	0.10	mg/L	1.00	11/12/14 18:27	EPA 300.0		LJW	B4K0477
Nitrate-Nitrite as N	**0.40**	0.10	mg/L	1.00	11/18/14 13:32	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 09:50	SM 4500NO2B-2011		REH	B4K0383
Sulfate	**3.83**	1.00	mg/L	1.00	11/12/14 18:27	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**72.0**	25.0	mg/L	1.00	11/11/14 16:30	SM 2540C-2011		JRA	B4K0368
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 00:31	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610
Total Metals									
Mercury	**0.00021**	0.00020	mg/L	1.00	11/21/14 10:58	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 12:24	EPA 200.8		DER	B4K0370
Barium	**0.076**	0.010	mg/L	1.00	11/20/14 11:45	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 12:24	EPA 200.8		DER	B4K0370
Calcium	**6.2**	0.20	mg/L	2.00	11/20/14 11:43	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 12:24	EPA 200.8		DER	B4K0370
Copper	**0.007**	0.005	mg/L	1.00	11/19/14 12:24	EPA 200.8		DER	B4K0370
Iron	**0.55**	0.050	mg/L	1.00	11/20/14 11:45	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 12:24	EPA 200.8		DER	B4K0370
Magnesium	**3.1**	0.10	mg/L	1.00	11/20/14 11:45	EPA 200.7		MEC	B4K0341
Manganese	**0.155**	0.005	mg/L	1.00	11/19/14 12:24	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 12:24	EPA 200.8		DER	B4K0370
Potassium	**2.0**	0.50	mg/L	1.00	11/20/14 11:45	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 12:24	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 13:00	EPA 200.8		DER	B4K0371
Sodium	**4.1**	0.50	mg/L	1.00	11/20/14 11:45	EPA 200.7		MEC	B4K0341
Zinc	**0.15**	0.020	mg/L	1.00	11/20/14 11:45	EPA 200.7		MEC	B4K0341

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-16
Sample Description Landfill Leachate collected on 11/10/14 14:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**107**	50.0	mg/L	50.0	11/13/14 01:48	EPA 300.0		LJW	B4K0478
Fluoride	ND	5.00	mg/L	50.0	11/13/14 01:48	EPA 300.0	X	LJW	B4K0477
Nitrate-Nitrite as N	ND	0.50	mg/L	5.00	11/18/14 13:32	SM 4500NO3H-2011	X	REH	B4K0593
Nitrite as N	ND	0.100	mg/L	10.0	11/12/14 09:50	SM 4500NO2B-2011	X	REH	B4K0383
Sulfate	**1820**	500	mg/L	500	11/13/14 02:10	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**16400**	250	mg/L	10.0	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535
Total Organic Carbon	**39.2**	20.0	mg/L	20.0	11/14/14 00:44	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	**0.010**	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610
Total Metals									
Mercury	ND	0.0010	mg/L	5.00	11/21/14 11:01	EPA 245.1	X	DER	B4K0373
Arsenic	**3.67**	0.025	mg/L	5.00	11/19/14 16:50	EPA 200.8		DER	B4K0370
Barium	**0.089**	0.050	mg/L	5.00	11/20/14 14:25	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.005	mg/L	5.00	11/19/14 16:50	EPA 200.8	X	DER	B4K0370
Calcium	**31**	2.5	mg/L	25.0	11/20/14 14:22	EPA 200.7		MEC	B4K0341
Chromium	ND	0.010	mg/L	5.00	11/19/14 16:50	EPA 200.8	X	DER	B4K0370
Copper	ND	0.025	mg/L	5.00	11/19/14 16:50	EPA 200.8	X	DER	B4K0370
Iron	**0.51**	0.25	mg/L	5.00	11/20/14 14:25	EPA 200.7		MEC	B4K0341
Lead	ND	0.025	mg/L	5.00	11/19/14 16:50	EPA 200.8	X	DER	B4K0370
Magnesium	**310**	25	mg/L	250	11/20/14 14:20	EPA 200.7		MEC	B4K0341
Manganese	**0.275**	0.025	mg/L	5.00	11/19/14 16:50	EPA 200.8		DER	B4K0370
Nickel	**0.042**	0.025	mg/L	5.00	11/19/14 16:50	EPA 200.8		DER	B4K0370
Potassium	**440**	12	mg/L	25.0	11/20/14 14:22	EPA 200.7		MEC	B4K0341
Selenium	ND	0.025	mg/L	5.00	11/19/14 16:50	EPA 200.8	X	DER	B4K0370
Silver	ND	0.020	mg/L	10.0	11/18/14 14:19	EPA 200.8	X	DER	B4K0371
Sodium	**6200**	1200	mg/L	2,500	11/20/14 14:37	EPA 200.7		MEC	B4K0341
Zinc	ND	0.10	mg/L	5.00	11/20/14 14:25	EPA 200.7	X	MEC	B4K0341

Sample Number 4110360-25
Sample Description Underflow Drain collected on 11/10/14 14:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
BOD, 5 Day	ND	2.0	mg/L	1.00	11/12/14 09:16	SM 5210B-2011		MLR	B4K0374
COD	ND	20.0	mg/L	1.00	11/14/14 15:01	EPA 410.4		REH	B4K0378

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Number 4110360-26
Sample Description Landfill Leachate collected on 11/10/14 14:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
BOD, 5 Day	**82.0**	2.0	mg/L	1.00	11/12/14 09:20	SM 5210B-2011		MLR	B4K0374
COD	**356**	20.0	mg/L	1.00	11/25/14 14:15	EPA 410.4		REH	B4K0841
Total Phosphorus as P	**24**	2.5	mg/L	250	11/17/14 15:22	SM 4500PE-2011		JRA	B4K0581

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Subcontracted Analyses

Sample Number 4110360-17
Sample Description Pigeon River Down collected on 11/10/14 11:30

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110360-18
Sample Description BB Up collected on 11/10/14 12:10

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110360-19
Sample Description BB Down collected on 11/10/14 13:00

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110360-20
Sample Description BB 3 collected on 11/10/14 13:20

Parameter

Subcontract TOH

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Sample Number 4110360-21
Sample Description BB 4 collected on 11/10/14 13:40

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110360-22
Sample Description Pigeon River Up collected on 11/10/14 14:00

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110360-23
Sample Description Underflow Drain collected on 11/10/14 14:20

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110360-24
Sample Description Landfill Leachate collected on 11/10/14 14:45

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0368 - General Prep - Solids										
Blank (B4K0368-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							
LCS (B4K0368-BS1)										
Total Dissolved Solids	1910	25.0	mg/L	2000		96	80-120			
Duplicate (B4K0368-DUP1)	**Source: 4110128-02**									
Total Dissolved Solids	8960	250	mg/L		9030			0.8	15	
Batch B4K0374 - General Prep - BOD										
Blank (B4K0374-BLK1)										
BOD, 5 Day	ND	2.0	mg/L							
LCS (B4K0374-BS1)										
BOD, 5 Day	195	2.0	mg/L	198		98	85-115			
Duplicate (B4K0374-DUP1)	**Source: 4110355-03**									
BOD, 5 Day	615	2.0	mg/L		608			1	30	
Duplicate (B4K0374-DUP2)	**Source: 4110389-03**									
BOD, 5 Day	343	2.0	mg/L		310			10	30	D6
Batch B4K0378 - General Prep - Wet Chem										
Blank (B4K0378-BLK1)										
COD	ND	20.0	mg/L							
LCS (B4K0378-BS1)										
COD	716	20.0	mg/L	700		102	90-110			
Duplicate (B4K0378-DUP1)	**Source: 4110227-03**									
COD	ND	20.0	mg/L		ND				20	

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0378 - General Prep - Wet Chem										
Matrix Spike (B4K0378-MS1) **Source: 4110227-03**										
COD	429	20.0	mg/L	400	ND	104	90-110			
Batch B4K0383 - General Prep - Wet Chem KL										
Blank (B4K0383-BLK1)										
Nitrite as N	ND	0.010	mg/L							
LCS (B4K0383-BS1)										
Nitrite as N	0.490	0.010	mg/L	0.500		98	85-115			
Matrix Spike (B4K0383-MS1) **Source: 4110360-10**										
Nitrite as N	0.253	0.010	mg/L	0.250	ND	101	80-120			
Matrix Spike Dup (B4K0383-MSD1) **Source: 4110360-10**										
Nitrite as N	0.253	0.010	mg/L	0.250	ND	101	80-120	0.09	20	
Batch B4K0449 - General Prep - TOC										
Blank (B4K0449-BLK1)										
Total Organic Carbon	ND	1.00	mg/L							
Blank (B4K0449-BLK2)										
Total Organic Carbon	ND	1.00	mg/L							
LCS (B4K0449-BS1)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
LCS (B4K0449-BS2)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
Matrix Spike (B4K0449-MS1) **Source: 4110279-01**										
Total Organic Carbon	3.58	1.00	mg/L	3.75	ND	91	80-120			

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0449 - General Prep - TOC										
Matrix Spike (B4K0449-MS2)	**Source: 4110360-10**									
Total Organic Carbon	4.78	1.00	mg/L	3.75	1.23	95	80-120			
Matrix Spike (B4K0449-MS3)	**Source: 4110361-08**									
Total Organic Carbon	5.18	1.00	mg/L	3.75	1.69	93	80-120			
Matrix Spike (B4K0449-MS4)	**Source: 4110474-36**									
Total Organic Carbon	7.94	1.00	mg/L	3.75	4.57	90	80-120			
Matrix Spike Dup (B4K0449-MSD1)	**Source: 4110279-01**									
Total Organic Carbon	3.61	1.00	mg/L	3.75	ND	92	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD2)	**Source: 4110360-10**									
Total Organic Carbon	4.83	1.00	mg/L	3.75	1.23	96	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD3)	**Source: 4110361-08**									
Total Organic Carbon	5.22	1.00	mg/L	3.75	1.69	94	80-120	0.7	20	
Matrix Spike Dup (B4K0449-MSD4)	**Source: 4110474-36**									
Total Organic Carbon	8.00	1.00	mg/L	3.75	4.57	91	80-120	0.7	20	
Batch B4K0477 - General Prep - IC										
Blank (B4K0477-BLK1)										
Fluoride	ND	0.10	mg/L							
LCS (B4K0477-BS1)										
Fluoride	0.50	0.10	mg/L	0.500		100	90-110			
Duplicate (B4K0477-DUP1)	**Source: 4110360-10**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0477-DUP2)	**Source: 4110362-03**									
Fluoride	ND	0.10	mg/L		ND				20	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0477 - General Prep - IC										
Matrix Spike (B4K0477-MS1)	**Source: 4110360-10**									
Fluoride	0.31	0.10	mg/L	0.300	ND	86	90-110			S1
Matrix Spike (B4K0477-MS2)	**Source: 4110362-03**									
Fluoride	0.30	0.10	mg/L	0.300	ND	98	90-110			
Batch B4K0478 - General Prep - IC										
Blank (B4K0478-BLK1)										
Chloride	ND	1.00	mg/L							
LCS (B4K0478-BS1)										
Chloride	4.84	1.00	mg/L	5.00		97	90-110			
Duplicate (B4K0478-DUP1)	**Source: 4110360-10**									
Chloride	3.29	1.00	mg/L		3.27			0.5	20	
Duplicate (B4K0478-DUP2)	**Source: 4110362-03**									
Chloride	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0478-MS1)	**Source: 4110360-10**									
Chloride	6.10	1.00	mg/L	3.00	3.27	95	90-110			
Matrix Spike (B4K0478-MS2)	**Source: 4110362-03**									
Chloride	2.86	1.00	mg/L	3.00	ND	73	90-110			S1
Batch B4K0480 - General Prep - IC										
Blank (B4K0480-BLK1)										
Sulfate	ND	1.00	mg/L							
LCS (B4K0480-BS1)										
Sulfate	4.81	1.00	mg/L	5.00		96	90-110			

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Evergreen Packaging		Project:	MW and SW
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Canton, NC 28716		Reported:	12/11/14 13:55

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0480 - General Prep - IC										
Duplicate (B4K0480-DUP1)	**Source: 4110360-10**									
Sulfate	3.01	1.00	mg/L		3.01			0.2	20	
Duplicate (B4K0480-DUP2)	**Source: 4110362-03**									
Sulfate	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0480-MS1)	**Source: 4110360-10**									
Sulfate	5.82	1.00	mg/L	3.00	3.01	94	90-110			
Matrix Spike (B4K0480-MS2)	**Source: 4110362-03**									
Sulfate	2.90	1.00	mg/L	3.00	ND	85	90-110			S1
Batch B4K0535 - General Prep - Solids										
Blank (B4K0535-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							
Duplicate (B4K0535-DUP1)	**Source: 4110360-16**									
Total Dissolved Solids	16400	250	mg/L		16400			0.2	15	
Duplicate (B4K0535-DUP2)	**Source: 4110361-09**									
Total Dissolved Solids	1140	250	mg/L		1060			7	15	
Batch B4K0581 - General Prep - Phos										
Blank (B4K0581-BLK1)										
Total Phosphorus as P	ND	0.010	mg/L							
LCS (B4K0581-BS1)										
Total Phosphorus as P	0.244	0.010	mg/L	0.250		98	85-115			
Matrix Spike (B4K0581-MS1)	**Source: 4110477-02**									
Total Phosphorus as P	0.221	0.010	mg/L	0.200	0.027	97	80-120			

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Evergreen Packaging		Project:	MW and SW
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General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0581 - General Prep - Phos										
Matrix Spike Dup (B4K0581-MSD1)	**Source: 4110477-02**									
Total Phosphorus as P	0.230	0.010	mg/L	0.200	0.027	102	80-120	4	20	
Batch B4K0593 - General Prep - Wet Chem KL										
Blank (B4K0593-BLK1)										
Nitrate-Nitrite as N	ND	0.10	mg/L							
LCS (B4K0593-BS1)										
Nitrate-Nitrite as N	1.95	0.10	mg/L	2.00		98	85-115			
Matrix Spike (B4K0593-MS1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.78	0.10	mg/L	1.25	0.51	102	75-125			
Matrix Spike Dup (B4K0593-MSD1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.76	0.10	mg/L	1.25	0.51	101	75-125	0.8	20	
Batch B4K0610 - General Prep - Phenol										
Blank (B4K0610-BLK1)										
Total Recoverable Phenols	ND	0.005	mg/L							
LCS (B4K0610-BS1)										
Total Recoverable Phenols	0.0371	0.005	mg/L	0.0400		93	90-110			
Duplicate (B4K0610-DUP1)	**Source: 4110360-09**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Duplicate (B4K0610-DUP2)	**Source: 4110360-12**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Matrix Spike (B4K0610-MS1)	**Source: 4110360-09**									
Total Recoverable Phenols	0.0320	0.005	mg/L	0.0400	ND	80	75-125			

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0610 - General Prep - Phenol										
Matrix Spike (B4K0610-MS2)	**Source: 4110360-12**									
Total Recoverable Phenols	0.0303	0.005	mg/L	0.0400	ND	76	75-125			
Batch B4K0841 - General Prep - Wet Chem										
Blank (B4K0841-BLK1)										
COD	ND	20.0	mg/L							
LCS (B4K0841-BS1)										
COD	753	20.0	mg/L	700		108	90-110			
LCS (B4K0841-BS2)										
COD	417	20.0	mg/L	400		104	90-110			
Duplicate (B4K0841-DUP1)	**Source: 4110663-01**									
COD	20.1	20.0	mg/L		ND			26	20	P3
Duplicate (B4K0841-DUP2)	**Source: 4110745-02**									
COD	146	20.0	mg/L		143			2	20	
Matrix Spike (B4K0841-MS1)	**Source: 4110663-01**									
COD	440	20.0	mg/L	400	ND	106	90-110			
Matrix Spike (B4K0841-MS2)	**Source: 4110745-02**									
COD	564	20.0	mg/L	400	143	105	90-110			

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Evergreen Packaging		Project:	MW and SW
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Canton, NC 28716		Reported:	12/11/14 13:55

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Blank (B4K0341-BLK1)										
Barium	ND	0.010	mg/L							
Calcium	ND	0.10	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.10	mg/L							
Potassium	ND	0.50	mg/L							
Sodium	ND	0.50	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B4K0341-BS1)										
Barium	1.04	0.010	mg/L	1.00		104	85-115			
Calcium	1.04	0.10	mg/L	1.00		104	85-115			
Iron	1.03	0.050	mg/L	1.00		103	85-115			
Magnesium	1.03	0.10	mg/L	1.00		103	85-115			
Potassium	9.53	0.50	mg/L	10.0		95	85-115			
Sodium	1.04	0.50	mg/L	1.00		104	85-115			
Zinc	1.05	0.020	mg/L	1.00		105	85-115			
Duplicate (B4K0341-DUP1)	**Source: 4110360-10**									
Barium	0.03	0.010	mg/L		0.03			0.8	20	
Calcium	4.72	0.10	mg/L		4.58			3	20	
Iron	0.350	0.050	mg/L		0.348			0.4	20	
Magnesium	1.87	0.10	mg/L		1.81			3	20	
Potassium	2.22	0.50	mg/L		2.16			2	20	
Sodium	4.07	0.50	mg/L		3.93			3	20	
Zinc	ND	0.020	mg/L		ND				20	
Duplicate (B4K0341-DUP2)	**Source: 4110474-26**									
Barium	0.04	0.010	mg/L		0.04			3	20	
Calcium	4.66	0.10	mg/L		4.70			0.9	20	
Iron	ND	0.050	mg/L		ND				20	
Magnesium	1.61	0.10	mg/L		1.62			0.03	20	
Potassium	1.31	0.50	mg/L		1.34			2	20	
Sodium	3.10	0.50	mg/L		3.11			0.2	20	
Zinc	ND	0.020	mg/L		ND				20	

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Matrix Spike (B4K0341-MS1)	**Source: 4110360-10**									
Barium	1.09	0.010	mg/L	1.00	0.03	106	70-130			
Calcium	5.77	0.10	mg/L	1.00	4.58	119	70-130			
Iron	1.41	0.050	mg/L	1.00	0.348	106	70-130			
Magnesium	2.92	0.10	mg/L	1.00	1.81	111	70-130			
Potassium	11.9	0.50	mg/L	10.0	2.16	97	70-130			
Sodium	5.03	0.50	mg/L	1.00	3.93	109	70-130			
Zinc	1.08	0.020	mg/L	1.00	ND	107	70-130			
Matrix Spike (B4K0341-MS2)	**Source: 4110474-26**									
Barium	1.08	0.010	mg/L	1.00	0.04	104	70-130			
Calcium	5.65	0.10	mg/L	1.00	4.70	95	70-130			
Iron	1.05	0.050	mg/L	1.00	ND	104	70-130			
Magnesium	2.64	0.10	mg/L	1.00	1.62	103	70-130			
Potassium	10.7	0.50	mg/L	10.0	1.34	94	70-130			
Sodium	4.00	0.50	mg/L	1.00	3.11	89	70-130			
Zinc	1.04	0.020	mg/L	1.00	ND	103	70-130			
Post Spike (B4K0341-PS1)	**Source: 4110360-10**									
Barium	1.05		mg/L	1.00	0.03	102	85-115			
Calcium	5.62		mg/L	1.00	4.58	104	85-115			
Iron	1.37		mg/L	1.00	0.348	102	85-115			
Magnesium	2.82		mg/L	1.00	1.81	101	85-115			
Potassium	11.6		mg/L	10.0	2.16	95	85-115			
Sodium	4.89		mg/L	1.00	3.93	95	85-115			
Zinc	1.02		mg/L	1.00	ND	102	85-115			
Post Spike (B4K0341-PS2)	**Source: 4110474-26**									
Barium	1.08		mg/L	1.00	0.04	104	85-115			
Calcium	5.77		mg/L	1.00	4.70	107	85-115			
Iron	1.05		mg/L	1.00	ND	103	85-115			
Magnesium	2.65		mg/L	1.00	1.62	103	85-115			
Potassium	10.9		mg/L	10.0	1.34	96	85-115			
Sodium	4.26		mg/L	1.00	3.11	115	85-115			
Zinc	1.03		mg/L	1.00	ND	103	85-115			

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Evergreen Packaging		Project:	MW and SW
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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Blank (B4K0370-BLK1)										
Arsenic	ND	0.005	mg/L							
Cadmium	ND	0.001	mg/L							
Chromium	ND	0.002	mg/L							
Copper	ND	0.005	mg/L							
Lead	ND	0.005	mg/L							
Manganese	ND	0.005	mg/L							
Nickel	ND	0.005	mg/L							
Selenium	ND	0.005	mg/L							
LCS (B4K0370-BS1)										
Arsenic	0.208	0.005	mg/L	0.200		104	85-115			
Cadmium	0.208	0.001	mg/L	0.200		104	85-115			
Chromium	0.201	0.002	mg/L	0.200		100	85-115			
Copper	0.207	0.005	mg/L	0.200		104	85-115			
Lead	0.204	0.005	mg/L	0.200		102	85-115			
Manganese	0.201	0.005	mg/L	0.200		101	85-115			
Nickel	0.206	0.005	mg/L	0.200		103	85-115			
Selenium	0.223	0.005	mg/L	0.200		111	85-115			
Matrix Spike (B4K0370-MS1)	**Source: 4110360-09**									
Arsenic	0.223	0.005	mg/L	0.200	ND	110	70-130			
Cadmium	0.199	0.001	mg/L	0.200	ND	99	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	98	70-130			
Copper	0.195	0.005	mg/L	0.200	ND	97	70-130			
Lead	0.194	0.005	mg/L	0.200	ND	97	70-130			
Manganese	0.216	0.005	mg/L	0.200	0.020	98	70-130			
Nickel	0.193	0.005	mg/L	0.200	ND	96	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Arsenic	0.210	0.005	mg/L	0.200	ND	105	70-130			
Cadmium	0.205	0.001	mg/L	0.200	ND	103	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	99	70-130			
Copper	0.200	0.005	mg/L	0.200	ND	100	70-130			
Lead	0.201	0.005	mg/L	0.200	ND	100	70-130			
Manganese	0.224	0.005	mg/L	0.200	0.028	98	70-130			

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Nickel	0.200	0.005	mg/L	0.200	ND	100	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike Dup (B4K0370-MSD1)	**Source: 4110360-09**									
Arsenic	0.219	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.198	0.001	mg/L	0.200	ND	99	70-130	0.4	20	
Chromium	0.195	0.002	mg/L	0.200	ND	97	70-130	1	20	
Copper	0.193	0.005	mg/L	0.200	ND	96	70-130	1	20	
Lead	0.193	0.005	mg/L	0.200	ND	96	70-130	0.6	20	
Manganese	0.212	0.005	mg/L	0.200	0.020	96	70-130	2	20	
Nickel	0.195	0.005	mg/L	0.200	ND	97	70-130	1	20	
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130	0.3	20	
Matrix Spike Dup (B4K0370-MSD2)	**Source: 4110360-12**									
Arsenic	0.215	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.209	0.001	mg/L	0.200	ND	104	70-130	2	20	
Chromium	0.204	0.002	mg/L	0.200	ND	102	70-130	3	20	
Copper	0.208	0.005	mg/L	0.200	ND	104	70-130	4	20	
Lead	0.206	0.005	mg/L	0.200	ND	103	70-130	3	20	
Manganese	0.233	0.005	mg/L	0.200	0.028	102	70-130	4	20	
Nickel	0.207	0.005	mg/L	0.200	ND	103	70-130	4	20	
Selenium	0.217	0.005	mg/L	0.200	ND	109	70-130	2	20	
Post Spike (B4K0370-PS1)	**Source: 4110360-09**									
Arsenic	0.267		mg/L	0.250	ND	106	75-125			
Cadmium	0.238		mg/L	0.250	ND	95	75-125			
Chromium	0.238		mg/L	0.250	ND	95	75-125			
Copper	0.234		mg/L	0.250	ND	93	75-125			
Lead	0.232		mg/L	0.250	ND	93	75-125			
Manganese	0.254		mg/L	0.250	0.019	94	75-125			
Nickel	0.233		mg/L	0.250	ND	93	75-125			
Selenium	0.257		mg/L	0.250	ND	102	75-125			
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Arsenic	0.257		mg/L	0.250	ND	103	75-125			
Cadmium	0.251		mg/L	0.250	ND	100	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Chromium	0.243		mg/L	0.250	ND	97	75-125			
Copper	0.247		mg/L	0.250	ND	98	75-125			
Lead	0.246		mg/L	0.250	ND	98	75-125			
Manganese	0.271		mg/L	0.250	0.027	97	75-125			
Nickel	0.246		mg/L	0.250	ND	98	75-125			
Selenium	0.261		mg/L	0.250	ND	104	75-125			
Batch B4K0371 - EPA 200.8 Mod										
Blank (B4K0371-BLK1)										
Silver	ND	0.002	mg/L							
LCS (B4K0371-BS1)										
Silver	0.060	0.002	mg/L	0.0600		100	85-115			
Matrix Spike (B4K0371-MS1)	**Source: 4110360-09**									
Silver	0.057	0.002	mg/L	0.0600	ND	96	70-130			
Matrix Spike (B4K0371-MS2)	**Source: 4110360-12**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130			
Matrix Spike Dup (B4K0371-MSD1)	**Source: 4110360-09**									
Silver	0.056	0.002	mg/L	0.0600	ND	93	70-130	2	20	
Matrix Spike Dup (B4K0371-MSD2)	**Source: 4110360-12**									
Silver	0.061	0.002	mg/L	0.0600	ND	101	70-130	3	20	
Post Spike (B4K0371-PS1)	**Source: 4110360-09**									
Silver	0.065		mg/L	0.0700	ND	92	75-125			
Post Spike (B4K0371-PS2)	**Source: 4110360-12**									
Silver	0.068		mg/L	0.0700	ND	97	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0373 - EPA 245.1										
Blank (B4K0373-BLK1)										
Mercury	ND	0.00020	mg/L							
LCS (B4K0373-BS1)										
Mercury	0.0048	0.00020	mg/L	0.00500		96	85-115			
Duplicate (B4K0373-DUP1)	**Source: 4110360-09**									
Mercury	ND	0.00020	mg/L		ND				20	
Duplicate (B4K0373-DUP2)	**Source: 4110360-12**									
Mercury	ND	0.00020	mg/L		ND				20	
Matrix Spike (B4K0373-MS1)	**Source: 4110360-09**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			
Matrix Spike (B4K0373-MS2)	**Source: 4110360-12**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110360
Canton, NC 28716		Reported:	12/11/14 13:55

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 200.7 Metal Digestion				
EPA 200.7	B4K0341	4110360-09	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110360-10	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110360-11	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110360-12	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110360-13	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110360-14	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110360-15	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110360-16	11/18/2014 08:08	MEC
EPA 200.8 Metal Digestion				
EPA 200.8	B4K0370	4110360-09	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110360-10	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110360-11	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110360-12	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110360-13	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110360-14	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110360-15	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110360-16	11/14/2014 15:51	DER
EPA 200.8 Silver/Antimony Digestion				
EPA 200.8 Mod	B4K0371	4110360-09	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110360-10	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110360-11	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110360-12	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110360-13	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110360-14	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110360-15	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110360-16	11/17/2014 13:58	DER
EPA 245.1 Mercury Digestion				
EPA 245.1	B4K0373	4110360-09	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110360-10	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110360-11	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110360-12	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110360-13	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110360-14	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110360-15	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110360-16	11/20/2014 11:26	DER

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
D6	There was more than 30% difference between BOD dilution results. The dilutions were not in agreement due to sample matrix interference.
P3	The RPD of sample and duplicate were evaluated using +/- the reporting limit. The sample / duplicate results were less than 4 times the reporting limit.
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
X	Result subject to sample matrix interference. Reporting limit has been adjusted where applicable.

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Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 4110360

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen

Address: Canton, NC

Report To:

Email Address:

Telephone #:

PO #: Project # 04-159

								N	N	N	N	N	N	N	Filtered (Yes/No)
								Y	Y	Y	Y	Y	Y	Y	Cooled (Yes/No)
								P	P	P	G	P	G	P	Container Type (Plastic/Glass)
								1L	1/2	250	1L	250	250	500	Container Volume (mL)
								G	G	G	G	G	G	G	Sample Type (Grab/Composite)
								GW	GW	GW	GW	GW	GW	GW	Sample Source (WW, GW, DW, SW, S, Other)
								B	A	C	C	J	B	B	Preservation Code(s)
R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) →	Total Metals	Chlorides/Fluoride/TDS/SO4/NO2	NO3	Phenols	TOC	TOX ⊗	Total Metals	COMMENTS
-09, -17	11/10	1130	Pigeon River Down	7		1	1	1	2	1	1		⊗ As, Ba, Cd, Ca, Cr, Cu, Fe,
-10, -18		1210	BB -UP	6			1	1	1	1	1	1	Pb, Mg, Mn, Ni, K, Se, Ag,
-11, -19		1300	BB- Down	6			1	1	1	1	1	1	Na, Zn, Hg
-12, -20		1320	BB- 3	7		1	1	1	2	1	1		
-13, -21		1340	BB- 4	6			1	1	1	1	1	1	Field Data Collected
-14, -22		1400	Pigeon River UP	6			1	1	1	1	1	1	-01 through -08
-15, -23		1420	Under flow Drain	6			1	1	1	1	1	1	
-16, -24		1445	Landfill Leachate	6			1	1	1	1	1	1	⊗ subcontracted

Preservation Codes: A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

SAMPLER / RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11/10/14 1700	2. [signature]	11.10.14 1700
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.8 °C

Possible Hazards associated with samples: ○ Non-Hazard ○ Flammable ○ Skin Irritant ○ Poison ○ Unknown ○ Other _____

Form Revised July, 2014

Page 1 of 2

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 4110360

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen

Address: Conton, NC

Report To:

Email Address:

Telephone #:

PO #: Project # 04-159

R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) → BOD	COD	COD/Phosphate					COMMENTS
Filtered (Yes/No)					N	N	N					
Cooled (Yes/No)					Y	Y	Y					
Container Type (Plastic/Glass)					P	P	P					
Container Volume (mL)					1/2	250	500					
Sample Type (Grab/Composite)					G	G	G					
Sample Source (WW, GW, DW, SW, S, Other)					GW	GW	GW					
					A	C	C					
-25	11/10	1420	Underflow Drain	2	1	1						
-26	1	1445	Land Fill Leachate	2	1		1					

Preservation Code(s)

A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11/10/14 1700	2. [signature]	11.10.14 1700
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.8 °C

Possible Hazards associated with samples: ◯ Non-Hazard ◯ Flammable ◯ Skin Irritant ◯ Poison ◯ Unknown ◯ Other _____

Form Revised July, 2014 Page 2 of 2

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: Evergreen Date Received: 11.10.14 Work Order: 4110360

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other: _____

Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?	X			
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.		X		
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments: Due to sample matrix, landfill leachate samples were pres. w/ add. acid (bench)

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-66398-1
Client Project/Site: 4110360

For:
Rogers & Callcott Engineers Inc
PO BOX 5655
Greenville, South Carolina 29606

Attn: Ms. Susan Gunter

Authorized for release by:
12/5/2014 4:36:25 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-66398-1	4110360-17 Pigeon River Down	Water	11/10/14 11:30	11/14/14 08:40
490-66398-2	4110360-18 BB Up	Water	11/10/14 12:10	11/14/14 08:40
490-66398-3	4110360-19 BB Down	Water	11/10/14 13:00	11/14/14 08:40
490-66398-4	4110360-20 BB 3	Water	11/10/14 13:20	11/14/14 08:40
490-66398-5	4110360-21 BB 4	Water	11/10/14 13:40	11/14/14 08:40
490-66398-6	4110360-22 Pigeon River Up	Water	11/10/14 14:00	11/14/14 08:40
490-66398-7	4110360-23 Underflow Drain	Water	11/10/14 14:20	11/14/14 08:40
490-66398-8	4110360-24 Landfill Leachate	Water	11/10/14 14:45	11/14/14 08:40

Job ID: 490-66398-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-66398-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2014 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

General Chemistry
Method(s) 9020B: The matrix spike (MS) recovery for batches 211273 and 211326 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9020B: The %RPD between the first and second columns is greater than 20% for the following samples:4110360-21 BB 4 (490-66398-5). Due to insufficient sample volume remaining, the data was averaged with the two closest replicates and reported.

Method(s) 9020B: Breakthrough exceeded 10% of the following sample(s): (180-39031-7 MS). The concentration of the sample, however, was less than the concentration of the LCS. It is concluded that the high breakthrough is a result of matrix interferences. The data has been reported.

Method(s) 9020B: Breakthrough exceeded 10% for the following sample(s):4110360-17 Pigeon River Down (490-66398-1), 4110360-22 Pigeon River Up (490-66398-6), 4110360-24 Landfill Leachate (490-66398-8). Re-analysis was performed with concurring results. The data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-17 Pigeon River Down

Lab Sample ID: 490-66398-1

Date Collected: 11/10/14 11:30

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.386		0.120		mg/L			12/03/14 08:06	4

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-18 BB Up

Lab Sample ID: 490-66398-2

Date Collected: 11/10/14 12:10

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/03/14 08:06	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-19 BB Down

Lab Sample ID: 490-66398-3

Date Collected: 11/10/14 13:00

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/03/14 08:03	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-20 BB 3

Lab Sample ID: 490-66398-4

Date Collected: 11/10/14 13:20

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/03/14 08:06	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-21 BB 4

Lab Sample ID: 490-66398-5

Date Collected: 11/10/14 13:40

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0323		0.0300		mg/L			12/03/14 08:03	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-22 Pigeon River Up

Lab Sample ID: 490-66398-6

Date Collected: 11/10/14 14:00

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.383		0.120		mg/L			12/03/14 08:06	4

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-23 Underflow Drain

Lab Sample ID: 490-66398-7

Date Collected: 11/10/14 14:20

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/03/14 08:03	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-24 Landfill Leachate

Lab Sample ID: 490-66398-8

Date Collected: 11/10/14 14:45

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.299		0.0600		mg/L			12/03/14 08:06	2

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 490-211273/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/01/14 08:51	1

Lab Sample ID: LCS 490-211273/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	0.250	0.2378		mg/L		95	90 - 110

Lab Sample ID: LCSD 490-211273/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Halogens, Total Organic	0.250	0.2405		mg/L		96	90 - 110	1	20

Lab Sample ID: 180-39031-A-6 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	<0.0300		0.100	0.4643	F1	mg/L		464	70 - 130

Lab Sample ID: MB 490-211326/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/01/14 14:20	1

Lab Sample ID: LCS 490-211326/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	0.250	0.2484		mg/L		99	90 - 110

Lab Sample ID: 180-39031-A-7 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211326

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	<0.0300		0.100	0.1566	F1	mg/L		157	70 - 130

QC Association Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

General Chemistry

Analysis Batch: 211273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39031-A-6 MS	Matrix Spike	Total/NA	Water	9020B	
490-66398-3	4110360-19 BB Down	Total/NA	Water	9020B	
490-66398-5	4110360-21 BB 4	Total/NA	Water	9020B	
490-66398-7	4110360-23 Underflow Drain	Total/NA	Water	9020B	
LCS 490-211273/4	Lab Control Sample	Total/NA	Water	9020B	
LCSD 490-211273/5	Lab Control Sample Dup	Total/NA	Water	9020B	
MB 490-211273/6	Method Blank	Total/NA	Water	9020B	

Analysis Batch: 211326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39031-A-7 MS	Matrix Spike	Total/NA	Water	9020B	
490-66398-1	4110360-17 Pigeon River Down	Total/NA	Water	9020B	
490-66398-2	4110360-18 BB Up	Total/NA	Water	9020B	
490-66398-4	4110360-20 BB 3	Total/NA	Water	9020B	
490-66398-6	4110360-22 Pigeon River Up	Total/NA	Water	9020B	
490-66398-8	4110360-24 Landfill Leachate	Total/NA	Water	9020B	
LCS 490-211326/5	Lab Control Sample	Total/NA	Water	9020B	
MB 490-211326/6	Method Blank	Total/NA	Water	9020B	

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-17 Pigeon River Down — Lab Sample ID: 490-66398-1

Date Collected: 11/10/14 11:30 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		4			211326	12/03/14 08:06	JAB	TAL NSH

Client Sample ID: 4110360-18 BB Up — Lab Sample ID: 490-66398-2

Date Collected: 11/10/14 12:10 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/03/14 08:06	JAB	TAL NSH

Client Sample ID: 4110360-19 BB Down — Lab Sample ID: 490-66398-3

Date Collected: 11/10/14 13:00 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211273	12/03/14 08:03	JAB	TAL NSH

Client Sample ID: 4110360-20 BB 3 — Lab Sample ID: 490-66398-4

Date Collected: 11/10/14 13:20 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/03/14 08:06	JAB	TAL NSH

Client Sample ID: 4110360-21 BB 4 — Lab Sample ID: 490-66398-5

Date Collected: 11/10/14 13:40 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211273	12/03/14 08:03	JAB	TAL NSH

Client Sample ID: 4110360-22 Pigeon River Up — Lab Sample ID: 490-66398-6

Date Collected: 11/10/14 14:00 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		4			211326	12/03/14 08:06	JAB	TAL NSH

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Client Sample ID: 4110360-23 Underflow Drain

Lab Sample ID: 490-66398-7

Date Collected: 11/10/14 14:20
Matrix: Water
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211273	12/03/14 08:03	JAB	TAL NSH

Client Sample ID: 4110360-24 Landfill Leachate

Lab Sample ID: 490-66398-8

Date Collected: 11/10/14 14:45
Matrix: Water
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		2			211326	12/03/14 08:06	JAB	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Method	Method Description	Protocol	Laboratory
9020B	Organic Halides, Total (TOX)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110360

TestAmerica Job ID: 490-66398-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-14 *

* Certification renewal pending - certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

490-66398 Chain of Custody

Cooler Received/Opened On : 11/14/2014 @ 0840

1. Tracking # 1966 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 18290455

2. Temperature of rep. sample or temp blank when opened: 2.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MSM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MSM

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MSM

I certify that I attached a label with the unique LIMS number to each container (intial) MSM

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO #_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER _____

Loc: 490
66398

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556
Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140
215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Rogers and Callcott
Address:
Report To: Susan Gunter
Email Address:
Telephone #:
PO #: Project #:

					N							Filtered (Yes/No)
					Y							Cooled (Yes/No)
					G							Container Type (Plastic/Glass)
					250							Container Volume (mL)
					G							Sample Type (Grab/Composite)
					GW							Sample Source (WW, GW, DW, SW, S, Other)
					B							
R & C WORK ORDER	YR 2014 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) → TOX							COMMENTS
41103360-17	11-10	1130	Pigeon River Down	1	1							Sub to Test America -1
-18	11-10	1210	BB Up	1	1							2
-19	11-10	1300	BB Down	1	1							NC Samples 3
-20	11-10	1320	BB 3	1	1							4
-21	11-10	1340	BB 4	1	1							5
-22	11-10	1400	Pigeon River Up	1	1							6
-23	11-10	1420	Underflow Drain	1	1							7
-24	11-10	1445	Landfill Leachate	1	1							8

Preservation Code(s)
A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11.13.14 1600	2. [signature] Tan	11.14.14 @ 840
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____
Composite Start Time: _____
Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample
At time of collection 2.3c °C
At time of lab receipt _____ °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other _____

Form Revised July, 2014 Page _____ of _____

Login Sample Receipt Checklist

Client: Rogers & Callcott Engineers Inc

Job Number: 490-66398-1

Login Number: 66398
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: Pigeon R. Down

Date: 11/10/14 Field Personnel: JHF

Site Name/Location: Evergreen

Weather Conditions/~Temp: Sunny / 50 °F Page 1 of 10

Method of Well Evacuation or Sample Collection

Pump
- ☐ Grundfos
- ☐ Submersible
- ☐ Peristaltic
- ☐ Bladder
- ☐ Waterra
- ☐ Continuous (Recovery Well)
- ☒ Surface water Grab

Bailer
- ☐ Non Disposable Teflon
- ☐ Disposable Teflon
- ☐ Disposable Poly
- ☐ Dedicated Teflon

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): _____ @ _____
Total Depth of Well (b): _____
Length of Water Column in Well (b-a): _____
Well Casing Diameter (inches): _____
Depth to Immiscible Layer: _____

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	NA	NA

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1130	-	NA	NA	NA	7.42	14.4	705.4	NA	NA	1	< 5.0	
		1											
		2											
		3											
		4											
		5						11/10/14					
		6											
		7											

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1130

Comments: _____

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: BB-UP

Date: 11/10/14 Field Personnel: SNF

Site Name/Location: Evergreen

Weather Conditions/~Temp: Sunny / 50 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☒ Surface Water Grab	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): _____ @ _____
Total Depth of Well (b): _____
Length of Water Column in Well (b-a): _____
Well Casing Diameter (inches): _____
Depth to Immiscible Layer: _____

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	NA	NA

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1210	-	NA	NA	NA	6.43	14.2	89.43	NA	NA	1	<5.0	
		1											
		2											
		3											
		4											
		5						11/10/14					
		6											
		7											

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: none Fe^{+2} mg/L= NA

Sample Collection Time: 1210

Comments: _____

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: BB-Down

Date: 11/10/14 Field Personnel: JHF

Site Name/Location: Evergreen

Weather Conditions/~Temp: Sunny / 55 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☒ Surface Water Grab	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): _____ @ _____
Total Depth of Well (b): _____
Length of Water Column in Well (b-a): _____
Well Casing Diameter (inches): _____
Depth to Immiscible Layer: _____

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	NA	NA

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1300	-	NA	NA	NA	6.06	14.4	86.79	NA	NA	1	<5.0	
		1											
		2											
		3											
		4											
		5											
		6											
		7											

11/10/14

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1300

Comments: _____

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: BB-3

Date: 11/10/14 Field Personnel: JHF

Site Name/Location: Evergreen

Weather Conditions/~Temp: Sunny / 60 °F Page 4 of 10

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☒ Surface Water Grab	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): _____ @ _____
Total Depth of Well (b): _____
Length of Water Column in Well (b-a): _____
Well Casing Diameter (inches): _____
Depth to Immiscible Layer: _____

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	NA	NA

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1320	-	NA	NA	NA	6.12	13.5	101.7	NA	NA	1	<5.0	
		1											
		2											
		3											
		4											
		5											
		6											
		7											

11/10/14

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1320

Comments: _____

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: BB-4

Date: 11/10/14 Field Personnel: JHF

Site Name/Location: Evergreen Weather Conditions/~Temp: Sunny / 65 °F Page 5 of 10

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☒ Surface Water Grab	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): _____ @ _____
Total Depth of Well (b): _____
Length of Water Column in Well (b-a): _____
Well Casing Diameter (inches): _____
Depth to Immiscible Layer: _____

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	NA	NA

Circle One that Applies

Measuring Point:	TOC / Ground Surface
Riser Material:	PVC / Steel / Teflon
Steel Protective Casing?	Yes / No
Bollards?	Yes / No
Flush Mount?	Yes / No
Well Locked?	Yes / No
Well Pad Condition?	Okay / _____
Well Tag?	Okay / _____
Well Integrity Satisfactory?	Okay / _____
Vegetation:	Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1340	-	NA	NA	NA	6.40	13.9	107.8	NA	NA	1	<5.0	
		1											
		2											
		3											
		4											
		5					11/10/14						
		6											
		7											

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: none Fe^{+2} mg/L= NA

Sample Collection Time: 1340

Comments: _____

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: Pigeon River UP

Date: 11/10/14 Field Personnel: JHF

Site Name/Location: Evergreen

Weather Conditions/~Temp: Sunny / 65 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☒ Surface Water Grab	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): _____ @ _____
Total Depth of Well (b): _____
Length of Water Column in Well (b-a): _____
Well Casing Diameter (inches): _____
Depth to Immiscible Layer: _____

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	NA	NA

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1400	-	NA	NA	NA	7.05	15.4	695.0	NA	NA	1	<5.0	
		1											
		2											
		3											
		4											
		5											
		6											
		7											

11/10/14

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1400

Comments: _____

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: Underflow Drain

Date: 11/10/14 Field Personnel: JAF

Site Name/Location: Evergreen

Weather Conditions/~Temp: Sunny, 65 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☒ Grab Sample	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): @
Total Depth of Well (b):
Length of Water Column in Well (b-a):
Well Casing Diameter (inches):
Depth to Immiscible Layer:

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	NA	NA

Circle One that Applies

Measuring Point:	TOC / Ground Surface
Riser Material:	PVC / Steel / Teflon
Steel Protective Casing?	Yes / No
Bollards?	Yes / No
Flush Mount?	Yes / No
Well Locked?	Yes / No
Well Pad Condition?	Okay /
Well Tag?	Okay /
Well Integrity Satisfactory?	Okay /
Vegetation:	Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1420	-	NA	NA	NA	5.89	21.5	109.7	NA	NA	1	<5.0	
		1											
		2											
		3											
		4											
		5											
		6											
		7											

11/10/14

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: none Fe^{+2} mg/L= NA

Sample Collection Time: 1420

Comments:

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: Landfill leachate

Date: 11/10/14 Field Personnel: JHF

Site Name/Location: Evergreen

Weather Conditions/~Temp: Sunny, 65 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☒ Grab Sample	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): _____ @ _____
Total Depth of Well (b): _____
Length of Water Column in Well (b-a): _____
Well Casing Diameter (inches): _____
Depth to Immiscible Layer: _____

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	NA	NA

Circle One that Applies

Measuring Point:	TOC / Ground Surface
Riser Material:	PVC / Steel / Teflon
Steel Protective Casing?	Yes / No
Bollards?	Yes / No
Flush Mount?	Yes / No
Well Locked?	Yes / No
Well Pad Condition?	Okay / _____
Well Tag?	Okay / _____
Well Integrity Satisfactory?	Okay / _____
Vegetation:	Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1445	-	NA	NA	NA	7.43	21.7	20130	NA	NA	3	132	Sulfur Smell
		1											
		2											
		3											
		4											
		5					11/10/14						
		6											
		7											

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Yellow Tint Precipitate: none Fe^{+2} mg/L= NA

Sample Collection Time: 1445

Comments: _____

Rogers and Callcott Environmental

Field Meter Calibration Record

Client: Evergreen **Date:** 11/10/14

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion Star A325 SN: G02706 Probe: RRI-17122

Time: 0848 Analyst: JHF Cell Constant 0.465

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
P403994	9.83		9.679	23.0
P404453	100.4		100.4	23.0
P403995	999		993.9	23.1
P404447	SSS conc:	447	445.5	23.2

Temperature compensation for pH / conductivity meter : 0.0

pH Calibration - EPA 9040C

Meter Make / Model: Orion Star A325 Probe: RQI-11021

Time: 0842 Analyst: JHF Slope: 99.7

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
P404588	4.0		4.00
P405394	7.0		7.02
P404841	10.0		10.01
P403957	SSS conc:	4.0	3.99

Turbidity Meter Calibration Field Screen Method

Meter Make / Model: Hach 2100P SN: 13020C023551 Date of most recent calibration: 11/4/14

Time: 0824 Analyst: JHF

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
P405639	5.24	5.30
P405640	49.8	50.1
P405641	485	486

Reviewed by: _____ Date: _____

Rogers and Callcott Environmental

Continuing Calibration Verification

Client: Evergreen **Date:** 11/10/14

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion Star A325 SN: G02706 Probe: RRI-17122

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1220	JHF	100.4	102.9 @ 20.0 °C
1500	JHF	999	985.7 @ 23.2 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion Star A325 Probe: RQI-11021

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1220	JHF	7.0	6.97
1500	JHF	4.0	3.91

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 13020C023551

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1220	JHF	49.8	49.7
1500	JHF	5.24	5.27

Field Duplicate

Well ID: BB-4

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1341	JHF	105.5	6.40	<5.0	12.7

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Evergreen Packaging C/O Mark Lancaster - Rogers and Callcott 175 Main Street Canton, NC 28716	**Project:** **Work Order:** **Received:**	MW and SW 4110361 11/10/2014 17:00

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on November 10, 2014. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

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We strive to provide excellent service to our clients. Please contact Kara Hrkach, your Project Manager, at kara.hrkach@rogersandcallcott.com or (864)-335-4956 if you have any questions about this report.

CC: George Maalouf - Rogers and Callcott

Report Approved By:

Kara Hrkach

Kara Hrkach
Project Manager

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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

Client Evergreen Packaging
C/O Mark Lancaster - Rogers and Callcott
175 Main Street
Canton, NC 28716

Project: MW and SW
Work Order: 4110361
Received: 11/10/2014 17:00

Sample Number	Sample Description	Matrix	Sampled	Type
4110361-01	MW13	Ground Water	11/10/14 13:08	Grab
4110361-02	MW13	Ground Water	11/10/14 13:30	Grab
4110361-03	MW21	Ground Water	11/10/14 14:05	Grab
4110361-04	MW21	Ground Water	11/10/14 14:21	Grab
4110361-05	MW13	Ground Water	11/10/14 13:31	Grab
4110361-06	MW13	Ground Water	11/10/14 13:32	Grab
4110361-07	MW13	Ground Water	11/10/14 13:33	Grab
4110361-08	MW13	Ground Water	11/10/14 13:36	Grab
4110361-09	MW13	Ground Water	11/10/14 13:37	Grab
4110361-10	MW13	Ground Water	11/10/14 13:39	Grab
4110361-11	MW21	Ground Water	11/10/14 14:23	Grab
4110361-12	MW21	Ground Water	11/10/14 14:24	Grab
4110361-13	MW21	Ground Water	11/10/14 14:26	Grab
4110361-14	MW21	Ground Water	11/10/14 14:31	Grab
4110361-15	MW21	Ground Water	11/10/14 14:32	Grab
4110361-16	MW21	Ground Water	11/10/14 14:37	Grab

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Sample Data

Sample Number 4110361-01
Sample Description MW13 collected on 11/10/14 13:08

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**20.38**	0.00	Ft	1.00	11/10/14 13:08	-		CGW	B4K0330

Sample Number 4110361-02
Sample Description MW13 collected on 11/10/14 13:30

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.8**	0.1	pH Units	1.00	11/10/14 13:30	EPA 9040C		CGW	B4K0330
Specific Conductance at 25 C	**1370**	10.0	umhos/cm	1.00	11/10/14 13:30	EPA 9050A		CGW	B4K0330
Temperature	**18.4**	0.0	°C	1.00	11/10/14 13:30	SM 2550B-2010		CGW	B4K0330
Turbidity (Field)	**7.7**	5.0	NTU	1.00	11/10/14 13:30	Field Screen		CGW	B4K0330

Sample Number 4110361-03
Sample Description MW21 collected on 11/10/14 14:05

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**10.20**	0.00	Ft	1.00	11/10/14 14:05	-		CGW	B4K0330

Sample Number 4110361-04
Sample Description MW21 collected on 11/10/14 14:21

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.9**	0.1	pH Units	1.00	11/10/14 14:21	EPA 9040C		CGW	B4K0330
Specific Conductance at 25 C	**1890**	10.0	umhos/cm	1.00	11/10/14 14:21	EPA 9050A		CGW	B4K0330
Temperature	**18.0**	0.0	°C	1.00	11/10/14 14:21	SM 2550B-2010		CGW	B4K0330
Turbidity (Field)	**5.6**	5.0	NTU	1.00	11/10/14 14:21	Field Screen		CGW	B4K0330

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Sample Number 4110361-05
Sample Description MW13 collected on 11/10/14 13:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:04	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 15:05	EPA 200.8		DER	B4K0370
Barium	**0.019**	0.010	mg/L	1.00	11/20/14 13:27	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 15:05	EPA 200.8		DER	B4K0370
Calcium	**6.4**	0.50	mg/L	5.00	11/20/14 13:24	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 15:05	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 15:05	EPA 200.8		DER	B4K0370
Iron	**0.64**	0.050	mg/L	1.00	11/20/14 13:27	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 15:05	EPA 200.8		DER	B4K0370
Magnesium	**4.4**	0.10	mg/L	1.00	11/20/14 13:27	EPA 200.7		MEC	B4K0341
Manganese	**1.03**	0.025	mg/L	5.00	11/19/14 16:46	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 15:05	EPA 200.8		DER	B4K0370
Potassium	**3.2**	0.50	mg/L	1.00	11/20/14 13:27	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 15:05	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 14:24	EPA 200.8		DER	B4K0371
Sodium	**380**	100	mg/L	200	11/20/14 13:22	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 13:27	EPA 200.7		MEC	B4K0341

Sample Number 4110361-06
Sample Description MW13 collected on 11/10/14 13:32

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 13:42	SM 4500NO3H-2011		REH	B4K0593

Sample Number 4110361-07
Sample Description MW13 collected on 11/10/14 13:33

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Sample Number 4110361-08
Sample Description MW13 collected on 11/10/14 13:36

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Organic Carbon	**1.69**	1.00	mg/L	1.00	11/14/14 01:34	SM 5310C-2011		LJW	B4K0449

Sample Number 4110361-09
Sample Description MW13 collected on 11/10/14 13:37

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**24.6**	10.0	mg/L	10.0	11/13/14 00:20	EPA 300.0		LJW	B4K0478
Fluoride	**0.45**	0.10	mg/L	1.00	11/13/14 15:41	EPA 300.0		LJW	B4K0541
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 09:46	SM 4500NO2B-2011		REH	B4K0383
Sulfate	**486**	100	mg/L	100	11/13/14 00:42	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**1060**	250	mg/L	10.0	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535

Sample Number 4110361-11
Sample Description MW21 collected on 11/10/14 14:23

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:06	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 15:09	EPA 200.8		DER	B4K0370
Barium	**0.039**	0.010	mg/L	1.00	11/20/14 12:55	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 15:09	EPA 200.8		DER	B4K0370
Calcium	**310**	10	mg/L	100	11/20/14 12:45	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 15:09	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 15:09	EPA 200.8		DER	B4K0370
Iron	**7.8**	1.2	mg/L	25.0	11/20/14 12:48	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 15:09	EPA 200.8		DER	B4K0370
Magnesium	**28**	2.5	mg/L	25.0	11/20/14 12:48	EPA 200.7		MEC	B4K0341
Manganese	**0.530**	0.005	mg/L	1.00	11/19/14 15:09	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 15:09	EPA 200.8		DER	B4K0370
Potassium	**16**	0.50	mg/L	1.00	11/20/14 12:55	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 15:09	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 13:03	EPA 200.8		DER	B4K0371
Sodium	**200**	50	mg/L	100	11/20/14 12:45	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 12:55	EPA 200.7		MEC	B4K0341

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Sample Number 4110361-12
Sample Description MW21 collected on 11/10/14 14:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 13:42	SM 4500NO3H-2011		REH	B4K0593

Sample Number 4110361-13
Sample Description MW21 collected on 11/10/14 14:26

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610

Sample Number 4110361-14
Sample Description MW21 collected on 11/10/14 14:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Organic Carbon	**2.59**	1.00	mg/L	1.00	11/14/14 02:13	SM 5310C-2011		LJW	B4K0449

Sample Number 4110361-15
Sample Description MW21 collected on 11/10/14 14:32

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**64.9**	10.0	mg/L	10.0	11/13/14 01:04	EPA 300.0		LJW	B4K0478
Fluoride	ND	0.10	mg/L	1.00	11/13/14 16:47	EPA 300.0		LJW	B4K0541
Nitrite as N	ND	0.050	mg/L	5.00	11/12/14 10:31	SM 4500NO2B-2011	X	REH	B4K0383
Sulfate	**984**	100	mg/L	100	11/13/14 01:26	EPA 300.0		LJW	B4K0480
Total Dissolved Solids	**1720**	250	mg/L	10.0	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535

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Subcontracted Analyses

Sample Number 4110361-10
Sample Description MW13 collected on 11/10/14 13:39

Parameter
Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110361-16
Sample Description MW21 collected on 11/10/14 14:37

Parameter
Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0383 - General Prep - Wet Chem KL										
Blank (B4K0383-BLK1)										
Nitrite as N	ND	0.010	mg/L							
LCS (B4K0383-BS1)										
Nitrite as N	0.490	0.010	mg/L	0.500		98	85-115			
Matrix Spike (B4K0383-MS1)	**Source: 4110360-10**									
Nitrite as N	0.253	0.010	mg/L	0.250	ND	101	80-120			
Matrix Spike Dup (B4K0383-MSD1)	**Source: 4110360-10**									
Nitrite as N	0.253	0.010	mg/L	0.250	ND	101	80-120	0.09	20	
Batch B4K0449 - General Prep - TOC										
Blank (B4K0449-BLK1)										
Total Organic Carbon	ND	1.00	mg/L							
Blank (B4K0449-BLK2)										
Total Organic Carbon	ND	1.00	mg/L							
LCS (B4K0449-BS1)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
LCS (B4K0449-BS2)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
Matrix Spike (B4K0449-MS1)	**Source: 4110279-01**									
Total Organic Carbon	3.58	1.00	mg/L	3.75	ND	91	80-120			
Matrix Spike (B4K0449-MS2)	**Source: 4110360-10**									
Total Organic Carbon	4.78	1.00	mg/L	3.75	1.23	95	80-120			
Matrix Spike (B4K0449-MS3)	**Source: 4110361-08**									
Total Organic Carbon	5.18	1.00	mg/L	3.75	1.69	93	80-120			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0449 - General Prep - TOC										
Matrix Spike (B4K0449-MS4)	**Source: 4110474-36**									
Total Organic Carbon	7.94	1.00	mg/L	3.75	4.57	90	80-120			
Matrix Spike Dup (B4K0449-MSD1)	**Source: 4110279-01**									
Total Organic Carbon	3.61	1.00	mg/L	3.75	ND	92	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD2)	**Source: 4110360-10**									
Total Organic Carbon	4.83	1.00	mg/L	3.75	1.23	96	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD3)	**Source: 4110361-08**									
Total Organic Carbon	5.22	1.00	mg/L	3.75	1.69	94	80-120	0.7	20	
Matrix Spike Dup (B4K0449-MSD4)	**Source: 4110474-36**									
Total Organic Carbon	8.00	1.00	mg/L	3.75	4.57	91	80-120	0.7	20	
Batch B4K0478 - General Prep - IC										
Blank (B4K0478-BLK1)										
Chloride	ND	1.00	mg/L							
LCS (B4K0478-BS1)										
Chloride	4.84	1.00	mg/L	5.00		97	90-110			
Duplicate (B4K0478-DUP1)	**Source: 4110360-10**									
Chloride	3.29	1.00	mg/L		3.27			0.5	20	
Duplicate (B4K0478-DUP2)	**Source: 4110362-03**									
Chloride	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0478-MS1)	**Source: 4110360-10**									
Chloride	6.10	1.00	mg/L	3.00	3.27	95	90-110			
Matrix Spike (B4K0478-MS2)	**Source: 4110362-03**									
Chloride	2.86	1.00	mg/L	3.00	ND	73	90-110			S1

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0480 - General Prep - IC										
Blank (B4K0480-BLK1)										
Sulfate	ND	1.00	mg/L							
LCS (B4K0480-BS1)										
Sulfate	4.81	1.00	mg/L	5.00		96	90-110			
Duplicate (B4K0480-DUP1)	**Source: 4110360-10**									
Sulfate	3.01	1.00	mg/L		3.01			0.2	20	
Duplicate (B4K0480-DUP2)	**Source: 4110362-03**									
Sulfate	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0480-MS1)	**Source: 4110360-10**									
Sulfate	5.82	1.00	mg/L	3.00	3.01	94	90-110			
Matrix Spike (B4K0480-MS2)	**Source: 4110362-03**									
Sulfate	2.90	1.00	mg/L	3.00	ND	85	90-110			S1
Batch B4K0535 - General Prep - Solids										
Blank (B4K0535-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							
Duplicate (B4K0535-DUP1)	**Source: 4110360-16**									
Total Dissolved Solids	16400	250	mg/L		16400			0.2	15	
Duplicate (B4K0535-DUP2)	**Source: 4110361-09**									
Total Dissolved Solids	1140	250	mg/L		1060			7	15	
Batch B4K0541 - General Prep - IC										
Blank (B4K0541-BLK1)										
Fluoride	ND	0.10	mg/L							

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0541 - General Prep - IC										
LCS (B4K0541-BS1)										
Fluoride	0.50	0.10	mg/L	0.500		99	90-110			
Duplicate (B4K0541-DUP1)	**Source: 4110361-09**									
Fluoride	0.43	0.10	mg/L		0.45			6	20	
Duplicate (B4K0541-DUP2)	**Source: 4110474-27**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0541-DUP3)	**Source: 4110475-16**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0541-DUP4)	**Source: 4110454-01**									
Fluoride	ND	0.10	mg/L		ND				20	
Matrix Spike (B4K0541-MS1)	**Source: 4110361-09**									
Fluoride	0.73	0.10	mg/L	0.300	0.45	92	90-110			
Matrix Spike (B4K0541-MS2)	**Source: 4110474-27**									
Fluoride	0.29	0.10	mg/L	0.300	ND	98	90-110			
Matrix Spike (B4K0541-MS3)	**Source: 4110475-16**									
Fluoride	0.31	0.10	mg/L	0.300	ND	87	90-110			S1
Matrix Spike (B4K0541-MS4)	**Source: 4110454-01**									
Fluoride	0.30	0.10	mg/L	0.300	ND	98	90-110			
Batch B4K0593 - General Prep - Wet Chem KL										
Blank (B4K0593-BLK1)										
Nitrate-Nitrite as N	ND	0.10	mg/L							
LCS (B4K0593-BS1)										
Nitrate-Nitrite as N	1.95	0.10	mg/L	2.00		98	85-115			

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0593 - General Prep - Wet Chem KL										
Matrix Spike (B4K0593-MS1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.78	0.10	mg/L	1.25	0.51	102	75-125			
Matrix Spike Dup (B4K0593-MSD1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.76	0.10	mg/L	1.25	0.51	101	75-125	0.8	20	
Batch B4K0610 - General Prep - Phenol										
Blank (B4K0610-BLK1)										
Total Recoverable Phenols	ND	0.005	mg/L							
LCS (B4K0610-BS1)										
Total Recoverable Phenols	0.0371	0.005	mg/L	0.0400		93	90-110			
Duplicate (B4K0610-DUP1)	**Source: 4110360-09**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Duplicate (B4K0610-DUP2)	**Source: 4110360-12**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Matrix Spike (B4K0610-MS1)	**Source: 4110360-09**									
Total Recoverable Phenols	0.0320	0.005	mg/L	0.0400	ND	80	75-125			
Matrix Spike (B4K0610-MS2)	**Source: 4110360-12**									
Total Recoverable Phenols	0.0303	0.005	mg/L	0.0400	ND	76	75-125			

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Blank (B4K0341-BLK1)										
Barium	ND	0.010	mg/L							
Calcium	ND	0.10	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.10	mg/L							
Potassium	ND	0.50	mg/L							
Sodium	ND	0.50	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B4K0341-BS1)										
Barium	1.04	0.010	mg/L	1.00		104	85-115			
Calcium	1.04	0.10	mg/L	1.00		104	85-115			
Iron	1.03	0.050	mg/L	1.00		103	85-115			
Magnesium	1.03	0.10	mg/L	1.00		103	85-115			
Potassium	9.53	0.50	mg/L	10.0		95	85-115			
Sodium	1.04	0.50	mg/L	1.00		104	85-115			
Zinc	1.05	0.020	mg/L	1.00		105	85-115			
Duplicate (B4K0341-DUP1)	**Source: 4110360-10**									
Barium	0.03	0.010	mg/L		0.03			0.8	20	
Calcium	4.72	0.10	mg/L		4.58			3	20	
Iron	0.350	0.050	mg/L		0.348			0.4	20	
Magnesium	1.87	0.10	mg/L		1.81			3	20	
Potassium	2.22	0.50	mg/L		2.16			2	20	
Sodium	4.07	0.50	mg/L		3.93			3	20	
Zinc	ND	0.020	mg/L		ND				20	
Duplicate (B4K0341-DUP2)	**Source: 4110474-26**									
Barium	0.04	0.010	mg/L		0.04			3	20	
Calcium	4.66	0.10	mg/L		4.70			0.9	20	
Iron	ND	0.050	mg/L		ND				20	
Magnesium	1.61	0.10	mg/L		1.62			0.03	20	
Potassium	1.31	0.50	mg/L		1.34			2	20	
Sodium	3.10	0.50	mg/L		3.11			0.2	20	
Zinc	ND	0.020	mg/L		ND				20	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Matrix Spike (B4K0341-MS1)	**Source: 4110360-10**									
Barium	1.09	0.010	mg/L	1.00	0.03	106	70-130			
Calcium	5.77	0.10	mg/L	1.00	4.58	119	70-130			
Iron	1.41	0.050	mg/L	1.00	0.348	106	70-130			
Magnesium	2.92	0.10	mg/L	1.00	1.81	111	70-130			
Potassium	11.9	0.50	mg/L	10.0	2.16	97	70-130			
Sodium	5.03	0.50	mg/L	1.00	3.93	109	70-130			
Zinc	1.08	0.020	mg/L	1.00	ND	107	70-130			
Matrix Spike (B4K0341-MS2)	**Source: 4110474-26**									
Barium	1.08	0.010	mg/L	1.00	0.04	104	70-130			
Calcium	5.65	0.10	mg/L	1.00	4.70	95	70-130			
Iron	1.05	0.050	mg/L	1.00	ND	104	70-130			
Magnesium	2.64	0.10	mg/L	1.00	1.62	103	70-130			
Potassium	10.7	0.50	mg/L	10.0	1.34	94	70-130			
Sodium	4.00	0.50	mg/L	1.00	3.11	89	70-130			
Zinc	1.04	0.020	mg/L	1.00	ND	103	70-130			
Post Spike (B4K0341-PS1)	**Source: 4110360-10**									
Barium	1.05		mg/L	1.00	0.03	102	85-115			
Calcium	5.62		mg/L	1.00	4.58	104	85-115			
Iron	1.37		mg/L	1.00	0.348	102	85-115			
Magnesium	2.82		mg/L	1.00	1.81	101	85-115			
Potassium	11.6		mg/L	10.0	2.16	95	85-115			
Sodium	4.89		mg/L	1.00	3.93	95	85-115			
Zinc	1.02		mg/L	1.00	ND	102	85-115			
Post Spike (B4K0341-PS2)	**Source: 4110474-26**									
Barium	1.08		mg/L	1.00	0.04	104	85-115			
Calcium	5.77		mg/L	1.00	4.70	107	85-115			
Iron	1.05		mg/L	1.00	ND	103	85-115			
Magnesium	2.65		mg/L	1.00	1.62	103	85-115			
Potassium	10.9		mg/L	10.0	1.34	96	85-115			
Sodium	4.26		mg/L	1.00	3.11	115	85-115			
Zinc	1.03		mg/L	1.00	ND	103	85-115			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Blank (B4K0370-BLK1)										
Arsenic	ND	0.005	mg/L							
Cadmium	ND	0.001	mg/L							
Chromium	ND	0.002	mg/L							
Copper	ND	0.005	mg/L							
Lead	ND	0.005	mg/L							
Manganese	ND	0.005	mg/L							
Nickel	ND	0.005	mg/L							
Selenium	ND	0.005	mg/L							
LCS (B4K0370-BS1)										
Arsenic	0.208	0.005	mg/L	0.200		104	85-115			
Cadmium	0.208	0.001	mg/L	0.200		104	85-115			
Chromium	0.201	0.002	mg/L	0.200		100	85-115			
Copper	0.207	0.005	mg/L	0.200		104	85-115			
Lead	0.204	0.005	mg/L	0.200		102	85-115			
Manganese	0.201	0.005	mg/L	0.200		101	85-115			
Nickel	0.206	0.005	mg/L	0.200		103	85-115			
Selenium	0.223	0.005	mg/L	0.200		111	85-115			
Matrix Spike (B4K0370-MS1)	**Source: 4110360-09**									
Arsenic	0.223	0.005	mg/L	0.200	ND	110	70-130			
Cadmium	0.199	0.001	mg/L	0.200	ND	99	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	98	70-130			
Copper	0.195	0.005	mg/L	0.200	ND	97	70-130			
Lead	0.194	0.005	mg/L	0.200	ND	97	70-130			
Manganese	0.216	0.005	mg/L	0.200	0.020	98	70-130			
Nickel	0.193	0.005	mg/L	0.200	ND	96	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Arsenic	0.210	0.005	mg/L	0.200	ND	105	70-130			
Cadmium	0.205	0.001	mg/L	0.200	ND	103	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	99	70-130			
Copper	0.200	0.005	mg/L	0.200	ND	100	70-130			
Lead	0.201	0.005	mg/L	0.200	ND	100	70-130			
Manganese	0.224	0.005	mg/L	0.200	0.028	98	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Nickel	0.200	0.005	mg/L	0.200	ND	100	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike Dup (B4K0370-MSD1)	**Source: 4110360-09**									
Arsenic	0.219	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.198	0.001	mg/L	0.200	ND	99	70-130	0.4	20	
Chromium	0.195	0.002	mg/L	0.200	ND	97	70-130	1	20	
Copper	0.193	0.005	mg/L	0.200	ND	96	70-130	1	20	
Lead	0.193	0.005	mg/L	0.200	ND	96	70-130	0.6	20	
Manganese	0.212	0.005	mg/L	0.200	0.020	96	70-130	2	20	
Nickel	0.195	0.005	mg/L	0.200	ND	97	70-130	1	20	
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130	0.3	20	
Matrix Spike Dup (B4K0370-MSD2)	**Source: 4110360-12**									
Arsenic	0.215	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.209	0.001	mg/L	0.200	ND	104	70-130	2	20	
Chromium	0.204	0.002	mg/L	0.200	ND	102	70-130	3	20	
Copper	0.208	0.005	mg/L	0.200	ND	104	70-130	4	20	
Lead	0.206	0.005	mg/L	0.200	ND	103	70-130	3	20	
Manganese	0.233	0.005	mg/L	0.200	0.028	102	70-130	4	20	
Nickel	0.207	0.005	mg/L	0.200	ND	103	70-130	4	20	
Selenium	0.217	0.005	mg/L	0.200	ND	109	70-130	2	20	
Post Spike (B4K0370-PS1)	**Source: 4110360-09**									
Arsenic	0.267		mg/L	0.250	ND	106	75-125			
Cadmium	0.238		mg/L	0.250	ND	95	75-125			
Chromium	0.238		mg/L	0.250	ND	95	75-125			
Copper	0.234		mg/L	0.250	ND	93	75-125			
Lead	0.232		mg/L	0.250	ND	93	75-125			
Manganese	0.254		mg/L	0.250	0.019	94	75-125			
Nickel	0.233		mg/L	0.250	ND	93	75-125			
Selenium	0.257		mg/L	0.250	ND	102	75-125			
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Arsenic	0.257		mg/L	0.250	ND	103	75-125			
Cadmium	0.251		mg/L	0.250	ND	100	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Chromium	0.243		mg/L	0.250	ND	97	75-125			
Copper	0.247		mg/L	0.250	ND	98	75-125			
Lead	0.246		mg/L	0.250	ND	98	75-125			
Manganese	0.271		mg/L	0.250	0.027	97	75-125			
Nickel	0.246		mg/L	0.250	ND	98	75-125			
Selenium	0.261		mg/L	0.250	ND	104	75-125			
Batch B4K0371 - EPA 200.8 Mod										
Blank (B4K0371-BLK1)										
Silver	ND	0.002	mg/L							
LCS (B4K0371-BS1)										
Silver	0.060	0.002	mg/L	0.0600		100	85-115			
Matrix Spike (B4K0371-MS1)	**Source: 4110360-09**									
Silver	0.057	0.002	mg/L	0.0600	ND	96	70-130			
Matrix Spike (B4K0371-MS2)	**Source: 4110360-12**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130			
Matrix Spike Dup (B4K0371-MSD1)	**Source: 4110360-09**									
Silver	0.056	0.002	mg/L	0.0600	ND	93	70-130	2	20	
Matrix Spike Dup (B4K0371-MSD2)	**Source: 4110360-12**									
Silver	0.061	0.002	mg/L	0.0600	ND	101	70-130	3	20	
Post Spike (B4K0371-PS1)	**Source: 4110360-09**									
Silver	0.065		mg/L	0.0700	ND	92	75-125			
Post Spike (B4K0371-PS2)	**Source: 4110360-12**									
Silver	0.068		mg/L	0.0700	ND	97	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110361
Canton, NC 28716		Reported:	12/11/14 13:59

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0373 - EPA 245.1										
Blank (B4K0373-BLK1)										
Mercury	ND	0.00020	mg/L							
LCS (B4K0373-BS1)										
Mercury	0.0048	0.00020	mg/L	0.00500		96	85-115			
Duplicate (B4K0373-DUP1)	**Source: 4110360-09**									
Mercury	ND	0.00020	mg/L		ND				20	
Duplicate (B4K0373-DUP2)	**Source: 4110360-12**									
Mercury	ND	0.00020	mg/L		ND				20	
Matrix Spike (B4K0373-MS1)	**Source: 4110360-09**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			
Matrix Spike (B4K0373-MS2)	**Source: 4110360-12**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 200.7 Metal Digestion				
EPA 200.7	B4K0341	4110361-05	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110361-11	11/18/2014 08:08	MEC
EPA 200.8 Metal Digestion				
EPA 200.8	B4K0370	4110361-05	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110361-11	11/14/2014 15:51	DER
EPA 200.8 Silver/Antimony Digestion				
EPA 200.8 Mod	B4K0371	4110361-05	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110361-11	11/17/2014 13:58	DER
EPA 245.1 Mercury Digestion				
EPA 245.1	B4K0373	4110361-05	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110361-11	11/20/2014 11:26	DER

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
X	Result subject to sample matrix interference. Reporting limit has been adjusted where applicable.

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Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 4110361

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton, NC

Report To:

Email Address:

Telephone #:

PO #: Project #: 04-159

				Filtered (Yes/No)	N					
				Cooled (Yes/No)	Y					
				Container Type (Plastic/Glass)	P	G	P		G	
				Container Volume (mL)	500 mL	250 mL	1 L	250 mL	1/2 gal	250 mL
				Sample Type (Grab/Composite)	G					
				Sample Source (WW, GW, DW, SW, S, Other)	GW					
				Preservation Code(s)	B	C	C	J	A	B
				A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L -						⊗
R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers / Parameter(s) →	Metals*	NO_3	Phenols	TOC	TDS, NO_2, SO_4, F, Cl	TOX
-05	11/10	1331	MW13	1	1					
-06		1332	MW13	1		1				
-07		1333	MW13	1			1			
-08		1336	MW13	1				1		
-09		1337	MW13	1					1	
-10		1339	MW13	1						1
-11		1423	MW21	1	1					
-12		1424	MW21	1		1				
-13		1426	MW21	1			1			
-14		1431	MW21	1				1		

COMMENTS

* As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Zn, Hg

Field data collected -01 through -04

⊗ Subcontracted

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Carmen D. Woodward	11/10/14 1451	2. [signature]	11/10/14 1451
RELINQUISHED BY: 3. [signature]	DATE/TIME: 11/10/14 1700	RECEIVED BY: 4. [signature]	DATE/TIME: 11.10.14 1700
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date:

Composite Start Time:

Time or Flow (Circle one) Initials:

Temperature of blank or representative sample

At time of collection °C

At time of lab receipt 0.8 °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other

Form Revised July, 2014 Page 1 of 2

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 4110361

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton, NC

Report To:

Email Address:

Telephone #:

PO #: Project #: 04-159

											Filtered (Yes/No)
											Cooled (Yes/No)
											Container Type (Plastic/Glass)
											Container Volume (mL)
											Sample Type (Grab/Composite)
											Sample Source (WW, GW, DW, SW, S, Other)
											Preservation Code(s)
R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) → Metals*	NO3	Phenols	TOC	TDS, Na2, SO4, F, J	TOX	COMMENTS
-15	11/10	1432	mw21	1					1		
-16	1	1437	mw21	1						1	
											*As; Ba; Cd; Ca; Cr; Cu; Fe; Pb; Mg; Mn; Ni; K; Se; Ag; Na; Zn; Hg
											Field Data Collected
											(2) Subcontracted

Preservation Code(s): A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Aaron D. Woodward	11/10/14 1451	2. [signature]	11/10/14 1451
RELINQUISHED BY: 3. [signature]	DATE/TIME: 11/10/14 1700	RECEIVED BY: 4. [signature]	DATE/TIME: 11.10.14 1700
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.8 °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other _____

Form Revised July, 2014 Page 2 of 2

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: EVERGREEN Date Received: 11.10.14 Work Order: 4110361

Carrier Name: Client FedEx UPS US Mail Courier (Field Services) Other: _____

Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?	X			
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			(Ice) Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.	X			
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or (No)

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: hRU

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-66401-1
Client Project/Site: 4110361

For:
Rogers & Callcott Engineers Inc
PO BOX 5655
Greenville, South Carolina 29606

Attn: Ms. Susan Gunter

Authorized for release by:
12/5/2014 4:44:10 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110361

TestAmerica Job ID: 490-66401-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-66401-1	4110361-10 MW13	Water	11/10/14 13:39	11/14/14 08:40
490-66401-2	4110361-16 MW21	Water	11/10/14 14:37	11/14/14 08:40

Job ID: 490-66401-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-66401-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2014 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

General Chemistry
Method(s) 9020B: Breakthrough exceeded 10% of the following sample(s): 4110361-16 MW21 (490-66401-2). The concentration of the sample, however, was less than the concentration of the LCS. It is concluded that the high breakthrough is a result of matrix interferences. The data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110361

TestAmerica Job ID: 490-66401-1

Client Sample ID: 4110361-10 MW13

Lab Sample ID: 490-66401-1

Date Collected: 11/10/14 13:39

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/04/14 14:20	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110361

TestAmerica Job ID: 490-66401-1

Client Sample ID: 4110361-16 MW21

Lab Sample ID: 490-66401-2

Date Collected: 11/10/14 14:37

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0582		0.0300		mg/L			12/04/14 14:20	1

QC Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110361

TestAmerica Job ID: 490-66401-1

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 490-211326/6
Matrix: Water
Analysis Batch: 211326

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/01/14 14:20	1

Lab Sample ID: LCS 490-211326/5
Matrix: Water
Analysis Batch: 211326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Halogens, Total Organic			0.250	0.2484		mg/L		99	90 - 110		

QC Association Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110361

TestAmerica Job ID: 490-66401-1

General Chemistry

Analysis Batch: 211326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-66401-1	4110361-10 MW13	Total/NA	Water	9020B	
490-66401-2	4110361-16 MW21	Total/NA	Water	9020B	
LCS 490-211326/5	Lab Control Sample	Total/NA	Water	9020B	
MB 490-211326/6	Method Blank	Total/NA	Water	9020B	

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110361

TestAmerica Job ID: 490-66401-1

Client Sample ID: 4110361-10 MW13

Lab Sample ID: 490-66401-1

Date Collected: 11/10/14 13:39

Matrix: Water

Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/04/14 14:20	JAB	TAL NSH

Client Sample ID: 4110361-16 MW21

Lab Sample ID: 490-66401-2

Date Collected: 11/10/14 14:37

Matrix: Water

Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/04/14 14:20	JAB	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110361

TestAmerica Job ID: 490-66401-1

Method	Method Description	Protocol	Laboratory
9020B	Organic Halides, Total (TOX)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110361

TestAmerica Job ID: 490-66401-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-14 *
South Carolina	State Program	4	84009 (001)	02-28-15

* Certification renewal pending - certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

490-66401 Chain of Custody

Cooler Received/Opened On : 11/14/2014 @ 0840

1. Tracking # 1966 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 18290455

2. Temperature of rep. sample or temp blank when opened: 2.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) mam

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) mam

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) mam

I certify that I attached a label with the unique LIMS number to each container (intial) mam

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO #_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Loc: 490
66401

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER _____

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556
Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140
215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Rogers and Callcott
Address:
Report To: Susan Gunter
Email Address:
Telephone #:
PO #: Project #:

R & C WORK ORDER	YR 2014 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) →	N	Y	G	250	G	GW	B	TOX						COMMENTS
																			Filtered (Yes/No)
																			Cooled (Yes/No)
																			Container Type (Plastic/Glass)
																			Container Volume (mL)
																			Sample Type (Grab/Composite)
																			Sample Source (WW, GW, DW, SW, S, Other)
4110361-10	11-10	1339	MW13	1			1												Sub to Test America -1
1 -16	11-10	1437	MW21	1			1												2
																			NC Samples

Preservation Code(s)
A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11.13.14 1600	2. [signature] TAN	11.14.14 0840
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____
Composite Start Time: _____
Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample
At time of collection 2.3c °C
At time of lab receipt _____ °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other _____

Form Revised July, 2014 Page _____ of _____

Login Sample Receipt Checklist

Client: Rogers & Callcott Engineers Inc

Job Number: 490-66401-1

Login Number: 66401
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☒ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW13

Date: 11/10/14 Field Personnel: CBW

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny, 64 °F Page 1 of 4

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☒ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 20.38 @ 1308
Total Depth of Well (b): 36.81
Length of Water Column in Well (b-a): 16.43
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	1	1.0

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1310	-	0.05	20.38	0.0	6.64	18.7	1,400			1	72.0	
	1315	1		20.86	0.25	6.70	18.3	1,434			1	9.70	
	1320	2		20.94	0.5	6.75	18.4	1,358			1	6.13	
	1325	3		21.02 ~~21.32~~ 11/10/14	0.75	6.78	18.9	1,359			1	5.67	
	1330	4		21.10	1.0	6.78	18.4	1,367			1	7.73	
		5											
		6						CBW		11/10/14			
		7											

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: metals -1331 ; NO_3-1332 ; phenols -1333 ; TOC -1336 ; TDS; NO_2; SO_4; F; Cl - 1337 ; TOX - 1339

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☒ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW21

Date: 11/10/14 Field Personnel: SBW

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny, 68 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☒ Peristaltic	☐ Disposable Poly
☒ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 10.20 @ 1405
Total Depth of Well (b): 28.56
Length of Water Column in Well (b-a): 18.36
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	NA	
3 Casing Vol	1	0.75

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / Lid broken @ hinges
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1406	-	0.05	10.20	0.0	6.71	19.9	1,896			1	13.0	
	1411	1		10.61	0.25	6.82	18.4	1,896			1	<5	
	1416	2		10.74	0.5	6.89	18.5	1,899			1	5.02	
	1421	3		10.82	0.75	6.89	18.0	1,888			1	5.65	
		4											
		5											
		6											
		7											

SBW 11/10/14

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: Metals - 1423 ; NO_3 - 1424 ; Phenols - 1426 ; TOC - 1431 ; TDS; NO_2; SO_4; F; Cl - 1432; TOX - 1437

Comments:

Rogers and Callcott Environmental
Field Meter Calibration Record

Client: Evergreen-Packaging **Date:** 11/10/14

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion Star A325 SN: G017639 Probe: QP1-12000
Time: 0814 Analyst: CDW CDW 11/10/14 Cell Constant 0.479

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
P403994	9.83		9.41	25.1
P404453	100.4		92.3	25.1
P403955	999		972.7	25.1
P404447	SSS conc:	447	433.2	25.1

Temperature compensation for pH / conductivity meter : +1.0

pH Calibration - EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SV1-12505
Time: 0810 Analyst: CDW Slope: 99.6

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
P404588	4.0		3.99
P405394	7.0		6.98
P404841	10.0		10.01
P403457	SSS conc:	4.0	4.01

Turbidity Meter Calibration
Field Screen Method

Meter Make / Model: Hach 2100P SN: 13020C023551 Date of most recent calibration: 11/3/14
Time: 0812 Analyst: CDW

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
P405639	5.24	5.32
P405640	49.8	50.0
P405641	485	486

Reviewed by: _____ Date: _____

CBW 11/10/14

Rogers and Callcott Environmental

Continuing Calibration Verification

Client: Evergreen Packaging **Date:** 11/10/14

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion Star A325 SN: 601769 Probe: OPI-12000

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1211	CBW	100.4	99.6 @ 21.6 °C
1705	CBW	999	974.0 @ 23.3 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SVI-12505

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1210	CBW	7.0	6.98
1704	CBW	4.0	4.08

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 13020C023551

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1210	CBW	49.8	49.7
1704	CBW	5.24	5.31

Field Duplicate

CBW 11/10/14

Well ID: ~~MW21~~ MW21

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1422	CBW	1,889	6.91	5.69	18.1

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Revised 01/21/13

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Evergreen Packaging C/O Mark Lancaster - Rogers and Callcott 175 Main Street Canton, NC 28716	**Project:** **Work Order:** **Received:**	MW and SW 4110362 11/10/2014 17:00

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on November 10, 2014. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Kara Hrkach, your Project Manager, at kara.hrkach@rogersandcallcott.com or (864)-335-4956 if you have any questions about this report.

CC: George Maalouf - Rogers and Callcott

Report Approved By:

Kara Hrkach

Kara Hrkach
Project Manager

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Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

Client Evergreen Packaging
C/O Mark Lancaster - Rogers and Callcott
175 Main Street
Canton, NC 28716

Project: MW and SW
Work Order: 4110362
Received: 11/10/2014 17:00

Sample Number	Sample Description	Matrix	Sampled	Type
4110362-01	MW1A	Ground Water	11/10/14 13:32	Grab
4110362-02	MW1A	Ground Water	11/10/14 14:15	Grab
4110362-03	MW1A	Ground Water	11/10/14 14:17	Grab
4110362-04	MW1A	Ground Water	11/10/14 14:17	Grab

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

Sample Data

Sample Number 4110362-01
Sample Description MW1A collected on 11/10/14 13:32

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**55.76**	0.00	Ft	1.00	11/10/14 13:32	-		RJC	B4K0332

Sample Number 4110362-02
Sample Description MW1A collected on 11/10/14 14:15

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.0**	0.1	pH Units	1.00	11/10/14 14:15	EPA 9040C		RJC	B4K0332
Specific Conductance at 25 C	**38.0**	10.0	umhos/cm	1.00	11/10/14 14:15	EPA 9050A		RJC	B4K0332
Temperature	**15.0**	0.0	°C	1.00	11/10/14 14:15	SM 2550B-2010		RJC	B4K0332
Turbidity (Field)	ND	5.0	NTU	1.00	11/10/14 14:15	Field Screen		RJC	B4K0332

Sample Number 4110362-03
Sample Description MW1A collected on 11/10/14 14:17

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	ND	1.00	mg/L	1.00	11/12/14 19:55	EPA 300.0	S1	LJW	B4K0478
Fluoride	ND	0.10	mg/L	1.00	11/12/14 19:55	EPA 300.0		LJW	B4K0477
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 13:43	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 09:46	SM 4500NO2B-2011		REH	B4K0383
Sulfate	ND	1.00	mg/L	1.00	11/12/14 19:55	EPA 300.0	S1	LJW	B4K0480
Total Dissolved Solids	**43.0**	25.0	mg/L	1.00	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 02:26	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/18/14 08:00	EPA 420.1		DJM	B4K0610
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:09	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 15:13	EPA 200.8		DER	B4K0370
Barium	**0.065**	0.010	mg/L	1.00	11/20/14 11:50	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 15:13	EPA 200.8		DER	B4K0370
Calcium	**2.7**	0.10	mg/L	1.00	11/20/14 11:50	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 15:13	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 15:13	EPA 200.8		DER	B4K0370

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

Sample Number 4110362-03
Sample Description MW1A collected on 11/10/14 14:17

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Total Metals									
Iron	**0.096**	0.050	mg/L	1.00	11/20/14 11:50	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 15:13	EPA 200.8		DER	B4K0370
Magnesium	**1.1**	0.10	mg/L	1.00	11/20/14 11:50	EPA 200.7		MEC	B4K0341
Manganese	ND	0.005	mg/L	1.00	11/19/14 15:13	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 15:13	EPA 200.8		DER	B4K0370
Potassium	**1.2**	0.50	mg/L	1.00	11/20/14 11:50	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 15:13	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 14:26	EPA 200.8		DER	B4K0371
Sodium	**2.6**	0.50	mg/L	1.00	11/20/14 11:50	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 11:50	EPA 200.7		MEC	B4K0341

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Subcontracted Analyses

Sample Number 4110362-04
Sample Description MW1A collected on 11/10/14 14:17

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0383 - General Prep - Wet Chem KL										
Blank (B4K0383-BLK1)										
Nitrite as N	ND	0.010	mg/L							
LCS (B4K0383-BS1)										
Nitrite as N	0.490	0.010	mg/L	0.500		98	85-115			
Matrix Spike (B4K0383-MS1)	**Source: 4110360-10**									
Nitrite as N	0.253	0.010	mg/L	0.250	ND	101	80-120			
Matrix Spike Dup (B4K0383-MSD1)	**Source: 4110360-10**									
Nitrite as N	0.253	0.010	mg/L	0.250	ND	101	80-120	0.09	20	
Batch B4K0449 - General Prep - TOC										
Blank (B4K0449-BLK1)										
Total Organic Carbon	ND	1.00	mg/L							
Blank (B4K0449-BLK2)										
Total Organic Carbon	ND	1.00	mg/L							
LCS (B4K0449-BS1)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
LCS (B4K0449-BS2)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
Matrix Spike (B4K0449-MS1)	**Source: 4110279-01**									
Total Organic Carbon	3.58	1.00	mg/L	3.75	ND	91	80-120			
Matrix Spike (B4K0449-MS2)	**Source: 4110360-10**									
Total Organic Carbon	4.78	1.00	mg/L	3.75	1.23	95	80-120			
Matrix Spike (B4K0449-MS3)	**Source: 4110361-08**									
Total Organic Carbon	5.18	1.00	mg/L	3.75	1.69	93	80-120			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0449 - General Prep - TOC										
Matrix Spike (B4K0449-MS4)	**Source: 4110474-36**									
Total Organic Carbon	7.94	1.00	mg/L	3.75	4.57	90	80-120			
Matrix Spike Dup (B4K0449-MSD1)	**Source: 4110279-01**									
Total Organic Carbon	3.61	1.00	mg/L	3.75	ND	92	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD2)	**Source: 4110360-10**									
Total Organic Carbon	4.83	1.00	mg/L	3.75	1.23	96	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD3)	**Source: 4110361-08**									
Total Organic Carbon	5.22	1.00	mg/L	3.75	1.69	94	80-120	0.7	20	
Matrix Spike Dup (B4K0449-MSD4)	**Source: 4110474-36**									
Total Organic Carbon	8.00	1.00	mg/L	3.75	4.57	91	80-120	0.7	20	
Batch B4K0477 - General Prep - IC										
Blank (B4K0477-BLK1)										
Fluoride	ND	0.10	mg/L							
LCS (B4K0477-BS1)										
Fluoride	0.50	0.10	mg/L	0.500		100	90-110			
Duplicate (B4K0477-DUP1)	**Source: 4110360-10**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0477-DUP2)	**Source: 4110362-03**									
Fluoride	ND	0.10	mg/L		ND				20	
Matrix Spike (B4K0477-MS1)	**Source: 4110360-10**									
Fluoride	0.31	0.10	mg/L	0.300	ND	86	90-110			S1
Matrix Spike (B4K0477-MS2)	**Source: 4110362-03**									
Fluoride	0.30	0.10	mg/L	0.300	ND	98	90-110			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0478 - General Prep - IC										
Blank (B4K0478-BLK1)										
Chloride	ND	1.00	mg/L							
LCS (B4K0478-BS1)										
Chloride	4.84	1.00	mg/L	5.00		97	90-110			
Duplicate (B4K0478-DUP1)	**Source: 4110360-10**									
Chloride	3.29	1.00	mg/L		3.27			0.5	20	
Duplicate (B4K0478-DUP2)	**Source: 4110362-03**									
Chloride	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0478-MS1)	**Source: 4110360-10**									
Chloride	6.10	1.00	mg/L	3.00	3.27	95	90-110			
Matrix Spike (B4K0478-MS2)	**Source: 4110362-03**									
Chloride	2.86	1.00	mg/L	3.00	ND	73	90-110			S1
Batch B4K0480 - General Prep - IC										
Blank (B4K0480-BLK1)										
Sulfate	ND	1.00	mg/L							
LCS (B4K0480-BS1)										
Sulfate	4.81	1.00	mg/L	5.00		96	90-110			
Duplicate (B4K0480-DUP1)	**Source: 4110360-10**									
Sulfate	3.01	1.00	mg/L		3.01			0.2	20	
Duplicate (B4K0480-DUP2)	**Source: 4110362-03**									
Sulfate	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0480-MS1)	**Source: 4110360-10**									
Sulfate	5.82	1.00	mg/L	3.00	3.01	94	90-110			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0480 - General Prep - IC										
Matrix Spike (B4K0480-MS2)	**Source: 4110362-03**									
Sulfate	2.90	1.00	mg/L	3.00	ND	85	90-110			S1
Batch B4K0535 - General Prep - Solids										
Blank (B4K0535-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							
Duplicate (B4K0535-DUP1)	**Source: 4110360-16**									
Total Dissolved Solids	16400	250	mg/L		16400			0.2	15	
Duplicate (B4K0535-DUP2)	**Source: 4110361-09**									
Total Dissolved Solids	1140	250	mg/L		1060			7	15	
Batch B4K0593 - General Prep - Wet Chem KL										
Blank (B4K0593-BLK1)										
Nitrate-Nitrite as N	ND	0.10	mg/L							
LCS (B4K0593-BS1)										
Nitrate-Nitrite as N	1.95	0.10	mg/L	2.00		98	85-115			
Matrix Spike (B4K0593-MS1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.78	0.10	mg/L	1.25	0.51	102	75-125			
Matrix Spike Dup (B4K0593-MSD1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.76	0.10	mg/L	1.25	0.51	101	75-125	0.8	20	
Batch B4K0610 - General Prep - Phenol										
Blank (B4K0610-BLK1)										
Total Recoverable Phenols	ND	0.005	mg/L							

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0610 - General Prep - Phenol										
LCS (B4K0610-BS1)										
Total Recoverable Phenols	0.0371	0.005	mg/L	0.0400		93	90-110			
Duplicate (B4K0610-DUP1)	**Source: 4110360-09**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Duplicate (B4K0610-DUP2)	**Source: 4110360-12**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Matrix Spike (B4K0610-MS1)	**Source: 4110360-09**									
Total Recoverable Phenols	0.0320	0.005	mg/L	0.0400	ND	80	75-125			
Matrix Spike (B4K0610-MS2)	**Source: 4110360-12**									
Total Recoverable Phenols	0.0303	0.005	mg/L	0.0400	ND	76	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Blank (B4K0341-BLK1)										
Barium	ND	0.010	mg/L							
Calcium	ND	0.10	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.10	mg/L							
Potassium	ND	0.50	mg/L							
Sodium	ND	0.50	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B4K0341-BS1)										
Barium	1.04	0.010	mg/L	1.00		104	85-115			
Calcium	1.04	0.10	mg/L	1.00		104	85-115			
Iron	1.03	0.050	mg/L	1.00		103	85-115			
Magnesium	1.03	0.10	mg/L	1.00		103	85-115			
Potassium	9.53	0.50	mg/L	10.0		95	85-115			
Sodium	1.04	0.50	mg/L	1.00		104	85-115			
Zinc	1.05	0.020	mg/L	1.00		105	85-115			
Duplicate (B4K0341-DUP1)	**Source: 4110360-10**									
Barium	0.03	0.010	mg/L		0.03			0.8	20	
Calcium	4.72	0.10	mg/L		4.58			3	20	
Iron	0.350	0.050	mg/L		0.348			0.4	20	
Magnesium	1.87	0.10	mg/L		1.81			3	20	
Potassium	2.22	0.50	mg/L		2.16			2	20	
Sodium	4.07	0.50	mg/L		3.93			3	20	
Zinc	ND	0.020	mg/L		ND				20	
Duplicate (B4K0341-DUP2)	**Source: 4110474-26**									
Barium	0.04	0.010	mg/L		0.04			3	20	
Calcium	4.66	0.10	mg/L		4.70			0.9	20	
Iron	ND	0.050	mg/L		ND				20	
Magnesium	1.61	0.10	mg/L		1.62			0.03	20	
Potassium	1.31	0.50	mg/L		1.34			2	20	
Sodium	3.10	0.50	mg/L		3.11			0.2	20	
Zinc	ND	0.020	mg/L		ND				20	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Matrix Spike (B4K0341-MS1)	**Source: 4110360-10**									
Barium	1.09	0.010	mg/L	1.00	0.03	106	70-130			
Calcium	5.77	0.10	mg/L	1.00	4.58	119	70-130			
Iron	1.41	0.050	mg/L	1.00	0.348	106	70-130			
Magnesium	2.92	0.10	mg/L	1.00	1.81	111	70-130			
Potassium	11.9	0.50	mg/L	10.0	2.16	97	70-130			
Sodium	5.03	0.50	mg/L	1.00	3.93	109	70-130			
Zinc	1.08	0.020	mg/L	1.00	ND	107	70-130			
Matrix Spike (B4K0341-MS2)	**Source: 4110474-26**									
Barium	1.08	0.010	mg/L	1.00	0.04	104	70-130			
Calcium	5.65	0.10	mg/L	1.00	4.70	95	70-130			
Iron	1.05	0.050	mg/L	1.00	ND	104	70-130			
Magnesium	2.64	0.10	mg/L	1.00	1.62	103	70-130			
Potassium	10.7	0.50	mg/L	10.0	1.34	94	70-130			
Sodium	4.00	0.50	mg/L	1.00	3.11	89	70-130			
Zinc	1.04	0.020	mg/L	1.00	ND	103	70-130			
Post Spike (B4K0341-PS1)	**Source: 4110360-10**									
Barium	1.05		mg/L	1.00	0.03	102	85-115			
Calcium	5.62		mg/L	1.00	4.58	104	85-115			
Iron	1.37		mg/L	1.00	0.348	102	85-115			
Magnesium	2.82		mg/L	1.00	1.81	101	85-115			
Potassium	11.6		mg/L	10.0	2.16	95	85-115			
Sodium	4.89		mg/L	1.00	3.93	95	85-115			
Zinc	1.02		mg/L	1.00	ND	102	85-115			
Post Spike (B4K0341-PS2)	**Source: 4110474-26**									
Barium	1.08		mg/L	1.00	0.04	104	85-115			
Calcium	5.77		mg/L	1.00	4.70	107	85-115			
Iron	1.05		mg/L	1.00	ND	103	85-115			
Magnesium	2.65		mg/L	1.00	1.62	103	85-115			
Potassium	10.9		mg/L	10.0	1.34	96	85-115			
Sodium	4.26		mg/L	1.00	3.11	115	85-115			
Zinc	1.03		mg/L	1.00	ND	103	85-115			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Blank (B4K0370-BLK1)										
Arsenic	ND	0.005	mg/L							
Cadmium	ND	0.001	mg/L							
Chromium	ND	0.002	mg/L							
Copper	ND	0.005	mg/L							
Lead	ND	0.005	mg/L							
Manganese	ND	0.005	mg/L							
Nickel	ND	0.005	mg/L							
Selenium	ND	0.005	mg/L							
LCS (B4K0370-BS1)										
Arsenic	0.208	0.005	mg/L	0.200		104	85-115			
Cadmium	0.208	0.001	mg/L	0.200		104	85-115			
Chromium	0.201	0.002	mg/L	0.200		100	85-115			
Copper	0.207	0.005	mg/L	0.200		104	85-115			
Lead	0.204	0.005	mg/L	0.200		102	85-115			
Manganese	0.201	0.005	mg/L	0.200		101	85-115			
Nickel	0.206	0.005	mg/L	0.200		103	85-115			
Selenium	0.223	0.005	mg/L	0.200		111	85-115			
Matrix Spike (B4K0370-MS1)	**Source: 4110360-09**									
Arsenic	0.223	0.005	mg/L	0.200	ND	110	70-130			
Cadmium	0.199	0.001	mg/L	0.200	ND	99	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	98	70-130			
Copper	0.195	0.005	mg/L	0.200	ND	97	70-130			
Lead	0.194	0.005	mg/L	0.200	ND	97	70-130			
Manganese	0.216	0.005	mg/L	0.200	0.020	98	70-130			
Nickel	0.193	0.005	mg/L	0.200	ND	96	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Arsenic	0.210	0.005	mg/L	0.200	ND	105	70-130			
Cadmium	0.205	0.001	mg/L	0.200	ND	103	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	99	70-130			
Copper	0.200	0.005	mg/L	0.200	ND	100	70-130			
Lead	0.201	0.005	mg/L	0.200	ND	100	70-130			
Manganese	0.224	0.005	mg/L	0.200	0.028	98	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Nickel	0.200	0.005	mg/L	0.200	ND	100	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike Dup (B4K0370-MSD1)	**Source: 4110360-09**									
Arsenic	0.219	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.198	0.001	mg/L	0.200	ND	99	70-130	0.4	20	
Chromium	0.195	0.002	mg/L	0.200	ND	97	70-130	1	20	
Copper	0.193	0.005	mg/L	0.200	ND	96	70-130	1	20	
Lead	0.193	0.005	mg/L	0.200	ND	96	70-130	0.6	20	
Manganese	0.212	0.005	mg/L	0.200	0.020	96	70-130	2	20	
Nickel	0.195	0.005	mg/L	0.200	ND	97	70-130	1	20	
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130	0.3	20	
Matrix Spike Dup (B4K0370-MSD2)	**Source: 4110360-12**									
Arsenic	0.215	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.209	0.001	mg/L	0.200	ND	104	70-130	2	20	
Chromium	0.204	0.002	mg/L	0.200	ND	102	70-130	3	20	
Copper	0.208	0.005	mg/L	0.200	ND	104	70-130	4	20	
Lead	0.206	0.005	mg/L	0.200	ND	103	70-130	3	20	
Manganese	0.233	0.005	mg/L	0.200	0.028	102	70-130	4	20	
Nickel	0.207	0.005	mg/L	0.200	ND	103	70-130	4	20	
Selenium	0.217	0.005	mg/L	0.200	ND	109	70-130	2	20	
Post Spike (B4K0370-PS1)	**Source: 4110360-09**									
Arsenic	0.267		mg/L	0.250	ND	106	75-125			
Cadmium	0.238		mg/L	0.250	ND	95	75-125			
Chromium	0.238		mg/L	0.250	ND	95	75-125			
Copper	0.234		mg/L	0.250	ND	93	75-125			
Lead	0.232		mg/L	0.250	ND	93	75-125			
Manganese	0.254		mg/L	0.250	0.019	94	75-125			
Nickel	0.233		mg/L	0.250	ND	93	75-125			
Selenium	0.257		mg/L	0.250	ND	102	75-125			
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Arsenic	0.257		mg/L	0.250	ND	103	75-125			
Cadmium	0.251		mg/L	0.250	ND	100	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Chromium	0.243		mg/L	0.250	ND	97	75-125			
Copper	0.247		mg/L	0.250	ND	98	75-125			
Lead	0.246		mg/L	0.250	ND	98	75-125			
Manganese	0.271		mg/L	0.250	0.027	97	75-125			
Nickel	0.246		mg/L	0.250	ND	98	75-125			
Selenium	0.261		mg/L	0.250	ND	104	75-125			
Batch B4K0371 - EPA 200.8 Mod										
Blank (B4K0371-BLK1)										
Silver	ND	0.002	mg/L							
LCS (B4K0371-BS1)										
Silver	0.060	0.002	mg/L	0.0600		100	85-115			
Matrix Spike (B4K0371-MS1)	**Source: 4110360-09**									
Silver	0.057	0.002	mg/L	0.0600	ND	96	70-130			
Matrix Spike (B4K0371-MS2)	**Source: 4110360-12**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130			
Matrix Spike Dup (B4K0371-MSD1)	**Source: 4110360-09**									
Silver	0.056	0.002	mg/L	0.0600	ND	93	70-130	2	20	
Matrix Spike Dup (B4K0371-MSD2)	**Source: 4110360-12**									
Silver	0.061	0.002	mg/L	0.0600	ND	101	70-130	3	20	
Post Spike (B4K0371-PS1)	**Source: 4110360-09**									
Silver	0.065		mg/L	0.0700	ND	92	75-125			
Post Spike (B4K0371-PS2)	**Source: 4110360-12**									
Silver	0.068		mg/L	0.0700	ND	97	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110362
Canton, NC 28716		Reported:	12/11/14 14:06

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0373 - EPA 245.1										
Blank (B4K0373-BLK1)										
Mercury	ND	0.00020	mg/L							
LCS (B4K0373-BS1)										
Mercury	0.0048	0.00020	mg/L	0.00500		96	85-115			
Duplicate (B4K0373-DUP1)	**Source: 4110360-09**									
Mercury	ND	0.00020	mg/L		ND				20	
Duplicate (B4K0373-DUP2)	**Source: 4110360-12**									
Mercury	ND	0.00020	mg/L		ND				20	
Matrix Spike (B4K0373-MS1)	**Source: 4110360-09**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			
Matrix Spike (B4K0373-MS2)	**Source: 4110360-12**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 200.7 Metal Digestion				
EPA 200.7	B4K0341	4110362-03	11/18/2014 08:08	MEC
EPA 200.8 Metal Digestion				
EPA 200.8	B4K0370	4110362-03	11/14/2014 15:51	DER
EPA 200.8 Silver/Antimony Digestion				
EPA 200.8 Mod	B4K0371	4110362-03	11/17/2014 13:58	DER
EPA 245.1 Mercury Digestion				
EPA 245.1	B4K0373	4110362-03	11/20/2014 11:26	DER

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.

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Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 4110362

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton NC

Report To:

Email Address:

Telephone #:

PO #: Project # 04-159

Parameter(s) →	Metals	Cl, Fl, TDS, Na2, SO4	Phenol	TOC	Na3	TOX	
Filtered (Yes/No)	N	—	—	—	—	Y	
Cooled (Yes/No)	Y	—	—	—	—	Y	
Container Type (Plastic/Glass)	P	P	G	P	P	G	
Container Volume (mL)	500 ML	1/2	1L	250 ML	250 ML	250 ML	
Sample Type (Grab/Composite)	G	—	—	—	—	G	
Sample Source (WW, GW, DW, SW, S, Other)	GW	—	—	—	—	GW	
Preservation Code(s)	B	A	C	J	C	B	
Total Number of Containers	6	1	1	1	1	1	1

Preservation Code(s): A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	COMMENTS
-03, -04	11/10	1417	MW11	Field Data Collected -01 through -02
				metals: As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Zn, Hg
				® Subcontracted

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11/10/14 1443	2. [signature]	11/10/14 1443
RELINQUISHED BY: 3. [signature]	DATE/TIME: 11/10/14 1700	RECEIVED BY: 4. [signature]	DATE/TIME: 11.10.14 1700
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.8 °C

Possible Hazards associated with samples: ◯ Non-Hazard ◯ Flammable ◯ Skin Irritant ◯ Poison ◯ Unknown ◯ Other _____

Form Revised July, 2014 Page 1 of 1

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: EVERGREEN Date Received: 11.10.14 Work Order: 41103662

Carrier Name: Client FedEx UPS US Mail Courier (Field Services) Other: _____

Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?	X			
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			(Ice) Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.	X			
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or (No)

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: hRJ

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-66403-1
Client Project/Site: 4110362

For:
Rogers & Callcott Engineers Inc
PO BOX 5655
Greenville, South Carolina 29606

Attn: Ms. Susan Gunter

Authorized for release by:
12/5/2014 4:45:57 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110362

TestAmerica Job ID: 490-66403-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-66403-1	4110362-04 MW1A	Water	11/10/14 14:17	11/14/14 08:40

Case Narrative

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110362

TestAmerica Job ID: 490-66403-1

Job ID: 490-66403-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-66403-1

Comments
No additional comments.

Receipt
The sample was received on 11/14/2014 8:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 2.3º C.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110362

TestAmerica Job ID: 490-66403-1

Client Sample ID: 4110362-04 MW1A

Lab Sample ID: 490-66403-1

Date Collected: 11/10/14 14:17

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/04/14 14:50	1

QC Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110362

TestAmerica Job ID: 490-66403-1

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 490-211326/6
Matrix: Water
Analysis Batch: 211326

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/01/14 14:20	1

Lab Sample ID: LCS 490-211326/5
Matrix: Water
Analysis Batch: 211326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	0.250	0.2484		mg/L		99	90 - 110

QC Association Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110362

TestAmerica Job ID: 490-66403-1

General Chemistry

Analysis Batch: 211326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-66403-1	4110362-04 MW1A	Total/NA	Water	9020B	
LCS 490-211326/5	Lab Control Sample	Total/NA	Water	9020B	
MB 490-211326/6	Method Blank	Total/NA	Water	9020B	

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110362

TestAmerica Job ID: 490-66403-1

Client Sample ID: 4110362-04 MW1A

Lab Sample ID: 490-66403-1

Date Collected: 11/10/14 14:17

Matrix: Water

Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/04/14 14:50	JAB	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110362

TestAmerica Job ID: 490-66403-1

Method	Method Description	Protocol	Laboratory
9020B	Organic Halides, Total (TOX)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110362

TestAmerica Job ID: 490-66403-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-14 *
South Carolina	State Program	4	84009 (001)	02-28-15

* Certification renewal pending - certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

490-66403 Chain of Custody

Cooler Received/Opened On : 11/14/2014 @ 0840

1. Tracking # 1966 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 18290455

2. Temperature of rep. sample or temp blank when opened: 2.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (intial)

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) MSM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MSM

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MSM

I certify that I attached a label with the unique LIMS number to each container (intial) MSM

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO #

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Loc: 490
66403

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER _____

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556
Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140
215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Rogers and Callcott
Address:
Report To: Susan Gunter
Email Address:
Telephone #:
PO #: Project #:

R & C WORK ORDER	YR 2014 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) ↓	N	Y	G	250	G	GW	B	TOX						COMMENTS
																			Filtered (Yes/No)
																			Cooled (Yes/No)
																			Container Type (Plastic/Glass)
																			Container Volume (mL)
																			Sample Type (Grab/Composite)
																			Sample Source (WW, GW, DW, SW, S, Other)
4110362-04	11-10	1417	MW1A	1		1													Sub to Test America
																			NC Samples

Preservation Code(s)
A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11.13.14 1600	2. [signature] TAN	11.14.14 @ 0840
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____
Composite Start Time: _____
Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample
At time of collection 2.3 °C
At time of lab receipt _____ °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other _____

Form Revised July, 2014 Page _____ of _____

Login Sample Receipt Checklist

Client: Rogers & Callcott Engineers Inc

Job Number: 490-66403-1

Login Number: 66403
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☒ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW 1A

Date: 11/10/14 Field Personnel: ASC

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 63 °F Page 2 of ____

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☒ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ ____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 55.76 @ 1332
Total Depth of Well (b): 72.27
Length of Water Column in Well (b-a): 16.51
Well Casing Diameter (inches): 2
Depth to Immiscible Layer: N/A

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	2.7	
3 Casing Vol	8.1	10.8

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / ____
Well Tag? Okay / No
Well Integrity Satisfactory? Okay / ____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1351	-	0.5	55.76	0.0	5.85	17.6	640.4	N/A	N/A	1	33.4	
	1357	1	0.5	59.19	2.7	5.96	16.0	61.19			1	21.7	
	1403	2	0.5	58.92	5.4	5.97	15.4	37.68			1	7.77	
	1409	3	0.5	58.84	8.1	5.97	14.9	38.08			1	<5.0	
	1415	4	0.5	58.69	10.8	6.00	15.0	38.02			1	<5.0	
		5											
		6											
		7											

Eric Cox 11/10/14

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= N/A

Sample Collection Time: 1417

Comments: Pump depth ≈ 65.66 FT

Rogers and Callcott Environmental

Field Meter Calibration Record

Client: Evergreen Packaging **Date:** 11/10/14

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion Star A325 SN: G04166 Probe: SQ1 - 11813

Time: 0839 Analyst: JJC Cell Constant 0.476

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
P403994	9.83		9.597	23.3
P404453	100.4		100.6	23.4
P403995	999		1000	23.3
P404447	SSS conc:	447	449.1	23.3

Temperature compensation for pH / conductivity meter : -0.1

pH Calibration - EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SQ1 - 10463

Time: 0823 Analyst: JJC Slope: 99.4

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
P404588	4.0		4.01
P405394	7.0		7.02
P404841	10.0		10.05
P403457	SSS conc:	4.0	4.01

Turbidity Meter Calibration
Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298 Date of most recent calibration: 11/03/14

Time: 0838 Analyst: JJC

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
P405642	4.96	4.36
P405643	46.0	46.9
P405644	447	448

Reviewed: _____ Date: _____

Re 01/21/13

Rogers and Callcott Environmental

Continuing Calibration Verification

Client: Evergreen Packaging **Date:** 11/18/14

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion Star A325 SN: G04166 Probe: SQI-11813

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1301	MJL	100.4	99.13 @ 18.1 °C
1743	MJL	9.83	9.564 @ 17.8 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SQI-10463

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1259	MJL	7.0	7.02
1741	MJL	4.0	4.03

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1259	MJL	46.0	45.1
1741	MJL	4.46	4.41

Field Duplicate

Well ID: MW1A

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1416	MJL	38.01	5.99	<5.0	15.0

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed: _____ Date: _____

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Evergreen Packaging C/O Mark Lancaster - Rogers and Callcott 175 Main Street Canton, NC 28716	**Project:** **Work Order:** **Received:**	MW and SW 4110474 11/12/2014 15:30

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on November 12, 2014. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Kara Hrkach, your Project Manager, at kara.hrkach@rogersandcallcott.com or (864)-335-4956 if you have any questions about this report.

CC: George Maalouf - Rogers and Callcott

Report Approved By:

Kara Hrkach

Kara Hrkach
Project Manager

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PO Box 5655 | Greenville, SC 29606 | 426 Fairforest Way | Greenville, SC 29607 | main 864.232.1556 | fax 864.232.6140 rogersandcallcott.com
an employee-owned company

Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

Client Evergreen Packaging
C/O Mark Lancaster - Rogers and Callcott
175 Main Street
Canton, NC 28716

Project: MW and SW
Work Order: 4110474
Received: 11/12/2014 15:30

Sample Number	Sample Description	Matrix	Sampled	Type
4110474-01	MW14	Ground Water	11/10/14 13:14	Grab
4110474-02	MW14	Ground Water	11/11/14 08:33	Grab
4110474-03	MW6	Ground Water	11/11/14 10:33	Grab
4110474-04	MW6	Ground Water	11/11/14 10:50	Grab
4110474-05	MW16D	Ground Water	11/11/14 12:26	Grab
4110474-06	MW16D	Ground Water	11/11/14 12:47	Grab
4110474-07	MW15	Ground Water	11/11/14 13:51	Grab
4110474-08	MW15	Ground Water	11/11/14 14:28	Grab
4110474-09	MW16S	Ground Water	11/11/14 15:06	Grab
4110474-10	MW16S	Ground Water	11/11/14 15:27	Grab
4110474-11	MW4	Ground Water	11/11/14 16:43	Grab
4110474-12	MW4	Ground Water	11/11/14 17:18	Grab
4110474-13	MW18	Ground Water	11/12/14 08:33	Grab
4110474-14	MW18	Ground Water	11/12/14 09:16	Grab
4110474-15	MW14	Ground Water	11/11/14 08:34	Grab
4110474-16	MW14	Ground Water	11/11/14 08:37	Grab
4110474-17	MW14	Ground Water	11/11/14 08:54	Grab
4110474-18	MW14	Ground Water	11/11/14 09:01	Grab
4110474-19	MW14	Ground Water	11/11/14 09:04	Grab
4110474-20	MW6	Ground Water	11/11/14 10:52	Grab
4110474-21	MW16D	Ground Water	11/11/14 12:48	Grab
4110474-22	MW16D	Ground Water	11/11/14 12:52	Grab
4110474-23	MW16D	Ground Water	11/11/14 13:03	Grab
4110474-24	MW16D	Ground Water	11/11/14 13:09	Grab
4110474-25	MW16D	Ground Water	11/11/14 13:11	Grab
4110474-26	MW15	Ground Water	11/11/14 14:29	Grab
4110474-27	MW15	Ground Water	11/11/14 14:31	Grab

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110474
Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number	Sample Description	Matrix	Sampled	Type
4110474-28	MW15	Ground Water	11/11/14 14:46	Grab
4110474-29	MW15	Ground Water	11/11/14 14:53	Grab
4110474-30	MW15	Ground Water	11/11/14 14:56	Grab
4110474-31	MW16S	Ground Water	11/11/14 15:28	Grab
4110474-32	MW16S	Ground Water	11/11/14 15:32	Grab
4110474-33	MW16S	Ground Water	11/11/14 15:43	Grab
4110474-34	MW16S	Ground Water	11/11/14 15:49	Grab
4110474-35	MW16S	Ground Water	11/11/14 15:53	Grab
4110474-36	MW4	Ground Water	11/11/14 17:19	Grab
4110474-37	MW18	Ground Water	11/12/14 09:18	Grab
4110474-38	MW18	Ground Water	11/12/14 09:23	Grab
4110474-39	MW18	Ground Water	11/12/14 09:44	Grab
4110474-40	MW18	Ground Water	11/12/14 09:58	Grab
4110474-41	MW18	Ground Water	11/12/14 10:01	Grab
4110474-42	MW14	Ground Water	11/11/14 09:07	Grab
4110474-43	MW6	Ground Water	11/11/14 10:52	Grab
4110474-44	MW16D	Ground Water	11/11/14 13:14	Grab
4110474-45	MW15	Ground Water	11/11/14 14:58	Grab
4110474-46	MW16S	Ground Water	11/11/14 15:55	Grab
4110474-47	MW4	Ground Water	11/11/14 17:19	Grab
4110474-48	MW18	Ground Water	11/12/14 10:04	Grab

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110474
Canton, NC 28716		Reported:	12/18/14 10:37

Sample Data

Sample Number 4110474-01
Sample Description MW14 collected on 11/10/14 13:14

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**25.51**	0.00	Ft	1.00	11/10/14 13:14	-		RJC	B4K0457

Sample Number 4110474-02
Sample Description MW14 collected on 11/11/14 08:33

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**5.7**	0.1	pH Units	1.00	11/11/14 08:33	EPA 9040C		RJC	B4K0457
Specific Conductance at 25 C	**102**	10.0	umhos/cm	1.00	11/11/14 08:33	EPA 9050A		RJC	B4K0457
Temperature	**9.9**	0.0	°C	1.00	11/11/14 08:33	SM 2550B-2010		RJC	B4K0457
Turbidity (Field)	**9.9**	5.0	NTU	1.00	11/11/14 08:33	Field Screen		RJC	B4K0457

Sample Number 4110474-03
Sample Description MW6 collected on 11/11/14 10:33

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**13.78**	0.00	Ft	1.00	11/11/14 10:33	-		RJC	B4K0457

Sample Number 4110474-04
Sample Description MW6 collected on 11/11/14 10:50

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**5.8**	0.1	pH Units	1.00	11/11/14 10:50	EPA 9040C		RJC	B4K0457
Specific Conductance at 25 C	**769**	10.0	umhos/cm	1.00	11/11/14 10:50	EPA 9050A		RJC	B4K0457
Temperature	**15.2**	0.0	°C	1.00	11/11/14 10:50	SM 2550B-2010		RJC	B4K0457
Turbidity (Field)	ND	5.0	NTU	1.00	11/11/14 10:50	Field Screen		RJC	B4K0457

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Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number 4110474-05
Sample Description MW16D collected on 11/11/14 12:26

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**60.09**	0.00	Ft	1.00	11/11/14 12:26	-		RJC	B4K0457

Sample Number 4110474-06
Sample Description MW16D collected on 11/11/14 12:47

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**7.0**	0.1	pH Units	1.00	11/11/14 12:47	EPA 9040C		RJC	B4K0457
Specific Conductance at 25 C	**1630**	10.0	umhos/cm	1.00	11/11/14 12:47	EPA 9050A		RJC	B4K0457
Temperature	**16.4**	0.0	°C	1.00	11/11/14 12:47	SM 2550B-2010		RJC	B4K0457
Turbidity (Field)	ND	5.0	NTU	1.00	11/11/14 12:47	Field Screen		RJC	B4K0457

Sample Number 4110474-07
Sample Description MW15 collected on 11/11/14 13:51

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**27.61**	0.00	Ft	1.00	11/11/14 13:51	-		RJC	B4K0457

Sample Number 4110474-08
Sample Description MW15 collected on 11/11/14 14:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.3**	0.1	pH Units	1.00	11/11/14 14:28	EPA 9040C		RJC	B4K0457
Specific Conductance at 25 C	**54.6**	10.0	umhos/cm	1.00	11/11/14 14:28	EPA 9050A		RJC	B4K0457
Temperature	**14.4**	0.0	°C	1.00	11/11/14 14:28	SM 2550B-2010		RJC	B4K0457
Turbidity (Field)	ND	5.0	NTU	1.00	11/11/14 14:28	Field Screen		RJC	B4K0457

Sample Number 4110474-09
Sample Description MW16S collected on 11/11/14 15:06

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**53.84**	0.00	Ft	1.00	11/11/14 15:06	-		RJC	B4K0457

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Sample Number 4110474-10
Sample Description MW16S collected on 11/11/14 15:27

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.6**	0.1	pH Units	1.00	11/11/14 15:27	EPA 9040C		RJC	B4K0457
Specific Conductance at 25 C	**3790**	10.0	umhos/cm	1.00	11/11/14 15:27	EPA 9050A		RJC	B4K0457
Temperature	**16.8**	0.0	°C	1.00	11/11/14 15:27	SM 2550B-2010		RJC	B4K0457
Turbidity (Field)	ND	5.0	NTU	1.00	11/11/14 15:27	Field Screen		RJC	B4K0457

Sample Number 4110474-11
Sample Description MW4 collected on 11/11/14 16:43

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**59.50**	0.00	Ft	1.00	11/11/14 16:43	-		RJC	B4K0457

Sample Number 4110474-12
Sample Description MW4 collected on 11/11/14 17:18

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.5**	0.1	pH Units	1.00	11/11/14 17:18	EPA 9040C		RJC	B4K0457
Specific Conductance at 25 C	**1460**	10.0	umhos/cm	1.00	11/11/14 17:18	EPA 9050A		RJC	B4K0457
Temperature	**15.0**	0.0	°C	1.00	11/11/14 17:18	SM 2550B-2010		RJC	B4K0457
Turbidity (Field)	ND	5.0	NTU	1.00	11/11/14 17:18	Field Screen		RJC	B4K0457

Sample Number 4110474-13
Sample Description MW18 collected on 11/12/14 08:33

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**75.87**	0.00	Ft	1.00	11/12/14 08:33	-		RJC	B4K0457

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Sample Number 4110474-14
Sample Description MW18 collected on 11/12/14 09:16

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.8**	0.1	pH Units	1.00	11/12/14 09:16	EPA 9040C		RJC	B4K0457
Specific Conductance at 25 C	**1270**	10.0	umhos/cm	1.00	11/12/14 09:16	EPA 9050A		RJC	B4K0457
Temperature	**13.7**	0.0	°C	1.00	11/12/14 09:16	SM 2550B-2010		RJC	B4K0457
Turbidity (Field)	ND	5.0	NTU	1.00	11/12/14 09:16	Field Screen		RJC	B4K0457

Sample Number 4110474-15
Sample Description MW14 collected on 11/11/14 08:34

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:15	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 15:40	EPA 200.8		DER	B4K0370
Barium	**0.090**	0.010	mg/L	1.00	11/20/14 12:00	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 15:40	EPA 200.8		DER	B4K0370
Calcium	**2.3**	0.10	mg/L	1.00	11/20/14 12:00	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 15:40	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 15:40	EPA 200.8		DER	B4K0370
Iron	**0.30**	0.050	mg/L	1.00	11/20/14 12:00	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 15:40	EPA 200.8		DER	B4K0370
Magnesium	**3.0**	0.10	mg/L	1.00	11/20/14 12:00	EPA 200.7		MEC	B4K0341
Manganese	**0.011**	0.005	mg/L	1.00	11/19/14 15:40	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 15:40	EPA 200.8		DER	B4K0370
Potassium	**1.6**	0.50	mg/L	1.00	11/20/14 12:00	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 15:40	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 14:29	EPA 200.8		DER	B4K0371
Sodium	**13**	2.5	mg/L	5.00	11/20/14 11:57	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 12:00	EPA 200.7		MEC	B4K0341

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Sample Number 4110474-16
Sample Description MW14 collected on 11/11/14 08:37

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**4.56**	1.00	mg/L	1.00	11/13/14 21:12	EPA 300.0		LJW	B4K0542
Fluoride	ND	0.10	mg/L	1.00	11/13/14 21:12	EPA 300.0		LJW	B4K0541
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 16:42	SM 4500NO2B-2011		REH	B4K0415
Sulfate	**6.14**	1.00	mg/L	1.00	11/13/14 21:12	EPA 300.0		LJW	B4K0543
Total Dissolved Solids	**60.0**	25.0	mg/L	1.00	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535

Sample Number 4110474-17
Sample Description MW14 collected on 11/11/14 08:54

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771

Sample Number 4110474-18
Sample Description MW14 collected on 11/11/14 09:01

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 02:50	SM 5310C-2011		LJW	B4K0449

Sample Number 4110474-19
Sample Description MW14 collected on 11/11/14 09:04

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Nitrate-Nitrite as N	**1.40**	0.10	mg/L	1.00	11/18/14 13:53	SM 4500NO3H-2011		REH	B4K0593

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Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number 4110474-20
Sample Description MW6 collected on 11/11/14 10:52

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**85.0**	10.0	mg/L	10.0	11/14/14 00:08	EPA 300.0		LJW	B4K0542
Fluoride	ND	0.10	mg/L	1.00	11/13/14 23:46	EPA 300.0		LJW	B4K0541
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 13:53	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 16:47	SM 4500NO2B-2011		REH	B4K0415
Sulfate	**116**	20.0	mg/L	20.0	11/18/14 19:01	EPA 300.0		LJW	B4K0675
Total Dissolved Solids	**512**	50.0	mg/L	2.00	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535
Total Organic Carbon	**1.11**	1.00	mg/L	1.00	11/14/14 03:03	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:18	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 12:32	EPA 200.8		DER	B4K0370
Barium	**0.16**	0.010	mg/L	1.00	11/20/14 12:15	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 12:32	EPA 200.8		DER	B4K0370
Calcium	**54**	5.0	mg/L	50.0	11/20/14 14:34	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 12:32	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 12:32	EPA 200.8		DER	B4K0370
Iron	**0.45**	0.050	mg/L	1.00	11/20/14 12:15	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 12:32	EPA 200.8		DER	B4K0370
Magnesium	**37**	1.0	mg/L	10.0	11/20/14 12:12	EPA 200.7		MEC	B4K0341
Manganese	**7.89**	0.100	mg/L	20.0	11/19/14 12:28	EPA 200.8		DER	B4K0370
Nickel	**0.020**	0.005	mg/L	1.00	11/19/14 12:32	EPA 200.8		DER	B4K0370
Potassium	**6.4**	0.50	mg/L	1.00	11/20/14 12:15	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 12:32	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 13:08	EPA 200.8		DER	B4K0371
Sodium	**32**	5.0	mg/L	10.0	11/20/14 12:12	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 12:15	EPA 200.7		MEC	B4K0341

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Sample Number 4110474-21
Sample Description MW16D collected on 11/11/14 12:48

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:20	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 15:48	EPA 200.8		DER	B4K0370
Barium	**0.18**	0.010	mg/L	1.00	11/20/14 13:04	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 15:48	EPA 200.8		DER	B4K0370
Calcium	**260**	10	mg/L	100	11/20/14 12:59	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 15:48	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 15:48	EPA 200.8		DER	B4K0370
Iron	**3.2**	0.050	mg/L	1.00	11/20/14 13:04	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 15:48	EPA 200.8		DER	B4K0370
Magnesium	**37**	2.5	mg/L	25.0	11/20/14 13:01	EPA 200.7		MEC	B4K0341
Manganese	**4.69**	0.100	mg/L	20.0	11/19/14 15:44	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 15:48	EPA 200.8		DER	B4K0370
Potassium	**21**	0.50	mg/L	1.00	11/20/14 13:04	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 15:48	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 14:32	EPA 200.8		DER	B4K0371
Sodium	**46**	12	mg/L	25.0	11/20/14 13:01	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 13:04	EPA 200.7		MEC	B4K0341

Sample Number 4110474-22
Sample Description MW16D collected on 11/11/14 12:52

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**71.5**	10.0	mg/L	10.0	11/14/14 00:52	EPA 300.0		LJW	B4K0542
Fluoride	ND	0.10	mg/L	1.00	11/14/14 00:30	EPA 300.0		LJW	B4K0541
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 16:50	SM 4500NO2B-2011		REH	B4K0415
Sulfate	**40.7**	10.0	mg/L	10.0	11/14/14 00:52	EPA 300.0		LJW	B4K0543
Total Dissolved Solids	**980**	250	mg/L	10.0	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535

Sample Number 4110474-23
Sample Description MW16D collected on 11/11/14 13:03

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771

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Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number 4110474-24
Sample Description MW16D collected on 11/11/14 13:09

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Organic Carbon	**10.7**	2.00	mg/L	2.00	11/14/14 03:18	SM 5310C-2011		LJW	B4K0449

Sample Number 4110474-25
Sample Description MW16D collected on 11/11/14 13:11

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 13:53	SM 4500NO3H-2011		REH	B4K0593

Sample Number 4110474-26
Sample Description MW15 collected on 11/11/14 14:29

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:23	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 12:55	EPA 200.8		DER	B4K0370
Barium	**0.038**	0.010	mg/L	1.00	11/20/14 11:28	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 12:55	EPA 200.8		DER	B4K0370
Calcium	**4.7**	0.10	mg/L	1.00	11/20/14 11:28	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 12:55	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 12:55	EPA 200.8		DER	B4K0370
Iron	ND	0.050	mg/L	1.00	11/20/14 11:28	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 12:55	EPA 200.8		DER	B4K0370
Magnesium	**1.6**	0.10	mg/L	1.00	11/20/14 11:28	EPA 200.7		MEC	B4K0341
Manganese	ND	0.005	mg/L	1.00	11/19/14 12:55	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 12:55	EPA 200.8		DER	B4K0370
Potassium	**1.3**	0.50	mg/L	1.00	11/20/14 11:28	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 12:55	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 13:11	EPA 200.8		DER	B4K0371
Sodium	**3.1**	0.50	mg/L	1.00	11/20/14 11:28	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 11:28	EPA 200.7		MEC	B4K0341

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Evergreen Packaging		Project:	MW and SW
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Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number 4110474-27
Sample Description MW15 collected on 11/11/14 14:31

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	ND	1.00	mg/L	1.00	11/13/14 18:37	EPA 300.0	S1	LJW	B4K0542
Fluoride	ND	0.10	mg/L	1.00	11/13/14 18:37	EPA 300.0		LJW	B4K0541
Nitrite as N	ND	0.010	mg/L	1.00	11/13/14 10:55	SM 4500NO2B-2011		REH	B4K0482
Sulfate	ND	1.00	mg/L	1.00	11/13/14 18:37	EPA 300.0	S1	LJW	B4K0543
Total Dissolved Solids	**54.0**	25.0	mg/L	1.00	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535

Sample Number 4110474-28
Sample Description MW15 collected on 11/11/14 14:46

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771

Sample Number 4110474-29
Sample Description MW15 collected on 11/11/14 14:53

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 03:30	SM 5310C-2011		LJW	B4K0449

Sample Number 4110474-30
Sample Description MW15 collected on 11/11/14 14:56

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Nitrate-Nitrite as N	**0.26**	0.10	mg/L	1.00	11/18/14 13:53	SM 4500NO3H-2011		REH	B4K0593

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110474
Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number 4110474-31
Sample Description MW16S collected on 11/11/14 15:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:32	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 16:00	EPA 200.8		DER	B4K0370
Barium	**0.39**	0.010	mg/L	1.00	11/20/14 14:03	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 16:00	EPA 200.8		DER	B4K0370
Calcium	**130**	5.0	mg/L	50.0	11/20/14 13:58	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 16:00	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 16:00	EPA 200.8		DER	B4K0370
Iron	**13**	0.50	mg/L	10.0	11/20/14 14:01	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 16:00	EPA 200.8		DER	B4K0370
Magnesium	**64**	5.0	mg/L	50.0	11/20/14 13:58	EPA 200.7		MEC	B4K0341
Manganese	**7.99**	0.250	mg/L	50.0	11/19/14 15:56	EPA 200.8		DER	B4K0370
Nickel	**0.029**	0.005	mg/L	1.00	11/19/14 16:00	EPA 200.8		DER	B4K0370
Potassium	**12**	0.50	mg/L	1.00	11/20/14 14:03	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 16:00	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 14:34	EPA 200.8		DER	B4K0371
Sodium	**910**	250	mg/L	500	11/20/14 13:56	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 14:03	EPA 200.7		MEC	B4K0341

Sample Number 4110474-32
Sample Description MW16S collected on 11/11/14 15:32

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**179**	50.0	mg/L	50.0	11/14/14 04:33	EPA 300.0		LJW	B4K0542
Fluoride	ND	0.50	mg/L	5.00	11/14/14 04:11	EPA 300.0	X	LJW	B4K0541
Nitrite as N	ND	0.020	mg/L	2.00	11/13/14 11:21	SM 4500NO2B-2011	X	REH	B4K0482
Sulfate	**21.0**	5.00	mg/L	5.00	11/14/14 04:11	EPA 300.0		LJW	B4K0543
Total Dissolved Solids	**2380**	250	mg/L	10.0	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535

Sample Number 4110474-33
Sample Description MW16S collected on 11/11/14 15:43

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771

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Evergreen Packaging		Project:	MW and SW
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Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number 4110474-34
Sample Description MW16S collected on 11/11/14 15:49

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Organic Carbon	**45.3**	10.0	mg/L	10.0	11/14/14 05:07	SM 5310C-2011		LJW	B4K0449

Sample Number 4110474-35
Sample Description MW16S collected on 11/11/14 15:53

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 14:01	SM 4500NO3H-2011		REH	B4K0593

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Evergreen Packaging		Project:	MW and SW
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Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number 4110474-36
Sample Description MW4 collected on 11/11/14 17:19

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**86.6**	25.0	mg/L	25.0	11/14/14 05:17	EPA 300.0		LJW	B4K0542
Fluoride	ND	0.10	mg/L	1.00	11/14/14 04:55	EPA 300.0		LJW	B4K0541
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 16:17	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/13/14 11:03	SM 4500NO2B-2011		REH	B4K0482
Sulfate	**243**	50.0	mg/L	50.0	11/18/14 19:23	EPA 300.0		LJW	B4K0675
Total Dissolved Solids	**904**	100	mg/L	4.00	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535
Total Organic Carbon	**4.57**	1.00	mg/L	1.00	11/14/14 04:21	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:34	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 12:40	EPA 200.8		DER	B4K0370
Barium	**0.041**	0.010	mg/L	1.00	11/20/14 13:13	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 12:40	EPA 200.8		DER	B4K0370
Calcium	**22**	1.0	mg/L	10.0	11/20/14 13:10	EPA 200.7		MEC	B4K0341
Chromium	**0.010**	0.002	mg/L	1.00	11/19/14 12:40	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 12:40	EPA 200.8		DER	B4K0370
Iron	**65**	5.0	mg/L	100	11/20/14 13:08	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 12:40	EPA 200.8		DER	B4K0370
Magnesium	**17**	1.0	mg/L	10.0	11/20/14 13:10	EPA 200.7		MEC	B4K0341
Manganese	**1.31**	0.025	mg/L	5.00	11/19/14 12:36	EPA 200.8		DER	B4K0370
Nickel	**0.006**	0.005	mg/L	1.00	11/19/14 12:40	EPA 200.8		DER	B4K0370
Potassium	**8.7**	0.50	mg/L	1.00	11/20/14 13:13	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 12:40	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 14:37	EPA 200.8		DER	B4K0371
Sodium	**230**	50	mg/L	100	11/20/14 13:08	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 13:13	EPA 200.7		MEC	B4K0341

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110474
Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number 4110474-37
Sample Description MW18 collected on 11/12/14 09:18

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:37	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 13:03	EPA 200.8		DER	B4K0370
Barium	**0.020**	0.010	mg/L	1.00	11/20/14 13:50	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 13:03	EPA 200.8		DER	B4K0370
Calcium	**59**	2.5	mg/L	25.0	11/20/14 13:41	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 13:03	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 13:03	EPA 200.8		DER	B4K0370
Iron	**23**	1.2	mg/L	25.0	11/20/14 13:41	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 13:03	EPA 200.8		DER	B4K0370
Magnesium	**23**	2.5	mg/L	25.0	11/20/14 13:41	EPA 200.7		MEC	B4K0341
Manganese	**2.95**	0.100	mg/L	20.0	11/19/14 12:59	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 13:03	EPA 200.8		DER	B4K0370
Potassium	**8.2**	0.50	mg/L	1.00	11/20/14 13:50	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 13:03	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 14:39	EPA 200.8		DER	B4K0371
Sodium	**220**	100	mg/L	200	11/20/14 13:43	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 13:50	EPA 200.7		MEC	B4K0341

Sample Number 4110474-38
Sample Description MW18 collected on 11/12/14 09:23

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**25.6**	10.0	mg/L	10.0	11/19/14 02:44	EPA 300.0		LJW	B4K0674
Fluoride	ND	0.10	mg/L	1.00	11/19/14 02:21	EPA 300.0		LJW	B4K0673
Nitrite as N	ND	0.010	mg/L	1.00	11/13/14 12:14	SM 4500NO2B-2011		REH	B4K0482
Sulfate	**513**	100	mg/L	100	11/19/14 03:06	EPA 300.0		LJW	B4K0675
Total Dissolved Solids	**840**	250	mg/L	10.0	11/17/14 16:30	SM 2540C-2011		JRA	B4K0596

Sample Number 4110474-39
Sample Description MW18 collected on 11/12/14 09:44

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771

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Canton, NC 28716		Reported:	12/18/14 10:37

Sample Number 4110474-40
Sample Description MW18 collected on 11/12/14 09:58

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Total Organic Carbon	**1.60**	1.00	mg/L	1.00	11/14/14 05:19	SM 5310C-2011		LJW	B4K0449

Sample Number 4110474-41
Sample Description MW18 collected on 11/12/14 10:01

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 16:17	SM 4500NO3H-2011		REH	B4K0593

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Subcontracted Analyses

Sample Number 4110474-42
Sample Description MW14 collected on 11/11/14 09:07

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110474-43
Sample Description MW6 collected on 11/11/14 10:52

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110474-44
Sample Description MW16D collected on 11/11/14 13:14

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110474-45
Sample Description MW15 collected on 11/11/14 14:58

Parameter

Subcontract TOH

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Sample Number 4110474-46
Sample Description MW16S collected on 11/11/14 15:55

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110474-47
Sample Description MW4 collected on 11/11/14 17:19

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110474-48
Sample Description MW18 collected on 11/12/14 10:04

Parameter

Subcontract TOH

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110474
Canton, NC 28716		Reported:	12/18/14 10:37

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0415 - General Prep - Wet Chem										
Blank (B4K0415-BLK1)										
Nitrite as N	ND	0.010	mg/L							
LCS (B4K0415-BS1)										
Nitrite as N	0.487	0.010	mg/L	0.500		97	85-115			
Matrix Spike (B4K0415-MS1)	**Source: 4110475-15**									
Nitrite as N	0.246	0.010	mg/L	0.250	ND	98	80-120			
Matrix Spike Dup (B4K0415-MSD1)	**Source: 4110475-15**									
Nitrite as N	0.241	0.010	mg/L	0.250	ND	96	80-120	2	20	
Batch B4K0449 - General Prep - TOC										
Blank (B4K0449-BLK1)										
Total Organic Carbon	ND	1.00	mg/L							
Blank (B4K0449-BLK2)										
Total Organic Carbon	ND	1.00	mg/L							
LCS (B4K0449-BS1)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
LCS (B4K0449-BS2)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
Matrix Spike (B4K0449-MS1)	**Source: 4110279-01**									
Total Organic Carbon	3.58	1.00	mg/L	3.75	ND	91	80-120			
Matrix Spike (B4K0449-MS2)	**Source: 4110360-10**									
Total Organic Carbon	4.78	1.00	mg/L	3.75	1.23	95	80-120			
Matrix Spike (B4K0449-MS3)	**Source: 4110361-08**									
Total Organic Carbon	5.18	1.00	mg/L	3.75	1.69	93	80-120			

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110474
Canton, NC 28716		Reported:	12/18/14 10:37

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0449 - General Prep - TOC										
Matrix Spike (B4K0449-MS4)	**Source: 4110474-36**									
Total Organic Carbon	7.94	1.00	mg/L	3.75	4.57	90	80-120			
Matrix Spike Dup (B4K0449-MSD1)	**Source: 4110279-01**									
Total Organic Carbon	3.61	1.00	mg/L	3.75	ND	92	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD2)	**Source: 4110360-10**									
Total Organic Carbon	4.83	1.00	mg/L	3.75	1.23	96	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD3)	**Source: 4110361-08**									
Total Organic Carbon	5.22	1.00	mg/L	3.75	1.69	94	80-120	0.7	20	
Matrix Spike Dup (B4K0449-MSD4)	**Source: 4110474-36**									
Total Organic Carbon	8.00	1.00	mg/L	3.75	4.57	91	80-120	0.7	20	
Batch B4K0482 - General Prep - Wet Chem										
Blank (B4K0482-BLK1)										
Nitrite as N	ND	0.010	mg/L							
LCS (B4K0482-BS1)										
Nitrite as N	0.499	0.010	mg/L	0.500		100	85-115			
Matrix Spike (B4K0482-MS1)	**Source: 4110474-27**									
Nitrite as N	0.258	0.010	mg/L	0.250	ND	103	80-120			
Matrix Spike Dup (B4K0482-MSD1)	**Source: 4110474-27**									
Nitrite as N	0.254	0.010	mg/L	0.250	ND	102	80-120	1	20	
Batch B4K0535 - General Prep - Solids										
Blank (B4K0535-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110474
Canton, NC 28716		Reported:	12/18/14 10:37

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0535 - General Prep - Solids										
Duplicate (B4K0535-DUP1)	**Source: 4110360-16**									
Total Dissolved Solids	16400	250	mg/L		16400			0.2	15	
Duplicate (B4K0535-DUP2)	**Source: 4110361-09**									
Total Dissolved Solids	1140	250	mg/L		1060			7	15	
Batch B4K0541 - General Prep - IC										
Blank (B4K0541-BLK1)										
Fluoride	ND	0.10	mg/L							
LCS (B4K0541-BS1)										
Fluoride	0.50	0.10	mg/L	0.500		99	90-110			
Duplicate (B4K0541-DUP1)	**Source: 4110361-09**									
Fluoride	0.43	0.10	mg/L		0.45			6	20	
Duplicate (B4K0541-DUP2)	**Source: 4110474-27**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0541-DUP3)	**Source: 4110475-16**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0541-DUP4)	**Source: 4110454-01**									
Fluoride	ND	0.10	mg/L		ND				20	
Matrix Spike (B4K0541-MS1)	**Source: 4110361-09**									
Fluoride	0.73	0.10	mg/L	0.300	0.45	92	90-110			
Matrix Spike (B4K0541-MS2)	**Source: 4110474-27**									
Fluoride	0.29	0.10	mg/L	0.300	ND	98	90-110			
Matrix Spike (B4K0541-MS3)	**Source: 4110475-16**									
Fluoride	0.31	0.10	mg/L	0.300	ND	87	90-110			S1

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110474
Canton, NC 28716		Reported:	12/18/14 10:37

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0541 - General Prep - IC										
Matrix Spike (B4K0541-MS4)	**Source: 4110454-01**									
Fluoride	0.30	0.10	mg/L	0.300	ND	98	90-110			
Batch B4K0542 - General Prep - IC										
Blank (B4K0542-BLK1)										
Chloride	ND	1.00	mg/L							
LCS (B4K0542-BS1)										
Chloride	4.98	1.00	mg/L	5.00		100	90-110			
Duplicate (B4K0542-DUP1)	**Source: 4110474-27**									
Chloride	ND	1.00	mg/L		ND				20	
Duplicate (B4K0542-DUP2)	**Source: 4110475-16**									
Chloride	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0542-MS1)	**Source: 4110474-27**									
Chloride	3.23	1.00	mg/L	3.00	ND	75	90-110			S1
Matrix Spike (B4K0542-MS2)	**Source: 4110475-16**									
Chloride	3.15	1.00	mg/L	3.00	ND	79	90-110			S1
Batch B4K0543 - General Prep - IC										
Blank (B4K0543-BLK1)										
Sulfate	ND	1.00	mg/L							
LCS (B4K0543-BS1)										
Sulfate	4.84	1.00	mg/L	5.00		97	90-110			
Duplicate (B4K0543-DUP1)	**Source: 4110474-27**									
Sulfate	ND	1.00	mg/L		ND				20	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110474
Canton, NC 28716		Reported:	12/18/14 10:37

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0543 - General Prep - IC										
Duplicate (B4K0543-DUP2)	**Source: 4110475-16**									
Sulfate	1.48	1.00	mg/L		1.50			1	20	
Matrix Spike (B4K0543-MS1)	**Source: 4110474-27**									
Sulfate	3.40	1.00	mg/L	3.00	ND	89	90-110			S1
Matrix Spike (B4K0543-MS2)	**Source: 4110475-16**									
Sulfate	4.25	1.00	mg/L	3.00	1.50	92	90-110			
Batch B4K0593 - General Prep - Wet Chem KL										
Blank (B4K0593-BLK1)										
Nitrate-Nitrite as N	ND	0.10	mg/L							
LCS (B4K0593-BS1)										
Nitrate-Nitrite as N	1.95	0.10	mg/L	2.00		98	85-115			
Matrix Spike (B4K0593-MS1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.78	0.10	mg/L	1.25	0.51	102	75-125			
Matrix Spike Dup (B4K0593-MSD1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.76	0.10	mg/L	1.25	0.51	101	75-125	0.8	20	
Batch B4K0596 - General Prep - Solids										
Blank (B4K0596-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							
Duplicate (B4K0596-DUP1)	**Source: 4110473-04**									
Total Dissolved Solids	3310	250	mg/L		3410			3	15	
Batch B4K0673 - General Prep - IC										
Blank (B4K0673-BLK1)										
Fluoride	ND	0.10	mg/L							

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General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0673 - General Prep - IC										
LCS (B4K0673-BS1)										
Fluoride	0.52	0.10	mg/L	0.500		105	90-110			
Duplicate (B4K0673-DUP1)	**Source: 4110482-08**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0673-DUP2)	**Source: 4110495-03**									
Fluoride	ND	0.10	mg/L		ND				20	
Matrix Spike (B4K0673-MS1)	**Source: 4110482-08**									
Fluoride	0.34	0.10	mg/L	0.300	ND	99	90-110			
Matrix Spike (B4K0673-MS2)	**Source: 4110495-03**									
Fluoride	0.32	0.10	mg/L	0.300	ND	105	90-110			
Batch B4K0674 - General Prep - IC										
Blank (B4K0674-BLK1)										
Chloride	ND	1.00	mg/L							
LCS (B4K0674-BS1)										
Chloride	5.02	1.00	mg/L	5.00		100	90-110			
Duplicate (B4K0674-DUP1)	**Source: 4110482-08**									
Chloride	ND	1.00	mg/L		ND				20	
Duplicate (B4K0674-DUP2)	**Source: 4110495-03**									
Chloride	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0674-MS1)	**Source: 4110482-08**									
Chloride	3.25	1.00	mg/L	3.00	ND	83	90-110			S1
Matrix Spike (B4K0674-MS2)	**Source: 4110495-03**									
Chloride	3.34	1.00	mg/L	3.00	ND	83	90-110			S1

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General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0675 - General Prep - IC										
Blank (B4K0675-BLK1)										
Sulfate	ND	1.00	mg/L							
LCS (B4K0675-BS1)										
Sulfate	4.98	1.00	mg/L	5.00		100	90-110			
Duplicate (B4K0675-DUP1)	**Source: 4110482-08**									
Sulfate	2.16	1.00	mg/L		2.23			3	20	
Duplicate (B4K0675-DUP2)	**Source: 4110495-03**									
Sulfate	1.77	1.00	mg/L		1.80			2	20	
Matrix Spike (B4K0675-MS1)	**Source: 4110482-08**									
Sulfate	5.08	1.00	mg/L	3.00	2.23	95	90-110			
Matrix Spike (B4K0675-MS2)	**Source: 4110495-03**									
Sulfate	4.59	1.00	mg/L	3.00	1.80	93	90-110			
Batch B4K0771 - General Prep - Phenol										
Blank (B4K0771-BLK1)										
Total Recoverable Phenols	ND	0.005	mg/L							
LCS (B4K0771-BS1)										
Total Recoverable Phenols	0.0374	0.005	mg/L	0.0400		94	90-110			
Duplicate (B4K0771-DUP1)	**Source: 4110475-15**									
Total Recoverable Phenols	0.0060	0.005	mg/L		ND			46	20	P3
Duplicate (B4K0771-DUP2)	**Source: 4110475-16**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Matrix Spike (B4K0771-MS1)	**Source: 4110475-15**									
Total Recoverable Phenols	0.0380	0.005	mg/L	0.0400	ND	86	75-125			

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General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0771 - General Prep - Phenol										
Matrix Spike (B4K0771-MS2)	**Source: 4110475-16**									
Total Recoverable Phenols	0.0374	0.005	mg/L	0.0400	ND	94	75-125			

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Blank (B4K0341-BLK1)										
Barium	ND	0.010	mg/L							
Calcium	ND	0.10	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.10	mg/L							
Potassium	ND	0.50	mg/L							
Sodium	ND	0.50	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B4K0341-BS1)										
Barium	1.04	0.010	mg/L	1.00		104	85-115			
Calcium	1.04	0.10	mg/L	1.00		104	85-115			
Iron	1.03	0.050	mg/L	1.00		103	85-115			
Magnesium	1.03	0.10	mg/L	1.00		103	85-115			
Potassium	9.53	0.50	mg/L	10.0		95	85-115			
Sodium	1.04	0.50	mg/L	1.00		104	85-115			
Zinc	1.05	0.020	mg/L	1.00		105	85-115			
Duplicate (B4K0341-DUP1)	**Source: 4110360-10**									
Barium	0.03	0.010	mg/L		0.03			0.8	20	
Calcium	4.72	0.10	mg/L		4.58			3	20	
Iron	0.350	0.050	mg/L		0.348			0.4	20	
Magnesium	1.87	0.10	mg/L		1.81			3	20	
Potassium	2.22	0.50	mg/L		2.16			2	20	
Sodium	4.07	0.50	mg/L		3.93			3	20	
Zinc	ND	0.020	mg/L		ND				20	
Duplicate (B4K0341-DUP2)	**Source: 4110474-26**									
Barium	0.04	0.010	mg/L		0.04			3	20	
Calcium	4.66	0.10	mg/L		4.70			0.9	20	
Iron	ND	0.050	mg/L		ND				20	
Magnesium	1.61	0.10	mg/L		1.62			0.03	20	
Potassium	1.31	0.50	mg/L		1.34			2	20	
Sodium	3.10	0.50	mg/L		3.11			0.2	20	
Zinc	ND	0.020	mg/L		ND				20	

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Matrix Spike (B4K0341-MS1)	**Source: 4110360-10**									
Barium	1.09	0.010	mg/L	1.00	0.03	106	70-130			
Calcium	5.77	0.10	mg/L	1.00	4.58	119	70-130			
Iron	1.41	0.050	mg/L	1.00	0.348	106	70-130			
Magnesium	2.92	0.10	mg/L	1.00	1.81	111	70-130			
Potassium	11.9	0.50	mg/L	10.0	2.16	97	70-130			
Sodium	5.03	0.50	mg/L	1.00	3.93	109	70-130			
Zinc	1.08	0.020	mg/L	1.00	ND	107	70-130			
Matrix Spike (B4K0341-MS2)	**Source: 4110474-26**									
Barium	1.08	0.010	mg/L	1.00	0.04	104	70-130			
Calcium	5.65	0.10	mg/L	1.00	4.70	95	70-130			
Iron	1.05	0.050	mg/L	1.00	ND	104	70-130			
Magnesium	2.64	0.10	mg/L	1.00	1.62	103	70-130			
Potassium	10.7	0.50	mg/L	10.0	1.34	94	70-130			
Sodium	4.00	0.50	mg/L	1.00	3.11	89	70-130			
Zinc	1.04	0.020	mg/L	1.00	ND	103	70-130			
Post Spike (B4K0341-PS1)	**Source: 4110360-10**									
Barium	1.05		mg/L	1.00	0.03	102	85-115			
Calcium	5.62		mg/L	1.00	4.58	104	85-115			
Iron	1.37		mg/L	1.00	0.348	102	85-115			
Magnesium	2.82		mg/L	1.00	1.81	101	85-115			
Potassium	11.6		mg/L	10.0	2.16	95	85-115			
Sodium	4.89		mg/L	1.00	3.93	95	85-115			
Zinc	1.02		mg/L	1.00	ND	102	85-115			
Post Spike (B4K0341-PS2)	**Source: 4110474-26**									
Barium	1.08		mg/L	1.00	0.04	104	85-115			
Calcium	5.77		mg/L	1.00	4.70	107	85-115			
Iron	1.05		mg/L	1.00	ND	103	85-115			
Magnesium	2.65		mg/L	1.00	1.62	103	85-115			
Potassium	10.9		mg/L	10.0	1.34	96	85-115			
Sodium	4.26		mg/L	1.00	3.11	115	85-115			
Zinc	1.03		mg/L	1.00	ND	103	85-115			

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Canton, NC 28716		Reported:	12/18/14 10:37

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Blank (B4K0370-BLK1)										
Arsenic	ND	0.005	mg/L							
Cadmium	ND	0.001	mg/L							
Chromium	ND	0.002	mg/L							
Copper	ND	0.005	mg/L							
Lead	ND	0.005	mg/L							
Manganese	ND	0.005	mg/L							
Nickel	ND	0.005	mg/L							
Selenium	ND	0.005	mg/L							
LCS (B4K0370-BS1)										
Arsenic	0.208	0.005	mg/L	0.200		104	85-115			
Cadmium	0.208	0.001	mg/L	0.200		104	85-115			
Chromium	0.201	0.002	mg/L	0.200		100	85-115			
Copper	0.207	0.005	mg/L	0.200		104	85-115			
Lead	0.204	0.005	mg/L	0.200		102	85-115			
Manganese	0.201	0.005	mg/L	0.200		101	85-115			
Nickel	0.206	0.005	mg/L	0.200		103	85-115			
Selenium	0.223	0.005	mg/L	0.200		111	85-115			
Matrix Spike (B4K0370-MS1)	**Source: 4110360-09**									
Arsenic	0.223	0.005	mg/L	0.200	ND	110	70-130			
Cadmium	0.199	0.001	mg/L	0.200	ND	99	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	98	70-130			
Copper	0.195	0.005	mg/L	0.200	ND	97	70-130			
Lead	0.194	0.005	mg/L	0.200	ND	97	70-130			
Manganese	0.216	0.005	mg/L	0.200	0.020	98	70-130			
Nickel	0.193	0.005	mg/L	0.200	ND	96	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Arsenic	0.210	0.005	mg/L	0.200	ND	105	70-130			
Cadmium	0.205	0.001	mg/L	0.200	ND	103	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	99	70-130			
Copper	0.200	0.005	mg/L	0.200	ND	100	70-130			
Lead	0.201	0.005	mg/L	0.200	ND	100	70-130			
Manganese	0.224	0.005	mg/L	0.200	0.028	98	70-130			

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Nickel	0.200	0.005	mg/L	0.200	ND	100	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike Dup (B4K0370-MSD1)	**Source: 4110360-09**									
Arsenic	0.219	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.198	0.001	mg/L	0.200	ND	99	70-130	0.4	20	
Chromium	0.195	0.002	mg/L	0.200	ND	97	70-130	1	20	
Copper	0.193	0.005	mg/L	0.200	ND	96	70-130	1	20	
Lead	0.193	0.005	mg/L	0.200	ND	96	70-130	0.6	20	
Manganese	0.212	0.005	mg/L	0.200	0.020	96	70-130	2	20	
Nickel	0.195	0.005	mg/L	0.200	ND	97	70-130	1	20	
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130	0.3	20	
Matrix Spike Dup (B4K0370-MSD2)	**Source: 4110360-12**									
Arsenic	0.215	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.209	0.001	mg/L	0.200	ND	104	70-130	2	20	
Chromium	0.204	0.002	mg/L	0.200	ND	102	70-130	3	20	
Copper	0.208	0.005	mg/L	0.200	ND	104	70-130	4	20	
Lead	0.206	0.005	mg/L	0.200	ND	103	70-130	3	20	
Manganese	0.233	0.005	mg/L	0.200	0.028	102	70-130	4	20	
Nickel	0.207	0.005	mg/L	0.200	ND	103	70-130	4	20	
Selenium	0.217	0.005	mg/L	0.200	ND	109	70-130	2	20	
Post Spike (B4K0370-PS1)	**Source: 4110360-09**									
Arsenic	0.267		mg/L	0.250	ND	106	75-125			
Cadmium	0.238		mg/L	0.250	ND	95	75-125			
Chromium	0.238		mg/L	0.250	ND	95	75-125			
Copper	0.234		mg/L	0.250	ND	93	75-125			
Lead	0.232		mg/L	0.250	ND	93	75-125			
Manganese	0.254		mg/L	0.250	0.019	94	75-125			
Nickel	0.233		mg/L	0.250	ND	93	75-125			
Selenium	0.257		mg/L	0.250	ND	102	75-125			
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Arsenic	0.257		mg/L	0.250	ND	103	75-125			
Cadmium	0.251		mg/L	0.250	ND	100	75-125			

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Chromium	0.243		mg/L	0.250	ND	97	75-125			
Copper	0.247		mg/L	0.250	ND	98	75-125			
Lead	0.246		mg/L	0.250	ND	98	75-125			
Manganese	0.271		mg/L	0.250	0.027	97	75-125			
Nickel	0.246		mg/L	0.250	ND	98	75-125			
Selenium	0.261		mg/L	0.250	ND	104	75-125			
Batch B4K0371 - EPA 200.8 Mod										
Blank (B4K0371-BLK1)										
Silver	ND	0.002	mg/L							
LCS (B4K0371-BS1)										
Silver	0.060	0.002	mg/L	0.0600		100	85-115			
Matrix Spike (B4K0371-MS1)	**Source: 4110360-09**									
Silver	0.057	0.002	mg/L	0.0600	ND	96	70-130			
Matrix Spike (B4K0371-MS2)	**Source: 4110360-12**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130			
Matrix Spike Dup (B4K0371-MSD1)	**Source: 4110360-09**									
Silver	0.056	0.002	mg/L	0.0600	ND	93	70-130	2	20	
Matrix Spike Dup (B4K0371-MSD2)	**Source: 4110360-12**									
Silver	0.061	0.002	mg/L	0.0600	ND	101	70-130	3	20	
Post Spike (B4K0371-PS1)	**Source: 4110360-09**									
Silver	0.065		mg/L	0.0700	ND	92	75-125			
Post Spike (B4K0371-PS2)	**Source: 4110360-12**									
Silver	0.068		mg/L	0.0700	ND	97	75-125			

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0373 - EPA 245.1										
Blank (B4K0373-BLK1)										
Mercury	ND	0.00020	mg/L							
LCS (B4K0373-BS1)										
Mercury	0.0048	0.00020	mg/L	0.00500		96	85-115			
Duplicate (B4K0373-DUP1)	**Source: 4110360-09**									
Mercury	ND	0.00020	mg/L		ND				20	
Duplicate (B4K0373-DUP2)	**Source: 4110360-12**									
Mercury	ND	0.00020	mg/L		ND				20	
Matrix Spike (B4K0373-MS1)	**Source: 4110360-09**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			
Matrix Spike (B4K0373-MS2)	**Source: 4110360-12**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			

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Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 200.7 Metal Digestion				
EPA 200.7	B4K0341	4110474-15	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110474-20	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110474-21	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110474-26	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110474-31	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110474-36	11/18/2014 08:08	MEC
EPA 200.7	B4K0341	4110474-37	11/18/2014 08:08	MEC
EPA 200.8 Metal Digestion				
EPA 200.8	B4K0370	4110474-15	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110474-20	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110474-21	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110474-26	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110474-31	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110474-36	11/14/2014 15:51	DER
EPA 200.8	B4K0370	4110474-37	11/14/2014 15:51	DER
EPA 200.8 Silver/Antimony Digestion				
EPA 200.8 Mod	B4K0371	4110474-15	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110474-20	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110474-21	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110474-26	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110474-31	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110474-36	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110474-37	11/17/2014 13:58	DER
EPA 245.1 Mercury Digestion				
EPA 245.1	B4K0373	4110474-15	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110474-20	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110474-21	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110474-26	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110474-31	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110474-36	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110474-37	11/20/2014 11:26	DER

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
P3	The RPD of sample and duplicate were evaluated using +/- the reporting limit. The sample / duplicate results were less than 4 times the reporting limit.
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
X	Result subject to sample matrix interference. Reporting limit has been adjusted where applicable.

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Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 4110474

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton NC

Report To:

Email Address:

Telephone #:

PO #: Project #: 04-159

Parameter(s) →	Total Number of Containers	Metals, Cl, Fl, TDS, NO2, SO4	Phenol	TOC	NO3	TOX
Filtered (Yes/No)		N				Y
Cooled (Yes/No)		Y				Y
Container Type (Plastic/Glass)		P	G	P	P	G
Container Volume (mL)		500 mL	1/2 L	250 mL	250 mL	250 mL
Sample Type (Grab/Composite)		G				G
Sample Source (WW, GW, DW, SW, S, Other)		GW				GW
Preservation Code(s)		B	A	C	J	C	B

Preservation Code(s): A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Metals, Cl, Fl, TDS, NO2, SO4	Phenol	TOC	NO3	TOX	COMMENTS
-15	11/11	0834	MW14	1	1					Field Data Collected
-16		0837	MW14	1		1				-01 through -14
-17		0839	MW14	1			1			metals = As, Ba, Cd, Ca,
-18		0901	MW14	1				1		Cr, Co, Fe, Pb, Mg, Mn, Ni,
-19		0904	MW14	1					1	K, Se, Ag, Na, Zn, Hg
-42		0907	MW14	1						1
-20, -43		1052	MW6	6	1	1	1	1	1	1
-21		1248	MW16D	1	1					
-22		1252	MW16D	1		1				
-23		1303	MW16D	1			1			

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. ATG	11/12/14 1327	2.	11/12/14 1327
RELINQUISHED BY: 3.	DATE/TIME: 1530 11/12/14 1327	RECEIVED BY: 4.	DATE/TIME: 11/12/14 1530
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.2 °C

Possible Hazards associated with samples: ○ Non-Hazard ○ Flammable ○ Skin Irritant ○ Poison ○ Unknown ○ Other _____

Form Revised July, 2014

Page 1 of 4

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 9110474

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton NC

Report To:

Email Address:

Telephone #:

PO #: Project #: 04-159

Filtered (Yes/No)	N								
Cooled (Yes/No)	Y								
Container Type (Plastic/Glass)	P	P	G	P	P	G			
Container Volume (mL)	500 mL	1/2	1 L	250 mL	250 mL	250 mL			
Sample Type (Grab/Composite)	G								
Sample Source (WW, GW, DW, SW, S, Other)	GW								
Preservation Code(s)	B	A	C	J	C	B			
Parameter(s) →		metals	Cl, Fl, TDS, NO2, SO4	phenol	TOC	NO3	TOX		
R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers								COMMENTS
-24	11/11	1309	MW16D	1				1				Field Data Collected
-25		1311	MW16D	1						1		-01 through -14
-44 ~~-26~~ 38 11/11/14		1314	MW16D	1							1	metals=As, Ba, cd, Ca,
-26		1429	MW15	1	1							Cr, Cu, Fe, pb, mg, Mn,
-27		1431	MW15	1		1						K, Se, Ag, Na, Zn, Hg
-28		1446	MW15	1			1					
-29		1453	MW15	1				1				
-30		1456	MW15	1						1		
-45 ~~-44~~ 38 11/11/14		1458	MW15	1							1	
-31	—	1528	MW16S	1	1							

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. GTG	11/12/14 1327	2. [signature]	11/12/14 1327
RELINQUISHED BY: 3. [signature]	DATE/TIME: 11/12/14 1530	RECEIVED BY: 4. [signature]	DATE/TIME: 11/12/14 1530
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date:

Composite Start Time:

Time or Flow (Circle one) Initials:

Temperature of blank or representative sample

At time of collection °C

At time of lab receipt 0.2 °C

Possible Hazards associated with samples: ○ Non-Hazard ○ Flammable ○ Skin Irritant ○ Poison ○ Unknown ○ Other

Form Revised July, 2014

Page 2 of 4

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 9110474

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215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton NC

Report To:

Email Address:

Telephone #:

PO #: Project # 09-159

Filtered (Yes/No)	N							1	
Cooled (Yes/No)	Y							1	
Container Type (Plastic/Glass)	P	P	G	P	P			G	
Container Volume (mL)	500 mL	1/2	1L	250 mL	250 mL			250 mL	
Sample Type (Grab/Composite)	G							1	
Sample Source (WW, GW, DW, SW, S, Other)	GW							1	
Preservation Code(s)	B	A	C	J	C			B	
Parameter(s) ↓		Metals	Cl, Fl, TDS, NO2, SO4	pH mol	TOC		NO3	TOX	

Preservation Code(s): A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) ↓	Metals	Cl, Fl, TDS, NO2, SO4	pH mol	TOC		NO3	TOX		COMMENTS
-32	11/11	1532	MW16S	1			1							Field Data Collected
-33		1543	MW16S	1				1						-01 through -14
-34		1549	MW16S	1					1					metals = As, Ba, Cd, Ca,
-35		1553	MW16S	1							1			Cr, Cu, Fe, Pb, Mg, Mn, Ni,
Split ~~-45~~ -46		1555	MW16S	1								1		K, Se, Ag, Na, Zn, Hg
-47 -36 ~~-46~~		1719	MW4	6		1	1	1	1		1	1		
-37	11/12	0918	MW18	1		1								
-38		0923	MW18	1			1							
-39		0944	MW18	1				1						
-40		0958	MW18	1					1					

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11/12/14 1327	2. [signature]	11/12/14 1327
RELINQUISHED BY: 3. [signature]	DATE/TIME: 11/12/14 1530	RECEIVED BY: 4. [signature]	DATE/TIME: 11/12/14 1530
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.2 °C

Possible Hazards associated with samples: ○ Non-Hazard ○ Flammable ○ Skin Irritant ○ Poison ○ Unknown ○ Other _____

Form Revised July, 2014

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 1110474

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton NC

Report To:

Email Address:

Telephone #:

PO #: Project #: 04-159

Parameter(s) →							
Total Number of Containers	N	Y	P	500 mL	G	GW	B
			P	1/2	G		A
			G	1L			C
			P	250 mL			J
			P	250 mL			C
			G	250 mL			B
	Filtered (Yes/No)	Cooled (Yes/No)	Container Type (Plastic/Glass)	Container Volume (mL)	Sample Type (Grab/Composite)	Sample Source (WW, GW, DW, SW, S, Other)	Preservation Code(s)
							metals
							Cl, Fl, TDS, NO2, SO4
							phenol
							TOC
							NO3
							TOX

Preservation Code(s): A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	COMMENTS
-41	11/12	1001	MW18	1	Field Data Collected
-48 -49	1	1004	MW18	1	-01 through -14
4/11/14					metals = As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Zn, Hg

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11/12/14 1327	2. [signature]	11/12/14 1327
RELINQUISHED BY: 3. [signature]	DATE/TIME: 11/12/14 1530	RECEIVED BY: 4. [signature]	DATE/TIME: 11/12/14 1530
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.2 °C

Possible Hazards associated with samples: ○ Non-Hazard ○ Flammable ○ Skin Irritant ○ Poison ○ Unknown ○ Other _____

Form Revised July, 2014

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Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: Chrgreen Date Received: 11.12.14 Work Order: 4110474

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other: JF

Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X		X	Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?	X			
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?	X		X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.	X			
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: SP

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-66347-1
Client Project/Site: 4110474

For:
Rogers & Callcott Engineers Inc
PO BOX 5655
Greenville, South Carolina 29606

Attn: Ms. Susan Gunter

Authorized for release by:
12/16/2014 1:07:31 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-66347-1	4110474-42 MW14	Water	11/11/14 09:07	11/14/14 08:40
490-66347-2	4110474-43 MW6	Water	11/11/14 10:52	11/14/14 08:40
490-66347-3	4110474-44 MW16D	Water	11/11/14 13:14	11/14/14 08:40
490-66347-4	4110474-45 MW15	Water	11/11/14 14:58	11/14/14 08:40
490-66347-5	4110474-46 MW16S	Water	11/11/14 15:55	11/14/14 08:40
490-66347-6	4110474-47 MW4	Water	11/11/14 17:19	11/14/14 08:40
490-66347-7	4110474-48 MW18	Water	11/12/14 10:04	11/14/14 08:40

Job ID: 490-66347-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-66347-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2014 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0º C.

General Chemistry
Method(s) 9020B: The matrix spike (MS) recovery for batch 211273 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9020B: Breakthrough exceeded 10% of the following sample(s): (600-102461-3), 4110474-43 MW6 (490-66347-2), 4110474-47 MW4 (490-66347-6). The concentration of the sample, however, was less than the concentration of the LCS. It is concluded that the high breakthrough is a result of matrix interferences. The data has been reported.

Method(s) 9020B: The %RPD between the first and second columns is greater than 20% for the following samples:4110474-43 MW6 (490-66347-2). Due to insufficient sample volume remaining, the data was averaged with the two closest replicates and reported.

Method(s) 9020B: The matrix spike (MS) recovery for batch 211326 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9020B: Breakthrough exceeded 10% of the following sample(s): 4110474-44 MW16D (490-66347-3), 4110474-46 MW16S (490-66347-5), 4110474-48 MW18 (490-66347-7). The concentration of the sample, however, was less than the concentration of the LCS. It is concluded that the high breakthrough is a result of matrix interferences. The data has been reported.

Method(s) 9020B: Following sample duplicate results are outside 20% RPD requirement 4110474-48 MW18 (490-66347-7). Insufficient sample volume to repeat. The data have been reported.

Method(s) 9020B: Insufficient sample volume was available to perform a matrix spike (MS) associated with batch 211326.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Client Sample ID: 4110474-42 MW14

Lab Sample ID: 490-66347-1

Date Collected: 11/11/14 09:07

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/05/14 14:50	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Client Sample ID: 4110474-43 MW6

Lab Sample ID: 490-66347-2

Date Collected: 11/11/14 10:52

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.160		0.0300		mg/L			12/05/14 07:46	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Client Sample ID: 4110474-44 MW16D

Lab Sample ID: 490-66347-3

Date Collected: 11/11/14 13:14

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0719		0.0300		mg/L			12/05/14 14:50	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Client Sample ID: 4110474-45 MW15

Lab Sample ID: 490-66347-4

Date Collected: 11/11/14 14:58

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/06/14 08:07	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Client Sample ID: 4110474-46 MW16S

Lab Sample ID: 490-66347-5

Date Collected: 11/11/14 15:55

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.121		0.0300		mg/L			12/06/14 12:46	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Client Sample ID: 4110474-47 MW4

Lab Sample ID: 490-66347-6

Date Collected: 11/11/14 17:19

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0698		0.0300		mg/L			12/06/14 08:07	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Client Sample ID: 4110474-48 MW18

Lab Sample ID: 490-66347-7

Date Collected: 11/12/14 10:04

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0432		0.0300		mg/L			12/06/14 12:46	1

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 490-211273/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/01/14 08:51	1

Lab Sample ID: LCS 490-211273/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	0.250	0.2378		mg/L		95	90 - 110

Lab Sample ID: LCSD 490-211273/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Halogens, Total Organic	0.250	0.2405		mg/L		96	90 - 110	1	20

Lab Sample ID: 180-39031-A-6 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	<0.0300		0.100	0.4643	F1	mg/L		464	70 - 130

Lab Sample ID: MB 490-211326/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/01/14 14:20	1

Lab Sample ID: LCS 490-211326/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	0.250	0.2484		mg/L		99	90 - 110

Lab Sample ID: 180-39031-A-7 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211326

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	<0.0300		0.100	0.1566	F1	mg/L		157	70 - 130

QC Association Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

General Chemistry

Analysis Batch: 211273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39031-A-6 MS	Matrix Spike	Total/NA	Water	9020B	
490-66347-2	4110474-43 MW6	Total/NA	Water	9020B	
490-66347-4	4110474-45 MW15	Total/NA	Water	9020B	
490-66347-6	4110474-47 MW4	Total/NA	Water	9020B	
LCS 490-211273/4	Lab Control Sample	Total/NA	Water	9020B	
LCSD 490-211273/5	Lab Control Sample Dup	Total/NA	Water	9020B	
MB 490-211273/6	Method Blank	Total/NA	Water	9020B	

Analysis Batch: 211326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39031-A-7 MS	Matrix Spike	Total/NA	Water	9020B	
490-66347-1	4110474-42 MW14	Total/NA	Water	9020B	
490-66347-3	4110474-44 MW16D	Total/NA	Water	9020B	
490-66347-5	4110474-46 MW16S	Total/NA	Water	9020B	
490-66347-7	4110474-48 MW18	Total/NA	Water	9020B	
LCS 490-211326/5	Lab Control Sample	Total/NA	Water	9020B	
MB 490-211326/6	Method Blank	Total/NA	Water	9020B	

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Client Sample ID: 4110474-42 MW14 — Lab Sample ID: 490-66347-1

Date Collected: 11/11/14 09:07 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/05/14 14:50	JAB	TAL NSH

Client Sample ID: 4110474-43 MW6 — Lab Sample ID: 490-66347-2

Date Collected: 11/11/14 10:52 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211273	12/05/14 07:46	JAB	TAL NSH

Client Sample ID: 4110474-44 MW16D — Lab Sample ID: 490-66347-3

Date Collected: 11/11/14 13:14 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/05/14 14:50	JAB	TAL NSH

Client Sample ID: 4110474-45 MW15 — Lab Sample ID: 490-66347-4

Date Collected: 11/11/14 14:58 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211273	12/06/14 08:07	JAB	TAL NSH

Client Sample ID: 4110474-46 MW16S — Lab Sample ID: 490-66347-5

Date Collected: 11/11/14 15:55 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/06/14 12:46	JAB	TAL NSH

Client Sample ID: 4110474-47 MW4 — Lab Sample ID: 490-66347-6

Date Collected: 11/11/14 17:19 — **Matrix: Water**
Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211273	12/06/14 08:07	JAB	TAL NSH

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Client Sample ID: 4110474-48 MW18

Lab Sample ID: 490-66347-7

Date Collected: 11/12/14 10:04

Matrix: Water

Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/06/14 12:46	JAB	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Method	Method Description	Protocol	Laboratory
9020B	Organic Halides, Total (TOX)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110474

TestAmerica Job ID: 490-66347-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-14 *

* Certification renewal pending - certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-66347 Chain of Custody

Cooler Received/Opened On : 11/14/2014 @ 0840

1. Tracking # 7786 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 18290455

2. Temperature of rep. sample or temp blank when opened: 0.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES ...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial)

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) AJH

I certify that I attached a label with the unique LIMS number to each container (intial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER _____

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Rogers and Callcott

Address: _____

Report To: Susan Gunter

Email Address: _____

Telephone #: _____

PO #: _____ Project #: _____

Parameter(s) ↓								
Total Number of Containers	N							Filtered (Yes/No)
	Y							Cooled (Yes/No)
	G							Container Type (Plastic/Glass)
	250							Container Volume (mL)
	G							Sample Type (Grab/Composite)
	GW							Sample Source (WW, GW, DW, SW, S, Other)
	B							
	TOX							

Preservation Code(s)
A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) ↓	TOX	COMMENTS
4110479-42	11/11	0907	MW14	1		1	NC Samples
-43	11/11	1052	MW6	1		1	
-44	11/11	1314	MW16D	1		1	Sub to Test America
-45	11/11	1458	MW15	1		1	
-46	11/11	1555	MW16S	1		1	
-47	11/11	1719	MW4	1		1	
-48	11/12	1004	MW18	1		1	

Loc: 490
66347

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	11/13/14 1600	2.	11/14/14 8:40
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample
At time of collection _____ °C
At time of lab receipt 0.0 °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other _____

Form Revised July, 2014 Page _____ of _____

Login Sample Receipt Checklist

Client: Rogers & Callcott Engineers Inc

Job Number: 490-66347-1

Login Number: 66347
List Number: 1
Creator: Huskey, Adam

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☒ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW 14

Date: 11/10/14 Field Personnel: AJC

Site Name/Location: Evergreen Packaging Weather Conditions/~Temp: Sunny / 63 °F Page 1 of ____

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☒ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ ____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 25.51 @ 1314
Total Depth of Well (b): 35.22
Length of Water Column in Well (b-a): 9.71
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: N/A

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	1.6	
3 Casing Vol	4.8	3332 mL

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / ____
Well Tag? Okay / No
Well Integrity Satisfactory? Okay / ____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
~~11/10/14~~ 11/11/14	0813	-	167	25.51	0.0	9.09	8.1	110.5	N/A	N/A	1	24.5	
	0818	1	167	25.63	833	5.93	9.4	133.3			1	33.7	
	0823	2	167	25.66	1666	5.77	9.9	103.2			1	26.6	
	0828	3	167	25.68	2499	5.71	10.0	102.4			1	16.0	
	0833	4	167	25.70	3332	5.71	9.9	102.3			1	9.91	
		5											
		6											
		7											

11/11/14

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: clear Precipitate: none Fe^{+2} mg/L= N/A

Sample Collection Time: Metals 0834 Cl, Fl, TDS, NO2, SO4 0837 phenols 0854 TOC 0901
NO3 0904 TOX 0907

Comments:

Revised 1-1

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW6

Date: 11/1/14 Field Personnel: AL

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 36 °F Page ___ of ___

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☒ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 13.78 @ 1033
Total Depth of Well (b): 20.64
Length of Water Column in Well (b-a): 6.86
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: N/A

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	1.1	
3 Casing Vol	3.3	3.3

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / Well buried
Well Tag? Okay / No
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/1/14	1038	-	0.3	13.78	0.0	6.06	15.1	773.4	N/A	N/A	1	7.68	
	1042	1	0.3	14.84	1.1	5.80	15.4	757.1			1	<5.0	
	1046	2	0.3	15.24	2.2	5.79	15.5	767.6			1	<5.0	
	1050	3	0.3	15.32	3.3	5.80	15.2	768.9			1	<5.0	
		4											
		5											
		6											
		7											

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= N/A

Sample Collection Time: 1052

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☒ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW16D

Date: 11/11/14 Field Personnel: GTC

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 54 °F Page____ of____

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☒ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 60.89 @ 1226
Total Depth of Well (b): 110.07
Length of Water Column in Well (b-a): 49.18
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: N/A

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	32.1	
3 Casing Vol	96.3	2499 ml

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / No
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/11/14	1232	-	167	60.89	0.0	7.08	18.3	1687	N/A	N/A	1	67.7	
	1237	1	167	60.97	833	7.03	16.7	1615			1	16.6	
	1242	not stabilizing 2	167	61.04	1666	7.03	16.7	1646			1	7.88	
	1247	3	167	61.06	2499	7.03	16.4	1629			1	< 5.0	
		4											
		5											
		6											
		7											

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= N/A

Sample Collection Time: Metals 1248 Cl, F, TDS, NO2, SO4 1252 Phenol 1303 TOC 1309
NO3 1311 TOX 1314

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☒ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW 15

Date: 11/11/14 Field Personnel: MJC

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 66 °F Page ___ of ___

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☒ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 27.61 @ 1351
Total Depth of Well (b): 43.73
Length of Water Column in Well (b-a): 16.12
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: N/A

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	2.6	
3 Casing Vol	7.8	7500 mL

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: ~~PVC~~ / Steel / Teflon
Steel Protective Casing? ~~Yes~~ / No
Bollards? ~~Yes~~ / No
Flush Mount? Yes / ~~No~~
Well Locked? Yes / ~~No~~
Well Pad Condition? ~~Okay~~ / _____
Well Tag? Okay / No
Well Integrity Satisfactory? Okay / Lid broken
Vegetation: Overgrown/ Moderate/ ~~Light~~/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (~~ml/m~~)	Water Level (feet)	Water Volume Removed (gal) or (~~ml~~)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/11/14	1358	-	250	27.61	0.0	7.38	16.7	57.86	N/A	N/A	1	< 5.0	
	1403	1	250	27.69	1250	6.74	15.8	62.79			1	< 5.0	
	1408	2	250	27.71	2500	6.53	14.7	54.25			1	< 5.0	
	1413	3	250	27.74	3750	6.38	14.5	54.74			1	< 5.0	
	1418	4	250	27.75	5000	6.30	14.4	54.72			1	< 5.0	
	1423	5	250	27.77	6250	6.26	14.3	54.58			1	< 5.0	
	1428	6	250	27.79	7500	6.29	14.4	54.57			1	< 5.0	
		7						11/11/14					

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= N/A

Sample Collection Time: Metals 1429 Cl, Fl, TDS, NO2, SO4 1431 pH 1446 TOC 1453
NO3 1456 TOX 1458

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☒ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW16S

Date: 11/11/14 Field Personnel: AJS

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny 170 °F Page ___ of ___

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☒ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ ___	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 53.84 @ 1506
Total Depth of Well (b): 70.37
Length of Water Column in Well (b-a): 16.53
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: N/A

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	10.8	
3 Casing Vol	32.4	2499 mL

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / ___
Well Tag? Okay / No
Well Integrity Satisfactory? Okay / Lid broken
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/11/14	1512	-	167	53.84	0.0	6.61	18.4	2473	N/A	N/A	1	5.13	
	1517	1	167	53.96	833	6.62	16.9	3901			2	<5.0	
	1522	2	167	54.03	1666	6.64	17.0	3807			2	<5.0	
	1527	3	167	54.07	2499	6.63	16.8	3793			2	<5.0	
		4											
		5											
		6											
		7											

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= N/A

Sample Collection Time: metals 1528 Cl, F, TDS, NO2, SO4, 1532 phenol 1543 TOC 1549
NO3 1553 TOX 1555

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW4

Date: 11/11/14 Field Personnel: AJC

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 72 °F Page ___ of ___

Method of Well Evacuation or Sample Collection

Pump
- ☐ Grundfos
- ☒ Submersible
- ☐ Peristaltic
- ☐ Bladder
- ☐ Waterra
- ☐ Continuous (Recovery Well)
- ☐ _____

Bailer
- ☐ Non Disposable Teflon
- ☐ Disposable Teflon
- ☐ Disposable Poly
- ☐ Dedicated Teflon

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 59.50 @ 1643
Total Depth of Well (b): 83.81
Length of Water Column in Well (b-a): 24.31
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: N/A

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	4.0	
3 Casing Vol	12.0	20.0

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/11/14	1651	-	0.8	59.50	0.0	7.35	18.2	926.7	N/A	N/A	1	18.1	
	1656	1	0.8	66.71	4.0	6.51	15.3	1000			1	5.49	
	1701	2	0.8	67.73	8.0	6.50	15.0	1165			1	<5.0	
	1706	3	0.8	68.32	12.0	6.50	15.0	1345			1	<5.0	
	1712	4	0.7	69.36	16.0	6.52	14.9	1442			1	<5.0	
	1718	5	0.7	71.03	20.0	6.53	15.0	1457			1	<5.0	
		6						CTC					
		7											

11/11/14

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= N/A

Sample Collection Time: 1719

Comments: Pump depth @ 79.00 FT

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☐ Purging by Volume
☐ Low Flow
☒ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW 18

Date: 11/12/14 Field Personnel: MJC

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 41 °F Page ___ of ___

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☒ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 75.87 @ 0833
Total Depth of Well (b): 112.49
Length of Water Column in Well (b-a): 36.62
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: N/A

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	23.9	
3 Casing Vol	71.7	3000 mL

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / No
Well Integrity Satisfactory? Okay / Bad Broken
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/12/14	0856	-	150	75.87	0.0	6.17	12.2	1278	N/A	N/A	1	37.3	
	0901	1	150	75.93	750	6.55	12.9	1280			1	10.6	
	0906	2	150	76.01	1500	6.71	13.3	1276			1	< 5.0	
	0911	3	150	76.04	2250	6.76	13.5	1276			1	< 5.0	
	0916	4	150	76.07	3000	6.78	13.7	1273			1	< 5.0	
		5											
		6											
		7											

GC 11/12/14

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= N/A

Sample Collection Time: Metals 0918 Cl, Fl, TDS, NO_2, SO_4 0923 phenol 0944 TOC 0958
NO_3 1001 TOX 1004

Comments:

Revised 1-10-13

Rogers and Callcott Environmental

Field Meter Calibration Record

Client: Evergreen Packaging **Date:** 11/10/14

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion Star A325 SN: G04166 Probe: SQ1 - 11813

Time: 0839 Analyst: MJC Cell Constant 0.478

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
P403994	9.83		9.597	23.3
P404453	100.4		100.6	23.4
P403995	999		1000	23.3
P404447	SSS conc:	447	449.1	23.3

Temperature compensation for pH / conductivity meter : -0.1

pH Calibration - EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SQ1 - 10463

Time: 0823 Analyst: MJC Slope: 99.4

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
P404588	4.0		4.01
P405394	7.0		7.02
P404841	10.0		10.05
P403457	SSS conc:	4.0	4.01

Turbidity Meter Calibration Field Screen Method

Meter Make / Model: Hach 2100P SN: 081200033298 Date of most recent calibration: 11/03/14

Time: 0838 Analyst: MJC

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
P405642	4.46	4.36
P405643	46.0	46.9
P405644	447	448

Reviewed by: _____ Date: _____

Revised 01/21/13

Rogers and Callcott Environmental

Continuing Calibration Verification

Client: Evergreen Packaging **Date:** 11/10/14

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion Star A325 SN: G04166 Probe: SQ1-11813

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1301	MJC	100.4	99.13 @ 18.1 °C
1743	MJC	9.83	9.564 @ 17.8 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SQ1-10463

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1259	MJC	7.0	7.02
1741	MJC	4.0	4.03

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1259	MJC	46.0	45.1
1741	MJC	4.46	4.41

Field Duplicate

Well ID: MW1A

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1416	MJC	38.01	5.99	65.0	15.0

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Revised 01/21/13

Rogers and Callcott Environmental

Field Meter Calibration Record

Client: Evergreen Packaging **Date:** 11/11/14

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion Star A325 SN: G04166 Probe: SQ1-11813

Time: 0810 Analyst: RJC Cell Constant 0.473

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	@ Temperature, °C
P403994	9.83		9.631	22.1
P404453	100.4		100.1	22.0
P403995	999		101.1	22.1
P404447	SSS conc:	447	448.8	22.1

Temperature compensation for pH / conductivity meter : -0.1

pH Calibration - EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SQ1-10463

Time: 0801 Analyst: RJC Slope: 99.1

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
P405388	4.0		4.03
P405394	7.0		7.06
P404841	10.0		10.04
P403457	SSS conc:	4.0	4.04

Turbidity Meter Calibration - Field Screen Method

Meter Make / Model: Hach 2100P SN: 0812000033298 Date of most recent calibration: 11/03/14

Time: 0801 Analyst: RJC

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
P405642	4.46	4.38
P405643	46.0	45.5
P405644	447	446

Reviewed: Date:

Re 01/21/13

Rogers and Callcott Environmental

Continuing Calibration Verification

Client: Evergreen Packaging **Date:** 11/11/14

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion Star A325 SN: G04166 Probe: SQI -11813

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1223	GTc	100.4	103.4 @ 14.7 °C
1738	GJc	999	1011 @ 22.6 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SQI -10463

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1219	GJc	7.0	7.06
1736	GJc	4.0	4.03

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1219	GJc	46.0	47.3
1736	GJc	4.46	4.41

Field Duplicate

Well ID: MW6

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1051	GJc	769.3	5.80	<5.0	15.1

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Revised 01/21/13

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Evergreen Packaging C/O Mark Lancaster - Rogers and Callcott 175 Main Street Canton, NC 28716	**Project:** **Work Order:** **Received:**	MW and SW 4110475 11/12/2014 15:27

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on November 12, 2014. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

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We strive to provide excellent service to our clients. Please contact Kara Hrkach, your Project Manager, at kara.hrkach@rogersandcallcott.com or (864)-335-4956 if you have any questions about this report.

CC: George Maalouf - Rogers and Callcott

Report Approved By:

Kara Hrkach

Kara Hrkach
Project Manager

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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

Client Evergreen Packaging
C/O Mark Lancaster - Rogers and Callcott
175 Main Street
Canton, NC 28716

Project: MW and SW
Work Order: 4110475
Received: 11/12/2014 15:27

Sample Number	Sample Description	Matrix	Sampled	Type
4110475-01	MW12	Ground Water	11/11/14 08:55	Grab
4110475-02	MW12	Ground Water	11/11/14 09:51	Grab
4110475-03	MW11	Ground Water	11/11/14 10:52	Grab
4110475-04	MW11	Ground Water	11/11/14 12:05	Grab
4110475-05	MW10	Ground Water	11/11/14 11:16	Grab
4110475-06	MW10	Ground Water	11/11/14 11:45	Grab
4110475-07	MW5A	Ground Water	11/11/14 13:40	Grab
4110475-08	MW5A	Ground Water	11/11/14 16:23	Grab
4110475-09	MW8	Ground Water	11/11/14 14:20	Grab
4110475-10	MW8	Ground Water	11/11/14 16:57	Grab
4110475-11	MW2	Ground Water	11/10/14 16:28	Grab
4110475-12	MW2	Ground Water	11/11/14 15:07	Grab
4110475-13	MW3A	Ground Water	11/10/14 16:47	Grab
4110475-14	MW3A	Ground Water	11/11/14 15:45	Grab
4110475-15	MW12	Ground Water	11/11/14 09:53	Grab
4110475-16	MW10	Ground Water	11/11/14 11:46	Grab
4110475-17	MW11	Ground Water	11/11/14 12:06	Grab
4110475-18	MW2	Ground Water	11/11/14 15:08	Grab
4110475-19	MW3A	Ground Water	11/11/14 15:46	Grab
4110475-20	MW5A	Ground Water	11/11/14 16:24	Grab
4110475-21	MW8	Ground Water	11/11/14 16:58	Grab
4110475-22	MW12	Ground Water	11/11/14 09:53	Grab
4110475-23	MW10	Ground Water	11/11/14 11:46	Grab
4110475-24	MW11	Ground Water	11/11/14 12:06	Grab
4110475-25	MW2	Ground Water	11/11/14 15:08	Grab
4110475-26	MW3A	Ground Water	11/11/14 15:46	Grab
4110475-27	MW5A	Ground Water	11/11/14 16:24	Grab

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number	Sample Description	Matrix	Sampled	Type
4110475-28	MW8	Ground Water	11/11/14 16:58	Grab

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Data

Sample Number 4110475-01
Sample Description MW12 collected on 11/11/14 08:55

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**11.50**	0.00	Ft	1.00	11/11/14 08:55	-		CGW	B4K0433

Sample Number 4110475-02
Sample Description MW12 collected on 11/11/14 09:51

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**5.8**	0.1	pH Units	1.00	11/11/14 09:51	EPA 9040C		CGW	B4K0433
Specific Conductance at 25 C	**279**	10.0	umhos/cm	1.00	11/11/14 09:51	EPA 9050A		CGW	B4K0433
Temperature	**14.6**	0.0	°C	1.00	11/11/14 09:51	SM 2550B-2010		CGW	B4K0433
Turbidity (Field)	ND	5.0	NTU	1.00	11/11/14 09:51	Field Screen		CGW	B4K0433

Sample Number 4110475-03
Sample Description MW11 collected on 11/11/14 10:52

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**16.79**	0.00	Ft	1.00	11/11/14 10:52	-		CGW	B4K0433

Sample Number 4110475-04
Sample Description MW11 collected on 11/11/14 12:05

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**5.7**	0.1	pH Units	1.00	11/11/14 12:05	EPA 9040C		CGW	B4K0433
Specific Conductance at 25 C	**59.2**	10.0	umhos/cm	1.00	11/11/14 12:05	EPA 9050A		CGW	B4K0433
Temperature	**15.8**	0.0	°C	1.00	11/11/14 12:05	SM 2550B-2010		CGW	B4K0433
Turbidity (Field)	**15.5**	5.0	NTU	1.00	11/11/14 12:05	Field Screen		CGW	B4K0433

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-05
Sample Description MW10 collected on 11/11/14 11:16

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**30.76**	0.00	Ft	1.00	11/11/14 11:16	-		CGW	B4K0433

Sample Number 4110475-06
Sample Description MW10 collected on 11/11/14 11:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.0**	0.1	pH Units	1.00	11/11/14 11:45	EPA 9040C		CGW	B4K0433
Specific Conductance at 25 C	**34.7**	10.0	umhos/cm	1.00	11/11/14 11:45	EPA 9050A		CGW	B4K0433
Temperature	**14.4**	0.0	°C	1.00	11/11/14 11:45	SM 2550B-2010		CGW	B4K0433
Turbidity (Field)	**8.4**	5.0	NTU	1.00	11/11/14 11:45	Field Screen		CGW	B4K0433

Sample Number 4110475-07
Sample Description MW5A collected on 11/11/14 13:40

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**34.99**	0.00	Ft	1.00	11/11/14 13:40	-		CGW	B4K0433

Sample Number 4110475-08
Sample Description MW5A collected on 11/11/14 16:23

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**5.6**	0.1	pH Units	1.00	11/11/14 16:23	EPA 9040C		CGW	B4K0433
Specific Conductance at 25 C	**669**	10.0	umhos/cm	1.00	11/11/14 16:23	EPA 9050A		CGW	B4K0433
Temperature	**18.8**	0.0	°C	1.00	11/11/14 16:23	SM 2550B-2010		CGW	B4K0433
Turbidity (Field)	**8.0**	5.0	NTU	1.00	11/11/14 16:23	Field Screen		CGW	B4K0433

Sample Number 4110475-09
Sample Description MW8 collected on 11/11/14 14:20

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**9.46**	0.00	Ft	1.00	11/11/14 14:20	-		CGW	B4K0433

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-10
Sample Description MW8 collected on 11/11/14 16:57

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.4**	0.1	pH Units	1.00	11/11/14 16:57	EPA 9040C		CGW	B4K0433
Specific Conductance at 25 C	**81.1**	10.0	umhos/cm	1.00	11/11/14 16:57	EPA 9050A		CGW	B4K0433
Temperature	**16.1**	0.0	°C	1.00	11/11/14 16:57	SM 2550B-2010		CGW	B4K0433
Turbidity (Field)	ND	5.0	NTU	1.00	11/11/14 16:57	Field Screen		CGW	B4K0433

Sample Number 4110475-11
Sample Description MW2 collected on 11/10/14 16:28

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**2.40**	0.00	Ft	1.00	11/10/14 16:28	-		CGW	B4K0433

Sample Number 4110475-12
Sample Description MW2 collected on 11/11/14 15:07

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**10.0**	0.1	pH Units	1.00	11/11/14 15:07	EPA 9040C		CGW	B4K0433
Specific Conductance at 25 C	**7240**	10.0	umhos/cm	1.00	11/11/14 15:07	EPA 9050A		CGW	B4K0433
Temperature	**17.0**	0.0	°C	1.00	11/11/14 15:07	SM 2550B-2010		CGW	B4K0433
Turbidity (Field)	**6.3**	5.0	NTU	1.00	11/11/14 15:07	Field Screen		CGW	B4K0433

Sample Number 4110475-13
Sample Description MW3A collected on 11/10/14 16:47

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**6.21**	0.00	Ft	1.00	11/10/14 16:47	-		CGW	B4K0433

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-14
Sample Description MW3A collected on 11/11/14 15:45

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**7.1**	0.1	pH Units	1.00	11/11/14 15:45	EPA 9040C		CGW	B4K0433
Specific Conductance at 25 C	**1300**	10.0	umhos/cm	1.00	11/11/14 15:45	EPA 9050A		CGW	B4K0433
Temperature	**16.3**	0.0	°C	1.00	11/11/14 15:45	SM 2550B-2010		CGW	B4K0433
Turbidity (Field)	**12.9**	5.0	NTU	1.00	11/11/14 15:45	Field Screen		CGW	B4K0433

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-15
Sample Description MW12 collected on 11/11/14 09:53

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**14.7**	10.0	mg/L	10.0	11/14/14 01:36	EPA 300.0		LJW	B4K0542
Fluoride	ND	0.10	mg/L	1.00	11/14/14 01:14	EPA 300.0		LJW	B4K0541
Nitrate-Nitrite as N	**2.05**	0.10	mg/L	1.00	11/18/14 16:17	SM 4500NO3H-2011		REH	B4K0593
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 16:42	SM 4500NO2B-2011		REH	B4K0415
Sulfate	**48.0**	10.0	mg/L	10.0	11/14/14 01:36	EPA 300.0		LJW	B4K0543
Total Dissolved Solids	**196**	50.0	mg/L	2.00	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 05:31	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:48	EPA 245.1		DER	B4K0432
Arsenic	ND	0.005	mg/L	1.00	11/19/14 13:22	EPA 200.8		DER	B4K0429
Barium	**0.038**	0.010	mg/L	1.00	11/20/14 12:20	EPA 200.7		MEC	B4K0341
Cadmium	ND	0.001	mg/L	1.00	11/19/14 13:22	EPA 200.8		DER	B4K0429
Calcium	**16**	1.0	mg/L	10.0	11/20/14 12:18	EPA 200.7		MEC	B4K0341
Chromium	ND	0.002	mg/L	1.00	11/19/14 13:22	EPA 200.8		DER	B4K0429
Copper	ND	0.005	mg/L	1.00	11/19/14 13:22	EPA 200.8		DER	B4K0429
Iron	**0.18**	0.050	mg/L	1.00	11/20/14 12:20	EPA 200.7		MEC	B4K0341
Lead	ND	0.005	mg/L	1.00	11/19/14 13:22	EPA 200.8		DER	B4K0429
Magnesium	**11**	1.0	mg/L	10.0	11/20/14 12:18	EPA 200.7		MEC	B4K0341
Manganese	**0.006**	0.005	mg/L	1.00	11/19/14 13:22	EPA 200.8		DER	B4K0429
Nickel	ND	0.005	mg/L	1.00	11/19/14 13:22	EPA 200.8		DER	B4K0429
Potassium	**3.1**	0.50	mg/L	1.00	11/20/14 12:20	EPA 200.7		MEC	B4K0341
Selenium	ND	0.005	mg/L	1.00	11/19/14 13:22	EPA 200.8		DER	B4K0429
Silver	ND	0.002	mg/L	1.00	11/18/14 13:27	EPA 200.8		DER	B4K0431
Sodium	**22**	5.0	mg/L	10.0	11/20/14 12:18	EPA 200.7		MEC	B4K0341
Zinc	ND	0.020	mg/L	1.00	11/20/14 12:20	EPA 200.7		MEC	B4K0341

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-16
Sample Description MW10 collected on 11/11/14 11:46

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	ND	1.00	mg/L	1.00	11/13/14 22:40	EPA 300.0	S1	LJW	B4K0542
Fluoride	ND	0.10	mg/L	1.00	11/13/14 22:40	EPA 300.0	S1	LJW	B4K0541
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 16:27	SM 4500NO3H-2011		REH	B4K0594
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 16:47	SM 4500NO2B-2011		REH	B4K0415
Sulfate	**1.50**	1.00	mg/L	1.00	11/13/14 22:40	EPA 300.0		LJW	B4K0543
Total Dissolved Solids	**42.0**	25.0	mg/L	1.00	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 05:43	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:57	EPA 245.1		DER	B4K0432
Arsenic	ND	0.005	mg/L	1.00	11/19/14 13:44	EPA 200.8		DER	B4K0429
Barium	**0.015**	0.010	mg/L	1.00	11/20/14 15:09	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.001	mg/L	1.00	11/19/14 13:44	EPA 200.8		DER	B4K0429
Calcium	**2.3**	0.10	mg/L	1.00	11/20/14 15:09	EPA 200.7		MEC	B4K0428
Chromium	**0.003**	0.002	mg/L	1.00	11/19/14 13:44	EPA 200.8		DER	B4K0429
Copper	ND	0.005	mg/L	1.00	11/19/14 13:44	EPA 200.8		DER	B4K0429
Iron	**0.22**	0.050	mg/L	1.00	11/20/14 15:09	EPA 200.7		MEC	B4K0428
Lead	ND	0.005	mg/L	1.00	11/19/14 13:44	EPA 200.8		DER	B4K0429
Magnesium	**1.8**	0.10	mg/L	1.00	11/20/14 15:09	EPA 200.7		MEC	B4K0428
Manganese	ND	0.005	mg/L	1.00	11/19/14 13:44	EPA 200.8		DER	B4K0429
Nickel	ND	0.005	mg/L	1.00	11/19/14 13:44	EPA 200.8		DER	B4K0429
Potassium	**1.0**	0.50	mg/L	1.00	11/20/14 15:09	EPA 200.7		MEC	B4K0428
Selenium	ND	0.005	mg/L	1.00	11/19/14 13:44	EPA 200.8		DER	B4K0429
Silver	ND	0.002	mg/L	1.00	11/18/14 13:37	EPA 200.8		DER	B4K0431
Sodium	**1.6**	0.50	mg/L	1.00	11/20/14 15:09	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 15:09	EPA 200.7		MEC	B4K0428

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-17
Sample Description MW11 collected on 11/11/14 12:06

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**1.10**	1.00	mg/L	1.00	11/13/14 19:44	EPA 300.0		LJW	B4K0542
Fluoride	ND	0.10	mg/L	1.00	11/13/14 19:44	EPA 300.0		LJW	B4K0541
Nitrate-Nitrite as N	**0.13**	0.10	mg/L	1.00	11/18/14 16:38	SM 4500NO3H-2011		REH	B4K0594
Nitrite as N	ND	0.010	mg/L	1.00	11/12/14 16:50	SM 4500NO2B-2011		REH	B4K0415
Sulfate	**10.9**	2.00	mg/L	2.00	11/13/14 20:06	EPA 300.0		LJW	B4K0543
Total Dissolved Solids	**64.0**	25.0	mg/L	1.00	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 05:56	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 11:40	EPA 245.1		DER	B4K0373
Arsenic	ND	0.005	mg/L	1.00	11/19/14 13:11	EPA 200.8		DER	B4K0370
Barium	**0.027**	0.010	mg/L	1.00	11/20/14 15:24	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.001	mg/L	1.00	11/19/14 13:11	EPA 200.8		DER	B4K0370
Calcium	**2.4**	0.10	mg/L	1.00	11/20/14 15:24	EPA 200.7		MEC	B4K0428
Chromium	**0.008**	0.002	mg/L	1.00	11/19/14 13:11	EPA 200.8		DER	B4K0370
Copper	ND	0.005	mg/L	1.00	11/19/14 13:11	EPA 200.8		DER	B4K0370
Iron	**0.39**	0.050	mg/L	1.00	11/20/14 15:24	EPA 200.7		MEC	B4K0428
Lead	ND	0.005	mg/L	1.00	11/19/14 13:11	EPA 200.8		DER	B4K0370
Magnesium	**2.9**	0.10	mg/L	1.00	11/20/14 15:24	EPA 200.7		MEC	B4K0428
Manganese	**0.009**	0.005	mg/L	1.00	11/19/14 13:11	EPA 200.8		DER	B4K0370
Nickel	ND	0.005	mg/L	1.00	11/19/14 13:11	EPA 200.8		DER	B4K0370
Potassium	**2.4**	0.50	mg/L	1.00	11/20/14 15:24	EPA 200.7		MEC	B4K0428
Selenium	ND	0.005	mg/L	1.00	11/19/14 13:11	EPA 200.8		DER	B4K0370
Silver	ND	0.002	mg/L	1.00	11/18/14 13:14	EPA 200.8		DER	B4K0371
Sodium	**1.8**	0.50	mg/L	1.00	11/20/14 15:24	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 15:24	EPA 200.7		MEC	B4K0428

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-18
Sample Description MW2 collected on 11/11/14 15:08

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**163**	50.0	mg/L	50.0	11/14/14 06:01	EPA 300.0		LJW	B4K0542
Fluoride	**6.74**	1.00	mg/L	10.0	11/14/14 05:39	EPA 300.0		LJW	B4K0541
Nitrate-Nitrite as N	ND	0.50	mg/L	5.00	11/18/14 16:38	SM 4500NO3H-2011	X	REH	B4K0594
Nitrite as N	ND	0.100	mg/L	10.0	11/13/14 10:55	SM 4500NO2B-2011	X	REH	B4K0482
Sulfate	**65.1**	10.0	mg/L	10.0	11/14/14 05:39	EPA 300.0		LJW	B4K0543
Total Dissolved Solids	**5390**	250	mg/L	10.0	11/14/14 11:15	SM 2540C-2011		JRA	B4K0535
Total Organic Carbon	**141**	50.0	mg/L	50.0	11/14/14 06:11	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	**0.009**	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00040	mg/L	2.00	11/21/14 12:10	EPA 245.1	X	DER	B4K0432
Arsenic	**0.020**	0.010	mg/L	2.00	11/19/14 16:11	EPA 200.8		DER	B4K0429
Barium	ND	0.010	mg/L	1.00	11/20/14 16:13	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.002	mg/L	2.00	11/19/14 16:11	EPA 200.8	X	DER	B4K0429
Calcium	**2.5**	0.10	mg/L	1.00	11/20/14 16:13	EPA 200.7		MEC	B4K0428
Chromium	**0.013**	0.004	mg/L	2.00	11/19/14 16:11	EPA 200.8		DER	B4K0429
Copper	ND	0.010	mg/L	2.00	11/19/14 16:11	EPA 200.8	X	DER	B4K0429
Iron	**2.2**	0.050	mg/L	1.00	11/20/14 16:13	EPA 200.7		MEC	B4K0428
Lead	ND	0.010	mg/L	2.00	11/19/14 16:11	EPA 200.8	X	DER	B4K0429
Magnesium	**0.13**	0.10	mg/L	1.00	11/20/14 16:13	EPA 200.7		MEC	B4K0428
Manganese	**0.037**	0.010	mg/L	2.00	11/19/14 16:11	EPA 200.8		DER	B4K0429
Nickel	**0.114**	0.010	mg/L	2.00	11/19/14 16:11	EPA 200.8		DER	B4K0429
Potassium	**48**	0.50	mg/L	1.00	11/20/14 16:13	EPA 200.7		MEC	B4K0428
Selenium	ND	0.010	mg/L	2.00	11/19/14 16:11	EPA 200.8	X	DER	B4K0429
Silver	ND	0.004	mg/L	2.00	11/18/14 14:47	EPA 200.8	X	DER	B4K0431
Sodium	**2000**	500	mg/L	1,000	11/20/14 16:08	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 16:13	EPA 200.7		MEC	B4K0428

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-19
Sample Description MW3A collected on 11/11/14 15:46

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**39.2**	10.0	mg/L	10.0	11/19/14 03:50	EPA 300.0		LJW	B4K0674
Fluoride	ND	0.10	mg/L	1.00	11/19/14 03:28	EPA 300.0		LJW	B4K0673
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 16:38	SM 4500NO3H-2011		REH	B4K0594
Nitrite as N	ND	0.050	mg/L	5.00	11/13/14 11:46	SM 4500NO2B-2011	X	REH	B4K0482
Sulfate	**328**	100	mg/L	100	11/19/14 04:12	EPA 300.0		LJW	B4K0675
Total Dissolved Solids	**848**	100	mg/L	4.00	11/17/14 16:30	SM 2540C-2011		JRA	B4K0596
Total Organic Carbon	**1.24**	1.00	mg/L	1.00	11/14/14 07:19	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	**0.006**	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 12:13	EPA 245.1		DER	B4K0432
Arsenic	ND	0.005	mg/L	1.00	11/19/14 13:59	EPA 200.8		DER	B4K0429
Barium	**0.066**	0.010	mg/L	1.00	11/20/14 15:49	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.001	mg/L	1.00	11/19/14 13:59	EPA 200.8		DER	B4K0429
Calcium	**170**	5.0	mg/L	50.0	11/20/14 15:44	EPA 200.7		MEC	B4K0428
Chromium	ND	0.002	mg/L	1.00	11/19/14 13:59	EPA 200.8		DER	B4K0429
Copper	ND	0.005	mg/L	1.00	11/19/14 13:59	EPA 200.8		DER	B4K0429
Iron	**38**	1.2	mg/L	25.0	11/20/14 15:47	EPA 200.7		MEC	B4K0428
Lead	ND	0.005	mg/L	1.00	11/19/14 13:59	EPA 200.8		DER	B4K0429
Magnesium	**41**	2.5	mg/L	25.0	11/20/14 15:47	EPA 200.7		MEC	B4K0428
Manganese	**0.625**	0.005	mg/L	1.00	11/19/14 13:59	EPA 200.8		DER	B4K0429
Nickel	ND	0.005	mg/L	1.00	11/19/14 13:59	EPA 200.8		DER	B4K0429
Potassium	**12**	0.50	mg/L	1.00	11/20/14 15:49	EPA 200.7		MEC	B4K0428
Selenium	ND	0.005	mg/L	1.00	11/19/14 13:59	EPA 200.8		DER	B4K0429
Silver	ND	0.002	mg/L	1.00	11/18/14 14:52	EPA 200.8		DER	B4K0431
Sodium	**49**	12	mg/L	25.0	11/20/14 15:47	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 15:49	EPA 200.7		MEC	B4K0428

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-20
Sample Description MW5A collected on 11/11/14 16:24

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**162**	20.0	mg/L	20.0	11/18/14 23:47	EPA 300.0		LJW	B4K0674
Fluoride	ND	0.10	mg/L	1.00	11/18/14 23:03	EPA 300.0		LJW	B4K0673
Nitrate-Nitrite as N	**1.11**	0.10	mg/L	1.00	11/18/14 16:38	SM 4500NO3H-2011		REH	B4K0594
Nitrite as N	ND	0.010	mg/L	1.00	11/13/14 11:00	SM 4500NO2B-2011		REH	B4K0482
Sulfate	**22.8**	5.00	mg/L	5.00	11/18/14 23:25	EPA 300.0		LJW	B4K0675
Total Dissolved Solids	**410**	50.0	mg/L	2.00	11/17/14 16:30	SM 2540C-2011		JRA	B4K0596
Total Organic Carbon	**1.34**	1.00	mg/L	1.00	11/14/14 07:33	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 12:16	EPA 245.1		DER	B4K0432
Arsenic	ND	0.005	mg/L	1.00	11/19/14 14:07	EPA 200.8		DER	B4K0429
Barium	**0.20**	0.010	mg/L	1.00	11/20/14 15:37	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.001	mg/L	1.00	11/19/14 14:07	EPA 200.8		DER	B4K0429
Calcium	**40**	1.0	mg/L	10.0	11/20/14 15:32	EPA 200.7		MEC	B4K0428
Chromium	ND	0.002	mg/L	1.00	11/19/14 14:07	EPA 200.8		DER	B4K0429
Copper	ND	0.005	mg/L	1.00	11/19/14 14:07	EPA 200.8		DER	B4K0429
Iron	**1.5**	0.050	mg/L	1.00	11/20/14 15:37	EPA 200.7		MEC	B4K0428
Lead	ND	0.005	mg/L	1.00	11/19/14 14:07	EPA 200.8		DER	B4K0429
Magnesium	**31**	1.0	mg/L	10.0	11/20/14 15:32	EPA 200.7		MEC	B4K0428
Manganese	**9.79**	0.100	mg/L	20.0	11/19/14 14:03	EPA 200.8		DER	B4K0429
Nickel	**0.010**	0.005	mg/L	1.00	11/19/14 14:07	EPA 200.8		DER	B4K0429
Potassium	**5.2**	0.50	mg/L	1.00	11/20/14 15:37	EPA 200.7		MEC	B4K0428
Selenium	ND	0.005	mg/L	1.00	11/19/14 14:07	EPA 200.8		DER	B4K0429
Silver	ND	0.002	mg/L	1.00	11/18/14 13:47	EPA 200.8		DER	B4K0431
Sodium	**32**	5.0	mg/L	10.0	11/20/14 15:32	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 15:37	EPA 200.7		MEC	B4K0428

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Number 4110475-21
Sample Description MW8 collected on 11/11/14 16:58

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**1.14**	1.00	mg/L	1.00	11/13/14 20:28	EPA 300.0		LJW	B4K0542
Fluoride	ND	0.10	mg/L	1.00	11/13/14 20:28	EPA 300.0		LJW	B4K0541
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 16:49	SM 4500NO3H-2011		REH	B4K0594
Nitrite as N	ND	0.010	mg/L	1.00	11/13/14 11:00	SM 4500NO2B-2011		REH	B4K0482
Sulfate	**13.4**	2.00	mg/L	2.00	11/13/14 20:50	EPA 300.0		LJW	B4K0543
Total Dissolved Solids	**46.0**	25.0	mg/L	1.00	11/17/14 16:30	SM 2540C-2011		JRA	B4K0596
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 07:46	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	**0.005**	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 12:19	EPA 245.1		DER	B4K0432
Arsenic	ND	0.005	mg/L	1.00	11/19/14 14:15	EPA 200.8		DER	B4K0429
Barium	**0.013**	0.010	mg/L	1.00	11/20/14 15:14	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.001	mg/L	1.00	11/19/14 14:15	EPA 200.8		DER	B4K0429
Calcium	**5.9**	0.50	mg/L	5.00	11/20/14 15:12	EPA 200.7		MEC	B4K0428
Chromium	ND	0.002	mg/L	1.00	11/19/14 14:15	EPA 200.8		DER	B4K0429
Copper	ND	0.005	mg/L	1.00	11/19/14 14:15	EPA 200.8		DER	B4K0429
Iron	**2.0**	0.050	mg/L	1.00	11/20/14 15:14	EPA 200.7		MEC	B4K0428
Lead	ND	0.005	mg/L	1.00	11/19/14 14:15	EPA 200.8		DER	B4K0429
Magnesium	**1.8**	0.10	mg/L	1.00	11/20/14 15:14	EPA 200.7		MEC	B4K0428
Manganese	**0.032**	0.005	mg/L	1.00	11/19/14 14:15	EPA 200.8		DER	B4K0429
Nickel	ND	0.005	mg/L	1.00	11/19/14 14:15	EPA 200.8		DER	B4K0429
Potassium	**2.4**	0.50	mg/L	1.00	11/20/14 15:14	EPA 200.7		MEC	B4K0428
Selenium	ND	0.005	mg/L	1.00	11/19/14 14:15	EPA 200.8		DER	B4K0429
Silver	ND	0.002	mg/L	1.00	11/18/14 13:55	EPA 200.8		DER	B4K0431
Sodium	**2.9**	0.50	mg/L	1.00	11/20/14 15:14	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 15:14	EPA 200.7		MEC	B4K0428

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Subcontracted Analyses

Sample Number 4110475-22
Sample Description MW12 collected on 11/11/14 09:53

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110475-23
Sample Description MW10 collected on 11/11/14 11:46

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110475-24
Sample Description MW11 collected on 11/11/14 12:06

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110475-25
Sample Description MW2 collected on 11/11/14 15:08

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

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Sample Number 4110475-26
Sample Description MW3A collected on 11/11/14 15:46

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110475-27
Sample Description MW5A collected on 11/11/14 16:24

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110475-28
Sample Description MW8 collected on 11/11/14 16:58

Parameter

Subcontract TOH

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0415 - General Prep - Wet Chem										
Blank (B4K0415-BLK1)										
Nitrite as N	ND	0.010	mg/L							
LCS (B4K0415-BS1)										
Nitrite as N	0.487	0.010	mg/L	0.500		97	85-115			
Matrix Spike (B4K0415-MS1)	**Source: 4110475-15**									
Nitrite as N	0.246	0.010	mg/L	0.250	ND	98	80-120			
Matrix Spike Dup (B4K0415-MSD1)	**Source: 4110475-15**									
Nitrite as N	0.241	0.010	mg/L	0.250	ND	96	80-120	2	20	
Batch B4K0449 - General Prep - TOC										
Blank (B4K0449-BLK1)										
Total Organic Carbon	ND	1.00	mg/L							
Blank (B4K0449-BLK2)										
Total Organic Carbon	ND	1.00	mg/L							
LCS (B4K0449-BS1)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
LCS (B4K0449-BS2)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
Matrix Spike (B4K0449-MS1)	**Source: 4110279-01**									
Total Organic Carbon	3.58	1.00	mg/L	3.75	ND	91	80-120			
Matrix Spike (B4K0449-MS2)	**Source: 4110360-10**									
Total Organic Carbon	4.78	1.00	mg/L	3.75	1.23	95	80-120			
Matrix Spike (B4K0449-MS3)	**Source: 4110361-08**									
Total Organic Carbon	5.18	1.00	mg/L	3.75	1.69	93	80-120			

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Evergreen Packaging		Project:	MW and SW
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Canton, NC 28716		Reported:	12/15/14 14:35

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0449 - General Prep - TOC										
Matrix Spike (B4K0449-MS4)	**Source: 4110474-36**									
Total Organic Carbon	7.94	1.00	mg/L	3.75	4.57	90	80-120			
Matrix Spike Dup (B4K0449-MSD1)	**Source: 4110279-01**									
Total Organic Carbon	3.61	1.00	mg/L	3.75	ND	92	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD2)	**Source: 4110360-10**									
Total Organic Carbon	4.83	1.00	mg/L	3.75	1.23	96	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD3)	**Source: 4110361-08**									
Total Organic Carbon	5.22	1.00	mg/L	3.75	1.69	94	80-120	0.7	20	
Matrix Spike Dup (B4K0449-MSD4)	**Source: 4110474-36**									
Total Organic Carbon	8.00	1.00	mg/L	3.75	4.57	91	80-120	0.7	20	
Batch B4K0482 - General Prep - Wet Chem										
Blank (B4K0482-BLK1)										
Nitrite as N	ND	0.010	mg/L							
LCS (B4K0482-BS1)										
Nitrite as N	0.499	0.010	mg/L	0.500		100	85-115			
Matrix Spike (B4K0482-MS1)	**Source: 4110474-27**									
Nitrite as N	0.258	0.010	mg/L	0.250	ND	103	80-120			
Matrix Spike Dup (B4K0482-MSD1)	**Source: 4110474-27**									
Nitrite as N	0.254	0.010	mg/L	0.250	ND	102	80-120	1	20	
Batch B4K0535 - General Prep - Solids										
Blank (B4K0535-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							

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General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0535 - General Prep - Solids										
Duplicate (B4K0535-DUP1)	**Source: 4110360-16**									
Total Dissolved Solids	16400	250	mg/L		16400			0.2	15	
Duplicate (B4K0535-DUP2)	**Source: 4110361-09**									
Total Dissolved Solids	1140	250	mg/L		1060			7	15	
Batch B4K0541 - General Prep - IC										
Blank (B4K0541-BLK1)										
Fluoride	ND	0.10	mg/L							
LCS (B4K0541-BS1)										
Fluoride	0.50	0.10	mg/L	0.500		99	90-110			
Duplicate (B4K0541-DUP1)	**Source: 4110361-09**									
Fluoride	0.43	0.10	mg/L		0.45			6	20	
Duplicate (B4K0541-DUP2)	**Source: 4110474-27**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0541-DUP3)	**Source: 4110475-16**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0541-DUP4)	**Source: 4110454-01**									
Fluoride	ND	0.10	mg/L		ND				20	
Matrix Spike (B4K0541-MS1)	**Source: 4110361-09**									
Fluoride	0.73	0.10	mg/L	0.300	0.45	92	90-110			
Matrix Spike (B4K0541-MS2)	**Source: 4110474-27**									
Fluoride	0.29	0.10	mg/L	0.300	ND	98	90-110			
Matrix Spike (B4K0541-MS3)	**Source: 4110475-16**									
Fluoride	0.31	0.10	mg/L	0.300	ND	87	90-110			S1

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0541 - General Prep - IC										
Matrix Spike (B4K0541-MS4)	**Source: 4110454-01**									
Fluoride	0.30	0.10	mg/L	0.300	ND	98	90-110			
Batch B4K0542 - General Prep - IC										
Blank (B4K0542-BLK1)										
Chloride	ND	1.00	mg/L							
LCS (B4K0542-BS1)										
Chloride	4.98	1.00	mg/L	5.00		100	90-110			
Duplicate (B4K0542-DUP1)	**Source: 4110474-27**									
Chloride	ND	1.00	mg/L		ND				20	
Duplicate (B4K0542-DUP2)	**Source: 4110475-16**									
Chloride	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0542-MS1)	**Source: 4110474-27**									
Chloride	3.23	1.00	mg/L	3.00	ND	75	90-110			S1
Matrix Spike (B4K0542-MS2)	**Source: 4110475-16**									
Chloride	3.15	1.00	mg/L	3.00	ND	79	90-110			S1
Batch B4K0543 - General Prep - IC										
Blank (B4K0543-BLK1)										
Sulfate	ND	1.00	mg/L							
LCS (B4K0543-BS1)										
Sulfate	4.84	1.00	mg/L	5.00		97	90-110			
Duplicate (B4K0543-DUP1)	**Source: 4110474-27**									
Sulfate	ND	1.00	mg/L		ND				20	

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Canton, NC 28716		Reported:	12/15/14 14:35

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0543 - General Prep - IC										
Duplicate (B4K0543-DUP2)	**Source: 4110475-16**									
Sulfate	1.48	1.00	mg/L		1.50			1	20	
Matrix Spike (B4K0543-MS1)	**Source: 4110474-27**									
Sulfate	3.40	1.00	mg/L	3.00	ND	89	90-110			S1
Matrix Spike (B4K0543-MS2)	**Source: 4110475-16**									
Sulfate	4.25	1.00	mg/L	3.00	1.50	92	90-110			
Batch B4K0593 - General Prep - Wet Chem KL										
Blank (B4K0593-BLK1)										
Nitrate-Nitrite as N	ND	0.10	mg/L							
LCS (B4K0593-BS1)										
Nitrate-Nitrite as N	1.95	0.10	mg/L	2.00		98	85-115			
Matrix Spike (B4K0593-MS1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.78	0.10	mg/L	1.25	0.51	102	75-125			
Matrix Spike Dup (B4K0593-MSD1)	**Source: 4110360-11**									
Nitrate-Nitrite as N	1.76	0.10	mg/L	1.25	0.51	101	75-125	0.8	20	
Batch B4K0594 - General Prep - Wet Chem KL										
Blank (B4K0594-BLK1)										
Nitrate-Nitrite as N	ND	0.10	mg/L							
LCS (B4K0594-BS1)										
Nitrate-Nitrite as N	1.94	0.10	mg/L	2.00		97	85-115			
Matrix Spike (B4K0594-MS1)	**Source: 4110475-16**									
Nitrate-Nitrite as N	1.21	0.10	mg/L	1.25	ND	90	75-125			

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Evergreen Packaging		Project:	MW and SW
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General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0594 - General Prep - Wet Chem KL										
Matrix Spike Dup (B4K0594-MSD1)	**Source: 4110475-16**									
Nitrate-Nitrite as N	1.21	0.10	mg/L	1.25	ND	89	75-125	0.5	20	
Batch B4K0596 - General Prep - Solids										
Blank (B4K0596-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							
Duplicate (B4K0596-DUP1)	**Source: 4110473-04**									
Total Dissolved Solids	3310	250	mg/L		3410			3	15	
Batch B4K0673 - General Prep - IC										
Blank (B4K0673-BLK1)										
Fluoride	ND	0.10	mg/L							
LCS (B4K0673-BS1)										
Fluoride	0.52	0.10	mg/L	0.500		105	90-110			
Duplicate (B4K0673-DUP1)	**Source: 4110482-08**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0673-DUP2)	**Source: 4110495-03**									
Fluoride	ND	0.10	mg/L		ND				20	
Matrix Spike (B4K0673-MS1)	**Source: 4110482-08**									
Fluoride	0.34	0.10	mg/L	0.300	ND	99	90-110			
Matrix Spike (B4K0673-MS2)	**Source: 4110495-03**									
Fluoride	0.32	0.10	mg/L	0.300	ND	105	90-110			
Batch B4K0674 - General Prep - IC										
Blank (B4K0674-BLK1)										
Chloride	ND	1.00	mg/L							

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0674 - General Prep - IC										
LCS (B4K0674-BS1)										
Chloride	5.02	1.00	mg/L	5.00		100	90-110			
Duplicate (B4K0674-DUP1)	**Source: 4110482-08**									
Chloride	ND	1.00	mg/L		ND				20	
Duplicate (B4K0674-DUP2)	**Source: 4110495-03**									
Chloride	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0674-MS1)	**Source: 4110482-08**									
Chloride	3.25	1.00	mg/L	3.00	ND	83	90-110			S1
Matrix Spike (B4K0674-MS2)	**Source: 4110495-03**									
Chloride	3.34	1.00	mg/L	3.00	ND	83	90-110			S1
Batch B4K0675 - General Prep - IC										
Blank (B4K0675-BLK1)										
Sulfate	ND	1.00	mg/L							
LCS (B4K0675-BS1)										
Sulfate	4.98	1.00	mg/L	5.00		100	90-110			
Duplicate (B4K0675-DUP1)	**Source: 4110482-08**									
Sulfate	2.16	1.00	mg/L		2.23			3	20	
Duplicate (B4K0675-DUP2)	**Source: 4110495-03**									
Sulfate	1.77	1.00	mg/L		1.80			2	20	
Matrix Spike (B4K0675-MS1)	**Source: 4110482-08**									
Sulfate	5.08	1.00	mg/L	3.00	2.23	95	90-110			
Matrix Spike (B4K0675-MS2)	**Source: 4110495-03**									
Sulfate	4.59	1.00	mg/L	3.00	1.80	93	90-110			

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General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0771 - General Prep - Phenol										
Blank (B4K0771-BLK1)										
Total Recoverable Phenols	ND	0.005	mg/L							
LCS (B4K0771-BS1)										
Total Recoverable Phenols	0.0374	0.005	mg/L	0.0400		94	90-110			
Duplicate (B4K0771-DUP1)	**Source: 4110475-15**									
Total Recoverable Phenols	0.0060	0.005	mg/L		ND			46	20	P3
Duplicate (B4K0771-DUP2)	**Source: 4110475-16**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Matrix Spike (B4K0771-MS1)	**Source: 4110475-15**									
Total Recoverable Phenols	0.0380	0.005	mg/L	0.0400	ND	86	75-125			
Matrix Spike (B4K0771-MS2)	**Source: 4110475-16**									
Total Recoverable Phenols	0.0374	0.005	mg/L	0.0400	ND	94	75-125			

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Blank (B4K0341-BLK1)										
Barium	ND	0.010	mg/L							
Calcium	ND	0.10	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.10	mg/L							
Potassium	ND	0.50	mg/L							
Sodium	ND	0.50	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B4K0341-BS1)										
Barium	1.04	0.010	mg/L	1.00		104	85-115			
Calcium	1.04	0.10	mg/L	1.00		104	85-115			
Iron	1.03	0.050	mg/L	1.00		103	85-115			
Magnesium	1.03	0.10	mg/L	1.00		103	85-115			
Potassium	9.53	0.50	mg/L	10.0		95	85-115			
Sodium	1.04	0.50	mg/L	1.00		104	85-115			
Zinc	1.05	0.020	mg/L	1.00		105	85-115			
Duplicate (B4K0341-DUP1)	**Source: 4110360-10**									
Barium	0.03	0.010	mg/L		0.03			0.8	20	
Calcium	4.72	0.10	mg/L		4.58			3	20	
Iron	0.350	0.050	mg/L		0.348			0.4	20	
Magnesium	1.87	0.10	mg/L		1.81			3	20	
Potassium	2.22	0.50	mg/L		2.16			2	20	
Sodium	4.07	0.50	mg/L		3.93			3	20	
Zinc	ND	0.020	mg/L		ND				20	
Duplicate (B4K0341-DUP2)	**Source: 4110474-26**									
Barium	0.04	0.010	mg/L		0.04			3	20	
Calcium	4.66	0.10	mg/L		4.70			0.9	20	
Iron	ND	0.050	mg/L		ND				20	
Magnesium	1.61	0.10	mg/L		1.62			0.03	20	
Potassium	1.31	0.50	mg/L		1.34			2	20	
Sodium	3.10	0.50	mg/L		3.11			0.2	20	
Zinc	ND	0.020	mg/L		ND				20	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0341 - EPA 200.7										
Matrix Spike (B4K0341-MS1)	**Source: 4110360-10**									
Barium	1.09	0.010	mg/L	1.00	0.03	106	70-130			
Calcium	5.77	0.10	mg/L	1.00	4.58	119	70-130			
Iron	1.41	0.050	mg/L	1.00	0.348	106	70-130			
Magnesium	2.92	0.10	mg/L	1.00	1.81	111	70-130			
Potassium	11.9	0.50	mg/L	10.0	2.16	97	70-130			
Sodium	5.03	0.50	mg/L	1.00	3.93	109	70-130			
Zinc	1.08	0.020	mg/L	1.00	ND	107	70-130			
Matrix Spike (B4K0341-MS2)	**Source: 4110474-26**									
Barium	1.08	0.010	mg/L	1.00	0.04	104	70-130			
Calcium	5.65	0.10	mg/L	1.00	4.70	95	70-130			
Iron	1.05	0.050	mg/L	1.00	ND	104	70-130			
Magnesium	2.64	0.10	mg/L	1.00	1.62	103	70-130			
Potassium	10.7	0.50	mg/L	10.0	1.34	94	70-130			
Sodium	4.00	0.50	mg/L	1.00	3.11	89	70-130			
Zinc	1.04	0.020	mg/L	1.00	ND	103	70-130			
Post Spike (B4K0341-PS1)	**Source: 4110360-10**									
Barium	1.05		mg/L	1.00	0.03	102	85-115			
Calcium	5.62		mg/L	1.00	4.58	104	85-115			
Iron	1.37		mg/L	1.00	0.348	102	85-115			
Magnesium	2.82		mg/L	1.00	1.81	101	85-115			
Potassium	11.6		mg/L	10.0	2.16	95	85-115			
Sodium	4.89		mg/L	1.00	3.93	95	85-115			
Zinc	1.02		mg/L	1.00	ND	102	85-115			
Post Spike (B4K0341-PS2)	**Source: 4110474-26**									
Barium	1.08		mg/L	1.00	0.04	104	85-115			
Calcium	5.77		mg/L	1.00	4.70	107	85-115			
Iron	1.05		mg/L	1.00	ND	103	85-115			
Magnesium	2.65		mg/L	1.00	1.62	103	85-115			
Potassium	10.9		mg/L	10.0	1.34	96	85-115			
Sodium	4.26		mg/L	1.00	3.11	115	85-115			
Zinc	1.03		mg/L	1.00	ND	103	85-115			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Blank (B4K0370-BLK1)										
Arsenic	ND	0.005	mg/L							
Cadmium	ND	0.001	mg/L							
Chromium	ND	0.002	mg/L							
Copper	ND	0.005	mg/L							
Lead	ND	0.005	mg/L							
Manganese	ND	0.005	mg/L							
Nickel	ND	0.005	mg/L							
Selenium	ND	0.005	mg/L							
LCS (B4K0370-BS1)										
Arsenic	0.208	0.005	mg/L	0.200		104	85-115			
Cadmium	0.208	0.001	mg/L	0.200		104	85-115			
Chromium	0.201	0.002	mg/L	0.200		100	85-115			
Copper	0.207	0.005	mg/L	0.200		104	85-115			
Lead	0.204	0.005	mg/L	0.200		102	85-115			
Manganese	0.201	0.005	mg/L	0.200		101	85-115			
Nickel	0.206	0.005	mg/L	0.200		103	85-115			
Selenium	0.223	0.005	mg/L	0.200		111	85-115			
Matrix Spike (B4K0370-MS1)	**Source: 4110360-09**									
Arsenic	0.223	0.005	mg/L	0.200	ND	110	70-130			
Cadmium	0.199	0.001	mg/L	0.200	ND	99	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	98	70-130			
Copper	0.195	0.005	mg/L	0.200	ND	97	70-130			
Lead	0.194	0.005	mg/L	0.200	ND	97	70-130			
Manganese	0.216	0.005	mg/L	0.200	0.020	98	70-130			
Nickel	0.193	0.005	mg/L	0.200	ND	96	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Arsenic	0.210	0.005	mg/L	0.200	ND	105	70-130			
Cadmium	0.205	0.001	mg/L	0.200	ND	103	70-130			
Chromium	0.197	0.002	mg/L	0.200	ND	99	70-130			
Copper	0.200	0.005	mg/L	0.200	ND	100	70-130			
Lead	0.201	0.005	mg/L	0.200	ND	100	70-130			
Manganese	0.224	0.005	mg/L	0.200	0.028	98	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Matrix Spike (B4K0370-MS2)	**Source: 4110360-12**									
Nickel	0.200	0.005	mg/L	0.200	ND	100	70-130			
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike Dup (B4K0370-MSD1)	**Source: 4110360-09**									
Arsenic	0.219	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.198	0.001	mg/L	0.200	ND	99	70-130	0.4	20	
Chromium	0.195	0.002	mg/L	0.200	ND	97	70-130	1	20	
Copper	0.193	0.005	mg/L	0.200	ND	96	70-130	1	20	
Lead	0.193	0.005	mg/L	0.200	ND	96	70-130	0.6	20	
Manganese	0.212	0.005	mg/L	0.200	0.020	96	70-130	2	20	
Nickel	0.195	0.005	mg/L	0.200	ND	97	70-130	1	20	
Selenium	0.213	0.005	mg/L	0.200	ND	106	70-130	0.3	20	
Matrix Spike Dup (B4K0370-MSD2)	**Source: 4110360-12**									
Arsenic	0.215	0.005	mg/L	0.200	ND	108	70-130	2	20	
Cadmium	0.209	0.001	mg/L	0.200	ND	104	70-130	2	20	
Chromium	0.204	0.002	mg/L	0.200	ND	102	70-130	3	20	
Copper	0.208	0.005	mg/L	0.200	ND	104	70-130	4	20	
Lead	0.206	0.005	mg/L	0.200	ND	103	70-130	3	20	
Manganese	0.233	0.005	mg/L	0.200	0.028	102	70-130	4	20	
Nickel	0.207	0.005	mg/L	0.200	ND	103	70-130	4	20	
Selenium	0.217	0.005	mg/L	0.200	ND	109	70-130	2	20	
Post Spike (B4K0370-PS1)	**Source: 4110360-09**									
Arsenic	0.267		mg/L	0.250	ND	106	75-125			
Cadmium	0.238		mg/L	0.250	ND	95	75-125			
Chromium	0.238		mg/L	0.250	ND	95	75-125			
Copper	0.234		mg/L	0.250	ND	93	75-125			
Lead	0.232		mg/L	0.250	ND	93	75-125			
Manganese	0.254		mg/L	0.250	0.019	94	75-125			
Nickel	0.233		mg/L	0.250	ND	93	75-125			
Selenium	0.257		mg/L	0.250	ND	102	75-125			
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Arsenic	0.257		mg/L	0.250	ND	103	75-125			
Cadmium	0.251		mg/L	0.250	ND	100	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0370 - EPA 200.8										
Post Spike (B4K0370-PS2)	**Source: 4110360-12**									
Chromium	0.243		mg/L	0.250	ND	97	75-125			
Copper	0.247		mg/L	0.250	ND	98	75-125			
Lead	0.246		mg/L	0.250	ND	98	75-125			
Manganese	0.271		mg/L	0.250	0.027	97	75-125			
Nickel	0.246		mg/L	0.250	ND	98	75-125			
Selenium	0.261		mg/L	0.250	ND	104	75-125			
Batch B4K0371 - EPA 200.8 Mod										
Blank (B4K0371-BLK1)										
Silver	ND	0.002	mg/L							
LCS (B4K0371-BS1)										
Silver	0.060	0.002	mg/L	0.0600		100	85-115			
Matrix Spike (B4K0371-MS1)	**Source: 4110360-09**									
Silver	0.057	0.002	mg/L	0.0600	ND	96	70-130			
Matrix Spike (B4K0371-MS2)	**Source: 4110360-12**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130			
Matrix Spike Dup (B4K0371-MSD1)	**Source: 4110360-09**									
Silver	0.056	0.002	mg/L	0.0600	ND	93	70-130	2	20	
Matrix Spike Dup (B4K0371-MSD2)	**Source: 4110360-12**									
Silver	0.061	0.002	mg/L	0.0600	ND	101	70-130	3	20	
Post Spike (B4K0371-PS1)	**Source: 4110360-09**									
Silver	0.065		mg/L	0.0700	ND	92	75-125			
Post Spike (B4K0371-PS2)	**Source: 4110360-12**									
Silver	0.068		mg/L	0.0700	ND	97	75-125			

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0373 - EPA 245.1										
Blank (B4K0373-BLK1)										
Mercury	ND	0.00020	mg/L							
LCS (B4K0373-BS1)										
Mercury	0.0048	0.00020	mg/L	0.00500		96	85-115			
Duplicate (B4K0373-DUP1)	**Source: 4110360-09**									
Mercury	ND	0.00020	mg/L		ND				20	
Duplicate (B4K0373-DUP2)	**Source: 4110360-12**									
Mercury	ND	0.00020	mg/L		ND				20	
Matrix Spike (B4K0373-MS1)	**Source: 4110360-09**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			
Matrix Spike (B4K0373-MS2)	**Source: 4110360-12**									
Mercury	0.0050	0.00020	mg/L	0.00500	ND	100	70-130			
Batch B4K0428 - EPA 200.7										
Blank (B4K0428-BLK1)										
Barium	ND	0.010	mg/L							
Calcium	ND	0.10	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.10	mg/L							
Potassium	ND	0.50	mg/L							
Sodium	ND	0.50	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B4K0428-BS1)										
Barium	1.04	0.010	mg/L	1.00		104	85-115			
Calcium	1.02	0.10	mg/L	1.00		102	85-115			
Iron	1.02	0.050	mg/L	1.00		102	85-115			
Magnesium	1.02	0.10	mg/L	1.00		102	85-115			
Potassium	9.33	0.50	mg/L	10.0		93	85-115			
Sodium	1.06	0.50	mg/L	1.00		106	85-115			
Zinc	1.05	0.020	mg/L	1.00		105	85-115			

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0428 - EPA 200.7										
Duplicate (B4K0428-DUP1)	**Source: 4110482-08**									
Barium	0.01	0.010	mg/L		0.01			6	20	
Calcium	1.61	0.10	mg/L		1.60			1	20	
Iron	ND	0.050	mg/L		ND				20	
Magnesium	1.09	0.10	mg/L		1.08			0.4	20	
Potassium	1.14	0.50	mg/L		1.14			0.1	20	
Sodium	1.96	0.50	mg/L		1.96			0.3	20	
Zinc	ND	0.020	mg/L		ND				20	
Duplicate (B4K0428-DUP2)	**Source: 4110495-03**									
Barium	0.01	0.010	mg/L		0.01			8	20	
Calcium	1.98	0.10	mg/L		1.95			2	20	
Iron	0.168	0.050	mg/L		0.156			7	20	
Magnesium	1.06	0.10	mg/L		1.05			0.8	20	
Potassium	1.40	0.50	mg/L		1.39			0.7	20	
Sodium	1.80	0.50	mg/L		1.79			0.7	20	
Zinc	ND	0.020	mg/L		ND				20	
Matrix Spike (B4K0428-MS1)	**Source: 4110482-08**									
Barium	1.05	0.010	mg/L	1.00	0.01	103	70-130			
Calcium	2.66	0.10	mg/L	1.00	1.60	106	70-130			
Iron	1.05	0.050	mg/L	1.00	ND	102	70-130			
Magnesium	2.11	0.10	mg/L	1.00	1.08	103	70-130			
Potassium	10.4	0.50	mg/L	10.0	1.14	93	70-130			
Sodium	2.84	0.50	mg/L	1.00	1.96	89	70-130			
Zinc	1.04	0.020	mg/L	1.00	ND	104	70-130			
Matrix Spike (B4K0428-MS2)	**Source: 4110495-03**									
Barium	1.07	0.010	mg/L	1.00	0.01	106	70-130			
Calcium	3.15	0.10	mg/L	1.00	1.95	120	70-130			
Iron	1.22	0.050	mg/L	1.00	0.156	106	70-130			
Magnesium	2.12	0.10	mg/L	1.00	1.05	107	70-130			
Potassium	11.0	0.50	mg/L	10.0	1.39	97	70-130			
Sodium	2.76	0.50	mg/L	1.00	1.79	98	70-130			
Zinc	1.06	0.020	mg/L	1.00	ND	106	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0428 - EPA 200.7										
Post Spike (B4K0428-PS1)	**Source: 4110482-08**									
Barium	1.04		mg/L	1.00	0.01	103	85-115			
Calcium	2.64		mg/L	1.00	1.60	105	85-115			
Iron	1.04		mg/L	1.00	ND	102	85-115			
Magnesium	2.11		mg/L	1.00	1.08	103	85-115			
Potassium	10.4		mg/L	10.0	1.14	92	85-115			
Sodium	2.83		mg/L	1.00	1.96	87	85-115			
Zinc	1.02		mg/L	1.00	ND	102	85-115			
Post Spike (B4K0428-PS2)	**Source: 4110495-03**									
Barium	1.04		mg/L	1.00	0.01	103	85-115			
Calcium	3.04		mg/L	1.00	1.95	109	85-115			
Iron	1.18		mg/L	1.00	0.156	102	85-115			
Magnesium	2.08		mg/L	1.00	1.05	102	85-115			
Potassium	10.7		mg/L	10.0	1.39	93	85-115			
Sodium	2.70		mg/L	1.00	1.79	91	85-115			
Zinc	1.03		mg/L	1.00	ND	102	85-115			
Batch B4K0429 - EPA 200.8										
Blank (B4K0429-BLK1)										
Arsenic	ND	0.005	mg/L							
Cadmium	ND	0.001	mg/L							
Chromium	ND	0.002	mg/L							
Copper	ND	0.005	mg/L							
Lead	ND	0.005	mg/L							
Manganese	ND	0.005	mg/L							
Nickel	ND	0.005	mg/L							
Selenium	ND	0.005	mg/L							
LCS (B4K0429-BS1)										
Arsenic	0.209	0.005	mg/L	0.200		105	85-115			
Cadmium	0.209	0.001	mg/L	0.200		104	85-115			
Chromium	0.202	0.002	mg/L	0.200		101	85-115			
Copper	0.208	0.005	mg/L	0.200		104	85-115			
Lead	0.203	0.005	mg/L	0.200		101	85-115			
Manganese	0.203	0.005	mg/L	0.200		102	85-115			

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0429 - EPA 200.8										
LCS (B4K0429-BS1)										
Nickel	0.206	0.005	mg/L	0.200		103	85-115			
Selenium	0.224	0.005	mg/L	0.200		112	85-115			
Matrix Spike (B4K0429-MS1)	**Source: 4110475-15**									
Arsenic	0.217	0.005	mg/L	0.200	ND	108	70-130			
Cadmium	0.207	0.001	mg/L	0.200	ND	104	70-130			
Chromium	0.199	0.002	mg/L	0.200	ND	99	70-130			
Copper	0.198	0.005	mg/L	0.200	ND	99	70-130			
Lead	0.201	0.005	mg/L	0.200	ND	101	70-130			
Manganese	0.205	0.005	mg/L	0.200	0.006	99	70-130			
Nickel	0.198	0.005	mg/L	0.200	ND	98	70-130			
Selenium	0.219	0.005	mg/L	0.200	ND	109	70-130			
Matrix Spike (B4K0429-MS2)	**Source: 4110475-16**									
Arsenic	0.203	0.005	mg/L	0.200	ND	102	70-130			
Cadmium	0.206	0.001	mg/L	0.200	ND	103	70-130			
Chromium	0.201	0.002	mg/L	0.200	0.003	99	70-130			
Copper	0.205	0.005	mg/L	0.200	ND	102	70-130			
Lead	0.198	0.005	mg/L	0.200	ND	99	70-130			
Manganese	0.205	0.005	mg/L	0.200	ND	100	70-130			
Nickel	0.206	0.005	mg/L	0.200	ND	102	70-130			
Selenium	0.212	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike Dup (B4K0429-MSD1)	**Source: 4110475-15**									
Arsenic	0.212	0.005	mg/L	0.200	ND	106	70-130	2	20	
Cadmium	0.203	0.001	mg/L	0.200	ND	101	70-130	2	20	
Chromium	0.195	0.002	mg/L	0.200	ND	97	70-130	2	20	
Copper	0.196	0.005	mg/L	0.200	ND	98	70-130	1	20	
Lead	0.198	0.005	mg/L	0.200	ND	99	70-130	1	20	
Manganese	0.203	0.005	mg/L	0.200	0.006	98	70-130	1	20	
Nickel	0.196	0.005	mg/L	0.200	ND	97	70-130	1	20	
Selenium	0.215	0.005	mg/L	0.200	ND	107	70-130	2	20	
Matrix Spike Dup (B4K0429-MSD2)	**Source: 4110475-16**									
Arsenic	0.204	0.005	mg/L	0.200	ND	102	70-130	0.4	20	
Cadmium	0.205	0.001	mg/L	0.200	ND	103	70-130	0.2	20	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0429 - EPA 200.8										
Matrix Spike Dup (B4K0429-MSD2)	**Source: 4110475-16**									
Chromium	0.200	0.002	mg/L	0.200	0.003	99	70-130	0.6	20	
Copper	0.205	0.005	mg/L	0.200	ND	103	70-130	0.3	20	
Lead	0.200	0.005	mg/L	0.200	ND	100	70-130	0.9	20	
Manganese	0.203	0.005	mg/L	0.200	ND	99	70-130	0.9	20	
Nickel	0.204	0.005	mg/L	0.200	ND	101	70-130	0.9	20	
Selenium	0.212	0.005	mg/L	0.200	ND	106	70-130	0.1	20	
Post Spike (B4K0429-PS1)	**Source: 4110475-15**									
Arsenic	0.255		mg/L	0.250	ND	102	75-125			
Cadmium	0.243		mg/L	0.250	ND	97	75-125			
Chromium	0.234		mg/L	0.250	ND	93	75-125			
Copper	0.236		mg/L	0.250	ND	94	75-125			
Lead	0.237		mg/L	0.250	ND	95	75-125			
Manganese	0.242		mg/L	0.250	0.006	94	75-125			
Nickel	0.233		mg/L	0.250	ND	93	75-125			
Selenium	0.260		mg/L	0.250	ND	104	75-125			
Post Spike (B4K0429-PS2)	**Source: 4110475-16**									
Arsenic	0.249		mg/L	0.250	ND	100	75-125			
Cadmium	0.245		mg/L	0.250	ND	98	75-125			
Chromium	0.241		mg/L	0.250	0.003	96	75-125			
Copper	0.246		mg/L	0.250	ND	98	75-125			
Lead	0.247		mg/L	0.250	ND	98	75-125			
Manganese	0.246		mg/L	0.250	ND	97	75-125			
Nickel	0.245		mg/L	0.250	ND	97	75-125			
Selenium	0.260		mg/L	0.250	ND	104	75-125			
Batch B4K0431 - EPA 200.8 Mod										
Blank (B4K0431-BLK1)										
Silver	ND	0.002	mg/L							
LCS (B4K0431-BS1)										
Silver	0.059	0.002	mg/L	0.0600		99	85-115			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0431 - EPA 200.8 Mod										
Matrix Spike (B4K0431-MS1)	**Source: 4110475-15**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130			
Matrix Spike (B4K0431-MS2)	**Source: 4110475-16**									
Silver	0.058	0.002	mg/L	0.0600	ND	96	70-130			
Matrix Spike Dup (B4K0431-MSD1)	**Source: 4110475-15**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130	0.4	20	
Matrix Spike Dup (B4K0431-MSD2)	**Source: 4110475-16**									
Silver	0.064	0.002	mg/L	0.0600	ND	107	70-130	10	20	
Post Spike (B4K0431-PS1)	**Source: 4110475-15**									
Silver	0.066		mg/L	0.0700	ND	94	75-125			
Post Spike (B4K0431-PS2)	**Source: 4110475-16**									
Silver	0.066		mg/L	0.0700	ND	95	75-125			
Batch B4K0432 - EPA 245.1										
Blank (B4K0432-BLK1)										
Mercury	ND	0.00020	mg/L							
LCS (B4K0432-BS1)										
Mercury	0.0049	0.00020	mg/L	0.00500		99	85-115			
Duplicate (B4K0432-DUP1)	**Source: 4110475-15**									
Mercury	ND	0.00020	mg/L		ND				20	
Duplicate (B4K0432-DUP2)	**Source: 4110475-16**									
Mercury	ND	0.00020	mg/L		ND				20	
Matrix Spike (B4K0432-MS1)	**Source: 4110475-15**									
Mercury	0.0051	0.00020	mg/L	0.00500	ND	103	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0432 - EPA 245.1										
Matrix Spike (B4K0432-MS2)	**Source: 4110475-16**									
Mercury	0.0049	0.00020	mg/L	0.00500	ND	99	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110475
Canton, NC 28716		Reported:	12/15/14 14:35

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 200.7 Metal Digestion				
EPA 200.7	B4K0341	4110475-15	11/18/2014 08:08	MEC
EPA 200.7	B4K0428	4110475-16	11/18/2014 08:08	MEC
EPA 200.7	B4K0428	4110475-17	11/18/2014 08:08	MEC
EPA 200.7	B4K0428	4110475-18	11/18/2014 08:08	MEC
EPA 200.7	B4K0428	4110475-19	11/18/2014 08:08	MEC
EPA 200.7	B4K0428	4110475-20	11/18/2014 08:08	MEC
EPA 200.7	B4K0428	4110475-21	11/18/2014 08:08	MEC
EPA 200.8 Metal Digestion				
EPA 200.8	B4K0429	4110475-15	11/17/2014 16:20	DER
EPA 200.8	B4K0429	4110475-16	11/17/2014 16:20	DER
EPA 200.8	B4K0370	4110475-17	11/14/2014 15:51	DER
EPA 200.8	B4K0429	4110475-18	11/17/2014 16:20	DER
EPA 200.8	B4K0429	4110475-19	11/17/2014 16:20	DER
EPA 200.8	B4K0429	4110475-20	11/17/2014 16:20	DER
EPA 200.8	B4K0429	4110475-21	11/17/2014 16:20	DER
EPA 200.8 Silver/Antimony Digestion				
EPA 200.8 Mod	B4K0431	4110475-15	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0431	4110475-16	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0371	4110475-17	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0431	4110475-18	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0431	4110475-19	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0431	4110475-20	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0431	4110475-21	11/17/2014 13:58	DER
EPA 245.1 Mercury Digestion				
EPA 245.1	B4K0432	4110475-15	11/20/2014 11:26	DER
EPA 245.1	B4K0432	4110475-16	11/20/2014 11:26	DER
EPA 245.1	B4K0373	4110475-17	11/20/2014 11:26	DER
EPA 245.1	B4K0432	4110475-18	11/20/2014 11:26	DER
EPA 245.1	B4K0432	4110475-19	11/20/2014 11:26	DER
EPA 245.1	B4K0432	4110475-20	11/20/2014 11:26	DER
EPA 245.1	B4K0432	4110475-21	11/20/2014 11:26	DER

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
P3	The RPD of sample and duplicate were evaluated using +/- the reporting limit. The sample / duplicate results were less than 4 times the reporting limit.
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
X	Result subject to sample matrix interference. Reporting limit has been adjusted where applicable.

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Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 4110475

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton, NC

Report To:

Email Address:

Telephone #:

PO #: Project # 04-159

R&C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) → metals*	metals*	NO_3	Phenols	TOC	TDS; NO_2; SO_4; F; Cl	TOX ⊗	COMMENTS
					N							Filtered (Yes/No)
					Y							Cooled (Yes/No)
					P			G	P		G	Container Type (Plastic/Glass)
					500 ml	1 L	250 ml	1 L	250 ml	1/2 gal	250 ml	Container Volume (mL)
					G							Sample Type (Grab/Composite)
					GW							Sample Source (WW, GW, DW, SW, S, Other)
					B	B	C	C	J	A	B	Preservation Code(s)
-15, -22	11/11	0953	mw12	7		1	1	2	1	1	1	
-16, -23		1146	mw10	7		1	1	2	1	1	1	
-17, -24		1206	mw11	6	1		1	1	1	1	1	* As; Ba; Cd; Ca; Cr; Cu; Fe;
-18, -25		1508	mw2	6	1		1	1	1	1	1	Pb; Mg; Mn; Ni; K; Se; Ag;
-19, -26		1546	mw3A	6	1		1	1	1	1	1	Na; Zn; Hg
-20, -27		1624	MW5A	6	1		1	1	1	1	1	Field Data Collected
-21, -28		1658	mw8	6	1		1	1	1	1	1	-01 through -14
												⊗ Subcontracted

Preservation Code(s): A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

SAMPLER – RELINQUISHED BY: 1. Carmen L. Buckland	DATE/TIME: 11/12/14 @ 1319	RECEIVED BY: 2. [signature]	DATE/TIME: 11/12/14 1319
RELINQUISHED BY: 3. [signature]	DATE/TIME: 11/12/14 @ 1527	RECEIVED BY: 4. [signature]	DATE/TIME: 11.12.14 1527
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.2 °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other _____

Form Revised July, 2014 Page 1 of 1

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: EVERGREEN Date Received: 11.12.14 Work Order: 4110475

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other: _____

Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?	X			
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.	X			
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #

HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: KRW

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-66344-1
Client Project/Site: 4110475
Revision: 1

For:
Rogers & Callcott Engineers Inc
PO BOX 5655
Greenville, South Carolina 29606

Attn: Ms. Susan Gunter

Authorized for release by:
12/10/2014 2:41:52 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-66344-1	4110475-22 MW12	Water	11/11/14 09:53	11/15/14 08:40
490-66344-2	4110475-23 MW10	Water	11/11/14 11:46	11/15/14 08:40
490-66344-3	4110475-24 MW11	Water	11/11/14 12:06	11/15/14 08:40
490-66344-4	4110475-25 MW2	Water	11/11/14 15:08	11/15/14 08:40
490-66344-5	4110475-26 MW3A	Water	11/11/14 15:46	11/15/14 08:40
490-66344-6	4110475-27 MW5A	Water	11/11/14 16:24	11/15/14 08:40
490-66344-7	4110475-28 MW8	Water	11/11/14 16:58	11/15/14 08:40

Job ID: 490-66344-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-66344-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2014 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0º C.

General Chemistry
Method(s) 9020B: The matrix spike (MS) recovery for batch 211273 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9020B: The %RPD between the first and second columns is greater than 20% for the following samples:4110475-26 MW3A (490-66344-5). Due to insufficient sample volume remaining, the data was averaged with the two closest replicates and reported.

Method(s) 9020B: The matrix spike (MS) recovery for batch 211326 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9020B: Breakthrough exceeded 10% of the following sample(s): 4110475-27 MW5A (490-66344-6). The concentration of the sample, however, was less than the concentration of the LCS. It is concluded that the high breakthrough is a result of matrix interferences. The data has been reported.

Method(s) 9020B: Breakthrough exceeded 10% for the following sample(s):4110475-25 MW2 (490-66344-4). Re-analysis was performed with concurring results. The data have been reported.

Method(s) 9020B: Following sample duplicate results are outside 20% RPD requirement 4110475-27 MW5A (490-66344-6). Insufficient sample volume to repeat. The data have been reported.

Method(s) 9020B: Insufficient sample volume was available to perform a matrix spike (MS) associated with batch 211326.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Client Sample ID: 4110475-22 MW12

Lab Sample ID: 490-66344-1

Date Collected: 11/11/14 09:53

Matrix: Water

Date Received: 11/15/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/03/14 08:03	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Client Sample ID: 4110475-23 MW10
Date Collected: 11/11/14 11:46
Date Received: 11/15/14 08:40

Lab Sample ID: 490-66344-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/03/14 08:06	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Client Sample ID: 4110475-24 MW11
Date Collected: 11/11/14 12:06
Date Received: 11/15/14 08:40

Lab Sample ID: 490-66344-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/04/14 09:51	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Client Sample ID: 4110475-25 MW2

Lab Sample ID: 490-66344-4

Date Collected: 11/11/14 15:08

Matrix: Water

Date Received: 11/15/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.183		0.0600		mg/L			12/04/14 14:50	2

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Client Sample ID: 4110475-26 MW3A

Lab Sample ID: 490-66344-5

Date Collected: 11/11/14 15:46

Matrix: Water

Date Received: 11/15/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0479		0.0300		mg/L			12/04/14 09:51	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Client Sample ID: 4110475-27 MW5A

Lab Sample ID: 490-66344-6

Date Collected: 11/11/14 16:24

Matrix: Water

Date Received: 11/15/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0474		0.0300		mg/L			12/05/14 14:50	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Client Sample ID: 4110475-28 MW8
Date Collected: 11/11/14 16:58
Date Received: 11/15/14 08:40

Lab Sample ID: 490-66344-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/05/14 14:50	1

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 490-211273/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/01/14 08:51	1

Lab Sample ID: LCS 490-211273/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	0.250	0.2378		mg/L		95	90 - 110

Lab Sample ID: LCSD 490-211273/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Halogens, Total Organic	0.250	0.2405		mg/L		96	90 - 110	1	20

Lab Sample ID: 180-39031-A-6 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	<0.0300		0.100	0.4643	F1	mg/L		464	70 - 130

Lab Sample ID: 600-102461-A-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	0.0861		0.100	0.1871		mg/L		101	70 - 130

Lab Sample ID: MB 490-211326/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/01/14 14:20	1

Lab Sample ID: LCS 490-211326/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	0.250	0.2484		mg/L		99	90 - 110

Lab Sample ID: 180-39031-A-7 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 211326

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	<0.0300		0.100	0.1566	F1	mg/L		157	70 - 130

QC Association Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

General Chemistry

Analysis Batch: 211273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39031-A-6 MS	Matrix Spike	Total/NA	Water	9020B	
490-66344-1	4110475-22 MW12	Total/NA	Water	9020B	
490-66344-3	4110475-24 MW11	Total/NA	Water	9020B	
490-66344-5	4110475-26 MW3A	Total/NA	Water	9020B	
600-102461-A-3 MS	Matrix Spike	Total/NA	Water	9020B	
LCS 490-211273/4	Lab Control Sample	Total/NA	Water	9020B	
LCSD 490-211273/5	Lab Control Sample Dup	Total/NA	Water	9020B	
MB 490-211273/6	Method Blank	Total/NA	Water	9020B	

Analysis Batch: 211326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39031-A-7 MS	Matrix Spike	Total/NA	Water	9020B	
490-66344-2	4110475-23 MW10	Total/NA	Water	9020B	
490-66344-4	4110475-25 MW2	Total/NA	Water	9020B	
490-66344-6	4110475-27 MW5A	Total/NA	Water	9020B	
490-66344-7	4110475-28 MW8	Total/NA	Water	9020B	
LCS 490-211326/5	Lab Control Sample	Total/NA	Water	9020B	
MB 490-211326/6	Method Blank	Total/NA	Water	9020B	

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Client Sample ID: 4110475-22 MW12

Lab Sample ID: 490-66344-1
Date Collected: 11/11/14 09:53
Matrix: Water
Date Received: 11/15/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211273	12/03/14 08:03	JAB	TAL NSH

Client Sample ID: 4110475-23 MW10

Lab Sample ID: 490-66344-2
Date Collected: 11/11/14 11:46
Matrix: Water
Date Received: 11/15/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/03/14 08:06	JAB	TAL NSH

Client Sample ID: 4110475-24 MW11

Lab Sample ID: 490-66344-3
Date Collected: 11/11/14 12:06
Matrix: Water
Date Received: 11/15/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211273	12/04/14 09:51	JAB	TAL NSH

Client Sample ID: 4110475-25 MW2

Lab Sample ID: 490-66344-4
Date Collected: 11/11/14 15:08
Matrix: Water
Date Received: 11/15/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		2			211326	12/04/14 14:50	JAB	TAL NSH

Client Sample ID: 4110475-26 MW3A

Lab Sample ID: 490-66344-5
Date Collected: 11/11/14 15:46
Matrix: Water
Date Received: 11/15/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211273	12/04/14 09:51	JAB	TAL NSH

Client Sample ID: 4110475-27 MW5A

Lab Sample ID: 490-66344-6
Date Collected: 11/11/14 16:24
Matrix: Water
Date Received: 11/15/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/05/14 14:50	JAB	TAL NSH

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Client Sample ID: 4110475-28 MW8

Lab Sample ID: 490-66344-7

Date Collected: 11/11/14 16:58

Matrix: Water

Date Received: 11/15/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/05/14 14:50	JAB	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Method	Method Description	Protocol	Laboratory
9020B	Organic Halides, Total (TOX)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110475

TestAmerica Job ID: 490-66344-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-14 *
South Carolina	State Program	4	84009 (001)	02-28-15

* Certification renewal pending - certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

490-66344 Chain of Custody

Cooler Received/Opened On : 11/14/2014 @ 0840

1. Tracking # 7786 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 18290455

2. Temperature of rep. sample or temp blank when opened: 0.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES ...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial)

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) AJH

I certify that I attached a label with the unique LIMS number to each container (intial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER _____

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Rogers and Callcott

Address: _____

Report To: Susan Gunter

Email Address: _____

Telephone #: _____

PO # _____ Project # _____

Parameter(s) →	N	Y	G	~~350~~ 500	G	GW	B	TOX
Filtered (Yes/No)								
Cooled (Yes/No)								
Container Type (Plastic/Glass)								
Container Volume (mL)				KRD 11.13.14				
Sample Type (Grab/Composite)								
Sample Source (WW, GW, DW, SW, S, Other)								
Total Number of Containers								

Preservation Code(s)

A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

R & C WORK ORDER	YR 2014 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	TOX	COMMENTS
4110475-22	11-11	0953	MW12	1	1	Sub to Test America
-23	11-11	1146	MW10	1	1	
-24	11-11	1206	MW11	1	1	NC Samples
-25	11-11	1508	MW2	1	1	
-26	11-11	1546	MW3A	1	1	
-27	11-11	1624	MW5A	1	1	
-28	11-11	1658	MW8	1	1	

Loc: 490
66344

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11.13.14 1600	2. [signature]	11/14/14 8:40
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection ~~0.0~~ NCF 11/13/14 °C

At time of lab receipt 0.0 °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other _____

Form Revised July, 2014 Page _____ of _____

Login Sample Receipt Checklist

Client: Rogers & Callcott Engineers Inc

Job Number: 490-66344-1

Login Number: 66344
List Number: 1
Creator: Huskey, Adam

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☒ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW-2

Date: 11/11/14 Field Personnel: CSW

Site Name/Location: Evergreen packaging

Weather Conditions/~Temp: Sunny / 40 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☒ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 11.50 @ 0855
Total Depth of Well (b): 29.51
Length of Water Column in Well (b-a): 18.01
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	2.9	
3 Casing Vol	8.7	8.7

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown / Moderate / Light / None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/11/14	0907	-	0.16	11.50	0.0	5.90	10.9	294.4	|	|	1	301	
|	0925	1	1	12.32	2.9	5.77	13.3	281.6	|	|	1	16.8	
|	0938	2	0.22	12.34	5.8	5.83	14.6	278.6	|	|	1	5.85	
|	0951	3	|	12.40	8.7	5.82	14.6	279.4	|	|	1	< 5	
		4											
		5											
		6									CSW	11/11/14	
		7											

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 0953 - All Samples

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW11

Date: 11/11/14 Field Personnel: CBW

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 51 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☒ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 16.79 @ 1052
Total Depth of Well (b): 29.08
Length of Water Column in Well (b-a): 12.29
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	2.0	
3 Casing Vol	6.0	3.0

Circle One ~~that~~ Applies

Measuring Point: ~~TOC~~ / Ground Surface
Riser Material: ~~PVC~~ / Steel / Teflon
Steel Protective Casing? ~~Yes~~ / No
Bollards? Yes / ~~No~~
Flush Mount? ~~Yes~~ / ~~No~~
Well Locked? ~~Yes~~ / No
Well Pad Condition? ~~Okay~~ / _____
Well Tag? ~~Okay~~ / None
Well Integrity Satisfactory? ~~Okay~~ / _____
Vegetation: Overgrown/ Moderate/ ~~Light~~/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/11/14	1058	-	NA	16.79 ~~29.08~~ CBW	0.0	5.24	15.9	109.8			1	6.96	
	1102	1		NA 11/11/14	2.0	5.34	15.9	46.1			1	187	Dry CBW 11/11/14
	1105	2			3.0	5.61	15.5	56.1			1	237	Sample Dry
	1205	3		16.75	Sample	5.69	15.8	59.2			1	15.5	Sample
		4											
		5											
		6											
		7								CBW 11/11/14			

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1206 - All Samples

Comments:

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW10

Date: 11/11/14 Field Personnel: CSW

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny 160 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☒ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 30.76 @ 1116
Total Depth of Well (b): 75.75
Length of Water Column in Well (b-a): 44.99
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	7.3	
3 Casing Vol	21.9	21.9

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/11/14	1130	-	1.5	30.76	0.0	6.16	14.1	35.8	|	|	1	10.5	
|	1135	1	|	31.76	7.3	5.97	14.4	34.9	|	|	1	50.6	
|	1140	2	|	32.12	14.6	5.98	14.4	34.9	|	|	1	15.3	
|	1145	3	|	32.14	21.9	5.97	14.4	34.7	|	|	1	8.40	
		4											
		5					CSW		11/11/14				
		6											
		7											

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1146- All Samples

Comments:

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW5A

Date: 11/11/14 Field Personnel: CCOW

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 70 °F Page 4 of 9

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☒ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 34.99 @ 1340 11/11/14
Total Depth of Well (b): 44.51
Length of Water Column in Well (b-a): 9.52
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	1.6	
3 Casing Vol	4.8	4.2

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/11/14	1353	-	NA	34.99	0.0	5.51	20.2	868.9			1	27.2	
	1356	1		NA	1.6	5.35	19.5	784.3			1	59.5	
	1359	2			3.2	5.49	19.9	740.6			1	159	
	1401	3			4.2	5.54	19.4	711.9			1	144	Dry
	1623	4		34.94	Sample	5.57	18.8	668.6			1	7.67	Sample
		5											
		6											
		7									CCOW	11/11/14	

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1624 - All samples

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW8

Date: 11/11/14 Field Personnel: CEBW

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 71 °F Page 5 of 9

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☒ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 9.46 @ 1420
Total Depth of Well (b): 29.15
Length of Water Column in Well (b-a): 19.69
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	3.2	
3 Casing Vol	9.6	4.7

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/11/14	1425	-	NA	9.46	0.0	6.11	19.4	123.7			1	12.3	
	1432	1		NA	3.2	6.04	19.2	109.3			1	76.1	
	1436	2			4.7	6.44	18.8	126.5			1	98.7	dry
	1657	3		16.64	Sample	6.45	16.1	81.1			1	< 5	Sample
		4											
		5											
		6										CEBW 11/11/14	
		7											

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1658 - All Samples

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW2

Date: 11/10/14 & 11/11/14 Field Personnel: CBW - RJC

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 61 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☒ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 2.40 @ 1622
Total Depth of Well (b): 11.84
Length of Water Column in Well (b-a): 9.44
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	1.5	
3 Casing Vol	4.5	1.5

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1629	-	NA	2.40	CBW 11/10/14 ~~1.0~~	9.91	16.4	6,487	|	|	1	5.89	
|	1631	1	|	NA	1.5	9.88	15.9	6,493	|	|	1	14.0	Dry
11/11/14*	1507	2	|	4.40	Sample	9.98	17.0	7,236	|	|	1	6.33	Sample
		3											
		4											
		5											
		6											
		7											

CBW 11/11/14

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: _____ Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1508 - All Samples

Comments: * Samples collected on 11/11/14

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW3A

Date: 11/10/14 & 11/11/14* Field Personnel: CGW - RJC

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 60 °F Page ~~8~~ 7 of 9 CGW 11/11/14

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☒ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 6.21 @ 1647
Total Depth of Well (b): 20.26
Length of Water Column in Well (b-a): 14.05
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	2.3	
3 Casing Vol	6.9	2.75

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown / Moderate / Light / None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/10/14	1656	-	NA	6.21	0.0	6.71	16.0	1,163			1	36.3	
	1700	1		NA	2.3	6.79	16.0	1,107			1	84.4	
	1701	2		1	2.75	6.88	15.9	1,135			1	70.9	Dry
*11/11/14	1545 ~~1507~~ CGW 11/11/14	3		4.86	Sample	7.11	16.3	1,298			1	12.9	Sample
		4											
		5											
		6											
		7											

CGW 11/11/14

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: Low / Moderate / High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1546 ~~1508~~ CGW 11/11/14 All samples

Comments: * Samples collected on 11/11/14

Revised 1-10-13

Rogers and Callcott Environmental

Field Meter Calibration Record

Client: Evergreen Packaging **Date:** 11/1/14

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion Star A325 SN: G01769 Probe: QA-1200

Time: 0824 Analyst: CBW Cell Constant 0.478

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
P403994	9.83		9.65	16.9
P404453	100.4		93.6	16.3
P403995	999		972.1	15.6
P404447	SSS conc:	447	452.1	15.8

Temperature compensation for pH / conductivity meter : +1.0

pH Calibration - EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SY1-12-505

Time: 0820 Analyst: CBW Slope: 100.7

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
P404588	4.0		4.01
P405394	7.0		7.05
P404841	10.0		10.01
P403457	SSS conc:	4.0	3.99

Turbidity Meter Calibration
Field Screen Method

Meter Make / Model: Hach 2100P SN: 13020023551 Date of most recent calibration: 11/3/14

Time: 0827 Analyst: CBW

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
P405639	5.24	5.22
P405640	48.9	48.8
P405641	485	483

Reviewed by: _____ Date: _____

Revised 01/21/13

Rogers and Callcott Environmental

Continuing Calibration Verification

Client: Evergreen Packaging **Date:** 11/11/14

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion Star A325 SN: G017C9 Probe: GPI-12000

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1216	CBW	100.4	104.1 @ 14.7 °C
1709	CBW	999	1008 @ 20.4 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SVI-12565

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1215	CBW	7.0	7.01
1708	CBW	4.0	4.04

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 13020023551

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1215	CBW	49.8	50.1
1708	CBW	48.5	48.8

Field Duplicate

Well ID: MW12

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
0952	CBW	278.4	5.83	<5	14.6

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Revised 01/21/13

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Evergreen Packaging C/O Mark Lancaster - Rogers and Callcott 175 Main Street Canton, NC 28716	**Project:** **Work Order:** **Received:**	MW and SW 4110482 11/12/2014 16:32

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on November 12, 2014. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Kara Hrkach, your Project Manager, at kara.hrkach@rogersandcallcott.com or (864)-335-4956 if you have any questions about this report.

CC: George Maalouf - Rogers and Callcott

Report Approved By:

Kara Hrkach

Kara Hrkach
Project Manager

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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

Client Evergreen Packaging
C/O Mark Lancaster - Rogers and Callcott
175 Main Street
Canton, NC 28716

Project: MW and SW
Work Order: 4110482
Received: 11/12/2014 16:32

Sample Number	Sample Description	Matrix	Sampled	Type
4110482-01	MW7A	Ground Water	11/12/14 09:05	Grab
4110482-02	MW7A	Ground Water	11/12/14 09:59	Grab
4110482-03	MW17	Ground Water	11/12/14 11:36	Grab
4110482-04	MW17	Ground Water	11/12/14 12:15	Grab
4110482-05	MW20	Ground Water	11/12/14 13:11	Grab
4110482-06	MW20	Ground Water	11/12/14 13:47	Grab
4110482-07	MW7A	Ground Water	11/12/14 10:01	Grab
4110482-08	MW17	Ground Water	11/12/14 12:16	Grab
4110482-09	MW20	Ground Water	11/12/14 13:48	Grab
4110482-10	MW7A	Ground Water	11/12/14 10:01	Grab
4110482-11	MW17	Ground Water	11/12/14 12:16	Grab
4110482-12	MW20	Ground Water	11/12/14 13:48	Grab

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Sample Data

Sample Number 4110482-01
Sample Description MW7A collected on 11/12/14 09:05

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**10.41**	0.00	Ft	1.00	11/12/14 09:05	-		CGW	B4K0435

Sample Number 4110482-02
Sample Description MW7A collected on 11/12/14 09:59

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**5.7**	0.1	pH Units	1.00	11/12/14 09:59	EPA 9040C		CGW	B4K0435
Specific Conductance at 25 C	**545**	10.0	umhos/cm	1.00	11/12/14 09:59	EPA 9050A		CGW	B4K0435
Temperature	**17.1**	0.0	°C	1.00	11/12/14 09:59	SM 2550B-2010		CGW	B4K0435
Turbidity (Field)	ND	5.0	NTU	1.00	11/12/14 09:59	Field Screen		CGW	B4K0435

Sample Number 4110482-03
Sample Description MW17 collected on 11/12/14 11:36

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**46.28**	0.00	Ft	1.00	11/12/14 11:36	-		CGW	B4K0435

Sample Number 4110482-04
Sample Description MW17 collected on 11/12/14 12:15

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**5.8**	0.1	pH Units	1.00	11/12/14 12:15	EPA 9040C		CGW	B4K0435
Specific Conductance at 25 C	**27.5**	10.0	umhos/cm	1.00	11/12/14 12:15	EPA 9050A		CGW	B4K0435
Temperature	**17.2**	0.0	°C	1.00	11/12/14 12:15	SM 2550B-2010		CGW	B4K0435
Turbidity (Field)	ND	5.0	NTU	1.00	11/12/14 12:15	Field Screen		CGW	B4K0435

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Sample Number 4110482-05
Sample Description MW20 collected on 11/12/14 13:11

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**44.50**	0.00	Ft	1.00	11/12/14 13:11	-		CGW	B4K0435

Sample Number 4110482-06
Sample Description MW20 collected on 11/12/14 13:47

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**6.3**	0.1	pH Units	1.00	11/12/14 13:47	EPA 9040C		CGW	B4K0435
Specific Conductance at 25 C	**118**	10.0	umhos/cm	1.00	11/12/14 13:47	EPA 9050A		CGW	B4K0435
Temperature	**17.1**	0.0	°C	1.00	11/12/14 13:47	SM 2550B-2010		CGW	B4K0435
Turbidity (Field)	ND	5.0	NTU	1.00	11/12/14 13:47	Field Screen		CGW	B4K0435

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Sample Number 4110482-07
Sample Description MW7A collected on 11/12/14 10:01

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**127**	20.0	mg/L	20.0	11/19/14 01:59	EPA 300.0		LJW	B4K0674
Fluoride	ND	0.10	mg/L	1.00	11/19/14 01:15	EPA 300.0		LJW	B4K0673
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 16:49	SM 4500NO3H-2011		REH	B4K0594
Nitrite as N	ND	0.010	mg/L	1.00	11/13/14 12:14	SM 4500NO2B-2011		REH	B4K0482
Sulfate	**31.5**	5.00	mg/L	5.00	11/19/14 01:37	EPA 300.0		LJW	B4K0675
Total Dissolved Solids	**350**	50.0	mg/L	2.00	11/17/14 16:30	SM 2540C-2011		JRA	B4K0596
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 07:59	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	**0.005**	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	**0.00082**	0.00020	mg/L	1.00	11/21/14 12:22	EPA 245.1		DER	B4K0432
Arsenic	ND	0.005	mg/L	1.00	11/19/14 14:26	EPA 200.8		DER	B4K0429
Barium	**0.14**	0.010	mg/L	1.00	11/20/14 15:42	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.001	mg/L	1.00	11/19/14 14:26	EPA 200.8		DER	B4K0429
Calcium	**42**	1.0	mg/L	10.0	11/20/14 15:39	EPA 200.7		MEC	B4K0428
Chromium	ND	0.002	mg/L	1.00	11/19/14 14:26	EPA 200.8		DER	B4K0429
Copper	ND	0.005	mg/L	1.00	11/19/14 14:26	EPA 200.8		DER	B4K0429
Iron	ND	0.050	mg/L	1.00	11/20/14 15:42	EPA 200.7		MEC	B4K0428
Lead	ND	0.005	mg/L	1.00	11/19/14 14:26	EPA 200.8		DER	B4K0429
Magnesium	**28**	1.0	mg/L	10.0	11/20/14 15:39	EPA 200.7		MEC	B4K0428
Manganese	**0.498**	0.005	mg/L	1.00	11/19/14 14:26	EPA 200.8		DER	B4K0429
Nickel	**0.007**	0.005	mg/L	1.00	11/19/14 14:26	EPA 200.8		DER	B4K0429
Potassium	**4.7**	0.50	mg/L	1.00	11/20/14 15:42	EPA 200.7		MEC	B4K0428
Selenium	ND	0.005	mg/L	1.00	11/19/14 14:26	EPA 200.8		DER	B4K0429
Silver	ND	0.002	mg/L	1.00	11/18/14 13:58	EPA 200.8		DER	B4K0431
Sodium	**29**	5.0	mg/L	10.0	11/20/14 15:39	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 15:42	EPA 200.7		MEC	B4K0428

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Sample Number 4110482-08
Sample Description MW17 collected on 11/12/14 12:16

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	ND	1.00	mg/L	1.00	11/18/14 17:32	EPA 300.0	S1	LJW	B4K0674
Fluoride	ND	0.10	mg/L	1.00	11/18/14 17:32	EPA 300.0		LJW	B4K0673
Nitrate-Nitrite as N	**0.47**	0.10	mg/L	1.00	11/18/14 16:49	SM 4500NO3H-2011		REH	B4K0594
Nitrite as N	ND	0.010	mg/L	1.00	11/13/14 12:14	SM 4500NO2B-2011		REH	B4K0482
Sulfate	**2.23**	1.00	mg/L	1.00	11/18/14 17:32	EPA 300.0		LJW	B4K0675
Total Dissolved Solids	ND	25.0	mg/L	1.00	11/17/14 16:30	SM 2540C-2011		JRA	B4K0596
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 08:11	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 12:25	EPA 245.1		DER	B4K0432
Arsenic	ND	0.005	mg/L	1.00	11/19/14 14:30	EPA 200.8		DER	B4K0429
Barium	**0.013**	0.010	mg/L	1.00	11/20/14 14:49	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.001	mg/L	1.00	11/19/14 14:30	EPA 200.8		DER	B4K0429
Calcium	**1.6**	0.10	mg/L	1.00	11/20/14 14:49	EPA 200.7		MEC	B4K0428
Chromium	ND	0.002	mg/L	1.00	11/19/14 14:30	EPA 200.8		DER	B4K0429
Copper	ND	0.005	mg/L	1.00	11/19/14 14:30	EPA 200.8		DER	B4K0429
Iron	ND	0.050	mg/L	1.00	11/20/14 14:49	EPA 200.7		MEC	B4K0428
Lead	ND	0.005	mg/L	1.00	11/19/14 14:30	EPA 200.8		DER	B4K0429
Magnesium	**1.1**	0.10	mg/L	1.00	11/20/14 14:49	EPA 200.7		MEC	B4K0428
Manganese	ND	0.005	mg/L	1.00	11/19/14 14:30	EPA 200.8		DER	B4K0429
Nickel	ND	0.005	mg/L	1.00	11/19/14 14:30	EPA 200.8		DER	B4K0429
Potassium	**1.1**	0.50	mg/L	1.00	11/20/14 14:49	EPA 200.7		MEC	B4K0428
Selenium	ND	0.005	mg/L	1.00	11/19/14 14:30	EPA 200.8		DER	B4K0429
Silver	ND	0.002	mg/L	1.00	11/18/14 14:00	EPA 200.8		DER	B4K0431
Sodium	**2.0**	0.50	mg/L	1.00	11/20/14 14:49	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 14:49	EPA 200.7		MEC	B4K0428

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Sample Number 4110482-09
Sample Description MW20 collected on 11/12/14 13:48

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	**5.34**	1.00	mg/L	1.00	11/18/14 22:19	EPA 300.0		LJW	B4K0674
Fluoride	ND	0.10	mg/L	1.00	11/18/14 22:19	EPA 300.0		LJW	B4K0673
Nitrate-Nitrite as N	ND	0.10	mg/L	1.00	11/18/14 16:49	SM 4500NO3H-2011		REH	B4K0594
Nitrite as N	ND	0.010	mg/L	1.00	11/13/14 12:18	SM 4500NO2B-2011		REH	B4K0482
Sulfate	**23.5**	5.00	mg/L	5.00	11/18/14 22:41	EPA 300.0		LJW	B4K0675
Total Dissolved Solids	**72.0**	25.0	mg/L	1.00	11/17/14 16:30	SM 2540C-2011		JRA	B4K0596
Total Organic Carbon	ND	1.00	mg/L	1.00	11/14/14 08:22	SM 5310C-2011		LJW	B4K0449
Total Recoverable Phenols	**0.006**	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 12:27	EPA 245.1		DER	B4K0432
Arsenic	ND	0.005	mg/L	1.00	11/19/14 14:34	EPA 200.8		DER	B4K0429
Barium	ND	0.010	mg/L	1.00	11/20/14 15:19	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.001	mg/L	1.00	11/19/14 14:34	EPA 200.8		DER	B4K0429
Calcium	**6.0**	0.50	mg/L	5.00	11/20/14 15:17	EPA 200.7		MEC	B4K0428
Chromium	ND	0.002	mg/L	1.00	11/19/14 14:34	EPA 200.8		DER	B4K0429
Copper	ND	0.005	mg/L	1.00	11/19/14 14:34	EPA 200.8		DER	B4K0429
Iron	**9.4**	0.25	mg/L	5.00	11/20/14 15:17	EPA 200.7		MEC	B4K0428
Lead	ND	0.005	mg/L	1.00	11/19/14 14:34	EPA 200.8		DER	B4K0429
Magnesium	**2.8**	0.10	mg/L	1.00	11/20/14 15:19	EPA 200.7		MEC	B4K0428
Manganese	**0.025**	0.005	mg/L	1.00	11/19/14 14:34	EPA 200.8		DER	B4K0429
Nickel	ND	0.005	mg/L	1.00	11/19/14 14:34	EPA 200.8		DER	B4K0429
Potassium	**2.8**	0.50	mg/L	1.00	11/20/14 15:19	EPA 200.7		MEC	B4K0428
Selenium	ND	0.005	mg/L	1.00	11/19/14 14:34	EPA 200.8		DER	B4K0429
Silver	ND	0.002	mg/L	1.00	11/18/14 14:03	EPA 200.8		DER	B4K0431
Sodium	**9.1**	2.5	mg/L	5.00	11/20/14 15:17	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 15:19	EPA 200.7		MEC	B4K0428

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Subcontracted Analyses

Sample Number 4110482-10
Sample Description MW7A collected on 11/12/14 10:01

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110482-11
Sample Description MW17 collected on 11/12/14 12:16

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

Sample Number 4110482-12
Sample Description MW20 collected on 11/12/14 13:48

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0449 - General Prep - TOC										
Blank (B4K0449-BLK1)										
Total Organic Carbon	ND	1.00	mg/L							
Blank (B4K0449-BLK2)										
Total Organic Carbon	ND	1.00	mg/L							
LCS (B4K0449-BS1)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
LCS (B4K0449-BS2)										
Total Organic Carbon	4.97	1.00	mg/L	5.00		99	85-115			
Matrix Spike (B4K0449-MS1)	**Source: 4110279-01**									
Total Organic Carbon	3.58	1.00	mg/L	3.75	ND	91	80-120			
Matrix Spike (B4K0449-MS2)	**Source: 4110360-10**									
Total Organic Carbon	4.78	1.00	mg/L	3.75	1.23	95	80-120			
Matrix Spike (B4K0449-MS3)	**Source: 4110361-08**									
Total Organic Carbon	5.18	1.00	mg/L	3.75	1.69	93	80-120			
Matrix Spike (B4K0449-MS4)	**Source: 4110474-36**									
Total Organic Carbon	7.94	1.00	mg/L	3.75	4.57	90	80-120			
Matrix Spike Dup (B4K0449-MSD1)	**Source: 4110279-01**									
Total Organic Carbon	3.61	1.00	mg/L	3.75	ND	92	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD2)	**Source: 4110360-10**									
Total Organic Carbon	4.83	1.00	mg/L	3.75	1.23	96	80-120	1	20	
Matrix Spike Dup (B4K0449-MSD3)	**Source: 4110361-08**									
Total Organic Carbon	5.22	1.00	mg/L	3.75	1.69	94	80-120	0.7	20	
Matrix Spike Dup (B4K0449-MSD4)	**Source: 4110474-36**									
Total Organic Carbon	8.00	1.00	mg/L	3.75	4.57	91	80-120	0.7	20	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0482 - General Prep - Wet Chem										
Blank (B4K0482-BLK1)										
Nitrite as N	ND	0.010	mg/L							
LCS (B4K0482-BS1)										
Nitrite as N	0.499	0.010	mg/L	0.500		100	85-115			
Matrix Spike (B4K0482-MS1)	**Source: 4110474-27**									
Nitrite as N	0.258	0.010	mg/L	0.250	ND	103	80-120			
Matrix Spike Dup (B4K0482-MSD1)	**Source: 4110474-27**									
Nitrite as N	0.254	0.010	mg/L	0.250	ND	102	80-120	1	20	
Batch B4K0594 - General Prep - Wet Chem KL										
Blank (B4K0594-BLK1)										
Nitrate-Nitrite as N	ND	0.10	mg/L							
LCS (B4K0594-BS1)										
Nitrate-Nitrite as N	1.94	0.10	mg/L	2.00		97	85-115			
Matrix Spike (B4K0594-MS1)	**Source: 4110475-16**									
Nitrate-Nitrite as N	1.21	0.10	mg/L	1.25	ND	90	75-125			
Matrix Spike Dup (B4K0594-MSD1)	**Source: 4110475-16**									
Nitrate-Nitrite as N	1.21	0.10	mg/L	1.25	ND	89	75-125	0.5	20	
Batch B4K0596 - General Prep - Solids										
Blank (B4K0596-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							
Duplicate (B4K0596-DUP1)	**Source: 4110473-04**									
Total Dissolved Solids	3310	250	mg/L		3410			3	15	

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Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0673 - General Prep - IC										
Blank (B4K0673-BLK1)										
Fluoride	ND	0.10	mg/L							
LCS (B4K0673-BS1)										
Fluoride	0.52	0.10	mg/L	0.500		105	90-110			
Duplicate (B4K0673-DUP1)	**Source: 4110482-08**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0673-DUP2)	**Source: 4110495-03**									
Fluoride	ND	0.10	mg/L		ND				20	
Matrix Spike (B4K0673-MS1)	**Source: 4110482-08**									
Fluoride	0.34	0.10	mg/L	0.300	ND	99	90-110			
Matrix Spike (B4K0673-MS2)	**Source: 4110495-03**									
Fluoride	0.32	0.10	mg/L	0.300	ND	105	90-110			
Batch B4K0674 - General Prep - IC										
Blank (B4K0674-BLK1)										
Chloride	ND	1.00	mg/L							
LCS (B4K0674-BS1)										
Chloride	5.02	1.00	mg/L	5.00		100	90-110			
Duplicate (B4K0674-DUP1)	**Source: 4110482-08**									
Chloride	ND	1.00	mg/L		ND				20	
Duplicate (B4K0674-DUP2)	**Source: 4110495-03**									
Chloride	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0674-MS1)	**Source: 4110482-08**									
Chloride	3.25	1.00	mg/L	3.00	ND	83	90-110			S1

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0674 - General Prep - IC										
Matrix Spike (B4K0674-MS2)	**Source: 4110495-03**									
Chloride	3.34	1.00	mg/L	3.00	ND	83	90-110			S1
Batch B4K0675 - General Prep - IC										
Blank (B4K0675-BLK1)										
Sulfate	ND	1.00	mg/L							
LCS (B4K0675-BS1)										
Sulfate	4.98	1.00	mg/L	5.00		100	90-110			
Duplicate (B4K0675-DUP1)	**Source: 4110482-08**									
Sulfate	2.16	1.00	mg/L		2.23			3	20	
Duplicate (B4K0675-DUP2)	**Source: 4110495-03**									
Sulfate	1.77	1.00	mg/L		1.80			2	20	
Matrix Spike (B4K0675-MS1)	**Source: 4110482-08**									
Sulfate	5.08	1.00	mg/L	3.00	2.23	95	90-110			
Matrix Spike (B4K0675-MS2)	**Source: 4110495-03**									
Sulfate	4.59	1.00	mg/L	3.00	1.80	93	90-110			
Batch B4K0771 - General Prep - Phenol										
Blank (B4K0771-BLK1)										
Total Recoverable Phenols	ND	0.005	mg/L							
LCS (B4K0771-BS1)										
Total Recoverable Phenols	0.0374	0.005	mg/L	0.0400		94	90-110			
Duplicate (B4K0771-DUP1)	**Source: 4110475-15**									
Total Recoverable Phenols	0.0060	0.005	mg/L		ND			46	20	P3

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0771 - General Prep - Phenol										
Duplicate (B4K0771-DUP2)	**Source: 4110475-16**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Matrix Spike (B4K0771-MS1)	**Source: 4110475-15**									
Total Recoverable Phenols	0.0380	0.005	mg/L	0.0400	ND	86	75-125			
Matrix Spike (B4K0771-MS2)	**Source: 4110475-16**									
Total Recoverable Phenols	0.0374	0.005	mg/L	0.0400	ND	94	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0428 - EPA 200.7										
Blank (B4K0428-BLK1)										
Barium	ND	0.010	mg/L							
Calcium	ND	0.10	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.10	mg/L							
Potassium	ND	0.50	mg/L							
Sodium	ND	0.50	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B4K0428-BS1)										
Barium	1.04	0.010	mg/L	1.00		104	85-115			
Calcium	1.02	0.10	mg/L	1.00		102	85-115			
Iron	1.02	0.050	mg/L	1.00		102	85-115			
Magnesium	1.02	0.10	mg/L	1.00		102	85-115			
Potassium	9.33	0.50	mg/L	10.0		93	85-115			
Sodium	1.06	0.50	mg/L	1.00		106	85-115			
Zinc	1.05	0.020	mg/L	1.00		105	85-115			
Duplicate (B4K0428-DUP1)	**Source: 4110482-08**									
Barium	0.01	0.010	mg/L		0.01			6	20	
Calcium	1.61	0.10	mg/L		1.60			1	20	
Iron	ND	0.050	mg/L		ND				20	
Magnesium	1.09	0.10	mg/L		1.08			0.4	20	
Potassium	1.14	0.50	mg/L		1.14			0.1	20	
Sodium	1.96	0.50	mg/L		1.96			0.3	20	
Zinc	ND	0.020	mg/L		ND				20	
Duplicate (B4K0428-DUP2)	**Source: 4110495-03**									
Barium	0.01	0.010	mg/L		0.01			8	20	
Calcium	1.98	0.10	mg/L		1.95			2	20	
Iron	0.168	0.050	mg/L		0.156			7	20	
Magnesium	1.06	0.10	mg/L		1.05			0.8	20	
Potassium	1.40	0.50	mg/L		1.39			0.7	20	
Sodium	1.80	0.50	mg/L		1.79			0.7	20	
Zinc	ND	0.020	mg/L		ND				20	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0428 - EPA 200.7										
Matrix Spike (B4K0428-MS1)	**Source: 4110482-08**									
Barium	1.05	0.010	mg/L	1.00	0.01	103	70-130			
Calcium	2.66	0.10	mg/L	1.00	1.60	106	70-130			
Iron	1.05	0.050	mg/L	1.00	ND	102	70-130			
Magnesium	2.11	0.10	mg/L	1.00	1.08	103	70-130			
Potassium	10.4	0.50	mg/L	10.0	1.14	93	70-130			
Sodium	2.84	0.50	mg/L	1.00	1.96	89	70-130			
Zinc	1.04	0.020	mg/L	1.00	ND	104	70-130			
Matrix Spike (B4K0428-MS2)	**Source: 4110495-03**									
Barium	1.07	0.010	mg/L	1.00	0.01	106	70-130			
Calcium	3.15	0.10	mg/L	1.00	1.95	120	70-130			
Iron	1.22	0.050	mg/L	1.00	0.156	106	70-130			
Magnesium	2.12	0.10	mg/L	1.00	1.05	107	70-130			
Potassium	11.0	0.50	mg/L	10.0	1.39	97	70-130			
Sodium	2.76	0.50	mg/L	1.00	1.79	98	70-130			
Zinc	1.06	0.020	mg/L	1.00	ND	106	70-130			
Post Spike (B4K0428-PS1)	**Source: 4110482-08**									
Barium	1.04		mg/L	1.00	0.01	103	85-115			
Calcium	2.64		mg/L	1.00	1.60	105	85-115			
Iron	1.04		mg/L	1.00	ND	102	85-115			
Magnesium	2.11		mg/L	1.00	1.08	103	85-115			
Potassium	10.4		mg/L	10.0	1.14	92	85-115			
Sodium	2.83		mg/L	1.00	1.96	87	85-115			
Zinc	1.02		mg/L	1.00	ND	102	85-115			
Post Spike (B4K0428-PS2)	**Source: 4110495-03**									
Barium	1.04		mg/L	1.00	0.01	103	85-115			
Calcium	3.04		mg/L	1.00	1.95	109	85-115			
Iron	1.18		mg/L	1.00	0.156	102	85-115			
Magnesium	2.08		mg/L	1.00	1.05	102	85-115			
Potassium	10.7		mg/L	10.0	1.39	93	85-115			
Sodium	2.70		mg/L	1.00	1.79	91	85-115			
Zinc	1.03		mg/L	1.00	ND	102	85-115			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0429 - EPA 200.8										
Blank (B4K0429-BLK1)										
Arsenic	ND	0.005	mg/L							
Cadmium	ND	0.001	mg/L							
Chromium	ND	0.002	mg/L							
Copper	ND	0.005	mg/L							
Lead	ND	0.005	mg/L							
Manganese	ND	0.005	mg/L							
Nickel	ND	0.005	mg/L							
Selenium	ND	0.005	mg/L							
LCS (B4K0429-BS1)										
Arsenic	0.209	0.005	mg/L	0.200		105	85-115			
Cadmium	0.209	0.001	mg/L	0.200		104	85-115			
Chromium	0.202	0.002	mg/L	0.200		101	85-115			
Copper	0.208	0.005	mg/L	0.200		104	85-115			
Lead	0.203	0.005	mg/L	0.200		101	85-115			
Manganese	0.203	0.005	mg/L	0.200		102	85-115			
Nickel	0.206	0.005	mg/L	0.200		103	85-115			
Selenium	0.224	0.005	mg/L	0.200		112	85-115			
Matrix Spike (B4K0429-MS1)	**Source: 4110475-15**									
Arsenic	0.217	0.005	mg/L	0.200	ND	108	70-130			
Cadmium	0.207	0.001	mg/L	0.200	ND	104	70-130			
Chromium	0.199	0.002	mg/L	0.200	ND	99	70-130			
Copper	0.198	0.005	mg/L	0.200	ND	99	70-130			
Lead	0.201	0.005	mg/L	0.200	ND	101	70-130			
Manganese	0.205	0.005	mg/L	0.200	0.006	99	70-130			
Nickel	0.198	0.005	mg/L	0.200	ND	98	70-130			
Selenium	0.219	0.005	mg/L	0.200	ND	109	70-130			
Matrix Spike (B4K0429-MS2)	**Source: 4110475-16**									
Arsenic	0.203	0.005	mg/L	0.200	ND	102	70-130			
Cadmium	0.206	0.001	mg/L	0.200	ND	103	70-130			
Chromium	0.201	0.002	mg/L	0.200	0.003	99	70-130			
Copper	0.205	0.005	mg/L	0.200	ND	102	70-130			
Lead	0.198	0.005	mg/L	0.200	ND	99	70-130			
Manganese	0.205	0.005	mg/L	0.200	ND	100	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0429 - EPA 200.8										
Matrix Spike (B4K0429-MS2)	**Source: 4110475-16**									
Nickel	0.206	0.005	mg/L	0.200	ND	102	70-130			
Selenium	0.212	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike Dup (B4K0429-MSD1)	**Source: 4110475-15**									
Arsenic	0.212	0.005	mg/L	0.200	ND	106	70-130	2	20	
Cadmium	0.203	0.001	mg/L	0.200	ND	101	70-130	2	20	
Chromium	0.195	0.002	mg/L	0.200	ND	97	70-130	2	20	
Copper	0.196	0.005	mg/L	0.200	ND	98	70-130	1	20	
Lead	0.198	0.005	mg/L	0.200	ND	99	70-130	1	20	
Manganese	0.203	0.005	mg/L	0.200	0.006	98	70-130	1	20	
Nickel	0.196	0.005	mg/L	0.200	ND	97	70-130	1	20	
Selenium	0.215	0.005	mg/L	0.200	ND	107	70-130	2	20	
Matrix Spike Dup (B4K0429-MSD2)	**Source: 4110475-16**									
Arsenic	0.204	0.005	mg/L	0.200	ND	102	70-130	0.4	20	
Cadmium	0.205	0.001	mg/L	0.200	ND	103	70-130	0.2	20	
Chromium	0.200	0.002	mg/L	0.200	0.003	99	70-130	0.6	20	
Copper	0.205	0.005	mg/L	0.200	ND	103	70-130	0.3	20	
Lead	0.200	0.005	mg/L	0.200	ND	100	70-130	0.9	20	
Manganese	0.203	0.005	mg/L	0.200	ND	99	70-130	0.9	20	
Nickel	0.204	0.005	mg/L	0.200	ND	101	70-130	0.9	20	
Selenium	0.212	0.005	mg/L	0.200	ND	106	70-130	0.1	20	
Post Spike (B4K0429-PS1)	**Source: 4110475-15**									
Arsenic	0.255		mg/L	0.250	ND	102	75-125			
Cadmium	0.243		mg/L	0.250	ND	97	75-125			
Chromium	0.234		mg/L	0.250	ND	93	75-125			
Copper	0.236		mg/L	0.250	ND	94	75-125			
Lead	0.237		mg/L	0.250	ND	95	75-125			
Manganese	0.242		mg/L	0.250	0.006	94	75-125			
Nickel	0.233		mg/L	0.250	ND	93	75-125			
Selenium	0.260		mg/L	0.250	ND	104	75-125			
Post Spike (B4K0429-PS2)	**Source: 4110475-16**									
Arsenic	0.249		mg/L	0.250	ND	100	75-125			
Cadmium	0.245		mg/L	0.250	ND	98	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0429 - EPA 200.8										
Post Spike (B4K0429-PS2)	**Source: 4110475-16**									
Chromium	0.241		mg/L	0.250	0.003	96	75-125			
Copper	0.246		mg/L	0.250	ND	98	75-125			
Lead	0.247		mg/L	0.250	ND	98	75-125			
Manganese	0.246		mg/L	0.250	ND	97	75-125			
Nickel	0.245		mg/L	0.250	ND	97	75-125			
Selenium	0.260		mg/L	0.250	ND	104	75-125			
Batch B4K0431 - EPA 200.8 Mod										
Blank (B4K0431-BLK1)										
Silver	ND	0.002	mg/L							
LCS (B4K0431-BS1)										
Silver	0.059	0.002	mg/L	0.0600		99	85-115			
Matrix Spike (B4K0431-MS1)	**Source: 4110475-15**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130			
Matrix Spike (B4K0431-MS2)	**Source: 4110475-16**									
Silver	0.058	0.002	mg/L	0.0600	ND	96	70-130			
Matrix Spike Dup (B4K0431-MSD1)	**Source: 4110475-15**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130	0.4	20	
Matrix Spike Dup (B4K0431-MSD2)	**Source: 4110475-16**									
Silver	0.064	0.002	mg/L	0.0600	ND	107	70-130	10	20	
Post Spike (B4K0431-PS1)	**Source: 4110475-15**									
Silver	0.066		mg/L	0.0700	ND	94	75-125			
Post Spike (B4K0431-PS2)	**Source: 4110475-16**									
Silver	0.066		mg/L	0.0700	ND	95	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0432 - EPA 245.1										
Blank (B4K0432-BLK1)										
Mercury	ND	0.00020	mg/L							
LCS (B4K0432-BS1)										
Mercury	0.0049	0.00020	mg/L	0.00500		99	85-115			
Duplicate (B4K0432-DUP1)	**Source: 4110475-15**									
Mercury	ND	0.00020	mg/L		ND				20	
Duplicate (B4K0432-DUP2)	**Source: 4110475-16**									
Mercury	ND	0.00020	mg/L		ND				20	
Matrix Spike (B4K0432-MS1)	**Source: 4110475-15**									
Mercury	0.0051	0.00020	mg/L	0.00500	ND	103	70-130			
Matrix Spike (B4K0432-MS2)	**Source: 4110475-16**									
Mercury	0.0049	0.00020	mg/L	0.00500	ND	99	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110482
Canton, NC 28716		Reported:	12/11/14 14:25

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 200.7 Metal Digestion				
EPA 200.7	B4K0428	4110482-07	11/18/2014 08:08	MEC
EPA 200.7	B4K0428	4110482-08	11/18/2014 08:08	MEC
EPA 200.7	B4K0428	4110482-09	11/18/2014 08:08	MEC
EPA 200.8 Metal Digestion				
EPA 200.8	B4K0429	4110482-07	11/17/2014 16:20	DER
EPA 200.8	B4K0429	4110482-08	11/17/2014 16:20	DER
EPA 200.8	B4K0429	4110482-09	11/17/2014 16:20	DER
EPA 200.8 Silver/Antimony Digestion				
EPA 200.8 Mod	B4K0431	4110482-07	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0431	4110482-08	11/17/2014 13:58	DER
EPA 200.8 Mod	B4K0431	4110482-09	11/17/2014 13:58	DER
EPA 245.1 Mercury Digestion				
EPA 245.1	B4K0432	4110482-07	11/20/2014 11:26	DER
EPA 245.1	B4K0432	4110482-08	11/20/2014 11:26	DER
EPA 245.1	B4K0432	4110482-09	11/20/2014 11:26	DER

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
P3	The RPD of sample and duplicate were evaluated using +/- the reporting limit. The sample / duplicate results were less than 4 times the reporting limit.
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.

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Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 4110482

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton, NC

Report To:

Email Address

Telephone #

PO #

Project # 04-159

Filtered (Yes/No)		N								
Cooled (Yes/No)		Y								
Container Type (Plastic/Glass)		P		G	P		G			
Container Volume (mL)		500 mL	250 mL	1 L	250 mL	1/2 gal	250 mL			
Sample Type (Grab/Composite)		G								
Sample Source (WW, GW, DW, SW, S, Other)		GW								
Preservation Code(s)		B	C	C	J	A	B			
Parameter(s) →		Metals*	NO3	Phenols	TOC	TOS; Na; Sal; F; Cl	TOX ⊛			
R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers						COMMENTS
-07, -10	11/12	1001	MW7A	6		1	1	1	1	1	1	
-08, -11		1216	MW17	6		1	1	1	1	1	1	
-09, -12		1348	MW20	6		1	1	1	1	1	1	*As; Ba; Cd; Ca; Cr; Cu; Fe; Pb; Mg; Mn; Ni; K; Se; Ag; Na; Zn; Hg
										Field Data Collected -01 through -06
										⊛ subcontracted

SAMPLER – RELINQUISHED BY: 1. Carmen D. Woodward	DATE/TIME: 11/12/14 @ 1632	RECEIVED BY: 2. [signature]	DATE/TIME: 11.12.14 1632
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date:

Composite Start Time:

Time or Flow (Circle one) Initials:

Temperature of blank or representative sample

At time of collection °C

At time of lab receipt 1.4 °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☒ Unknown ☐ Other

Form Revised July, 2014 Page 1 of 1

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: EVERGREEN Date Received: 11.12.14 Work Order: 4110482

Carrier Name: Client FedEx UPS US Mail Courier Field Services Other: _____

Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?	X			
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			Ice Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.	X			
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: KRW

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-66391-1
Client Project/Site: 4110482

For:
Rogers & Callcott Engineers Inc
PO BOX 5655
Greenville, South Carolina 29606

Attn: Ms. Susan Gunter

Authorized for release by:
11/28/2014 12:15:00 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110482

TestAmerica Job ID: 490-66391-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-66391-1	4110482-10 MW7A	Water	11/12/14 10:01	11/14/14 08:40
490-66391-2	4110482-11 MW17	Water	11/12/14 12:16	11/14/14 08:40
490-66391-3	4110482-12 MW20	Water	11/12/14 13:48	11/14/14 08:40

Job ID: 490-66391-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-66391-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2014 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

General Chemistry
Method(s) 9020B: Breakthrough exceeded 10% of the following sample(s): 4110482-10 MW7A (490-66391-1). The concentration of the sample, however, was less than the concentration of the LCS. It is concluded that the high breakthrough is a result of matrix interferences. The data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110482

TestAmerica Job ID: 490-66391-1

Client Sample ID: 4110482-10 MW7A

Lab Sample ID: 490-66391-1

Date Collected: 11/12/14 10:01

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0706		0.0300		mg/L			11/26/14 07:35	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110482

TestAmerica Job ID: 490-66391-1

Client Sample ID: 4110482-11 MW17

Lab Sample ID: 490-66391-2

Date Collected: 11/12/14 12:16

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			11/26/14 07:35	1

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110482

TestAmerica Job ID: 490-66391-1

Client Sample ID: 4110482-12 MW20
Date Collected: 11/12/14 13:48
Date Received: 11/14/14 08:40

Lab Sample ID: 490-66391-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			11/26/14 07:35	1

QC Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110482

TestAmerica Job ID: 490-66391-1

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 490-208207/5
Matrix: Water
Analysis Batch: 208207

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			11/21/14 08:44	1

Lab Sample ID: LCS 490-208207/4
Matrix: Water
Analysis Batch: 208207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Halogens, Total Organic			0.250	0.2361		mg/L		94	90 - 110		

Lab Sample ID: 240-43996-H-3 MS
Matrix: Water
Analysis Batch: 208207

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Halogens, Total Organic	<0.0300		0.100	0.1127		mg/L		113	70 - 130		

QC Association Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110482

TestAmerica Job ID: 490-66391-1

General Chemistry

Analysis Batch: 208207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-43996-H-3 MS	Matrix Spike	Total/NA	Water	9020B	
490-66391-1	4110482-10 MW7A	Total/NA	Water	9020B	
490-66391-2	4110482-11 MW17	Total/NA	Water	9020B	
490-66391-3	4110482-12 MW20	Total/NA	Water	9020B	
LCS 490-208207/4	Lab Control Sample	Total/NA	Water	9020B	
MB 490-208207/5	Method Blank	Total/NA	Water	9020B	

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110482

TestAmerica Job ID: 490-66391-1

Client Sample ID: 4110482-10 MW7A

Lab Sample ID: 490-66391-1

Date Collected: 11/12/14 10:01

Matrix: Water

Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			208207	11/26/14 07:35	JAB	TAL NSH

Client Sample ID: 4110482-11 MW17

Lab Sample ID: 490-66391-2

Date Collected: 11/12/14 12:16

Matrix: Water

Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			208207	11/26/14 07:35	JAB	TAL NSH

Client Sample ID: 4110482-12 MW20

Lab Sample ID: 490-66391-3

Date Collected: 11/12/14 13:48

Matrix: Water

Date Received: 11/14/14 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			208207	11/26/14 07:35	JAB	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110482

TestAmerica Job ID: 490-66391-1

Method	Method Description	Protocol	Laboratory
9020B	Organic Halides, Total (TOX)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110482

TestAmerica Job ID: 490-66391-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-14
South Carolina	State Program	4	84009 (001)	02-28-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

490-66391 Chain of Custody

Cooler Received/Opened On : 11/14/2014 @ 0840

1. Tracking # 1966 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 18290455

2. Temperature of rep. sample or temp blank when opened: 2.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial)

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) mam

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) mam

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) mam

I certify that I attached a label with the unique LIMS number to each container (intial) mam

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

BIS = Broken in shipment

Loc: 490
66391

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER _____

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556
Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140
215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Rogers and Callcott
Address:
Report To: Susan Gunter
Email Address:
Telephone #:
PO #: Project #:

Total Number of Containers												
Parameter(s) →	N	Y	G	500	G	GW	B	TOX				
Filtered (Yes/No)												
Cooled (Yes/No)												
Container Type (Plastic/Glass)												
Container Volume (mL)												
Sample Type (Grab/Composite)												
Sample Source (WW, GW, DW, SW, S, Other)												

Preservation Code(s)
A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

R & C WORK ORDER	YR 2014 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) → N	Y	G	500	G	GW	B	TOX	COMMENTS
4110482-10	11-12	1001	MW7A	1	1								Sub to Test America 1
-11	11-12	1216	MW17	1	1								2
-12	11-12	1348	MW20	1	1								NC Samples 3

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11.13.14 1600	2. [signature] TAN	11.14.14 0840
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____
Composite Start Time: _____
Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample
At time of collection 2.3 °C
At time of lab receipt _____ °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other _____

Form Revised July, 2014 Page _____ of _____

Login Sample Receipt Checklist

Client: Rogers & Callcott Engineers Inc

Job Number: 490-66391-1

Login Number: 66391
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☒ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW7A

Date: 11/12/14 Field Personnel: CGW

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny, 45 °F Page 1 of 5

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☒ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 10.41 @ 0905
Total Depth of Well (b): 26.39
Length of Water Column in Well (b-a): 15.98
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	2.6	
3 Casing Vol	7.8	7.8

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown / Moderate / Light / None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (5stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/12/14	0911	-	0.16	10.41	0.0	5.64	15.9	555.6	|	|	1	<5	
|	0927	1	|	11.45	2.6	5.60	16.7	555.6	|	|	1	<5	
|	0943	2	|	11.51	5.2	5.60	17.2	545.2	|	|	1	<5	
|	0959	3	|	11.55	7.8	5.66	17.1	544.9	|	|	1	<5	
		4											
		5											
		6											
		7					CGW 11/12/14						

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1001 - All Samples

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW17

Date: 11/12/14 Field Personnel: Cobw - JHF

Site Name/Location: Evergreen Packaging Weather Conditions/~Temp: Sunny 158 °F Page 2 of 5

Method of Well Evacuation or Sample Collection

Pump	Bailer
☒ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 46.28 @ 1136
Total Depth of Well (b): 65.59
Length of Water Column in Well (b-a): 19.31
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	12.6	
3 Casing Vol	37.8	37.8

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Materials: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / Lid broken @ hinges
Vegetation: Overgrown / Moderate / Light / None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/12/14	1148	-	1.5	46.28	0.0	5.89	17.7	31.2			1	<5	
	1157	1		51.16	12.6	5.83	17.5	28.1			1	<5	
	1206	2		52.75	25.2	5.81	17.3	27.6			1	<5	
	1215	3		53.55	37.8	5.84	17.2	27.5			1	<5	
		4											
		5											
		6											
		7											

Cobw 11/12/14

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1216

Comments:

Revised 1-10-13

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW20

Date: 11/12/13 Field Personnel: Chow

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny / 58 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☒ Grundfos	☐ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐ _____	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 44.50 @ 1311
Total Depth of Well (b): 61.59
Length of Water Column in Well (b-a): 17.09
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: NA

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	11.2	
3 Casing Vol	33.6	56.0

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Tag? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/12/14	1317	-	2.0	44.50	0.0	5.94	19.3	116.7			1	13.9	
	1323	1		47.25	11.2	6.02	19.2	92.3			1	<5	
	1329	2		48.19	22.4	6.09	17.6	95.9			1	<5	
	1335	3		48.59	33.6	6.09	17.3	102.2			1	<5	
	1341	4		49.03	44.8	6.27	17.1	110.7			1	<5	
	1347	5		49.36	56.0	6.29	17.1	118.3			1	<5	
		6											
		7										Cozzi	11/12/14

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time: 1348 - All Samples

Comments:

Rogers and Callcott Environmental

Field Meter Calibration Record

Client: Evergreen Packaging **Date:** 11/12/14

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion Star A325 SN: G01769 Probe: GPI-12000

Time: 0839 Analyst: CBW Cell Constant 0.473

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
P403994	9.83		9.41	17.4
P404453	100.4		94.9	18.5
P403995	999		969.2	17.2
P404447	SSS conc:	447	426.1	17.7

Temperature compensation for pH / conductivity meter : +1.0

pH Calibration - EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SVI-12505

Time: 0835 Analyst: CBW Slope: 98.7

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
P404588	4.0		4.00
P405394	7.0		7.06
P404841	10.0		10.09
P403457	SSS conc:	4.0	3.99

Turbidity Meter Calibration
Field Screen Method

Meter Make / Model: Hach 2100P SN: 13020023551 Date of most recent calibration: 11/3/14

Time: 0837 Analyst: CBW

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
P405639	5.24	5.14
P405640	49.8	48.5
P405641	485	487

Reviewed by: _____ Date: _____

Revised 01/21/13

Rogers and Callcott Environmental

Continuing Calibration Verification

Client: Evergreen Packaging **Date:** 11/12/14

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion Star A325 SN: G01769 Probe: QP1-12000

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1211	CBW	100.4	102.1 @ 18.7 °C
1356	CBW	999	962.3 @ 20.7 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SV1-12505

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1210	CBW	7.0	7.02
1355	CBW	4.0	4.04

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 13020C023551

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1210	CBW	49.8	49.6
1355	CBW	5.24	5.23

Field Duplicate

Well ID: MW7A

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1000	CBW	544.3	5.67	<5	17.1

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Revised 01/21/13

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

Client	Evergreen Packaging C/O Mark Lancaster - Rogers and Callcott 175 Main Street Canton, NC 28716	**Project:** **Work Order:** **Received:**	MW and SW 4110495 11/13/2014 07:30

Dear Client:

Rogers and Callcott appreciates the opportunity to be of service to you. The attached laboratory services report includes analytical results and chain of custody for samples that were received on November 13, 2014. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements for the TNI standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty is available upon request.

Privileged / Confidential information may be contained in this report and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify Rogers and Callcott immediately.

We strive to provide excellent service to our clients. Please contact Kara Hrkach, your Project Manager, at kara.hrkach@rogersandcallcott.com or (864)-335-4956 if you have any questions about this report.

CC: George Maalouf - Rogers and Callcott

Report Approved By:

Kara Hrkach

Kara Hrkach
Project Manager

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Rogers & Callcott ENVIRONMENTAL

Certificate of Analysis

South Carolina Greenville Laboratory Identification 23105
South Carolina Columbia Laboratory Identification 40572
North Carolina Laboratory Certification Number 27
North Carolina Drinking Water Lab Number 45710
NELAP Utah Certificate Number SC000042014-1
Georgia Drinking Water Lab ID 880

Client Evergreen Packaging
C/O Mark Lancaster - Rogers and Callcott
175 Main Street
Canton, NC 28716

Project: MW and SW
Work Order: 4110495
Received: 11/13/2014 07:30

Sample Number	Sample Description	Matrix	Sampled	Type
4110495-01	MW9	Ground Water	11/12/14 08:36	Grab
4110495-02	MW9	Ground Water	11/12/14 15:52	Grab
4110495-03	MW9	Ground Water	11/12/14 15:53	Grab
4110495-04	MW9	Ground Water	11/12/14 15:53	Grab

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

Sample Data

Sample Number 4110495-01
Sample Description MW9 collected on 11/12/14 08:36

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
Depth to Water	**37.79**	0.00	Ft	1.00	11/12/14 08:36	-		RJC	B4K0430

Sample Number 4110495-02
Sample Description MW9 collected on 11/12/14 15:52

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Field Parameters									
pH	**5.9**	0.1	pH Units	1.00	11/12/14 15:52	EPA 9040C		RJC	B4K0430
Specific Conductance at 25 C	**366**	10.0	umhos/cm	1.00	11/12/14 15:52	EPA 9050A		RJC	B4K0430
Temperature	**14.4**	0.0	°C	1.00	11/12/14 15:52	SM 2550B-2010		RJC	B4K0430
Turbidity (Field)	ND	5.0	NTU	1.00	11/12/14 15:52	Field Screen		RJC	B4K0430

Sample Number 4110495-03
Sample Description MW9 collected on 11/12/14 15:53

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
General Chemistry Parameters									
Chloride	ND	1.00	mg/L	1.00	11/18/14 21:13	EPA 300.0	S1	LJW	B4K0674
Fluoride	ND	0.10	mg/L	1.00	11/18/14 21:13	EPA 300.0		LJW	B4K0673
Nitrate-Nitrite as N	**0.93**	0.10	mg/L	1.00	11/18/14 16:57	SM 4500NO3H-2011		REH	B4K0594
Nitrite as N	ND	0.010	mg/L	1.00	11/13/14 12:18	SM 4500NO2B-2011		REH	B4K0482
Sulfate	**1.80**	1.00	mg/L	1.00	11/18/14 21:13	EPA 300.0		LJW	B4K0675
Total Dissolved Solids	ND	25.0	mg/L	1.00	11/17/14 16:30	SM 2540C-2011		JRA	B4K0596
Total Organic Carbon	ND	1.00	mg/L	1.00	11/19/14 05:27	SM 5310C-2011		LJW	B4K0624
Total Recoverable Phenols	ND	0.005	mg/L	1.00	11/21/14 08:00	EPA 420.1		DJM	B4K0771
Total Metals									
Mercury	ND	0.00020	mg/L	1.00	11/21/14 12:38	EPA 245.1		DER	B4K0432
Arsenic	ND	0.005	mg/L	1.00	11/19/14 14:38	EPA 200.8		DER	B4K0429
Barium	**0.012**	0.010	mg/L	1.00	11/20/14 14:59	EPA 200.7		MEC	B4K0428
Cadmium	ND	0.001	mg/L	1.00	11/19/14 14:38	EPA 200.8		DER	B4K0429
Calcium	**2.0**	0.10	mg/L	1.00	11/20/14 14:59	EPA 200.7		MEC	B4K0428
Chromium	ND	0.002	mg/L	1.00	11/19/14 14:38	EPA 200.8		DER	B4K0429
Copper	ND	0.005	mg/L	1.00	11/19/14 14:38	EPA 200.8		DER	B4K0429

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

Sample Number 4110495-03
Sample Description MW9 collected on 11/12/14 15:53

Parameter	Result	Reporting Limit	Units	DF	Analyzed	Method	Flag	Analyst	Batch
Total Metals									
Iron	**0.16**	0.050	mg/L	1.00	11/20/14 14:59	EPA 200.7		MEC	B4K0428
Lead	ND	0.005	mg/L	1.00	11/19/14 14:38	EPA 200.8		DER	B4K0429
Magnesium	**1.1**	0.10	mg/L	1.00	11/20/14 14:59	EPA 200.7		MEC	B4K0428
Manganese	**0.014**	0.005	mg/L	1.00	11/19/14 14:38	EPA 200.8		DER	B4K0429
Nickel	ND	0.005	mg/L	1.00	11/19/14 14:38	EPA 200.8		DER	B4K0429
Potassium	**1.4**	0.50	mg/L	1.00	11/20/14 14:59	EPA 200.7		MEC	B4K0428
Selenium	ND	0.005	mg/L	1.00	11/19/14 14:38	EPA 200.8		DER	B4K0429
Silver	ND	0.002	mg/L	1.00	11/18/14 14:08	EPA 200.8		DER	B4K0431
Sodium	**1.8**	0.50	mg/L	1.00	11/20/14 14:59	EPA 200.7		MEC	B4K0428
Zinc	ND	0.020	mg/L	1.00	11/20/14 14:59	EPA 200.7		MEC	B4K0428

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Subcontracted Analyses

Sample Number 4110495-04
Sample Description MW9 collected on 11/12/14 15:53

Parameter

Subcontract TOH

These analyses were subcontracted to Test America. The subcontracted results are available at the end of the report.

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0482 - General Prep - Wet Chem										
Blank (B4K0482-BLK1)										
Nitrite as N	ND	0.010	mg/L							
LCS (B4K0482-BS1)										
Nitrite as N	0.499	0.010	mg/L	0.500		100	85-115			
Matrix Spike (B4K0482-MS1)	**Source: 4110474-27**									
Nitrite as N	0.258	0.010	mg/L	0.250	ND	103	80-120			
Matrix Spike Dup (B4K0482-MSD1)	**Source: 4110474-27**									
Nitrite as N	0.254	0.010	mg/L	0.250	ND	102	80-120	1	20	
Batch B4K0594 - General Prep - Wet Chem KL										
Blank (B4K0594-BLK1)										
Nitrate-Nitrite as N	ND	0.10	mg/L							
LCS (B4K0594-BS1)										
Nitrate-Nitrite as N	1.94	0.10	mg/L	2.00		97	85-115			
Matrix Spike (B4K0594-MS1)	**Source: 4110475-16**									
Nitrate-Nitrite as N	1.21	0.10	mg/L	1.25	ND	90	75-125			
Matrix Spike Dup (B4K0594-MSD1)	**Source: 4110475-16**									
Nitrate-Nitrite as N	1.21	0.10	mg/L	1.25	ND	89	75-125	0.5	20	
Batch B4K0596 - General Prep - Solids										
Blank (B4K0596-BLK1)										
Total Dissolved Solids	ND	25.0	mg/L							
Duplicate (B4K0596-DUP1)	**Source: 4110473-04**									
Total Dissolved Solids	3310	250	mg/L		3410			3	15	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0624 - General Prep - TOC										
Blank (B4K0624-BLK1)										
Total Organic Carbon	ND	1.00	mg/L							
LCS (B4K0624-BS1)										
Total Organic Carbon	4.02	1.00	mg/L	4.00		101	85-115			
Batch B4K0673 - General Prep - IC										
Blank (B4K0673-BLK1)										
Fluoride	ND	0.10	mg/L							
LCS (B4K0673-BS1)										
Fluoride	0.52	0.10	mg/L	0.500		105	90-110			
Duplicate (B4K0673-DUP1)	**Source: 4110482-08**									
Fluoride	ND	0.10	mg/L		ND				20	
Duplicate (B4K0673-DUP2)	**Source: 4110495-03**									
Fluoride	ND	0.10	mg/L		ND				20	
Matrix Spike (B4K0673-MS1)	**Source: 4110482-08**									
Fluoride	0.34	0.10	mg/L	0.300	ND	99	90-110			
Matrix Spike (B4K0673-MS2)	**Source: 4110495-03**									
Fluoride	0.32	0.10	mg/L	0.300	ND	105	90-110			
Batch B4K0674 - General Prep - IC										
Blank (B4K0674-BLK1)										
Chloride	ND	1.00	mg/L							
LCS (B4K0674-BS1)										
Chloride	5.02	1.00	mg/L	5.00		100	90-110			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0674 - General Prep - IC										
Duplicate (B4K0674-DUP1)	**Source: 4110482-08**									
Chloride	ND	1.00	mg/L		ND				20	
Duplicate (B4K0674-DUP2)	**Source: 4110495-03**									
Chloride	ND	1.00	mg/L		ND				20	
Matrix Spike (B4K0674-MS1)	**Source: 4110482-08**									
Chloride	3.25	1.00	mg/L	3.00	ND	83	90-110			S1
Matrix Spike (B4K0674-MS2)	**Source: 4110495-03**									
Chloride	3.34	1.00	mg/L	3.00	ND	83	90-110			S1
Batch B4K0675 - General Prep - IC										
Blank (B4K0675-BLK1)										
Sulfate	ND	1.00	mg/L							
LCS (B4K0675-BS1)										
Sulfate	4.98	1.00	mg/L	5.00		100	90-110			
Duplicate (B4K0675-DUP1)	**Source: 4110482-08**									
Sulfate	2.16	1.00	mg/L		2.23			3	20	
Duplicate (B4K0675-DUP2)	**Source: 4110495-03**									
Sulfate	1.77	1.00	mg/L		1.80			2	20	
Matrix Spike (B4K0675-MS1)	**Source: 4110482-08**									
Sulfate	5.08	1.00	mg/L	3.00	2.23	95	90-110			
Matrix Spike (B4K0675-MS2)	**Source: 4110495-03**									
Sulfate	4.59	1.00	mg/L	3.00	1.80	93	90-110			
Batch B4K0771 - General Prep - Phenol										
Blank (B4K0771-BLK1)										
Total Recoverable Phenols	ND	0.005	mg/L							

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

General Chemistry Parameters
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0771 - General Prep - Phenol										
LCS (B4K0771-BS1)										
Total Recoverable Phenols	0.0374	0.005	mg/L	0.0400		94	90-110			
Duplicate (B4K0771-DUP1)	**Source: 4110475-15**									
Total Recoverable Phenols	0.0060	0.005	mg/L		ND			46	20	P3
Duplicate (B4K0771-DUP2)	**Source: 4110475-16**									
Total Recoverable Phenols	ND	0.005	mg/L		ND				20	
Matrix Spike (B4K0771-MS1)	**Source: 4110475-15**									
Total Recoverable Phenols	0.0380	0.005	mg/L	0.0400	ND	86	75-125			
Matrix Spike (B4K0771-MS2)	**Source: 4110475-16**									
Total Recoverable Phenols	0.0374	0.005	mg/L	0.0400	ND	94	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0428 - EPA 200.7										
Blank (B4K0428-BLK1)										
Barium	ND	0.010	mg/L							
Calcium	ND	0.10	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.10	mg/L							
Potassium	ND	0.50	mg/L							
Sodium	ND	0.50	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B4K0428-BS1)										
Barium	1.04	0.010	mg/L	1.00		104	85-115			
Calcium	1.02	0.10	mg/L	1.00		102	85-115			
Iron	1.02	0.050	mg/L	1.00		102	85-115			
Magnesium	1.02	0.10	mg/L	1.00		102	85-115			
Potassium	9.33	0.50	mg/L	10.0		93	85-115			
Sodium	1.06	0.50	mg/L	1.00		106	85-115			
Zinc	1.05	0.020	mg/L	1.00		105	85-115			
Duplicate (B4K0428-DUP1)	**Source: 4110482-08**									
Barium	0.01	0.010	mg/L		0.01			6	20	
Calcium	1.61	0.10	mg/L		1.60			1	20	
Iron	ND	0.050	mg/L		ND				20	
Magnesium	1.09	0.10	mg/L		1.08			0.4	20	
Potassium	1.14	0.50	mg/L		1.14			0.1	20	
Sodium	1.96	0.50	mg/L		1.96			0.3	20	
Zinc	ND	0.020	mg/L		ND				20	
Duplicate (B4K0428-DUP2)	**Source: 4110495-03**									
Barium	0.01	0.010	mg/L		0.01			8	20	
Calcium	1.98	0.10	mg/L		1.95			2	20	
Iron	0.168	0.050	mg/L		0.156			7	20	
Magnesium	1.06	0.10	mg/L		1.05			0.8	20	
Potassium	1.40	0.50	mg/L		1.39			0.7	20	
Sodium	1.80	0.50	mg/L		1.79			0.7	20	
Zinc	ND	0.020	mg/L		ND				20	

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0428 - EPA 200.7										
Matrix Spike (B4K0428-MS1)	**Source: 4110482-08**									
Barium	1.05	0.010	mg/L	1.00	0.01	103	70-130			
Calcium	2.66	0.10	mg/L	1.00	1.60	106	70-130			
Iron	1.05	0.050	mg/L	1.00	ND	102	70-130			
Magnesium	2.11	0.10	mg/L	1.00	1.08	103	70-130			
Potassium	10.4	0.50	mg/L	10.0	1.14	93	70-130			
Sodium	2.84	0.50	mg/L	1.00	1.96	89	70-130			
Zinc	1.04	0.020	mg/L	1.00	ND	104	70-130			
Matrix Spike (B4K0428-MS2)	**Source: 4110495-03**									
Barium	1.07	0.010	mg/L	1.00	0.01	106	70-130			
Calcium	3.15	0.10	mg/L	1.00	1.95	120	70-130			
Iron	1.22	0.050	mg/L	1.00	0.156	106	70-130			
Magnesium	2.12	0.10	mg/L	1.00	1.05	107	70-130			
Potassium	11.0	0.50	mg/L	10.0	1.39	97	70-130			
Sodium	2.76	0.50	mg/L	1.00	1.79	98	70-130			
Zinc	1.06	0.020	mg/L	1.00	ND	106	70-130			
Post Spike (B4K0428-PS1)	**Source: 4110482-08**									
Barium	1.04		mg/L	1.00	0.01	103	85-115			
Calcium	2.64		mg/L	1.00	1.60	105	85-115			
Iron	1.04		mg/L	1.00	ND	102	85-115			
Magnesium	2.11		mg/L	1.00	1.08	103	85-115			
Potassium	10.4		mg/L	10.0	1.14	92	85-115			
Sodium	2.83		mg/L	1.00	1.96	87	85-115			
Zinc	1.02		mg/L	1.00	ND	102	85-115			
Post Spike (B4K0428-PS2)	**Source: 4110495-03**									
Barium	1.04		mg/L	1.00	0.01	103	85-115			
Calcium	3.04		mg/L	1.00	1.95	109	85-115			
Iron	1.18		mg/L	1.00	0.156	102	85-115			
Magnesium	2.08		mg/L	1.00	1.05	102	85-115			
Potassium	10.7		mg/L	10.0	1.39	93	85-115			
Sodium	2.70		mg/L	1.00	1.79	91	85-115			
Zinc	1.03		mg/L	1.00	ND	102	85-115			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0429 - EPA 200.8										
Blank (B4K0429-BLK1)										
Arsenic	ND	0.005	mg/L							
Cadmium	ND	0.001	mg/L							
Chromium	ND	0.002	mg/L							
Copper	ND	0.005	mg/L							
Lead	ND	0.005	mg/L							
Manganese	ND	0.005	mg/L							
Nickel	ND	0.005	mg/L							
Selenium	ND	0.005	mg/L							
LCS (B4K0429-BS1)										
Arsenic	0.209	0.005	mg/L	0.200		105	85-115			
Cadmium	0.209	0.001	mg/L	0.200		104	85-115			
Chromium	0.202	0.002	mg/L	0.200		101	85-115			
Copper	0.208	0.005	mg/L	0.200		104	85-115			
Lead	0.203	0.005	mg/L	0.200		101	85-115			
Manganese	0.203	0.005	mg/L	0.200		102	85-115			
Nickel	0.206	0.005	mg/L	0.200		103	85-115			
Selenium	0.224	0.005	mg/L	0.200		112	85-115			
Matrix Spike (B4K0429-MS1)	**Source: 4110475-15**									
Arsenic	0.217	0.005	mg/L	0.200	ND	108	70-130			
Cadmium	0.207	0.001	mg/L	0.200	ND	104	70-130			
Chromium	0.199	0.002	mg/L	0.200	ND	99	70-130			
Copper	0.198	0.005	mg/L	0.200	ND	99	70-130			
Lead	0.201	0.005	mg/L	0.200	ND	101	70-130			
Manganese	0.205	0.005	mg/L	0.200	0.006	99	70-130			
Nickel	0.198	0.005	mg/L	0.200	ND	98	70-130			
Selenium	0.219	0.005	mg/L	0.200	ND	109	70-130			
Matrix Spike (B4K0429-MS2)	**Source: 4110475-16**									
Arsenic	0.203	0.005	mg/L	0.200	ND	102	70-130			
Cadmium	0.206	0.001	mg/L	0.200	ND	103	70-130			
Chromium	0.201	0.002	mg/L	0.200	0.003	99	70-130			
Copper	0.205	0.005	mg/L	0.200	ND	102	70-130			
Lead	0.198	0.005	mg/L	0.200	ND	99	70-130			
Manganese	0.205	0.005	mg/L	0.200	ND	100	70-130			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0429 - EPA 200.8										
Matrix Spike (B4K0429-MS2)	**Source: 4110475-16**									
Nickel	0.206	0.005	mg/L	0.200	ND	102	70-130			
Selenium	0.212	0.005	mg/L	0.200	ND	106	70-130			
Matrix Spike Dup (B4K0429-MSD1)	**Source: 4110475-15**									
Arsenic	0.212	0.005	mg/L	0.200	ND	106	70-130	2	20	
Cadmium	0.203	0.001	mg/L	0.200	ND	101	70-130	2	20	
Chromium	0.195	0.002	mg/L	0.200	ND	97	70-130	2	20	
Copper	0.196	0.005	mg/L	0.200	ND	98	70-130	1	20	
Lead	0.198	0.005	mg/L	0.200	ND	99	70-130	1	20	
Manganese	0.203	0.005	mg/L	0.200	0.006	98	70-130	1	20	
Nickel	0.196	0.005	mg/L	0.200	ND	97	70-130	1	20	
Selenium	0.215	0.005	mg/L	0.200	ND	107	70-130	2	20	
Matrix Spike Dup (B4K0429-MSD2)	**Source: 4110475-16**									
Arsenic	0.204	0.005	mg/L	0.200	ND	102	70-130	0.4	20	
Cadmium	0.205	0.001	mg/L	0.200	ND	103	70-130	0.2	20	
Chromium	0.200	0.002	mg/L	0.200	0.003	99	70-130	0.6	20	
Copper	0.205	0.005	mg/L	0.200	ND	103	70-130	0.3	20	
Lead	0.200	0.005	mg/L	0.200	ND	100	70-130	0.9	20	
Manganese	0.203	0.005	mg/L	0.200	ND	99	70-130	0.9	20	
Nickel	0.204	0.005	mg/L	0.200	ND	101	70-130	0.9	20	
Selenium	0.212	0.005	mg/L	0.200	ND	106	70-130	0.1	20	
Post Spike (B4K0429-PS1)	**Source: 4110475-15**									
Arsenic	0.255		mg/L	0.250	ND	102	75-125			
Cadmium	0.243		mg/L	0.250	ND	97	75-125			
Chromium	0.234		mg/L	0.250	ND	93	75-125			
Copper	0.236		mg/L	0.250	ND	94	75-125			
Lead	0.237		mg/L	0.250	ND	95	75-125			
Manganese	0.242		mg/L	0.250	0.006	94	75-125			
Nickel	0.233		mg/L	0.250	ND	93	75-125			
Selenium	0.260		mg/L	0.250	ND	104	75-125			
Post Spike (B4K0429-PS2)	**Source: 4110475-16**									
Arsenic	0.249		mg/L	0.250	ND	100	75-125			
Cadmium	0.245		mg/L	0.250	ND	98	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0429 - EPA 200.8										
Post Spike (B4K0429-PS2)	**Source: 4110475-16**									
Chromium	0.241		mg/L	0.250	0.003	96	75-125			
Copper	0.246		mg/L	0.250	ND	98	75-125			
Lead	0.247		mg/L	0.250	ND	98	75-125			
Manganese	0.246		mg/L	0.250	ND	97	75-125			
Nickel	0.245		mg/L	0.250	ND	97	75-125			
Selenium	0.260		mg/L	0.250	ND	104	75-125			
Batch B4K0431 - EPA 200.8 Mod										
Blank (B4K0431-BLK1)										
Silver	ND	0.002	mg/L							
LCS (B4K0431-BS1)										
Silver	0.059	0.002	mg/L	0.0600		99	85-115			
Matrix Spike (B4K0431-MS1)	**Source: 4110475-15**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130			
Matrix Spike (B4K0431-MS2)	**Source: 4110475-16**									
Silver	0.058	0.002	mg/L	0.0600	ND	96	70-130			
Matrix Spike Dup (B4K0431-MSD1)	**Source: 4110475-15**									
Silver	0.059	0.002	mg/L	0.0600	ND	98	70-130	0.4	20	
Matrix Spike Dup (B4K0431-MSD2)	**Source: 4110475-16**									
Silver	0.064	0.002	mg/L	0.0600	ND	107	70-130	10	20	
Post Spike (B4K0431-PS1)	**Source: 4110475-15**									
Silver	0.066		mg/L	0.0700	ND	94	75-125			
Post Spike (B4K0431-PS2)	**Source: 4110475-16**									
Silver	0.066		mg/L	0.0700	ND	95	75-125			

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Rogers & Callcott ENVIRONMENTAL

Evergreen Packaging		Project:	MW and SW
175 Main Street		Work Order:	4110495
Canton, NC 28716		Reported:	12/18/14 10:40

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags
Batch B4K0432 - EPA 245.1										
Blank (B4K0432-BLK1)										
Mercury	ND	0.00020	mg/L							
LCS (B4K0432-BS1)										
Mercury	0.0049	0.00020	mg/L	0.00500		99	85-115			
Duplicate (B4K0432-DUP1)	**Source: 4110475-15**									
Mercury	ND	0.00020	mg/L		ND				20	
Duplicate (B4K0432-DUP2)	**Source: 4110475-16**									
Mercury	ND	0.00020	mg/L		ND				20	
Matrix Spike (B4K0432-MS1)	**Source: 4110475-15**									
Mercury	0.0051	0.00020	mg/L	0.00500	ND	103	70-130			
Matrix Spike (B4K0432-MS2)	**Source: 4110475-16**									
Mercury	0.0049	0.00020	mg/L	0.00500	ND	99	70-130			

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 200.7 Metal Digestion				
EPA 200.7	B4K0428	4110495-03	11/18/2014 08:08	MEC
EPA 200.8 Metal Digestion				
EPA 200.8	B4K0429	4110495-03	11/17/2014 16:20	DER
EPA 200.8 Silver/Antimony Digestion				
EPA 200.8 Mod	B4K0431	4110495-03	11/17/2014 13:58	DER
EPA 245.1 Mercury Digestion				
EPA 245.1	B4K0432	4110495-03	11/20/2014 11:26	DER

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Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
P3	The RPD of sample and duplicate were evaluated using +/- the reporting limit. The sample / duplicate results were less than 4 times the reporting limit.
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.

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Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER 4110495

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Evergreen Packaging

Address: Canton NC

Report To:

Email Address:

Telephone #:

PO #: Project # 04-159

Parameter(s) →	Metals Cl, F, TDS, NO2, SO4	Phenol	TOC	NO3	Tox		
Filtered (Yes/No)	N					I	
Cooled (Yes/No)	Y					I	
Container Type (Plastic/Glass)	P	P	G	P	P	G	
Container Volume (mL)	500 mL	1/2	1L	250 mL	250 mL	250 mL	
Sample Type (Grab/Composite)	G					I	
Sample Source (WW, GW, DW, SW, S, Other)	GW					I	
Preservation Code(s)	B	A	C	J	C	B	
Total Number of Containers	6	1	1	1	1	1	1

Preservation Code(s): A – None; B – HNO_3; C – H_2SO_4; D – NaOH; E – HCl; F – $Na_2S_2O_3$; G – Boric Acid; H – Ascorbic Acid; I – Zn Acetate; J – H_3PO_4; K - MCAA; L - _____

R & C WORK ORDER	YR 14 DATE	TIME	SAMPLE DESCRIPTION	COMMENTS
-03, -04	11/12	1553	MW 9	Field Data Collected -01 through -02 metals = As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, V, K, Se, Ag, Na, Zn, Hg
				⊗ subcontracted

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. GPC	11/12/14 1930	2. Secure Area	
RELINQUISHED BY: 3. Secure Area	DATE/TIME:	RECEIVED BY: 4. [signature]	DATE/TIME: 11.13.14 0730
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.6 °C

Possible Hazards associated with samples: ◯ Non-Hazard ◯ Flammable ◯ Skin Irritant ◯ Poison ◯ Unknown ◯ Other _____

Form Revised July, 2014 Page 1 of 1

Rogers & Callcott
ENVIRONMENTAL

Sample Receipt Verification

Client: EVERGREEN Date Received: 11.13.14 Work Order: 4110495

Carrier Name: Client FedEx UPS US Mail Courier (Field Services) Other: _____

Tracking Number: _____

Receipt Criteria	Yes	No	NA	Comments
Shipping container / cooler intact?	X			Damaged Leaking Other:
Custody seals intact?			X	
COC included with samples?	X			
COC signed when relinquished and received?	X			
Sample bottles intact?	X			Damaged Leaking Other:
Sample ID on COC agree with label on bottle(s)?	X			
Date / time on COC agree with label on bottle(s)?	X			
Number of bottles on COC agrees with number of bottles received?	X			
Samples received within holding time?	X			
Sample volume sufficient for analysis?	X			
VOA vials free of headspace (<6mm bubble)?			X	
Samples cooled? Temp at receipt recorded on COC; Temp measured with IR thermometer - SN: 97050067	X			(Ice) Cold Packs Dry Ice None
Samples requiring pH preservation at proper pH? Note: Samples for metals analysis may be preserved upon receipt in the lab.	X			
Samples dechlorinated for parameters requiring chlorine removal at the time of sample collection?			X	

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? Yes or (No)

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: KRW

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-66349-1
Client Project/Site: 4110495

For:
Rogers & Callcott Engineers Inc
PO BOX 5655
Greenville, South Carolina 29606

Attn: Ms. Susan Gunter

Authorized for release by:
12/16/2014 1:08:20 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110495

TestAmerica Job ID: 490-66349-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-66349-1	4110495-04 MW9	Water	11/12/14 15:53	11/14/14 08:40

Case Narrative

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110495

TestAmerica Job ID: 490-66349-1

Job ID: 490-66349-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-66349-1

Comments
No additional comments.

Receipt
The sample was received on 11/14/2014 8:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0º C.

General Chemistry
Method(s) 9020B: The matrix spike (MS) recovery for batch 211326 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9020B: Breakthrough exceeded 10% of the following sample(s): 4110495-04 MW9 (490-66349-1). The concentration of the sample, however, was less than the concentration of the LCS. It is concluded that the high breakthrough is a result of matrix interferences. The data has been reported.

Method(s) 9020B: Following sample duplicate results are outside 20% RPD requirement 4110495-04 MW9 (490-66349-1). Insufficient sample volume to repeat. The data have been reported.

Method(s) 9020B: Insufficient sample volume was available to perform a matrix spike (MS) associated with batch 211326.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110495

TestAmerica Job ID: 490-66349-1

Client Sample ID: 4110495-04 MW9

Lab Sample ID: 490-66349-1

Date Collected: 11/12/14 15:53

Matrix: Water

Date Received: 11/14/14 08:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0523		0.0300		mg/L			12/06/14 12:46	1

QC Sample Results

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110495

TestAmerica Job ID: 490-66349-1

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 490-211326/6
Matrix: Water
Analysis Batch: 211326

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<0.0300		0.0300		mg/L			12/01/14 14:20	1

Lab Sample ID: LCS 490-211326/5
Matrix: Water
Analysis Batch: 211326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Halogens, Total Organic			0.250	0.2484		mg/L		99	90 - 110		

Lab Sample ID: 180-39031-A-7 MS
Matrix: Water
Analysis Batch: 211326

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Halogens, Total Organic	<0.0300		0.100	0.1566	F1	mg/L		157	70 - 130		

QC Association Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110495

TestAmerica Job ID: 490-66349-1

General Chemistry

Analysis Batch: 211326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-39031-A-7 MS	Matrix Spike	Total/NA	Water	9020B	
490-66349-1	4110495-04 MW9	Total/NA	Water	9020B	
LCS 490-211326/5	Lab Control Sample	Total/NA	Water	9020B	
MB 490-211326/6	Method Blank	Total/NA	Water	9020B	

Lab Chronicle

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110495

TestAmerica Job ID: 490-66349-1

Client Sample ID: 4110495-04 MW9

Date Collected: 11/12/14 15:53
Date Received: 11/14/14 08:40

Lab Sample ID: 490-66349-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9020B		1			211326	12/06/14 12:46	JAB	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110495

TestAmerica Job ID: 490-66349-1

Method	Method Description	Protocol	Laboratory
9020B	Organic Halides, Total (TOX)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Rogers & Callcott Engineers Inc
Project/Site: 4110495

TestAmerica Job ID: 490-66349-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-14 *
South Carolina	State Program	4	84009 (001)	02-28-15

* Certification renewal pending - certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FOR

490-66349 Chain of Custody

490566

Cooler Received/Opened On : 11/14/2014 @ 0840

1. Tracking # 7786 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 18290455

2. Temperature of rep. sample or temp blank when opened: 0.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES ...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial)

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) AJH

I certify that I attached a label with the unique LIMS number to each container (intial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Rogers & Callcott ENVIRONMENTAL

CHAIN OF CUSTODY RECORD

WORK ORDER _____

Mailing Address: PO Box 5655, Greenville, SC 29606, Phone (864) 232-1556

Shipping Address: 426 Fairforest Way, Greenville, SC 29607, Fax (864) 232-6140

215B Stoneridge Drive, Columbia, SC 29210, Phone (803) 509-8999

Client Name: Rogers and Callcott

Address: _____

Report To: Susan Gunter

Email Address: _____

Telephone #: _____

PO #: _____ Project #: _____

Parameter(s) →								
Total Number of Containers	N							Filtered (Yes/No)
	Y							Cooled (Yes/No)
	G							Container Type (Plastic/Glass)
	~~500~~ 250	HRU 11.13.14						Container Volume (mL)
	G							Sample Type (Grab/Composite)
	GW							Sample Source (WW, GW, DW, SW, S, Other)
	B							
	TOX							

Preservation Code(s)

A – None	E – HCl	I – Zn Acetate
B – HNO_3	F – $Na_2S_2O_3$	J – H_3PO_4
C – H_2SO_4	G – Boric Acid	K - MCAA
D – NaOH	H – Ascorbic Acid	L - _____

R & C WORK ORDER	YR 2014 DATE	TIME	SAMPLE DESCRIPTION	Total Number of Containers	Parameter(s) →								COMMENTS
4110495-04	11-12	1553	MW9	1		1							Sub to Test America
													NC Samples

Loc: 490
66349

SAMPLER – RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. [signature]	11.13.14 1600	2. [signature]	11/14/14 8:40
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 6.	DATE/TIME:
RELINQUISHED BY: 7.	DATE/TIME:	RECEIVED BY: 8.	DATE/TIME:

Composite Start Date: _____

Composite Start Time: _____

Time or Flow (Circle one) Initials: _____

Temperature of blank or representative sample

At time of collection _____ °C

At time of lab receipt 0.0 °C

Possible Hazards associated with samples: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown ☐ Other _____

Form Revised July, 2014 Page _____ of _____

Login Sample Receipt Checklist

Client: Rogers & Callcott Engineers Inc

Job Number: 490-66349-1

Login Number: 66349
List Number: 1
Creator: Huskey, Adam

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FIELD DATA LOG FOR GROUNDWATER SAMPLING

☐ Development
☒ Purging by Volume
☐ Low Flow
☐ Micro-Purge

Rogers & Callcott ENVIRONMENTAL

Well Identification or Number: MW 9

Date: 11/12/14 Field Personnel: AJC

Site Name/Location: Evergreen Packaging

Weather Conditions/~Temp: Sunny 139 °F

Method of Well Evacuation or Sample Collection

Pump	Bailer
☐ Grundfos	☒ Non Disposable Teflon
☐ Submersible	☐ Disposable Teflon
☐ Peristaltic	☐ Disposable Poly
☐ Bladder	☐ Dedicated Teflon
☐ Waterra	
☐ Continuous (Recovery Well)	
☐	

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

Water Volume Calculations

Initial Depth to Ground Water (a): 37.79 @ 0836
Total Depth of Well (b): 66.87
Length of Water Column in Well (b-a): 29.08
Well Casing Diameter (inches): 2
Depth to Immiscible Layer: N/A

# of Casings	Gallons to be Removed	Total Gallons Removed
1 Casing Vol = (b-a) x Multiplier	4.7	
3 Casing Vol	14.1	6.5

Circle One that Applies

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / ____
Well Tag? Okay / no
Well Integrity Satisfactory? Okay / ____
Vegetation: Overgrown/ Moderate/ Light/ None

Water Removal / Field Analysis Data

Date	Time	Increment	Removal Rate (gal/m) or (ml/m)	Water Level (feet)	Water Volume Removed (gal) or (ml)	pH (+/- 0.1) (Stabilization)	Temp (°C)	Conductivity (uS/cm) 5%	Dissolved Oxygen (mg/L)	ORP (mVolts)	Odor (Subj*)	Turbidity (NTUs)	Other Parameter or Comments
11/12/14	1043	-	N/A	37.79	0.0	5.97	14.5	645.4	N/A	N/A	1	150	
	1055	1		N/A	4.7	6.15	15.4	37.06			1	95.8	
	1103	2		N/A	6.5	6.33	14.9	68.75			1	45.1	ORP
	1552	3		43.61	Sample	5.88	14.4	365.7			1	150	Sample
		4											
		5					4 → 6		11/12/14				
		6											
		7											

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None Fe^{+2} mg/L= N/A

Sample Collection Time: 1553

Comments:

Rogers and Callcott Environmental

Client: Evergreen Packaging **Date:** 11/12/14

Field Meter Calibration Record

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion Star A325 SN: G04166 Probe: SQ1-11813

Time: 0809 Analyst: [illegible] Cell Constant 0.409

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
P403994	9.83		9.797	20.1
P404453	100.4		100.8	20.3
P403995	999		973.8 ~~100.6~~ µmhos/cm	20.6
P404442	SSS conc:	447	434.4 ~~973.8~~ µmhos/cm	20.2

Temperature compensation for pH / conductivity meter : -0.1

pH Calibration - EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SQ1-10463

Time: 0756 Analyst: [illegible] Slope: 99.6

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
P404588	4.0		4.02
P405394	7.0		7.07
P404841	10.0		10.08
P403457	SSS conc:	4.0	4.03

Turbidity Meter Calibration
Field Screen Method

Meter Make / Model: Hach 2100P SN: 0812000332948 Date of most recent calibration: 11/03/14

Time: 0757 Analyst: [illegible]

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
P405642	4.46	4.48
P405643	460	114.3
P405644	447	449

Reviewed by: _____ Date: _____

Revised 01/21/13

Rogers and Callcott Environmental

Client: Evergreen Packaging **Date:** 11/12/14

Continuing Calibration Verification

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion Star A325 SN: G04166 Probe: SQ1-11813

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1150	HJ	100.4	101.2 @ 21.6 °C
1605	HJ	999	989.2 @ 22.3 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion Star A325 Probe: SQ1-10463

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1147	HJ	7.0	7.02
1603	HJ	4.0	4.04

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1147	HJ	46.0	45.3
1607	HJ	4.46	4.47

Field Duplicate

Well ID: MW18

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
0917	HJ	1272	6.79	< 5.0	13.7

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Revised 01/21/13

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*Not Listed*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	51.41	**6.0**	31	13.3	> 1000	< 5	140	< 1	2400	< 1000	< 5	< 2	< 100	**1700**	< 2	1300	25	< 0.2	< 5	na	< 10	1700	< 5	< 2	2200	< 1000	58000	670	< 10	< 10	20
Nov-05	48.73	**6.2**	31	13.5	124	< 5	70	< 1	2100	< 1000	< 5	< 2	< 100	**640**	< 2	990	10	< 0.2	< 5	na	< 10	1300	< 5	< 2	2300	< 1000	33000	< 500	< 10	< 10	10
May-06	50.99	**5.9**	32	14.4	6.5	< 5	50	< 1	1800	< 1000	< 20	< 2	< 100	60	< 2	790	< 5	< 0.2	< 20	na	< 10	1400	< 5	< 2	1900	< 1000	39000	< 500	< 10	< 5	< 20
Nov-06	52.79	**5.9**	29	12.6	13	< 5	40	< 1	1900	< 1000	< 20	< 2	< 100	< 50	< 2	790	< 5	< 0.2	< 20	na	< 10	1000.0	< 5	< 2	2100	< 1000	29000	< 500	< 10	< 5	< 50
May-07	54.41	**5.9**	42	13.9	2.8	< 5	80	< 1	2200	< 1000	< 2	< 2	< 100	**470**	< 5	1000	11	< 0.2	< 5	na	< 10	1500	< 5	< 2	1900	< 1000	26000	1100	< 10	< 5	< 10
Nov-07	58.41	**5.9**	28	12.8	4.0	< 5	50	< 1	2000	< 1000	< 2	< 5	< 100	60	< 5	830	< 5	< 0.2	< 5	< 100	< 10	1200	< 5	< 2	1700	< 1000	31000	1400	< 10	< 5	< 10
May-08	60.30	**6.0**	30	12.9	68	< 5	80	< 1	2400	< 1000	< 5	< 5	< 100	**1400**	< 5	1200	11	< 0.2	< 5	< 200	< 10	1500	< 5	< 2	1700	< 1000	61000	680	< 30	< 5	< 10
Nov-08	62.34	**6.3**	34	12.7	22	< 5	50	< 1	2700	< 1000	< 2	< 5	< 100	160	< 5	1100	< 5	< 0.2	< 5	< 200	< 10	1600	< 5	< 2	1700	< 1000	37000	21000	< 30	< 5	40
May-09	63.73	**6.0**	33	13.1	424	< 5	120	< 1	2900	< 1000	5	< 5	< 100	**2400**	< 5	1500	20	< 0.2	< 5	< 200	< 10	2100	< 5	< 2	2100	< 1000	58000	2900	< 30	< 5	< 30
Nov-09	62.59	**6.3**	47	13.6	23	< 5	60	< 1	3000	< 1000	2	7	< 100	**310**	< 5	1100	< 5	< 0.2	< 5	< 200	< 10	2700	< 5	< 2	2100	< 1000	55000	2700	< 30	< 5	< 20
May-10	57.68	**6.1**	36	13.5	64	< 5	100	< 1	2600	< 1000	2	< 5	< 100	**1700**	< 5	1300	16	< 0.2	< 5	< 200	< 10	2000.0	< 5	< 2	2400	< 1000	51000	1400	< 30	< 5	< 20
Nov-10-10	56.98	**6.0**	35	14.5	14	< 5	60	< 1	2400	< 1000	< 2	< 5	< 100	**320**	< 5	990	< 5	< 0.2	< 5	< 100	< 10	2000.0	< 5	< 2	2200	< 1000	< 25000	1400	na	< 5	< 20
Nov-30-10	57.38	**6.0**	34	13.0	298	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 30	na	na
May-11	60.03	**6.4**	42	14.4	14	< 5	50	< 1	2400	< 1000	< 2	< 5	< 100	140	< 5	980	< 5	< 0.2	< 5	< 100	13	2000.0	< 5	< 2	2100	< 1000	41000	5300	< 30	< 5	< 20
Nov-11	61.67	**6.0**	33.3	15.7	102	< 5	100	< 1	2700	< 1000	3	< 5	< 100	**1300**	< 5	1300	13	< 0.2	< 5	< 100	< 10	1700	< 5	< 2	2200	< 1000	48000	1000	79	< 5	< 20
May-12	62.69	**6.1**	33.8	17.1	22.5	< 5	73	< 1	2600	< 1000	7	< 5	< 100	**900**	< 5	1200	9	< 0.2	< 5	< 100	< 10	1400	< 5	< 2	2300	< 1000	46000	< 1000	< 30	< 5	25
Nov-12	62.82	**6.1**	35.7	12.8	86	< 5	150	< 1	3100	< 1000	4	7	< 100	**2500**	< 5	1700	46	< 0.2	< 5	< 100	< 10	2300	< 5	< 2	2200	< 1000	41000	< 1000	< 30	< 5	< 20
May-13	61.13	**6.0**	33.9	14.8	9.0	< 5	55	< 1	2500	< 1000	< 2	< 5	< 100	240	< 5	990	20	< 0.2	< 5	< 100	< 10	1200	< 5	< 2	2300	< 1000	63000	< 1000	< 30	< 5	< 20
Nov-13	55.55	**6.1**	41.0	11.2	95.6	< 5	150	< 1	2900	< 1000	6	16	< 100	**6700**	< 5	2600	44	< 0.2	< 5	< 100	< 10	3400	< 5	< 2	2900	< 1000	34000	< 1000	< 30	6	22
May-14	54.57	**5.7**	36.3	15.0	39.6	< 25X	71	< 5X	2500	< 1000	< 10X	< 25X	< 100	**870**	< 25X	1200	< 25X	< 0.2	< 25X	< 100	< 10	1300	< 25X	< 2	2700	< 1000	50000	< 1000	< 30	< 5	< 20
Nov-14	55.76	**6.0**	38.0	15.0	< 5.0	< 5	65	< 1	2700	< 1000	< 2	< 5	< 100	96	< 5	1100	< 5	< 0.2	< 5	< 100	< 10	1200	< 5	< 2	2600	< 1000	43000	< 1000	< 30	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	3.78	**9.8**	8100	23.7	4.7	**15**	< 10	< 3	1500	218000	**13**	4	**3600**	**940**	3	< 100	22	< 0.2	56	na	< 10	59000	6	< 2	**1690000**	119000	**5080000**	138000	320	17	< 10
Nov-05	3.86	**10.0**	7170	14.4	53	**21**	< 10	< 5	1700	223000	10	6	**3800**	**840**	3	180	20	< 0.2	87	na	< 10	54000	< 5	< 2	**1500000**	145000	**5030000**	136000	261	< 10	< 10
May-06	3.76	**9.8**	7410	17.4	7.9	**19**	10	< 1	2100	248000	< 20	3	**3200**	**910**	3	120	21	< 0.4	80	na	< 10	52000	6	< 2	**1600000**	113000	**5050000**	156000	194	14	< 20
Nov-06	4.06	**9.9**	7500	14.2	14	**26**	< 10	< 5	2400	227000	< 20	< 10	**2100**	**1100**	< 10	120	< 10	< 0.4	80	na	30	55000	< 10	< 10	**1800000**	107000	**9020000**	168000	154	< 10	< 50
May-07	4.29	8.0	7760	14.0	15	< 20	< 200	< 10	2700	197000	**30**	< 20	**4900**	**1700**	< 10	< 1000	41	< 1	**116**	na	60	48000	< 10	< 10	**2000000**	102000	**9700000**	169000	138	< 15	< 100
Nov-07	4.74	**10.1**	6640	11.6	20	**23**	< 10	< 1	3100	178000	**17**	6	**4200**	**1400**	5	160	20	< 0.8	77	< 100	< 20	47000	< 5	< 2	**2100000**	101000	**6340000**	147000	595	11	10
May-08	4.40	**9.6**	7400	14.8	16	< 50	< 50	< 10	2500	164000	< 50	< 50	**5500**	**2800**	< 50	< 500	40	< 0.8	**150**	< 200	< 20	56000	< 50	< 20	**1800000**	182000	**5700000**	173000	104	< 10	< 50
Nov-08	4.87	**9.9**	7330	13.8	24	**26**	< 40	< 5	3100	152000	10	< 10	**5400**	**1400**	6	< 200	25	< 0.8	**109**	< 500	< 20	58000	< 10	< 10	**1720000**	**262000**	**5570000**	170000	128	< 10	< 40
May-09	4.02	**9.9**	7740	16.8	18	**30**	< 20	< 4	3200	167000	**12**	< 20	**5000**	**1200**	6	< 200	33	< 0.8	**129**	< 200	< 20	67000	< 10	< 8	**2100000**	**322000**	**5850000**	169000	423	26	< 20
Nov-09	3.78	**10.1**	8600	14.6	11	**25**	< 10	< 2	3400	206000	8	< 5	**5100**	**2100**	5	140	30	< 0.8	**130**	< 200	< 10	65000	< 5	< 4	**2300000**	**316000**	**5770000**	186000	214	**51**	< 20
May-10	4.03	**10.0**	8710	13.7	9.1	**28**	< 10	< 4	3500	179000	9	31	**4700**	**1200**	< 5	120	22	< 0.2	**108**	< 200	< 10	70000	< 10	< 4	**2300000**	**262000**	**5800000**	146000	121	15	< 20
Nov-11-10	4.47	**10.0**	8160	16.3	15	**16**	< 10	< 1	3300	193000	**15**	5	**7000**	**950**	< 5	150	20	< 0.2	**109**	< 100	na	65000	< 5	< 2	**2100000**	216000	**5770000**	178000	33	6	< 20
Nov-30-10	4.38	**9.9**	8220	14.4	24	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	na	na	na	na	na	na	na	na	na
May-11	4.24	**9.9**	7870	16.0	12.0	**20**	< 10	< 1	3100	189000	**16**	5	**4800**	**1200**	< 5	130	26	< 0.2	96	< 200	< 10	65000	< 5	< 2	**2100000**	173000	**5850000**	170000	3670	< 10	< 20
Nov-11	4.59	**9.9**	8020	15.3	10.1	**17**	< 10	< 2	2800	201000	**15**	7	**5300**	**1300**	6	150	27	< 0.2	**120**	< 200	< 50	66000	11	< 2	**2400000**	162000	**5420000**	144000	555	16	30
May-12	4.00	**9.8**	7690	15.1	14.1	**18X**	< 10	< 2X	3300	177000	**18X**	< 10X	**6920X**	**1600**	< 10X	160	25X	< 0.2	94X	< 100	< 100X	59000	< 10X	< 4X	**2200000**	144000	**5740000**	161000	99.3S7	< 10	< 20
Nov-12	4.13	**10.0**	8140	10.6	10.9	**16**	< 10	< 2X	3200	182000	**75**	9	**6050**	**1600**	< 10	160	35	< 0.2	**120**	< 500X	< 100X	58000	< 10X	< 4X	**2600000**	137000	**5970000**	188000	265	8	< 20
May-13	3.43	**9.8**	7800	14.1	5.6	**20**	< 10	< 2	2700	174000	**24**	9	**5440**	**1800**	< 10	170	38	< 0.2	**130**	< 100	< 100X	56000	< 10	< 4	**1900000**	97200	**6360000**	166000	227	7	< 20
Nov-13	3.91	**9.9**	6380	12.9	5.8	**22**	< 10	< 1	2500	147000	**15**	8	**5340**	**2000**	< 5	140	33	< 0.2	**112**	< 500X	< 100X	40000	7	< 4X	**2000000**	104000	**5820000**	175000	150	11	< 20
May-14	3.81	**9.9**	7360	15.4	25.4	< 50X	< 10	< 20X	2500	153000	< 40X	< 100X	**6200**	**2600**	< 100X	150	< 100X	< 0.4X	**115**	< 500X	< 100X	39000	< 50X	< 10X	**2100000**	83400	**5480000**	162000	266	< 5	< 20
Nov-14	2.40	**10.0**	7240	17.0	6.3	**20**	< 10	< 2	2500	163000	**13**	< 10	**6740**	**2200**	< 10	130	37	< 0.4	**114**	< 500	< 100	48000	< 10	< 4	**2000000**	65100	**5390000**	141000	183	9	< 20

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** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S7 - Sample breakthrough to 2nd section is > 10%. Results may be biased low.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	5.81	6.6	806	13.9	89	< 5	30	< 1	96000	31000	< 5	< 2	< 200	**29000**	< 2	23000	**420**	< 0.2	< 5	na	< 10	8400	< 5	< 2	**22000**	153000	**550000**	560	54	< 10	< 10
Nov-05	7.52	6.6	904	17.4	5.8	< 5	30	< 1	100000	30000	< 5	< 2	< 100	**31000**	< 2	26000	**500**	< 0.2	< 5	na	< 10	9500	< 5	< 2	**23000**	158000	**557000**	600	275	< 10	< 10
May-06	6.71	6.6	846	13.8	26	< 5	40	< 1	92000	33000	< 20	< 2	< 100	**26000**	< 2	24000	**510**	< 0.2	< 20	na	< 10	8300	< 5	< 2	**21000**	166000	**578000**	990	13	7	< 20
Nov-06	7.62	6.8	910	14.3	17	< 5	20	< 1	89000	35000	< 20	2	< 200	**30000**	< 2	24000	**400**	< 0.2	< 20	na	< 10	8800	< 5	< 2	**22000**	172000	**554000**	940	58.1	< 5	< 50
May-07	6.52	**6.3**	986	13.1	40	< 5	40	< 1	120000	37000	< 2	< 2	< 200	**39000**	< 5	30000	**570**	< 2	< 5	na	< 10	8400	< 5	< 2	**25000**	205000	**680000**	1300	124	< 5	< 10
Nov-07	8.30	6.8	968	12.5	10	< 5	50	< 1	120000	35000	< 2	< 5	< 200	**39000**	< 5	31000	**630**	< 0.2	< 5	< 100	< 10	8500	< 5	< 2	**26000**	214000	**808000**	5700	106	< 5	< 10
May-08	7.39	6.8	930	13.2	12	< 5	40	< 1	110000	36000	< 5	< 5	100	**37000**	< 5	31000	**660**	< 0.2	< 5	< 200	< 10	9300	< 5	< 2	**24000**	208000	**730000**	1000	142	< 5	< 10
Nov-08	8.41	6.6	930	14.7	14	< 5	50	< 1	117000	35000	< 2	< 5	< 100	**40000**	< 5	33000	**657**	< 0.2	< 5	< 200	< 10	9500	< 5	< 2	**22000**	**253000**	**700000**	1900	155	6	< 20
May-09	6.23	6.8	925	14.0	20	< 5	40	< 1	95000	32000	2	< 5	< 100	**30000**	< 5	25000	**590**	< 0.2	< 5	< 200	< 10	8800	< 5	< 2	**24000**	200000	**548000**	530	< 30	< 5	< 20
Nov-09	7.31	6.8	903	14.1	8.0	< 5	50	< 1	120000	33000	< 2	< 5	< 100	**43000**	< 5	31000	**560**	< 0.2	< 5	< 200	< 10	10000	< 5	< 2	**28000**	193000	**614000**	1100	< 30	< 5	< 20
May-10	5.68	6.7	804	11.9	7.8	< 5	50	< 1	120000	35000	< 2	< 5	< 100	**42000**	< 5	32000	**560**	< 0.2	< 5	< 200	< 10	10000	< 5	< 2	**30000**	220000	**668000**	820	< 30	< 5	< 20
Nov-10	7.61	6.8	1018	14.7	7.3	< 5	50	< 1	120000	37000	2	< 5	< 100	**44000**	< 5	33000	**551**	< 0.2	< 5	< 100	< 10	11000	< 5	< 2	**32000**	241000	**748000**	820	72	< 5	< 20
May-11	6.89	6.6	1060	13.6	30.0	< 5	50	< 1	110000	40000	2	< 5	< 100	**39000**	< 5	33000	**590**	< 0.2	< 5	< 100	< 10	10000	< 5	< 2	**32000**	237000	**740000**	900	184	< 5	< 20
Nov-11	7.78	**6.4**	1121	15.8	< 5.0	< 5	60	< 1	130000	38000	< 2	< 5	< 100	**52000**	< 5	36000	**610**	< 0.2	< 5	< 100	< 200	12000	< 5	< 2	**40000**	238000	**824000**	1300	581	< 5	< 20
May-12	6.99	6.9	1020	13.8	27.2	< 5	58	< 1	130000	35000	< 2	< 5	< 100	**57000**	< 5	39000	**570**	< 0.2	< 5	< 100	< 200X	12000	< 5	< 2	**41000**	**263000**	**504000**	< 1000	242S7	< 5	23
Nov-12	7.79	6.9	1070	13.9	7.0	< 5	56	< 1	130000	32200	3	< 5	< 100	**38000**	< 5	33000	**530**	< 0.2	< 5	< 100	< 50X	12000	< 5	< 2	**46000**	**269000**	**728000**	1290	53	< 5	< 20
May-13	4.17	6.5	1180	12.9	85.2	< 5	55	< 1	130000	35000	2	< 5	< 100	**40000**	< 5	34000	**500**	< 0.2	< 5	< 100	< 10	11000	< 5	< 2	**42000**	244000	**840000**	1130	112	< 5	< 20
Nov-13	6.42	6.8	1050	9.6	14.4	< 5	55	< 1	140000	34900	< 2	< 5	< 100	**34000**	< 5	35000	**525**	< 0.2	< 5	< 100	< 10	11000	< 5	< 2	**45000**	**297000**	**816000**	< 1000	< 30	< 5	< 20
May-14	4.22	**6.4**	1270	15.7	37.4	< 5	65	< 1	150000	38600	< 10X	< 25X	< 100	**44000**	< 5	40000	**628**	< 0.2	< 25X	110	< 10	10000	< 5	< 2	**46000**	**310000**	**912000**	< 1000	< 30	< 5	< 20
Nov-14	6.21	7.1	1300	16.3	12.9	< 5	66	< 1	170000	39200	< 2	< 5	< 100	**38000**	< 5	41000	**625**	< 0.2	< 5	< 100	< 50	12000	< 5	< 2	**49000**	**328000**	**848000**	1240	47.9	6	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
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** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S7 - Sample breakthrough to 2nd section is > 10%. Results may be biased low.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	59.2	**6.4**	1345	13.5	8.2	< 5	20	< 1	23000	83000	< 5	< 2	< 100	**59000**	< 2	19000	**1600**	< 0.2	< 5	na	< 10	8000	< 5	< 2	**177000**	**275000**	**862000**	5500	130	< 10	< 10
Nov-05	58.91	**6.4**	735	24.6	245	< 5	30	< 1	11000	65000	< 5	< 2	< 100	**52000**	< 2	9200	**790**	< 0.2	< 5	na	< 10	6100	< 5	< 2	**88000**	205000	**582000**	2500	19.3	< 10	< 10
May-06	59.22	**6.3**	640	13.8	368	< 5	30	< 1	21000	94000	< 20	< 2	< 1000	**56000**	< 2	17000	**1400**	< 0.2	< 20	na	< 10	8300	< 5	< 2	**170000**	240000	**800000**	4600	51.9	< 5	< 20
Nov-06	59.92	6.6	1269	14.1	93	< 5	10	< 1	19000	91000	< 20	2	< 1000	**65000**	< 2	17000	**1100**	< 0.2	< 20	na	< 10	8100	< 5	< 2	**180000**	**275000**	**774000**	5500	39.8	< 5	< 50
May-07	60.35	**5.7**	1280	15.9	22	< 5	40	< 1	20000	86000	< 2	< 2	< 2000	**64000**	< 5	16000	**1200**	< 0.2	< 5	na	< 10	7900	< 5	< 2	**200000**	**253000**	**800000**	4600	43.1	< 5	< 10
Nov-07	61.08	**6.4**	1003	15.2	58	< 5	30	< 1	21000	74000	2	< 5	< 1000	**63000**	< 5	17000	**1200**	< 0.2	< 5	< 100	< 10	7300	< 5	< 2	**170000**	221000	**860000**	4800	62.3	< 5	20
May-08	61.14	7.3	1175	15.5	9.6	< 5	30	< 1	19000	79000	< 5	< 5	< 500	**58000**	< 5	16000	**1200**	< 0.2	< 5	< 200	< 10	8700	< 5	< 2	**170000**	228000	**812000**	2000	42	< 5	< 10
Nov-08	62.23	**6.4**	1151	14.3	18	< 5	30	< 1	20000	76000	4	< 5	< 500	**67000**	< 5	17000	**1250**	< 0.2	< 5	< 200	< 10	8700	< 5	< 2	**160000**	249000	**788000**	13000	107	< 5	< 20
May-09	62.19	6.5	1468	15.6	37	< 5	30	< 1	21000	83000	3	< 5	< 500	**61000**	< 5	17000	**1100**	< 0.2	< 5	< 200	< 10	9600	< 5	< 2	**210000**	**252000**	**824000**	10000	< 30	< 5	< 20
Nov-09	59.92	**6.4**	1446	14.4	49	< 5	30	< 1	21000	83000	4	< 5	< 500	**63000**	< 5	17000	**1300**	< 0.2	< 5	< 200	< 10	10000	< 5	< 2	**230000**	246000	**856000**	7800	39.3	< 5	< 20
May-10	59.45	**6.4**	1363	15.0	< 5.0	< 5	30	< 1	21000	86000	< 2	< 5	< 500	**57000**	< 5	17000	**1200**	< 0.2	< 5	< 200	< 10	10000	< 5	< 2	**210000**	**265000**	**1000000**	6900	90.3	< 5	< 20
Nov-11-10	59.79	6.5	1297	14.9	51	< 5	30	< 1	20000	79000	7	< 5	< 500	**58000**	< 5	17000	**1200**	< 0.2	< 5	< 100	na	9900	< 5	< 2	**200000**	210000	**834000**	5100	94	< 5	< 20
Nov-30-10	59.87	**6.4**	1389	14.8	38	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	na	na	na	na	na	na	na	na	na
May-11	60.33	**6.4**	1217	16.8	19.0	< 5	30	< 1	17000	72000	3	< 5	< 500	**55000**	< 5	15000	**1100**	< 0.2	< 5	< 100	< 10	9000	< 5	< 2	**200000**	227000	**796000**	4600	267	< 5	30
Nov-11	61.14	**6.4**	1311	14.4	106	< 5	30	< 1	18000	71000	< 2	< 5	< 500	**55000**	< 5	15000	**1100**	< 0.2	< 5	< 100	< 200	9500	< 5	< 2	**220000**	246000	**860000**	5400	779	6	< 20
May-12	60.44	6.5	1460	18.0	15.2	< 5	33	< 1	19000	83800	8	< 5	< 500X	**51000**	< 5	16000	**1200**	< 0.2	6	< 100	< 100X	9400	< 5	< 2	**240000**	250000	**940000**	5310	< 30	< 5	< 20
Nov-12	60.41	6.5	1380	14.2	6.0	< 5	35	< 1	20000	86500	**23**	< 5	< 500X	**57000**	< 5	17000	**1200**	< 0.2	< 5	< 100	< 100X	9600	< 5	< 2	**230000**	**258000S1**	**750000**	5490	36.6	< 5	< 20
May-13	57.98	6.5	1500	16.3	13.1	< 5	33	< 1	19000	90500	**30**	< 5	< 100	**54000**	< 5	16000	**1200**	< 0.2	15	< 100	< 100X	9300	< 5	< 2	**240000**	**251000**	**984000**	5370	40.8	< 5S1	< 20
Nov-13	59.09	6.5	1420	14.9	9.2	< 5	42	< 1	18000	81600	4	< 5	< 100	**48000**	< 5	15000	**1150**	< 0.2	< 5	< 100Z	< 10	8100	< 5	< 2	**210000**	226000	**840000**	4460	< 30	< 5	< 20
May-14	58.63	**6.3**	1470	15.8	23.8	< 5	38	< 1	20000	82500	**29**	< 50X	100	**58000**	< 5	17000	**1280**	< 0.2	< 50X	< 100	< 10	8000	< 5	< 2	**240000**	228000	**956000**	5000	66.7	8	< 20
Nov-14	59.50	6.5	1460	15.0	< 5.0	< 5	41	< 1	22000	86600	10	< 5	< 100	**65000**	< 5	17000	**1310**	< 0.2	6	< 100	< 10	8700	< 5	< 2	**230000**	243000	**904000**	4570	69.8	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.

na - not analyzed

* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.

** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.

S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.

X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.

Z - The sample was analyzed beyond the accepted holding time due to possible preservation error.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	35.80	**5.5**	410	18.4	12	< 5	110	< 1	23000	84000	< 5	< 2	< 100	**380**	< 2	18000	**5500**	< 0.2	8.5	na	< 10	4100	< 5	< 2	19000	18000	254000	820	71	< 10	20
Nov-05	35.77	**5.7**	238	16.8	6.2	< 5	60	< 1	10000	37000	< 5	< 2	< 100	220	< 2	8800	**5700**	< 0.2	5	na	< 10	3500	< 5	< 2	13000	9000	159000	670	21.7	< 10	< 10
May-06	36.83	**5.3**	551	17.6	15	< 5	110	< 1	22000	92000	< 20	< 2	< 100	**1000**	< 2	19000	**9900**	< 0.2	< 20	na	< 10	4500	< 5	< 2	17000	34000	324000	830	57.4	< 5	< 20
Nov-06	36.01	**5.7**	598	14.6	7.9	< 5	90	< 1	22000	116000	< 20	< 2	< 500	**500**	< 2	20000	**11000**	< 0.2	< 20	na	< 10	4300	< 5	< 2	17000	21000	348000	1100	71.1	< 5	< 50
May-07	36.28	**5.2**	348	17.8	9.0	< 5	60	0.1	8800	65000	< 2	< 2	< 500	180	< 5	10000	**10000**	0.2	< 5	na	< 10	3600	< 5	< 2	14000	13000	236000	1100	25.1	< 5	< 10
Nov-07	36.85	**5.6**	504	13.7	3.0	< 5	70	< 1	13000	79000	< 2	< 5	< 500	150	< 5	15000	**14000**	< 0.2	< 5	1100	< 10	3300	< 5	< 2	14000	14000	314000	890	64.4	< 5	30
May-08	37.05	**5.8**	603	17.7	3.6	< 5	80	< 1	18000	95000	< 5	< 5	< 500	120	< 5	21000	**18000**	< 0.2	< 5	450	< 10	3800	< 5	< 2	14000	17000	380000	1500	281	< 5	< 10
Nov-08	37.46	**5.4**	595	15.5	12	< 5	80	< 1	21000	96000	2	< 5	< 500	150	< 5	24000	**22000**	< 0.2	< 5	540	< 10	3400	< 5	< 2	13000	19000	344000	8300	78.9	< 5	< 20
May-09	37.22	**5.4**	590	18.4	< 5.0	< 5	80	< 1	19000	107000	< 2	< 5	< 500	120	< 5	20000	**21000**	< 0.2	< 5	1100	< 10	3800	< 5	< 2	16000	16000	364000	1200	34.2	< 5	< 20
Nov-09	36.34	**5.5**	388	15.7	< 5.0	< 5	60	< 1	8300	79000	3	5	< 500	50	< 5	7500	**8300**	< 0.2	< 5	2200	< 10	5100	< 5	< 2	13000	15000	256000	2800	43.9	< 5	< 20
May-10	35.76	**5.5**	236	17.1	5.0	< 5	50	< 1	5900	16000	< 2	< 5	< 500	120	< 5	5700	**5900**	< 0.2	< 5	3400	< 10	3900	< 5	< 2	14000	6900	146000	970	72.3	< 5	< 20
Nov-10	36.19	**5.5**	388	17.7	5.6	< 5	80	< 1	14000	78000	5	< 5	< 500	**450**	< 5	15000	**11000**	< 0.2	7	2900	< 10	4400	< 5	< 2	15000	14000	226000	1300	40	< 5	< 20
May-11	35.88	**5.5**	456	19.3	19.0	< 5	130	< 1	24000	123000	3	< 5	< 500	**510**	< 5	23000	**13000**	< 0.2	11	890	< 10	4800	< 5	< 2	19000	19000	344000	1900	171	< 5	20
Nov-11	36.36	**5.5**	551	16.4	9.0	< 5	110	< 1	22000	114000	< 2	< 5	< 500	**320**	< 5	24000	**21000**	< 0.2	6	1200	< 10	4400	< 5	< 2	19000	16000	284000	1400	764	< 5	< 20
May-12	35.99	**5.6**	526	18.2	62.5	< 5	120	< 1	24000	115000	< 2	7	< 500X	**590**	< 5	24000	**16000**	0.22	7	2630	< 10	4800	< 5	< 2	19000	18100	384000	1390	312S7	< 5	< 20
Nov-12	36.08	**5.6**	498	17.2	6.0	< 5	120	< 1	23000	112000	3	< 5	< 500X	**590**	< 5	23000	**15000**	< 0.2	7	1640	< 10	4400	< 5	< 2	19000	16900	320000	< 1000	50	< 5	< 20
May-13	34.76	**5.6**	519	17.8	24.8	< 5	140	< 1	27000	86500	4Z	< 5	< 100	**2000**	< 5	22000	**8800**	0.36	9	3040	< 10	5100	< 5	< 2	**22000**	14100	332000	1140	240	< 5	< 20
Nov-13	35.07	**5.6**	535	16.0	17.7	< 5	190	< 1	37000	78100	2	< 5	< 100	**2700**	< 5	30000	**9820**	< 0.2	10	2100	< 10	5100	< 5	< 2	**28000**	17400	320000	< 1000	84.3	< 5	< 20
May-14	34.61	**5.5**	698	18.6	43.4	< 5	200	< 1	39000	120000	3	6	< 100	**3800**	< 5	32000	**8860**	< 0.2	11	1060	< 10	5100	< 5	< 2	**29000**	18200	374000	1240	283	< 5	< 20
Nov-14	34.99	**5.6**	669	18.8	8.0	< 5	200	< 1	40000	162000	< 2	< 5	< 100	**1500**	< 5	31000	**9790**	< 0.2	10	1110	< 10	5200	< 5	< 2	**32000**	22800	410000	1340	47.4	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S7 - Sample breakthrough to 2nd section is > 10%. Results may be biased low.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.
Z - Detected in the method blank at 2 µg/L.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	13.36	**5.9**	268	16.1	126	< 5	80	< 1	22000	54000	< 5	< 2	< 100	**2800**	< 2	14000	**1600**	< 0.2	9.4	na	< 10	4300	< 5	< 2	14000	14000	212000	770	140	< 10	10
Nov-05	13.92	**5.7**	347	16.8	133	< 5	80	< 1	22000	55000	< 5	< 2	< 100	**2400**	< 2	14000	**2200**	< 0.2	11	na	< 10	4600	< 5	< 2	15000	16000	197000	1200	202	< 10	< 10
May-06	13.14	**5.6**	386	15.1	11	< 5	80	< 1	23000	63000	< 20	< 2	< 100	**1700**	< 2	15000	**2300**	< 0.2	< 20	na	< 10	4600	< 5	< 2	14000	19000	230000	1200	38.4	< 5	< 20
Nov-06	13.68	**5.8**	420	14.9	17	< 5	60	< 1	23000	63000	< 20	< 2	< 200	**2000**	< 2	15000	**2500**	< 0.2	< 20	na	< 10	5100	< 5	< 2	15000	21000	238000	950	27.8	< 5	< 50
May-07	13.70	**5.3**	436	15.5	29	< 5	100	< 1	28000	75000	< 2	< 2	< 200	**1900**	< 5	18000	**3400**	< 0.2	13	na	< 10	5000	< 5	< 2	17000	21000	314000	1000	29.2	< 5	10
Nov-07	14.11	**5.8**	435	12.7	2.5	< 5	100	< 1	30000	2000	< 2	< 5	< 200	**1600**	< 5	20000	**3800**	< 0.2	12	< 100	< 10	4900	< 5	< 2	19000	21000	348000	1400	52.2	< 5	< 10
May-08	14.02	**6.2**	438	15.5	13	< 5	100	< 1	30000	82000	< 5	< 5	< 200	**1600**	< 5	21000	**4100**	< 0.2	14	< 200	< 10	5100	< 5	< 2	18000	21000	348000	1300	239	< 5	20
Nov-08	14.21	**5.7**	460	14.4	23	< 5	100	< 1	29000	92000	2	< 5	< 200	**2100**	< 5	21000	**4200**	< 0.2	14	< 200	< 10	4800	< 5	< 2	16000	23000	334000	11000	218	< 5	< 20
May-09	13.23	**5.8**	449	14.0	< 5.0	< 5	100	< 1	31000	87000	< 2	< 5	< 200	**570**	< 5	22000	**4100**	< 0.2	15	< 200	< 10	5200	< 5	< 2	**21000**	22000	278000	760	74.3	< 5	< 20
Nov-09	13.06	**5.7**	485	15.0	< 5.0	< 5	110	< 1	31000	80000	3	< 5	< 200	**410**	< 5	20000	**4500**	< 0.2	15	< 200	< 10	5600	< 5	< 2	20000	24000	286000	1100	38.2	< 5	< 20
May-10	13.38	**5.6**	506	13.3	< 5.0	< 5	110	< 1	32000	85000	< 2	< 5	< 200	**490**	< 5	22000	**4500**	< 0.2	17	< 200	< 10	5600	< 5	< 2	20000	25000	322000	960	< 60	< 5	< 20
Nov-10-10	14.04	**5.7**	500	15.1	< 5.0	< 5	110	< 1	33000	79000	2	< 5	< 200	**870**	< 5	23000	**4900**	< 0.2	16	< 100	na	5600	< 5	< 2	**21000**	28000	294000	860	31	< 5	< 20
Nov-30-10	13.80	**5.6**	531	15.4	< 5.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	na	na	na	na	na	na	na	na	na
May-11	14.00	**5.5**	780	14.4	< 5.0	< 5	110	< 1	30000	85000	3	< 5	< 200	**430**	< 5	21000	**4800**	< 0.2	16	< 100	< 10	5200	< 5	< 2	19000	35000	258000	810	57	< 5	< 20
Nov-11	14.29	**5.6**	537	15.5	< 5.0	< 5	120	< 1	33000	91000	< 2	< 5	< 200	**660**	< 5	23000	**5300**	< 0.2	17	< 100	< 10	5700	< 5	< 2	**23000**	35000	352000	910	244	< 5	< 20
May-12	13.82	**5.5**	474	14.0	< 5.0	< 5	120	< 1	33000	70200	3	< 5	< 200X	**340**	< 5	23000	**4900**	< 0.2	16	< 100	< 10	5700	< 5	< 2	20000	42700	296000	< 1000	46.2	< 5	38
Nov-12	14.23	**5.7**	536	15.3	< 5.0	< 5	120	< 1	37000	85400	2	< 5	< 200X	**460**	< 5	25000	**5400**	< 0.2	18	< 100	< 10	5800	< 5	< 2	**22000**	52200	336000	< 1000	73	< 5	27
May-13	8.96	**5.7**	364	14.1	< 5.0	< 5	97	< 1	27000	41600	< 2	< 5	< 100S1	54	< 5	16000	**2200**	< 0.2	13	200	< 10	6400	< 5	< 2	12000	44700	220000	< 1000	< 30	< 5	< 20
Nov-13	14.03	**5.7**	681	14.7	< 5.0	< 5	150	< 1	44000	81600	< 2	< 5	< 100	**320**	< 5	30000	**6520**	< 0.2	19	< 100	< 10	6300	< 5	< 2	**25000**	71800	391000	< 1000	76.5	< 5	< 20
May-14	13.31	**5.5**	695	14.1	7.8	< 5	140	< 1	49000	79500	< 2	< 5	< 100	200	< 5	32000	**6690**	< 0.2	18	< 100	< 10	5300	< 5	< 2	**25000**	98000	446000	1060	69	< 5	< 20
Nov-14	13.78	**5.8**	769	15.2	< 5.0	< 5	160	< 1	54000	85000	< 2	< 5	< 100	**450**	< 5	37000	**7890**	< 0.2	20	< 100	< 10	6400	< 5	< 2	**32000**	116000	**512000**	1110	160	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	9.56	**6.1**	180	14.7	67	< 5	50	< 1	13000	16000	< 5	3	< 100	**970**	< 2	8300	**1700**	0.7	< 5	na	< 10	2300	< 5	< 2	4100	23000	112000	730	32	< 10	20
Nov-05	10.20	**6.0**	188	16.8	4.6	< 5	50	< 1	14000	23000	< 5	3	< 100	**530**	< 2	9300	**380**	**2.6**	5	na	< 10	2700	< 5	< 2	5200	21000	117000	1300	271	< 10	< 10
May-06	9.53	**5.8**	197	14.2	4.6	< 5	50	< 1	14000	29000	< 20	< 2	< 100	60	< 2	9300	**1200**	0.7	< 20	na	< 10	2600	< 5	< 2	5000	18000	133000	1200	22.9	< 5	< 20
Nov-06	10.07	**5.8**	223	14.9	3.4	< 5	30	< 1	15000	19000	< 20	< 2	< 100	< 100	< 2	9200	**1300**	0.7	< 20	na	< 10	3000	< 5	< 2	5000	26000	260000	1700	20.6	< 5	< 50
May-07	10.21	**5.1**	248	13.8	35	< 5	50	< 1	16000	45000	< 2	< 2	120	< 100	< 5	11000	**980**	0.5	< 5	na	< 10	2900	< 5	< 2	6000	14000	196000	960	34.6	< 5	10
Nov-07	11.04	**5.8**	346	13.0	9.2	< 5	60	< 1	20000	38000	< 2	< 5	< 100	100	< 5	13000	**910**	**1.3**	< 5	< 100	< 10	2800	< 5	< 2	7300	22000	224000	870	35.9	< 5	< 10
May-08	10.61	**6.1**	295	14.4	5.9	< 5	60	< 1	18000	49000	< 5	< 5	< 100	< 50	< 5	12000	**2800**	0.7	< 5	< 200	< 10	3000	< 5	< 2	6000	19000	246000	1200	38.2	< 5	< 10
Nov-08	11.33	**5.5**	441	14.8	22	< 5	90	< 1	26000	65000	2	< 5	< 100	210	< 5	19000	**419**	**1.1**	7	< 200	< 10	3500	< 5	< 2	10000	20000	264000	4000	134	< 5	< 20
May-09	9.53	**5.6**	443	14.3	5.4	< 5	70	< 1	22000	46000	< 2	< 5	< 100	100	< 5	15000	**3100**	**2.3**	< 5	< 200	< 10	3300	< 5	< 2	8000	14000	216000	770	129	< 5	< 20
Nov-09	9.39	**5.8**	306	14.1	< 5.0	< 5	70	< 1	21000	46000	3	< 5	< 100	210	< 5	14000	**2700**	0.6	< 5	< 200	< 10	3900	< 5	< 2	8300	19000	180000	3600	156	< 5	< 20
May-10	9.99	**5.6**	310	14.2	5.4	< 5	70	< 1	25000	63000	< 2	< 5	< 100	240	< 5	17000	**1200**	**2.0**	6	< 200	< 10	3600	< 5	< 2	11000	15000	224000	2200	< 30	< 5	< 20
Nov-10	10.94	**5.8**	358	16.4	< 5.0	< 5	70	< 1	23000	70000	5	< 5	< 100	**310**	< 5	16000	**1680**	**1.5**	6	< 100	< 10	3900	< 5	< 2	10000	19000	256000	1100	29	< 5	< 20
May-11	10.49	**5.6**	359	14.6	12	< 5	80	< 1	25000	105000	3	< 5	< 100	200	< 5	17000	**1400**	**1.9**	6	< 100	< 10	3600	< 5	< 2	12000	15000	260000	2000	42.6	< 5	< 20
Nov-11	11.27	**5.6**	556	14.9	19.7	< 5	110	< 1	36000	80000	< 2	< 5	< 100	**450**	< 5	25000	**620**	**2.6**	8	< 100	< 10	4900	< 5	< 2	20000	17000	334000	990	645	< 5	< 20
May-12	10.30	**5.8**	413	15.3	16.4	< 5	110	< 1	35000	84300	2	5	< 100	**880**	< 5	24000	**780**	**1.2**	8	< 100	< 10	4700	< 5	< 2	18000	16300	286000	< 1000	179S7	< 5	33
Nov-12	10.74	**5.6**	532	15.1	< 5.0	< 5	110	< 1	34000	110000	4	< 5	< 100	85	< 5	24000	**560**	0.45	8	< 100	< 10	4600	< 5	< 2	19000	19300	334000	< 1000	70	< 5	< 20
May-13	8.69	**5.6**	584	13.9	6.6	< 5	120	< 1	37000	114000	2Z	< 5	< 100	52	< 5	26000	**450**	0.51	9	< 100	< 10	4900	< 5	< 2	**22000**	17600	430000	< 1000	47.7	< 5	< 20
Nov-13	10.35	**5.6**	464	13.1	< 5.0	< 5	120	< 1	37000	127000	< 2	< 5	< 100	< 50	< 5	26000	**437**	0.90	7	< 100	< 10	4500	< 5	< 2	**24000**	21200	334000	< 1000	69.9	6	< 20
May-14	9.85	**5.6**	514	14.9	< 5.0	< 5	110	< 1	34000	114000	< 2	< 5	< 100	< 50	< 5	24000	**404**	0.69	7	< 100	< 10	3800	< 5	< 2	**22000**	19900	316000	< 1000	78.3	7	< 20
Nov-14	10.41	**5.7**	545	17.1	< 5.0	< 5	140	< 1	42000	127000	< 2	< 5	< 100	< 50	< 5	28000	**498**	0.82	7	< 100	< 10	4700	< 5	< 2	**29000**	31500	350000	< 1000	70.6	5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S7 - Sample breakthrough to 2nd section is > 10%. Results may be biased low.
Z - Detected in the method blank at 2 µg/L.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	9.98	6.5	83	15.0	2.8	< 5	< 10	< 1	5100	< 1000	< 5	< 2	120	**1600**	< 2	1900	**63**	< 0.2	< 5	na	< 10	3000.0	< 5	< 2	3500	18000	54000	< 500	12	< 10	< 10
Nov-05	9.41	**6.4**	75	15.7	2.5	< 5	< 10	< 1	4100	< 1000	< 5	< 2	< 100	**3100**	< 2	1500	**70**	< 0.2	< 5	na	< 10	2800	< 5	< 2	3300	13000	56000	< 500	11.6	< 10	< 10
May-06	10.93	**5.9**	95	14.3	9.8	< 5	10	< 1	4900	< 1000	< 20	< 2	< 100	**770**	< 2	1700	**120**	< 0.2	< 20	na	< 10	3200	< 5	< 2	3500	15000	63000	< 500	< 10	< 5	< 20
Nov-06	11.00	**6.2**	73	14.7	3.8	< 5	< 10	< 1	4700	1100	< 20	< 2	< 100	**1000**	< 2	1500	50	< 0.2	< 20	na	< 10	2600	< 5	< 2	3700	12000	68000	590	< 10	< 5	< 50
May-07	11.3	**5.3**	74	14.0	9.4	< 5	< 20	< 1	5000	1100	< 2	< 2	< 100	**970**	< 5	1700	**84**	< 0.2	< 5	na	< 10	3100	< 5	< 2	3500	13000	61000	610	< 10	< 5	< 10
Nov-07	11.3	**6.2**	61	15.9	2.1	< 5	< 10	< 1	5000	1000	< 2	< 5	170	**920**	< 5	1600	**57**	< 0.2	< 5	< 100	< 10	2600	< 5	< 2	3300	11000	58000	810	< 10	< 5	< 10
May-08	11.56	**6.4**	66	14.1	6.5	< 5	< 10	< 1	4600	1200	< 5	< 5	< 100	**1000**	< 5	1700	**53**	< 0.2	< 5	< 200	< 10	2700	< 5	< 2	3000	12000	77000	< 500	< 30	< 5	< 10
Nov-08	11.00	**6.1**	70	15.2	3.0	< 5	< 10	< 1	4400	< 1000	< 2	< 5	120	**940**	< 5	1500	43	< 0.2	< 5	< 200	< 10	2300	< 5	< 2	2600	11000	71000	1000	< 30	< 5	< 20
May-09	11.73	**6.1**	76	15.8	< 5.0	< 5	< 10	< 1	4600	1300	< 2	< 5	< 100	**1000**	< 5	1600	**80**	< 0.2	< 5	< 200	< 10	2700	< 5	< 2	3100	13000	67000	< 500	35.2	< 5	< 20
Nov-09	9.94	6.5	79	14.2	< 5.0	< 5	< 10	< 1	4300	1100	< 2	< 5	150	**1900**	< 5	1500	40	< 0.2	< 5	< 200	< 10	2700	< 5	< 2	3200	11000	46000	< 500	< 30	< 5	< 20
May-10	10.25	**6.2**	72	12.9	8.0	< 5	< 10	< 1	5000	< 1000	< 2	< 5	110	**1000**	< 5	1600	**122**	< 0.2	< 5	< 200	< 10	2500	< 5	< 2	3100	14000	72000	< 500	< 30	< 5	< 20
Nov-10	10.11	**6.3**	62	15.1	10	< 5	< 10	< 1	5000	1200	< 2	< 5	130	**1400**	< 5	1600	**255**	< 0.2	< 5	< 100	< 10	2700	< 5	< 2	3000	13000	69000	940	< 20	< 5	< 20
May-11	10.72	6.6	83	14.6	5.0	< 5	< 10	< 1	5300	1400	< 2	< 5	< 100	**1200**	< 5	1800	**135**	< 0.2	< 5	< 100	< 10	3100	< 5	< 2	3100	16000	64000	< 500	38.6	< 5	< 20
Nov-11	9.90	**6.3**	93.6	15.8	6.3	< 5	< 10	< 1	5100	1400	< 2	< 5	100	**1200**	< 5	1500	**114**	< 0.2	< 5	< 100	< 10	2700	< 5	< 2	3200	12000	81000	850	45	< 5	< 20
May-12	9.94	7.0	77.3	15.8	< 5.0	< 5	< 10	< 1	5100	1240	< 2	< 5	150	**1400**	< 5	1600	50	< 0.2	< 5	< 100	< 10	2800	< 5	< 2	2900	13300	69000	< 1000	< 30	< 5	< 20
Nov-12	10.42	**6.2**	81.0	15.1	< 5.0	< 5	13	< 1	7000	1290	2	< 5	< 100	**1500**	< 5	2000	49	< 0.2	< 5	< 100	< 10	3100	< 5	< 2	3200	14400	86000	< 1000	< 30	< 5	< 20
May-13	8.63	7.0	81.0	16.9	< 5.0	< 5	11	< 1	6500	1300	3	< 5	< 100	**950**	< 5	2000	**68**	< 0.2	< 5	< 100	< 10	3100	< 5	< 2	3100	14600	84000	1210	154	< 5	< 20
Nov-13	10.23	**6.4**	89.5	15.2	< 5.0	< 5	12	< 1	6900	< 1000	< 2	< 5	130	**1300**	< 5	1900	47	< 0.2	< 5	< 100	< 10	2500	< 5	< 2	2900	14800	75000	< 1000	< 30	< 5	< 20
May-14	10.26	**6.3**	81.2	15.6	< 5.0	< 5	11	< 1	6600	1320	< 2	< 5	140	**1000**	< 5	2000	**55**	< 0.2	< 5	< 100	< 10	2600	< 5	< 2	2800	15600	82000	1630	< 30	< 5	< 20
Nov-14	9.46	**6.4**	81.1	16.1	< 5.0	< 5	13	< 1	5900	1140	< 2	< 5	< 100	**2000**	< 5	1800	32	< 0.2	< 5	< 100	< 10	2400	< 5	< 2	2900	13400	46000	< 1000	< 30	5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	34.42	**6.1**	39	16.6	1.4	< 5	10	< 1	1800	< 1000	< 5	< 2	< 100	< 50	< 2	940	< 5	< 0.2	< 5	na	< 10	1000	< 5	< 2	1500	1700	39000	< 500	16	< 10	< 10
Nov-05	34.29	**5.6**	54	14.5	111	< 5	< 20	< 1	2400	< 1000	< 5	< 2	< 100	**1600**	< 2	1000	**100**	< 0.2	< 5	na	< 10	2200	< 5	< 2	2000	15000	46000	500	< 10	< 10	< 10
May-06	36.39	**6.1**	62	15.2	8.4	< 5	20	< 1	2100	< 1000	< 20	< 2	< 100	< 50	< 2	1100	< 5	< 0.2	< 20	na	< 10	1700	< 5	< 2	1700	3000	30000	1600	< 10	< 5	< 20
Nov-06	37.66	**6.0**	46	12.0	9.0	< 5	< 10	< 1	1700	< 1000	< 20	< 2	< 100	< 50	< 2	980	< 5	< 0.2	< 20	na	< 10	1000	< 5	< 2	1500	< 1000	41000	1500	22.9	< 5	< 50
May-07	37.91	**6.2**	38	15.7	2.6	< 5	30	< 1	2000	< 1000	< 2	< 2	< 100	< 100	< 5	1100	< 5	< 0.2	< 5	na	< 10	1400	< 5	< 2	1700	1300	53000	2700	176	< 5	< 10
Nov-07	39.75	**6.0**	35	14.4	1.6	< 5	< 10	< 1	2200	< 1000	< 2	< 5	< 100	< 50	< 5	1100	9	< 0.2	< 5	460	< 10	1400	< 5	< 2	1700	2300	36000	2600	121	< 5	< 10
May-08	41.20	**6.1**	34	15.2	28	< 5	< 10	< 1	1800	< 1000	< 10	< 5	< 100	< 50	< 5	1000	21	< 0.2	< 5	450	< 10	1400	< 5	< 2	1700	2300	54000	< 500	67.1	< 5	< 10
Nov-08	41.84	**4.5**	58	13.2	17	< 5	< 10	< 1	2000	< 1000	< 2	< 5	< 100	50	< 5	1000	12	< 0.2	< 5	410	< 10	1600	< 5	< 2	1600	2400	25000	3000	< 30	< 5	< 20
May-09	42.25	**6.0**	34	16.5	11	< 5	< 10	< 1	1900	< 1000	< 2	< 5	< 100	< 50	< 5	840	26	< 0.2	< 5	450	< 10	1800	< 5	< 2	1800	2300	46000	1600	< 30	< 5	< 20
Nov-09	40.81	**6.0**	36	13.5	7.1	< 5	< 10	< 1	2100	< 1000	< 2	< 5	< 100	< 50	< 5	990	6	< 0.2	< 5	360	< 10	2500	< 5	< 2	1700	2400	54000	5900	112	< 5	< 20
May-10	35.41	**6.1**	34	14.7	9.9	< 5	10	< 1	1700	< 1000	< 2	< 5	< 100	50	< 5	1000	< 5	< 0.2	< 5	430	< 10	1400	< 5	< 2	1600	1100	48000	3200	< 30	< 5	< 20
Nov-10	38.38	**5.8**	36	13.7	6.8	< 5	10	< 1	2000	< 1000	< 2	< 5	< 100	< 50	< 5	1100	< 5	< 0.2	< 5	310	< 10	1600	< 5	< 2	1700	2300	< 25000	1200	< 20	< 5	< 20
May-11	39.37	**6.1**	35	16.0	13	< 5	< 10	< 1	1800	< 1000	2	< 5	< 100	60	< 5	950	16	< 0.2	< 5	520	< 10	1700	< 5	< 2	1700	2700	< 25000	1700	< 30	< 5	< 20
Nov-11	40.39	**6.2**	38	15.3	12.7	< 5	< 10	< 1	1600	< 1000	< 2	< 5	< 100	60	< 5	820	18	< 0.2	< 5	580	< 10	1800	< 5	< 2	1800	2600	50000	560	78	< 5	< 20
May-12	37.52	**6.2**	38.2	15.1	11.8	< 5	< 10	< 1	2100	< 1000	< 2	< 5	< 100	< 50	< 5	1100	6	< 0.2	< 5	630	< 10	1700	< 5	< 2	1800	2060	38000	4770	< 30	< 5	< 20
Nov-12	39.00	**5.9**	37.4	14.4	< 5.0	< 5	< 10	< 1	2000	< 1000	< 2	< 5	< 100	190	< 5	960	15	< 0.2	< 5	640	< 10	1700	< 5	< 2	1800	2200	35000	3980	< 30	5	< 20
May-13	34.84	6.5	36.8	16.1	13.5	< 5	14	< 1	1900	< 1000	5	< 5	< 100	< 50	< 5	1200	< 5	< 0.2	< 5	830	< 10	1400	< 5	< 2	1800	1580	50000	< 1000	86.9	< 5	< 20
Nov-13	36.04	7.2	74.2	11.5	< 5.0	< 5	13	< 1	1900	< 1000	< 2	< 5	< 100	< 50	< 5	1200	< 10	< 0.2	< 5	800	< 10	1300	< 5	< 2	1700	1420	47000	2260	64.2	< 5	< 20
May-14	35.08	**6.3**	47.1	15.9	< 5.0	< 5	14	< 1	1900	< 1000	< 2	< 5	< 100	< 50	< 5	1100	< 5	< 0.2	< 5	990	< 10	1200	< 5	< 2	1700	3670	53000	2790	977	< 5	< 20
Nov-14	37.79	**5.9**	366	14.4	< 5.0	< 5	12	< 1	2000	< 1000	< 2	< 5	< 100	160	< 5	1100	14	< 0.2	< 5	930	< 10	1400	< 5	< 2	1800	1800	< 25000	< 1000	52.3	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	34.07	**6.0**	34	13.1	481	< 5	10	< 1	2300	< 1000	< 5	3	< 100	100	< 2	1400	< 5	< 0.2	< 5	na	< 10	840	< 5	< 2	1600	2200	40000	< 500	< 10	< 10	10
Nov-05	34.05	**6.2**	26	13.3	483	< 5	30	< 1	2400	< 1000	6	< 2	< 100	**720**	2	1700	20	< 0.2	< 5	na	< 10	1000	< 5	< 2	1600	2500	37000	< 500	13.9	< 10	10
May-06	35.00	6.5	51	12.4	24	< 5	10	< 1	2100	< 1000	< 20	< 2	< 100	170	< 2	1500	7	< 0.2	< 20	na	< 10	1000	< 5	< 2	1600	1700	25000	< 500	< 10	< 5	< 20
Nov-06	36.61	**6.0**	34	13.1	8.5	< 5	< 10	< 1	2100	< 1000	< 20	< 2	< 100	210	< 2	1400	< 10	< 0.2	< 20	na	< 10	1100	< 5	< 2	1500	1800	27000	< 500	< 10	< 5	< 50
May-07	36.43	**5.2**	33	13.2	5.9	< 5	10	< 1	2000	< 1000	< 2	< 2	< 100	110	< 5	1400	< 5	< 0.2	< 5	na	< 10	1000	< 5	< 2	1600	2000	41000	< 500	< 10	< 5	< 10
Nov-07	38.85	**6.0**	30	12.9	6.0	< 5	10	< 1	2200	< 1000	3	< 5	< 100	100	< 5	1500	< 5	< 0.2	< 5	< 100	< 10	950	< 5	< 2	1700	1800	35000	< 500	< 10	< 5	< 10
May-08	38.58	**6.3**	36	13.4	5.2	< 5	10	< 1	2000	< 1000	< 5	< 5	< 100	240	< 5	1500	< 5	< 0.2	< 5	< 200	< 10	1000	< 5	< 2	1500	2000	38000	< 500	< 30	< 5	< 10
Nov-08	40.55	6.6	33	12.6	8.7	< 5	10	< 1	2100	< 1000	< 2	< 5	< 100	140	< 5	1600	< 5	< 0.2	< 5	< 200	< 10	950	< 5	< 2	1400	2000	< 25000	< 500	< 30	< 5	< 20
May-09	38.75	**5.5**	34	12.8	9.2	< 5	10	< 1	2200	< 1000	4	< 5	< 100	250	< 5	1600	< 5	< 0.2	7	< 200	< 10	1000	< 5	< 2	1600	2000	< 25000	< 500	< 30	< 5	< 20
Nov-09	37.83	**6.0**	34	12.9	7.3	< 5	10	< 1	2200	< 1000	< 2	< 5	< 100	180	< 5	1600	< 5	< 0.2	< 5	< 200	< 20	1000	< 5	< 2	1600	1800	33000	< 500	< 30	< 5	< 20
May-10	33.46	**6.0**	34	12.8	< 5.0	< 5	20	< 1	2700	< 1000	< 2	< 5	< 100	**810**	< 5	1900	19	< 0.2	< 5	< 200	< 10	1100	< 5	< 2	1600	1900	50000	< 500	< 30	< 5	< 20
Nov-10	37.48	**6.1**	34	13.0	8.9	< 5	10	< 1	2200	< 1000	< 2	< 5	< 100	**400**	< 5	1800	< 5	< 0.2	< 5	< 100	< 10	1100	< 5	< 2	1500	2100	38000	< 500	< 20	< 5	< 20
May-11	37.21	**5.9**	33	13.2	22	< 5	20	< 1	2500	< 1000	3	< 5	< 100	**510**	< 5	1800	8	< 0.2	< 5	< 100	< 10	1000	< 5	< 2	1600	1900	32000	< 500	< 30	< 5	< 20
Nov-11	38.78	**6.0**	33.9	14.5	12.9	< 5	10	< 1	2500	< 1000	< 2	< 5	< 100	140	< 5	1600	< 5	< 0.2	< 5	100	< 10	1000	< 5	< 2	1700	1700	53000	870	73	< 5	< 20
May-12	36.29	**6.1**	33.5	13.3	< 5.0	< 5	13	< 1	2300	< 1000	< 2	< 5	< 100	**320**	< 5	1700	< 5	< 0.2	< 5	< 100	< 10	1100	< 5	< 2	1600	1920	39000	< 1000	< 30	< 5	< 20
Nov-12	37.58	**6.0**	33.6	12.4	6.5	< 5	13	< 1	2300	< 1000S1	2	< 5	< 100	**450**	< 5	1800	< 5	< 0.2	< 5	< 100	< 10	1000	< 5	< 2	1600	1890	48000	< 1000	< 30	< 5	< 20
May-13	33.82	**5.9**	35.9	13.2	33.9	< 5	16	< 1	2400	< 1000	< 2	< 5	< 100	**610**	< 5	1900	17	< 0.2	< 5	< 100	< 10	1100	< 5	< 2	1700	1890	47000	< 1000	< 30	< 5	< 20
Nov-13	35.60	**6.0**	35.2	11.3	8.2	< 5	13	< 1	2300	< 1000	< 2	< 5	< 100	**510**	< 5	1800	< 10	< 0.2	< 5	< 100	< 10	1000	< 5	< 2	1700	1950	33000	< 1000	< 30	< 5S1	< 20
May-14	34.13	**6.1**	36.4	14.4	< 5.0	< 5	13	< 1	2200	< 1000	< 2	< 5	< 100	150	< 5	1700	< 5	< 0.2	< 5	< 100	< 10	990	< 5	< 2	1700	2040	29000	< 1000	< 30	< 5	< 20
Nov-14	30.76	**6.0**	34.7	14.4	8.4	< 5	15	< 1	2300	< 1000	3	< 5	< 100	220	< 5	1800	< 5	< 0.2	< 5	< 100	< 10	1000	< 5	< 2	1600	1500	42000	< 1000	< 30	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	9.42	**6.3**	114	16.7	27	< 5	30	< 1	1700	1600	< 5	< 2	< 100	60	< 2	2700	< 5	< 0.2	< 5	na	10	770	< 5	< 2	2000	10000	41000	640	15	< 10	< 10
Nov-05	10.38	**5.4**	50	15.8	59	< 5	30	< 1	1600	1400	< 5	< 2	< 100	< 50	< 2	2700	5	< 0.2	< 5	na	< 10	520	< 5	< 2	1800	9600	25000	680	< 10	< 10	< 10
May-06	9.59	**5.5**	50	12.8	18	< 5	30	< 1	1500	1400	< 20	< 2	< 100	< 50	< 2	2400	6	< 0.2	< 20	na	< 10	860	< 5	< 2	2000	7600	40000	1100	< 10	< 5	< 20
Nov-06	11.73	**5.5**	30	13.9	42	< 5	< 10	< 1	960	1200	< 20	< 2	< 100	< 50	< 2	1400	7	< 0.2	< 20	na	< 10	2100	< 5	< 2	2300	6500	46000	1500	< 10	< 5	< 50
May-07	10.91	**5.0**	49	14.1	12	< 5	40	< 1	1900	1100	< 2	< 2	< 100	160	< 5	2800	8	< 0.2	< 5	na	< 10	880	< 5	< 2	1900	9200	52000	700	< 10	< 5	< 10
Nov-07	14.20	**5.5**	78	14.4	2.1	< 5	20	< 1	900	< 1000	< 2	< 5	< 100	< 50	< 5	1500	5	< 0.2	< 5	140	< 10	650	< 5	< 2	1400	12000	41000	890	< 10	< 5	< 10
May-08	11.94	**5.8**	57	12.5	7.2	< 5	20	< 1	1800	1200	< 5	< 5	< 100	110	< 5	2800	7	< 0.2	< 5	200	< 10	670	< 5	< 2	1600	10000	50000	< 500	< 30	< 5	< 10
Nov-08	15.13	**5.4**	57	13.2	14	< 5	30	< 1	2000	< 1000	< 2	< 5	< 100	**380**	< 5	3100	8	< 0.2	< 5	< 200	< 10	650	< 5	< 2	1500	14000	36000	7000	< 30	< 5	< 20
May-09	11.21	**5.5**	48	11.8	< 5.0	< 5	20	< 1	1600	1300	< 2	< 5	< 100	< 50	< 5	2900	6	< 0.2	< 5	< 200	< 10	< 500	< 5	< 2	1800	11000	< 25000	< 500	< 30	< 5	< 20
Nov-09	10.77	**5.4**	55	13.4	< 5.0	< 5	30	< 1	2800	1200	< 2	< 5	< 100	< 50	< 5	3200	6	< 0.2	< 5	210	< 20	1000	< 5	< 2	1900	12000	< 25000	< 500	< 30	< 5	< 20
May-10	9.27	**5.4**	52	10.4	< 5.0	< 5	20	< 1	1800	1200	< 2	< 5	< 100	< 50	< 5	2900	< 5	< 0.2	< 5	< 200	< 10	510	< 5	< 2	1600	11000	46000	< 500	< 30	< 5	< 20
Nov-10	12.78	**5.2**	53	13.1	< 5.0	< 5	30	< 1	2000	1300	< 2	< 5	< 100	< 50	< 5	3200	5	< 0.2	< 5	140	< 10	570	< 5	< 2	1700	12000	51000	< 500	< 20	< 5	< 20
May-11	11.18	**6.3**	55	13.7	8.2	< 5	10	< 1	1100	1400	3	< 5	< 100	< 50	< 5	1600	7	< 0.2	< 5	130	< 10	790	< 5	< 2	1900	9000	< 25000	< 500	< 30	< 5	40
Nov-11	13.74	**5.8**	68.6	14.9	5.9	< 5	30	< 1	2200	1200	< 2	< 5	< 100	90	< 5	3600	6	< 0.2	< 5	120	< 10	630	< 5	< 2	1500	12000	53000	< 500	62	< 5	< 20
May-12	10.16	**6.3**	63.1	14.0	17.4	< 5	28	< 1	2100	1160	< 2	< 5	< 100	**730**	< 5	3200	7	< 0.2	< 5	130	< 10	1600	< 5	< 2	1600	12400	41000	< 1000	< 30	< 5	< 20
Nov-12	12.28	**5.5**	48.7	15.1	5.4	< 5	23	< 1	2100	1240	< 2	< 5	< 100	110	< 5	2900	5	< 0.2	< 5	130	< 10	590	< 5	< 2	1400	13200	45000	< 1000	< 30	< 5	< 20
May-13	8.29	**5.8**	78.4	11.9	22.9	< 5	26	< 1	1700	1250	3Z	< 5	< 100	**760**	< 5	2800	9	< 0.2	< 5	< 100	< 10	810	< 5	< 2	1600	9930	67000	1410	84.8	< 5	< 20
Nov-13	12.68	**5.5**	45.6	11.9	201	< 5	57	< 1	1800	< 1000	8	9	< 100	**11000**	< 5	3400	32	< 0.2	< 5	110	< 10	1600	< 5	< 2	1500	10500	49000	1000	< 30	< 5	25
May-14	9.45	**5.8**	56.2	13.4	12.2	< 5	20	< 1	1700	< 1000	< 2	< 5	< 100	220	< 5	2800	6	< 0.2	< 5	< 100	< 10	550	< 5	< 2	1400	8920	68000	< 1000	< 30	< 5	< 20
Nov-14	16.79	**5.7**	59.2	15.8	15.5	< 5	27	< 1	2400	1100	8	< 5	< 100	390	< 5	2900	9	< 0.2	< 5	130	< 10	2400	< 5	< 2	1800	10900	64000	< 1000	< 30	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
Z - Detected in the method blank at 2 µg/L.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	10.59	**6.0**	226	14.2	14	< 5	30	< 1	13000	8100	< 5	< 2	< 100	110	< 2	8200	12	< 0.2	< 5	na	< 10	3300	< 5	< 2	17000	36000	141000	< 500	< 10	< 10	< 10
Nov-05	11.68	**5.9**	210	14.2	166	< 5	40	< 1	11000	6800	< 5	11	< 100	**380**	< 2	7400	30	< 0.2	< 5	na	< 10	3100	< 5	< 2	15000	35000	128000	< 500	< 10	< 10	< 10
May-06	11.11	**5.8**	236	14.1	6.7	< 5	40	< 1	13000	6800	< 20	< 2	< 100	< 50	< 2	8400	< 5	< 0.2	< 20	na	< 10	3500	< 5	< 2	16000	42000	159000	< 500	< 10	< 5	< 20
Nov-06	11.29	**6.1**	230	14.6	15	< 5	< 10	< 1	11000	7900	< 20	< 2	< 100	< 100	< 2	7400	< 10	< 0.2	< 20	na	< 10	3200	< 5	< 2	14000	36000	138000	670	< 10	< 5	< 50
May-07	11.30	**5.5**	214	13.9	4.4	< 5	30	< 1	12000	6500	< 2	< 2	170	< 100	< 5	7700	< 5	0.2	< 5	na	< 10	3100	< 5	< 2	14000	35000	158000	< 500	11.6	< 5	10
Nov-07	11.86	**5.9**	208	14.1	6.8	< 5	30	< 1	14000	8200	< 2	< 5	140	70	< 5	8800	< 5	< 0.2	< 5	1400	< 10	2900	< 5	< 2	15000	43000	200000	780	27.6	< 5	< 10
May-08	11.51	**6.0**	209	13.5	5.5	< 5	30	< 1	12000	7400	< 5	< 5	< 100	100	< 5	8700	< 5	< 0.2	< 5	1300	< 10	3100	< 5	< 2	14000	44000	190000	< 500	< 30	< 5	< 10
Nov-08	11.93	**5.8**	228	13.6	18	< 5	30	< 1	15000	8500	< 2	< 5	< 100	110	< 5	9800	8	< 0.2	< 5	1300	< 10	3100	< 5	< 2	12000	49000	156000	810	< 30	< 5	< 20
May-09	10.65	**6.0**	229	14.4	< 5.0	< 5	30	< 1	12000	7800	< 2	< 5	< 100	< 50	< 5	8200	< 5	< 0.2	< 5	1200	< 10	3200	< 5	< 2	15000	41000	122000	< 500	< 30	< 5	< 20
Nov-09	10.20	**6.0**	224	14.6	< 5.0	< 5	30	< 1	12000	8000	< 2	< 5	< 200	< 50	< 5	8000	< 5	< 0.2	< 5	1100	< 10	3200	< 5	< 2	15000	40000	170000	< 500	< 30	< 5	< 20
May-10	11.06	**6.0**	207	13.0	< 5.0	< 5	30	< 1	11000	7900	< 5	< 5	< 100	< 50	< 5	7400	< 5	< 0.2	< 5	1000	< 10	2900	< 5	< 2	14000	34000	150000	< 500	< 30	< 5	< 20
Nov-10	11.77	**5.9**	221	14.3	< 5.0	< 5	30	< 1	13000	12000	2	< 5	< 100	< 50	< 5	8400	< 5	< 0.2	< 5	1100	< 10	3300	< 5	< 2	14000	42000	172000	< 500	< 20	< 5	< 20
May-11	11.35	**6.0**	327	14.3	< 5.0	< 5	50	< 1	17000	18000	3	< 5	< 100	< 50	< 5	11000	< 5	< 0.2	< 5	1300	< 10	3700	< 5	< 2	**26000**	50000	214000	< 500	< 30	< 5	20
Nov-11	11.55	**5.9**	317	14.0	< 5.0	< 5	50	< 1	18000	15000	< 2	< 5	< 100	< 50	< 5	12000	< 5	< 0.2	< 5	1200	< 10	3900	< 5	< 2	**25000**	58000	230000	< 500	102	5	< 20
May-12	11.10	**6.0**	324	14.2	5.8	< 5	49	< 1	18000	15800	3	< 5	< 100	220	< 5	12000	< 5	< 0.2	< 5	1790	< 10	3900	< 5	< 2	**25000**	56300	230000	< 1000	< 30	< 5	23
Nov-12	11.43	**6.0**	323	13.5	9.9	< 5	50	< 1	18000	15600	7	< 5	< 200X	130	< 5	12000	< 5	< 0.2	< 5	1960	< 10	4100	< 5	< 2	**26000**	56000	220000	< 1000	< 30	< 5S1	< 20
May-13	9.41	**5.8**	332	15.8	< 5.0	< 5	47	< 1	18000	15300	3Z	< 5	< 100	< 50	< 5	11000	< 5	< 0.2	< 5	2360	< 10	4100	< 5	< 2	**27000**	50200	258000	< 1000	< 30	< 5	< 20
Nov-13	11.42	**6.0**	293	14.6	< 5.0	< 5	38	< 1	15000	13500	< 2	< 5	< 100	82	< 5	10000	< 10	< 0.2	< 5	1850	< 10	3200	< 5	< 2	20000	43200	185000	< 1000	< 30	< 5	< 20
May-14	10.93	**6.1**	249	16.0	< 5.0	< 5	36	< 1	14000	13600	< 2	< 5	110	< 50	< 5	9500	< 5	< 0.2	< 5	2210	< 10	2900	< 5	< 2	**22000**	43200	180000	< 1000	< 30	< 5	< 20
Nov-14	11.50	**5.8**	279	14.6	< 5.0	< 5	38	< 1	16000	14700	< 2	< 5	< 100	180	< 5	11000	6	< 0.2	< 5	2050	< 10	3100	< 5	< 2	**22000**	48000	196000	< 1000	< 30	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.
Z - Detected in the method blank at 2 µg/L.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	18.48	7.0	2765	13.7	96	< 5	20	< 1	11000	44000	< 5	< 20	670	**1200**	< 2	7700	**1200**	< 0.2	< 5	na	< 10	5100	< 5	< 2	**601000**	**998000**	**1670000**	4200	150	< 10	< 10
Nov-05	19.63	6.9	2370	16.3	95	< 5	20	< 1	11000	33000	< 5	3	< 500	**920**	< 2	7400	**1200**	< 0.2	< 5	na	< 10	4300	< 5	< 2	**490000**	**695000**	**1690000**	3200	49.2	< 10	< 10
May-06	18.66	6.8	1941	13.4	36	< 5	10	< 1	12000	40000	< 20	4	< 1000	**470**	< 2	8200	**1300**	< 0.2	< 20	na	< 10	4400	< 5	< 2	**530000**	**963000**	**1800000**	3200	34.1	8	< 20
Nov-06	20.12	6.9	2748	13.9	20	< 5	< 10	< 1	12000	43000	< 20	4	< 1000	**540**	< 2	8100	**1300**	< 0.2	< 20	na	< 10	3800	< 5	< 2	**630000**	**925000**	**1940000**	3800	36.5	< 5	< 50
May-07	19.64	**5.4**	2330	15.4	33	< 5	30	< 1	11000	32000	4	5	< 1000	**1900**	< 5	8200	**1300**	< 2	< 5	na	< 10	4700	< 5	< 2	**560000**	**751000**	**1680000**	3300	34	< 5	< 10
Nov-07	21.08	6.9	2189	14.1	53	< 5	20	< 1	13000	32000	5	< 5	< 1000	**1500**	< 5	8700	**1400**	< 0.2	< 5	< 100	< 10	4200	< 5	< 2	**530000**	**788000**	**1680000**	2900	26.5	< 5	< 10
May-08	19.94	7.3	2344	16.8	107	< 5	40	< 1	15000	35000	< 10	8	< 500	**4700**	6	11000	**1700**	< 0.2	< 5	< 200	< 10	5300	< 5	< 2	**460000**	**823000**	**1760000**	3000	< 30	< 5	10
Nov-08	21.19	6.8	2329	11.8	52	< 5	20	< 1	13000	39000	3	5	< 1000	**1300**	< 5	8800	**1500**	< 0.2	< 5	< 200	< 10	4800	< 5	< 2	**438000**	**805000**	**1590000**	3300	83.6	< 5	< 20
May-09	18.76	6.9	2457	13.3	55	< 5	30	< 1	13000	42000	6	5	< 1000	**1900**	< 5	9500	**1800**	< 0.2	< 5	< 200	< 10	5800	< 5	< 2	**530000**	**787000**	**1650000**	2800	33.8	< 5	< 20
Nov-09	17.93	6.8	2125	14.2	6.9	< 5	10	< 1	10000	33000	4	< 5	< 1000	290	< 5	6700	**1400**	< 0.2	< 5	< 200	< 10	4800	< 5	< 2	**450000**	**584000**	**1160000**	2800	< 30	< 5	< 20
May-10	19.06	6.8	1992	13.5	13	< 5	20	< 1	9500	27000	3	< 5	< 1000	**1000**	< 5	6600	**1300**	< 0.2	< 5	< 200	< 10	4600	< 5	< 2	**390000**	**423000**	**1290000**	2000	< 30	< 5	< 20
Nov-10	20.82	6.9	1830	13.1	9.0	< 5	10	< 1	18000	28000	5	< 5	< 1000	**330**	< 5	12000	**1290**	< 0.2	< 5	< 100	< 10	4400	< 5	< 2	**370000**	**619000**	**1300000**	1900	21	< 5	< 20
May-11	19.25	6.7	2321	16.8	9.0	< 5	20	< 1	12000	44000	5	< 5	< 1000	**320**	< 5	8600	**1800**	< 0.2	< 5	< 100	< 10	4800	< 5	< 2	**470000**	**730000**	**1560000**	2700	< 30	< 5	< 20
Nov-11	20.88	6.9	2093	12.3	6.8	< 5	10	< 1	10000	36000	< 2	< 5	< 1000	260	< 5	6900	**1400**	< 0.2	< 5	< 100	< 10	4600	< 5	< 2	**480000**	**608000**	**1520000**	2400	485	< 5	< 20
May-12	18.76	6.7	2120	14.0	< 5.0	< 5	14	< 1	11000	39200	3	< 5	< 1000X	87	< 5	7400	**1600**	< 0.2	< 5	< 100	< 10	4700	< 5	< 2	**450000**	**640000**	**1490000**	2200	< 30	< 5	< 20
Nov-12	20.29	7.0	2110	14.2	13.6	< 5	19	< 1	11000	38200	8	5Z	< 1000X	**810**	< 5	7800	**1600**	< 0.2	< 5	< 100	< 10	5200	< 5	< 2	**480000**	**616000**	**1420000**	2220	33.1	< 5	< 20
May-01-13	17.07	7.1	1680	14.8	8.6	< 5	12	< 1	5400	23000	3Z1	< 5	< 1000X	**340**	< 5	3600	**680**	< 0.2	< 5	< 100	< 10	3100	< 5	< 2	**360000**	**419000**	**1130000**	1820	na	< 5	< 20
May-06-13	14.74	7.0	1680	15.6	9.6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	68	na	na
Nov-13	19.81	6.9	1840	14.8	< 5.0	< 5	16	< 1	7500	25100	< 2	< 5	< 1000X	240	< 5	5200	**1140**	< 0.2	< 5	< 100	< 10	3400	< 5	< 2	**400000**	**438000**	**1220000**	1800	< 30	< 5	< 20
May-14	18.82	6.7	1670	17.4	9.1	< 50X	15	< 10X	6900	25400	< 20X	< 50X	< 1000X	**530**	< 50X	4800	**752**	< 0.2	< 50X	< 100	< 10	3.2	< 50X	< 2	**370000**	**436000**	**1050000**	1730	69	< 5	< 20
Nov-14	20.38	6.8	1370	18.4	7.7	< 5	19	< 1	6400	24600	< 2	< 5	450	**640**	< 5	4400	**1030**	< 0.2	< 5	< 100	< 10	3200	< 5	< 2	**380000**	**486000**	**1060000**	1690	< 30	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.
Z - Copper was present in the batch blank at greater than half the MRL.
Z1 - Chromium was detected in the method blank at 2 µg/L.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	22.89	**5.9**	184	16.7	130	< 5	170	< 1	5200	12000	5	< 2	< 100	**900**	< 2	2700	34	< 0.2	< 5	na	< 10	2700	< 5	< 2	**28000**	4300	100000	1400	< 10	< 10	10
Nov-05	23.62	**5.7**	128	17.3	45	< 5	80	< 1	880	4600	< 5	< 2	< 100	**380**	< 2	780	10	< 0.2	< 5	na	< 10	1500	< 5	< 2	**25000**	4400	96000	600	< 10	< 10	< 10
May-06	24.24	**5.7**	180	18.8	11	< 5	160	< 1	9000	18000	< 20	< 2	< 100	140	< 2	4300	19	< 0.2	< 20	na	< 10	2600	< 5	< 2	14000	1600	87000	780	< 10	< 5	< 20
Nov-06	26.03	**5.7**	162	12.3	7.4	< 5	150	< 1	12000	17000	< 20	< 2	< 100	60	< 2	4300	14	< 0.2	< 20	na	< 10	2700	< 5	< 2	9800	< 1000	112000	< 500	< 10	< 5	< 50
May-07	26.16	**5.1**	178	17.3	31	< 5	150	< 1	15000	18000	2	< 2	< 100	**320**	< 5	5000	19	< 0.2	< 5	na	< 10	2900	< 5	< 2	9700	1200	148000	560	< 10	< 5	< 10
Nov-07	28.53	**5.8**	179	16.1	24	< 5	160	< 1	18000	20000	3	< 5	< 100	210	< 5	5400	23	< 0.2	< 5	1700	< 10	3000	< 5	< 2	9600	< 1000	136000	< 500	< 10	< 5	< 10
May-08	28.71	**6.2**	200	16.9	11	< 5	140	< 1	18000	24000	< 5	< 5	< 100	180	< 5	5400	15	< 0.2	< 5	1200	< 10	3200	< 5	< 2	8900	2100	158000	< 500	< 30	< 5	< 10
Nov-08	30.85	**6.0**	188	13.0	8.4	< 5	140	< 1	18000	22000	2	< 5	< 100	90	< 5	5000	10	< 0.2	< 5	1200	< 10	2900	< 5	< 2	7300	< 1000	137000	710	< 30	< 5	< 20
May-09	30.59	**5.8**	199	13.5	6.8	< 5	130	< 1	18000	30000	< 2	< 5	< 100	80	< 5	4900	7	< 0.2	< 5	680	< 10	3100	< 5	< 2	8300	< 1000	176000	< 500	< 30	< 5	< 20
Nov-09	29.94	**5.9**	201	14.9	9.8	< 5	140	< 1	20000	28000	4	< 5	< 100	**400**	< 5	5200	13	< 0.2	< 5	620	< 20	3200	< 5	< 2	8700	< 1000	126000	< 500	< 30	< 5	20
May-10	24.22	**5.4**	109	14.1	11	< 5	120	< 1	5800	9700	3	< 5	< 100	150	< 5	2900	7	< 0.2	< 5	2100	< 10	2300	< 5	< 2	12000	4200	94000	560	< 30	< 5	< 20
Nov-10	27.11	**5.5**	130	14.5	7.6	< 5	120	< 1	9300	15000	3	< 5	< 100	140	< 5	3400	6	< 0.2	< 5	1400	< 10	2600	< 5	< 2	9500	1600	30000	< 500	< 20	< 5	< 20
May-11	26.57	**5.6**	136	17.9	7.4	< 5	130	< 1	13000	14000	3	< 5	< 100	130	< 5	4200	8	< 0.2	< 5	1610	< 10	2600	< 5	< 2	7700	< 1000	107000	< 500	< 30	< 5	< 20
Nov-11	28.99	**5.3**	124	14.8	< 5.0	< 5	120	< 1	5500	13000	3	< 5	< 100	90	< 5	3500	6	< 0.2	< 5	1100	< 10	2800	< 5	< 2	8200	< 1000	110000	520	< 30	< 5	< 20
May-12	26.48	**5.6**	89.9	16.8	< 5.0	< 5	93	< 1	6100	6660S1	2	< 5	< 100	< 50	< 5	2200	< 5	< 0.2	< 5	1460	< 10	2200	< 5	< 2	6700	< 1000	78000	< 1000	< 30	< 5	< 20
Nov-12	27.31	**5.8**	159	9.9	15.1	< 5	150	< 1	15000	17700	8	< 5	< 100	**480**	< 5	4700	13	< 0.2	< 5	1250	< 10	3300	< 5	< 2	7900	< 1000	127000	< 1000	< 30	< 5	< 20
May-13	22.91	**6.1**	199	15.9	37.7	< 5	84	< 1	730	2840	**11**	< 5	< 100	**830**	< 5	850	32	< 0.2	< 5	1140	< 10	1800	< 5	< 2	**43000**	8520	132000	1120	< 30	< 5	< 20
Nov-13	23.69	**5.5**	113	14.5	10.0	< 5	72	< 1	1100	2290	< 2	< 5	< 100S1	**400**	< 5	1900	13	< 0.2	< 5	480	< 10	1400	< 5	< 2	18000	10800	76000	< 1000	< 30	< 5	< 20
May-14	21.81	**5.2**	108	21.5	42.3	< 5	110	< 1	1900	2580S1	3	< 5	< 100S1	**1500**	< 5	4100	**52**	< 0.2	< 5	440	< 10	1700	< 5	< 2	15000	14600	60000	< 1000	< 30	< 5	< 20
Nov-14	25.51	**5.7**	102	9.9	9.9	< 5	90	< 1	2300	4560	< 2	< 5	< 100	300	< 5	3000	11	< 0.2	< 5	1400	< 10	1600	< 5	< 2	13000	6140	60000	< 1000	< 30	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	20.68	**5.9**	37	13.4	8.4	< 5	40	< 1	3800	1300	< 5	< 2	< 100	150	< 2	1400	13	< 0.2	< 5	na	< 10	1800	< 5	< 2	2500	< 1000	53000	< 500	< 10	< 10	10
Nov-05	23.63	**5.7**	45	12.4	3.6	< 5	40	< 1	3700	< 1000	< 5	< 2	< 100	80	< 2	1300	10	< 0.2	< 5	na	< 10	1400	< 5	< 2	2800	< 1000	40000	< 500	< 10	< 10	< 10
May-06	21.05	**5.8**	51	13.3	38	< 5	40	< 1	4100	1200	< 20	< 2	< 100	**350**	< 2	1500	13	< 0.2	< 20	na	< 10	1500	< 5	< 2	2800	< 1000	54000	< 500	< 10	< 5	< 20
Nov-06	25.69	**5.8**	48	12.7	7.2	< 5	20	< 1	3900	< 1000	< 20	< 2	< 100	110	< 2	1300	13	< 0.2	< 20	na	< 10	1300	< 5	< 2	2800	< 1000	57000	630	< 10	6	< 50
May-07	23.51	**5.6**	48	11.8	23	< 5	40	< 1	4400	< 1000	< 2	< 2	< 100	180	< 5	1500	25	< 0.2	< 5	na	< 10	1700	< 5	< 2	3000	< 1000	49000	1300	< 10	< 5	< 10
Nov-07	30.50	**5.7**	45	13.3	9.0	< 5	40	< 1	4400	< 1000	< 2	< 5	< 100	160	< 5	1400	10	< 0.2	< 5	300	< 10	1400	< 5	< 2	2800	< 1000	41000	< 500	< 10	< 5	< 10
May-08	27.50	**5.9**	40	14.9	47	< 5	40	< 1	3200	< 1000	< 5	< 5	< 100	**690**	< 5	1200	23	< 0.2	< 5	260	< 10	1400	< 5	< 2	2500	< 1000	61000	< 500	< 30	< 5	< 10
Nov-08	33.30	**6.0**	48	13.1	40	< 5	40	< 1	4000	< 1000	< 2	< 5	< 100	**470**	< 5	1400	7	< 0.2	< 5	< 200	< 10	1500	< 5	< 2	3000	< 1000	44000	1900	< 30	< 5	< 20
May-09	29.51	**5.7**	44	12.1	15	< 5	40	< 1	3600	< 1000	< 2	< 5	< 100	**410**	< 5	1300	10	< 0.2	< 5	240	< 10	1500	< 5	< 2	2800	< 1000	< 25000	720	< 30	< 5	< 20
Nov-09	30.32	**6.3**	46	12.3	22	< 5	50	< 1	4700	< 1000	2	< 5	< 100	**920**	< 5	1500	16	< 0.2	< 5	280	< 20	1800	< 5	< 2	2900	< 1000	46000	< 500	< 30	< 5	< 20
May-10	22.65	**5.8**	54	12.5	< 5.0	< 5	40	< 1	4500	1300	< 2	< 5	< 100	110	< 5	1600	< 5	< 0.2	< 5	370	< 10	1600	< 5	< 2	3000	< 1000	55000	< 500	< 30	< 5	< 20
Nov-10	30.13	**5.4**	51	13.3	< 5.0	< 5	40	< 1	4200	1000	2	< 5	< 100	150	< 5	1500	< 5	< 0.2	< 5	310	< 10	1600	< 5	< 2	3000	< 1000	60000	690	< 20	< 5	< 20
May-11	26.49	**5.9**	49	14.4	< 5.0	< 5	30	< 1	3900	1000	2	< 5	< 100	< 50	< 5	1400	< 5	< 0.2	< 5	320	< 10	1300	< 5	< 2	2800	1000	47000	< 500	< 30	< 5	< 20
Nov-11	32.51	**5.9**	49	13.3	< 5.0	< 5	40	< 1	4100	< 1000	3	< 5	< 100	90	< 5	1400	< 5	< 0.2	< 5	330	< 10	1500	< 5	< 2	3100	< 1000	52000	550	< 30	< 5	< 20
May-12	26.01	**5.8**	50.4	12.7	< 5.0	< 5	38	< 1	4300	1070	< 2	< 5	< 100S1	130	< 5	1500	< 5	< 0.2	< 5	310	< 10	1600	< 5	< 2	2900	< 1000	57000	< 1000	< 30	< 5	< 20
Nov-12	30.28	**6.1**	50.9	12.3	21.6	< 5	45	< 1	4500	1150S1	2	< 5	< 100	**930**	< 5	1700	17	< 0.2	< 5	280	< 10	1800	< 5	< 2	3200	< 1000	54000	< 1000	< 30	32	< 20
May-13	21.46	**6.0**	54.9	14.0	9.4	< 5	48	< 1	4500	1280	5	< 5	< 100	**510**	< 5	1700	6	< 0.2	< 5	320	< 10	1600	< 5	< 2	2900	< 1000	53000	< 1000	< 30	< 5	< 20
Nov-13	25.53	**5.8**	56.8	11.4	37.8	< 5	49	< 1	4500	< 1000S1	< 2	< 5	< 100	**1100**	< 5	1800	12	< 0.2	< 5	270	< 10	1600	< 5	< 2	3000	< 1000S1	66000	< 1000	< 30	< 5	< 20
May-14	20.54	**5.7**	56.1	13.9	9.7	< 5	43	< 1	4400	1100	< 2	< 5	< 100	56	< 5	1600	< 5	< 0.2	< 5	390	< 10	1300	< 5	< 2	2800	< 1000	51000	< 1000	< 30	< 5	< 20
Nov-14	27.61	**6.3**	54.6	14.4	< 5	< 5	38	< 1	4700	< 1000	< 2	< 5	< 100	< 50	< 5	1600	< 5	< 0.2	< 5	260	< 10	1300	< 5	< 2	3100	< 1000	54000	< 1000	< 30	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.

Evergreen Packaging
Canton Landfill No. 6

MW-16D

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	72.19	6.6	1770	16.6	1.0	< 5	230	< 1	250000	102000	< 5	3	< 500	< 50	< 2	38000	**1500**	< 0.2	15	na	< 10	22000	< 5	< 2	**55000**	71000	**1110000**	9600	140	< 10	< 10
Nov-05	62.62	6.6	1616	13.2	5.5	< 5	200	< 1	250000	95000	< 5	< 2	< 500	**430**	< 2	37000	**2800**	< 0.2	11	na	< 10	22000	< 5	< 2	**51000**	64000	**1100000**	9800	62.7	< 10	< 10
May-06	60.62	6.6	1448	16.0	2.9	< 5	200	< 1	250000	100000	< 20	< 2	< 100	**970**	< 2	35000	**3500**	< 0.2	< 20	na	< 10	22000	< 5	< 2	**48000**	65000	**1090000**	9700	41.3	< 5	< 20
Nov-06	60.67	6.8	1736	13.1	< 1.0	< 5	170	< 1	250000	96000	< 20	2	< 200	**1400**	< 2	36000	**3500**	< 0.2	< 20	na	< 10	23000	< 5	< 2	**48000**	69000	**990000**	12000	80.8	< 5	< 50
May-07	60.86	**6.3**	1387	15.7	2.2	< 5	220	< 1	270000	94000	3	< 2	< 200	**2300**	< 5	39000	**4300**	< 0.2	12	na	< 10	24000	< 5	< 2	**51000**	62000	**1100000**	10000	72.2	< 5	< 10
Nov-07	61.70	6.8	1633	15.8	4.0	< 5	210	< 1	280000	97000	5	< 5	< 200	**3500**	< 5	38000	**4600**	< 0.2	10	< 100	< 10	21000	< 5	< 2	**50000**	65000	**1090000**	10000	58.8	< 5	< 10
May-08	62.10	6.8	1642	15.7	6.6	< 5	240	< 1	260000	85000	< 10	< 5	< 200	**4700**	< 5	40000	**4800**	< 0.2	11	< 200	< 10	24000	< 5	< 2	**46000**	58000	**1150000**	9900	72.9	< 5	< 10
Nov-08	62.75	6.9	1713	14.3	7.1	< 5	210	< 1	265000	93000	3	< 5	< 200	**4400**	< 5	38000	**4800**	< 0.2	13	< 200	< 10	24000	< 5	< 2	**40000**	61000	**1050000**	10000	141	< 5	< 20
May-09	63.18	6.8	1739	15.7	< 5.0	< 5	200	< 1	260000	103000	< 2	< 5	< 200	**4200**	< 5	39000	**4700**	< 0.2	9	< 200	< 10	25000	< 5	< 2	**51000**	71000	**1070000**	11000	< 30	< 5	< 20
Nov-09	62.89	6.7	1355	14.1	< 5.0	< 5	190	< 1	270000	88000	6	< 5	< 200	**4100**	< 5	37000	**4700**	< 0.2	7	< 200	< 10	25000	< 5	< 2	**49000**	55000	**966000**	15000	39.5	< 5	< 20
May-10	61.59	6.8	1723	13.9	< 5.0	< 5	180	< 1	250000	87000	< 5	< 5	< 200	**4000**	< 5	37000	**4700**	< 0.2	7	< 200	< 10	26000	< 5	< 2	**49000**	57000	**1250000**	11000	91	< 5	< 20
Nov-10	61.59	6.9	1676	14.4	< 5.0	< 5	170	< 1	240000	86000	6	< 5	< 200	**3900**	< 5	38000	**4900**	< 0.2	8	< 100	< 10	26000	< 5	< 2	**49000**	53000	**1090000**	11000	31	< 5	< 20
May-11	62.61	6.8	1616	16.6	< 5.0	< 5	170	< 1	240000	82000	7	< 5	< 200	**3700**	< 5	37000	**4900**	< 0.2	7	< 100	< 10	24000	< 5	< 2	**46000**	50000	**1070000**	11000	104	< 5	20
Nov-11	62.21	7.0	1622	12.5	< 5.0	< 5	170	< 1	260000	81000	< 2	< 5	< 200	**3400**	< 5	37000	**4900**	< 0.2	7	< 100	< 10	25000	< 5	< 2	**49000**	53000	**1140000**	11000	902	< 5	< 20
May-12	62.14	6.8	1600	15.9	< 5.0	< 5	180	< 1	250000	80400	3	< 5	< 200X	**2900**	< 5	37000	**5100**	< 0.2	7	< 100	< 10	25000	< 5	< 2	**48000**	48800	**1040000**	10900	209S7	< 5	< 20
Nov-12	62.37	7.0	1600	13.9	< 5.0	< 5	190	< 1	280000	89800	**16**	< 5Z	< 200X	**3100**	< 5	40000	**5400**	< 0.2	< 5	< 100	< 10	27000	< 5	< 2	**49000**	44400	**1130000**	11700	57.7	< 5	< 20
May-13	62.11	6.9	1670	15.0	< 5.0	< 5	180	< 1	250000	90600	< 2	< 5	< 100S1	**2900**	< 5	37000	**4900**	< 0.2	8	< 100	< 10	25000	< 5	< 2	**48000**	43100	**1180000K**	11400	48.4	< 5	< 20
Nov-13	61.35	6.8	1760	6.9	5.1	< 5	170	< 1	240000	83200	< 2	< 5	< 100	**2800**	< 5	35000	**4630**	< 0.2	< 5	< 100	< 10	21000	< 5	< 2	**45000**	43400	**900000**	11900	30.9	6	< 20
May-14	60.62	6.8	1610	17.7	9.5	< 25X	150	< 5X	230000	81200	< 10X	< 25X	< 500X	**1700**	< 25X	44000	**4310**	< 0.2	< 25X	< 100	< 10	22000	< 25X	< 2	**56000**	37100	**1020000**	11500	65	< 5	< 20
Nov-14	60.09	7.0	1630	16.4	< 5.0	< 5	180	< 1	260000	71500	< 2	< 5	< 100	**3200**	< 5	37000	**4690**	< 0.2	< 5	< 100	< 10	21000	< 5	< 2	**46000**	40700	**980000**	10700	71.9	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
K - The sample was analyzed beyond the accepted holding time.
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
S7 - Sample breakthrough to 2nd section is > 10%. Results may be biased low.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.
Z - Copper was present in the batch blank at greater than half the MRL.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	51.11	**6.2**	1188	17.8	2.0	< 5	440	< 1	55000	96000	< 5	< 2	< 500	**1700**	< 2	19000	**5400**	< 0.2	10	na	20	5800	< 5	< 2	**185000**	14000	**678000**	10000	200	< 10	20
Nov-05	50.02	**6.1**	412	15.6	5.2	< 5	250	< 1	20000	32000	< 5	< 2	< 100	260	< 2	5100	**920**	< 0.2	< 5	na	20	3600	< 5	< 2	**57000**	9000	268000	2300	53.4	< 10	20
May-06	51.33	**6.0**	504	15.5	5.0	< 5	310	< 1	27000	44000	< 20	< 2	< 100	**410**	< 2	9300	**1800**	< 0.2	< 20	na	< 10	5000	< 5	< 2	**61000**	6600	308000	2500	38.5	< 5	< 20
Nov-06	52.87	**6.1**	905	14.0	1.0	< 5	480	< 1	44000	74000	< 20	3	< 200	140	< 2	15000	**3000**	< 0.2	< 20	na	< 10	4900	< 5	< 2	**130000**	7600	**528000**	6500	89.9	< 5	< 50
May-07	54.09	**5.9**	804	15.7	4.2	< 5	490	< 1	43000	69000	3	< 2	< 400	110	< 5	14000	**2300**	< 0.2	9	na	< 10	7000	< 5	< 2	**130000**	7600	**550000**	5800	150	< 5	< 10
Nov-07	56.18	**6.4**	1541	14.3	3.1	< 5	**820**	< 1	71000	121000	8	< 5	< 200	160	< 5	25000	**5500**	< 0.2	19	230	< 10	7000	< 5	< 2	**280000**	16000	**1000000**	16000	128	< 5	< 10
May-08	57.53	**6.3**	2299	14.6	2.7	< 5	**1000**	< 1	93000	136000	< 10	< 5	< 200	**910**	< 5	38000	**9400**	< 0.2	36	< 200	< 10	9100	< 5	< 2	**430000**	18000	**1560000**	30000	365	< 5	< 10
Nov-08	59.00	6.5	4030	14.4	5.4	< 5	**840**	< 1	126000	179000	6	< 5	< 200	**5900**	< 5	60000	**13000**	< 0.2	51	< 200	< 10	10000	< 5	< 2	**546000**	36000	**2380000**	63000	435	< 5	< 20
May-09	59.61	**6.4**	5006	17.3	< 5.0	< 5	470	< 1	220000	**287000**	< 2	< 5	< 200	**17000**	< 5	100000	**12000**	< 0.2	30	1900	< 10	17000	< 5	< 2	**900000**	70000	**3400000**	85000	510	< 5	< 20
Nov-09	59.61	6.5	3805	14.3	< 5.0	< 5	**1100**	< 1	160000	247000	10	< 5	< 200	**7000**	< 5	68000	**15000**	< 0.2	83	< 200	110	15000	< 5	< 2	**1000000**	44000	**3020000**	110000	288	5	< 20
May-10	52.08	6.5	4228	13.9	24.3	< 5	700	< 1	140000	91000	< 5	< 5	460	**19000**	< 5	67000	**13000**	< 0.2	21	< 200	< 10	14000	< 5	< 2	**600000**	42000	**2620000**	67000	208	< 5	< 20
Nov-8-10	55.23	6.6	3407	14.3	< 5.0	< 5	**880**	< 1	120000	170000	8	< 5	< 500	**7100**	< 5	54000	**12000**	< 0.2	32	< 100	< 10	13000	< 5	< 2	**720000**	27000	na	45000	73	< 5	< 20
Nov-30-10	55.36	6.6	4091	14.8	< 5.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**2650000**	na	na	na	na
May-11	56.58	**6.4**	4264	16.5	< 5.0	< 5	**950**	< 1	110000	210000	7	< 5	< 1000	**5000**	< 5	49000	**10000**	< 0.2	40	< 100	< 10	12000	< 5	< 2	**660000**	33000	**3010000**	62000	71.7	< 5	< 20
Nov-11	57.90	6.6	4040	14.9	< 5.0	< 5	**870**	< 1	120000	190000	< 2	< 5	< 1000	**7200**	< 5	58000	**10000**	< 0.2	65	< 100	< 10	14000	< 5	< 2	**1100000**	23000	**2880000**	74000	1800	10	< 20
May-12	57.91	6.6	4770	15.0	< 5.0	< 5	610	< 1	170000	**253000S1**	4	< 5	< 200X	**15000**	< 5	86000	**9800**	< 0.2	37	120	< 50X	16000	5	< 2	**1100000**	35200	**3410000**	111000	362S7	< 10	< 20
Nov-12	58.17	6.8	4820	13.3	< 5.0	< 5	**1100**	< 1	140000	221000	**41**	9Z	< 500X	**11000**	< 5	73000	**11000**	< 0.2	66	< 100S1	< 50X	16000	< 5	< 2	**1300000**	28300	**3430000**	106000	116	7	< 20
May-13	56.21	6.7	497	13.5	5.4	< 5	**1000**	< 1	150000	222000	< 2	5	< 100	**13000**	< 5	71000	**11000**	< 0.2	48	< 100	< 50X	15000	< 5	< 2	**1000000**	29900	**3460000**	90000	92.5	< 5	< 20
Nov-13	53.47	6.6	2370	9.9	21.5	< 5	**770**	< 1	60000	123000	< 2	< 5	< 100	**1800**	< 5	24000	**5820**	< 0.2	11	< 100	< 10	8700	< 5	< 2	**440000**	17700	**1430000**	22400	84.5	< 5	< 20
May-14	52.68	6.5	3230	15.3	8.6	< 25X	**720**	< 5X	89000	140000	< 20X	< 50X	< 50X	**7700**	**37**	41000	**10100**	< 0.2	< 50X	< 100	< 10	8300	< 25X	< 2	**470000**	15300	**1580000**	34200	135	< 5	< 20
Nov-14	53.84	6.6	3790	16.8	< 5	< 5	390	< 1	130000	179000	< 2	< 5	< 500	**13000**	< 5	64000	**7990**	< 0.2	29	< 100	< 20	12000	< 5	< 2	**910000**	21000	**2380000**	45300	121	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
S7 - Sample breakthrough to 2nd section is > 10%. Results may be biased low.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.
Z - Copper was present in the batch blank at greater than half the MRL.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	24.15	**6.1**	41	16.7	3.7	< 5	10	< 1	1500	< 1000	< 5	< 2	< 100	< 50	< 2	1000	< 5	< 0.2	< 5	na	< 10	1100	< 5	< 2	1900	3800	44000	< 500	< 10	< 10	< 10
Nov-05	44.24	**5.8**	35	14.7	3.0	< 5	10	< 1	1800	< 1000	< 5	2	< 100	< 50	< 2	1200	< 5	< 0.2	< 5	na	< 10	1300	< 5	< 2	2000	5500	33000	< 500	< 10	< 10	< 10
May-06	44.78	**6.0**	46	15.4	6.3	< 5	10	< 1	1700	< 1000	< 20	< 2	< 100	< 50	< 2	1100	< 5	< 0.2	< 20	na	< 10	1300	< 5	< 2	1900	5300	37000	< 500	< 10	< 5	< 20
Nov-06	46.41	**5.9**	36	14.0	2.0	< 5	< 10	< 1	2000	< 1000	< 20	< 2	< 100	< 50	< 2	1200	< 5	< 0.2	< 20	na	< 10	1200	< 5	< 2	2200	5700	36000	< 500	< 10	< 5	< 50
May-07	46.78	**5.1**	29	15.8	< 1.0	< 5	10	< 1	1600	< 1000	< 2	< 2	< 100	< 100	< 5	980	< 5	< 0.2	< 5	na	< 10	1100	< 5	< 2	1900	2500	41000	< 500	< 10	< 5	< 10
Nov-07	47.37	**6.0**	28	14.5	2.1	< 5	10	< 1	1600	< 1000	2	< 5	< 100	< 50	< 5	1000	< 5	< 0.2	< 5	< 100	410	1100	< 5	< 2	1900	2500	32000	< 500	< 10	< 5	< 10
May-08	47.45	**6.3**	36	16.2	3.8	< 5	< 10	< 1	1500	< 1000	< 5	< 5	< 100	< 50	< 5	990	< 5	< 0.2	< 5	340	< 10	1200	< 5	< 2	1700	3300	44000	< 500	< 30	< 5	< 10
Nov-08	47.97	**6.1**	24	14.4	3.9	< 5	< 10	< 1	1800	< 1000	< 2	< 5	< 100	50	< 5	1000	< 5	< 0.2	< 5	500	< 10	1200	< 5	< 2	1800	6400	35000	< 500	< 30	< 5	40
May-09	47.57	**5.4**	33	14.2	< 5.0	< 5	< 10	< 1	2300	< 1000	< 2	< 5	< 100	< 50	< 5	1400	< 5	< 0.2	< 5	240	< 10	1500	< 5	< 2	1800	6600	< 25000	< 500	< 30	< 5	< 20
Nov-09	42.03	**5.9**	71	14.5	< 5.0	< 5	30	< 1	4300	1500	< 2	< 5	< 100	< 50	< 5	2700	< 5	< 0.2	< 5	1200	< 20	1800	< 5	< 2	3700	8200	57000	< 500	< 30	< 5	< 20
May-10	42.84	**5.8**	43	14.9	< 5.0	< 5	10	< 1	2200	1000	< 2	< 5	< 100	< 50	< 5	1500	< 5	< 0.2	< 5	780	< 10	1500	< 5	< 2	2600	3700	44000	< 500	< 30	< 5	< 20
Nov-10	46.28	**6.2**	35	13.9	< 5.0	< 5	10	< 1	1800	< 1000	< 2	< 5	< 100	< 50	< 5	1300	< 5	< 0.2	< 5	360	< 10	1400	< 5	< 2	2000	4100	32000	< 500	< 20	< 5	< 20
May-11	46.22	**5.9**	31	15.1	< 5.0	< 5	10	< 1	1500	< 1000	< 2	< 5	< 100	< 50	< 5	1000	< 5	< 0.2	< 5	400	< 10	1200	< 5	< 2	1900	2700	33000	< 500	< 30	< 5	< 20
Nov-11	47.87	**6.2**	35.5	13.9	< 5.0	< 5	10	< 1	2200	< 1000	< 2	< 5	< 100	< 50	< 5	1500	< 5	< 0.2	< 5	300	< 10	1500	< 5	< 2	1900	6400	57000	< 500	< 30	< 5	< 20
May-12	45.69	**6.0**	31	14.5	< 5.0	< 5	12	< 1	1600	< 1000	< 2	< 5	< 100	< 50	< 5	1000	< 5	< 0.2	< 5	420	< 10	1200	< 5	< 2	2000	2700	37000	< 1000	< 30	< 5	< 20
Nov-12	46.56	**6.0**	31.9	14.2	< 5.0	< 5	13	< 1	2300	< 1000	< 2	< 5	< 100	< 50	< 5	1500	< 5	< 0.2	< 5	330	< 10	1500	< 5	< 2	1900	5860	51000	< 1000	< 30	< 5	< 20
May-13	40.32	**6.0**	45.8	14.6	< 5.0	< 5	21	< 1	2500	1190	4Z	< 5	< 100	< 50	< 5	1600	< 5	< 0.2	< 5	680	< 10	1500	< 5	< 2	2500	4770	45000K	< 1000	< 30	< 5	< 20
Nov-13	44.35	**5.8**	34.2	14.8	< 5.0	< 5	13	< 1	1700	< 1000	15	< 5	< 100	120	< 5	1100	< 10	< 0.2	10	550	< 10	1200	< 5	< 2	2000	2340	50000	< 1000	< 30	< 5	< 20
May-14	43.68	**6.1**	35.5	15.6	< 5.0	< 5	16	< 1	1800	< 1000	< 2	< 5	< 100	< 50	< 5	1200	< 5	< 0.2	< 5	550	< 10	1200	< 5	< 2	2000	2920	52000	< 1000	< 30	< 5	< 20
Nov-14	46.28	**5.8**	27.5	17.2	< 5.0	< 5	13	< 1	1600	< 1000	< 2	< 5	< 100	< 50	< 5	1100	< 5	< 0.2	< 5	470	< 10	1100	< 5	< 2	2000	2230	< 25000	< 1000	< 30	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
K - The sample was analyzed beyond the accepted holding time.
Z - Detected in the method blank at 2 µg/L.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	71.95	6.6	2734	14.9	2.4	< 5	20	< 1	119000	69000	< 5	< 10	< 500	**45000**	< 2	47000	**7800**	< 0.2	< 5	na	< 10	13000	< 5	< 2	**444000**	**1240000**	**2110000**	2800	82	< 10	10
Nov-05	71.81	**6.4**	2655	17.8	4.7	< 5	< 10	< 1	110000	58000	< 5	< 2	< 100	**42000**	< 2	42000	**7400**	< 0.2	< 5	na	< 10	12000	< 5	< 2	**400000**	**889000**	**2040000**	2700	20.6	< 10	< 10
May-06	72.47	6.5	2589	16.3	4.7	< 5	20	< 1	100000	68000	< 20	3	< 1000	**39000**	< 2	39000	**6600**	< 0.2	< 20	na	< 10	12000	< 5	< 2	**360000**	**904000**	**1940000**	2400	20.3	< 5	< 20
Nov-06	73.14	6.6	2356	13.7	2.3	< 5	< 10	< 1	94000	65000	< 20	4	< 1000	**36000**	< 2	36000	**5400**	< 0.2	< 20	na	< 10	12000	< 5	< 2	**330000**	**1040000**	**1810000**	2400	14.5	< 5	< 50
May-07	73.69	**6.4**	2299	14.6	2.8	< 5	40	< 1	100000	53000	< 2	< 10	< 1000	**38000**	< 5	37000	**5900**	< 0.2	< 5	na	< 10	11000	< 5	< 2	**370000**	**982000**	**1780000**	3300	25.3	< 5	< 10
Nov-07	74.28	6.6	2027	15.2	4.2	< 5	30	< 1	100000	50000	< 2	< 5	< 1000	**38000**	< 5	37000	**6300**	< 0.2	< 5	< 100	< 10	10000	< 5	< 2	**350000**	**976000**	**1690000**	3500	24.4	< 5	< 10
May-08	74.96	6.6	2020	16.9	3.1	< 5	20	< 1	86000	47000	< 5	< 5	< 1000	**34000**	< 5	34000	**5600**	< 0.2	< 5	< 200	< 10	11000	< 10	< 2	**280000**	**778000**	**1470000**	2700	< 30	< 5	< 10
Nov-08	75.96	6.7	2754	12.9	8.0	< 5	20	< 1	91000	48000	< 2	< 5	< 1000	**33000**	< 5	34000	**5500**	< 0.2	< 5	< 200	< 10	11000	< 5	< 2	**256000**	**806000**	**1620000**	2600	< 30	< 5	< 20
May-09	76.74	**6.4**	4213	15.9	9.4	< 10	30	< 1	230000	94000	< 2	< 10	< 1000	**62000**	< 5	79000	**15000**	< 0.2	8	< 500	< 10	25000	< 5	< 2	**620000**	**1620000**	**3110000**	5700	< 30	< 5	< 20
Nov-09	77.02	6.6	2055	14.4	< 5.0	< 5	20	< 1	88000	45000	< 2	< 5	< 1000	**32000**	< 5	32000	**4900**	< 0.2	< 5	< 200	< 10	12000	< 5	< 2	**280000**	**745000**	**1460000**	4000	< 30	< 5	< 20
May-10	75.71	6.6	2568	14.3	< 5.0	< 5	20	< 1	95000	47000	< 5	< 5	< 1000	**33000**	< 5	34000	**5500**	< 0.2	< 5	< 200	< 10	13000	< 5	< 2	**310000**	**891000**	**1630000**	2800	62.1	< 5	< 20
Nov-9-10	74.74	6.6	1935	13.2	< 5.0	< 5	20	< 1	81000	38000	< 2	< 5	< 1000	**32000**	< 5	31000	**4520**	< 0.2	< 5	< 100	na	12000	< 5	< 2	**270000**	**943000**	**1400000**	2700	< 20	< 5	< 20
Nov-30-10	74.66	6.7	1881	15.0	< 5.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	na	na	na	na	na	na	na	na	na
May-11	75.96	6.6	1913	17.0	< 5.0	< 5	20	< 1	75000	41000	< 2	< 5	< 1000	**30000**	< 5	29000	**4300**	< 0.2	< 5	< 100	< 10	11000	< 5	< 2	**250000**	**817000**	**1360000**	2100	83.8	< 5	< 20
Nov-11	76.69	6.6	1708	14.3	< 5.0	< 5	20	< 1	75000	35000	< 2	< 5	< 1000	**28000**	< 5	28000	**4000**	< 0.2	< 5	< 100	< 10	11000	< 5	< 2	**270000**	**707000**	**1310000**	2300	602	< 5	< 20
May-12	77.41	**6.4**	3060	15.5	< 5.0	< 10X	30	< 2X	200000	69400S1	< 4X	< 10X	< 1000X	**50000**	< 10X	62000	**12000**	< 0.2	< 10X	< 100	< 100X	21000	< 10X	< 4X	**470000**	**1260000**	**1490000**	2430	< 30	5	< 20
Nov-12	77.31	6.7	1660	9.6	< 5.0	< 5	17	< 1	71000	32100	7	< 5	< 1000X	**26000**	< 5	27000	**3600**	< 0.2	< 5	< 100	< 10	11000	< 5	< 2	**240000**	**594000**	**1080000**	2400	< 30	6	< 20
May-13	76.91	6.6	1620	14.1	< 5.0	< 5	18	< 1	66000	30200	< 2	< 5	< 1000X	**25000**	< 5	25000	**3300**	< 0.2	< 5	< 100	< 10	10000	< 5	< 2	**220000**	**604000**	**1140000**	1870	< 30	< 5	< 20
Nov-13	75.32	6.7	1620	12.0	< 5.0	< 5	21	< 1	60000	27100	< 2	< 5	< 100	**24000**	< 5	23000	**3320**	< 0.2	< 5	< 100	< 10	8200	< 5	< 2	**210000**	**621000**	**1090000**	1700	< 30	< 5	< 20
May-14	75.71	6.5	1700	18.3	9.8	< 25X	31	< 5X	93000	43100	< 10X	< 25X	< 1000X	**37000**	< 25X	33000	**3700**	< 0.2	< 25X	< 100	< 10	9200	< 25X	< 2	**250000**	**598000**	**1250000**	1840	< 30	< 5	< 20
Nov-14	75.87	6.8	1270	13.7	< 5.0	< 5	20	< 1	59000	25600	< 2	< 5	< 100	**23000**	< 5	23000	**2950**	< 0.2	< 5	< 100	< 10	8200	< 5	< 2	**220000**	**513000**	**840000**	1600	43.2	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	45.33	**6.4**	94	15.4	7.7	< 5	< 10	< 1	3600	2900	< 5	< 2	< 100	**6200**	< 2	1700	15	< 0.2	< 5	na	< 10	2400	< 5	< 2	5900	17000	88000	< 500	< 10	< 10	< 10
Nov-05	45.11	**6.4**	93	15.0	2.2	< 5	< 10	< 1	3800	2500	< 5	< 2	< 100	**5700**	< 2	1900	20	< 0.2	< 5	na	< 10	2500	< 5	< 2	5600	16000	71000	< 500	< 10	< 10	< 10
May-06	44.73	**6.3**	97	15.5	3.3	< 5	< 10	< 1	3700	2100	< 20	< 2	< 100	**5900**	< 2	1800	17	< 0.2	< 20	na	< 10	2600	< 5	< 2	5400	16000	80000	< 500	< 10	< 5	< 20
Nov-06	45.48	6.6	93	14.4	1.2	< 5	< 10	< 1	3500	2400	< 20	< 2	< 100	**5400**	< 2	1500	10	< 0.2	< 20	na	< 10	2500	< 5	< 2	5000	16000	79000	< 500	< 10	< 5	< 50
May-07	45.52	**5.9**	70	15.1	1.7	< 5	< 10	< 1	3600	2100	< 2	< 2	130	**5400**	< 5	1700	18	< 0.2	< 5	na	< 10	2500	< 5	< 2	5300	15000	71000	< 500	14	< 5	< 10
Nov-07	46.29	**6.4**	84	14.9	1.6	< 5	< 10	< 1	4100	2000	< 2	< 5	< 100	**5200**	< 5	1900	18	< 0.2	< 5	< 100	< 10	2400	< 5	< 2	5000	15000	75000	< 500	< 10	< 5	< 10
May-08	45.70	6.6	86	15.3	3.1	< 5	< 10	< 1	3700	2500	< 5	< 5	130	**5500**	< 5	1800	19	< 0.2	< 5	< 200	< 10	2500	< 5	< 2	4600	14000	67000	< 500	< 30	< 5	< 10
Nov-08	46.35	**6.4**	83	14.2	7.5	< 5	< 10	< 1	3600	2300	< 2	< 5	160	**5600**	< 5	1800	17	< 0.2	< 5	< 200	< 10	2300	< 5	4	4700	15000	55000	< 500	< 30	< 5	< 20
May-09	45.40	**6.4**	89	14.5	< 5.0	< 5	< 10	< 1	3800	2700	< 2	< 5	< 100	**5400**	< 5	1800	18	< 0.2	< 5	< 200	< 10	2600	< 5	< 2	4600	15000	53000	< 500	< 30	< 5	< 20
Nov-09	43.62	**6.4**	91	14.5	< 5.0	< 5	< 10	< 1	4100	3000	< 2	< 5	110	**5500**	< 5	1900	18	< 0.2	< 5	< 200	< 20	2700	< 5	< 2	5000	14000	79000	< 500	< 30	< 5	< 20
May-10	44.35	**6.3**	98	14.8	< 5.0	< 5	< 10	< 1	4400	3500	< 2	< 5	< 100	**6300**	< 5	2100	21	< 0.2	< 5	< 200	< 10	2800	< 5	< 2	5600	16000	90000	< 500	< 30	< 5	< 20
Nov-10	44.88	6.6	103	14.4	< 5.0	< 5	< 10	< 1	4400	3500	< 2	< 5	130	**6400**	< 5	2100	19	< 0.2	< 5	< 100	< 10	2900	< 5	< 2	5600	16000	88000	< 500	< 20	< 5	< 20
May-11	44.47	**6.3**	96	15.1	< 5.0	< 5	< 10	< 1	4400	3200	< 2	< 5	< 100	**6300**	< 5	2100	21	< 0.2	< 5	< 100	< 10	2600	< 5	< 2	5700	15000	77000	< 500	< 30	< 5	< 20
Nov-11	45.30	6.5	91.1	14.4	< 5.0	< 5	< 10	< 1	3900	2800	< 2	< 5	< 100	**5800**	< 5	1900	18	< 0.2	< 5	< 100	< 10	2600	< 5	< 2	5400	16000	81000	< 500	62	< 5	< 20
May-12	44.42	**6.4**	90.2	14.9	< 5.0	< 5	< 10	< 1	4100	2710	< 2	< 5	< 100	**5500**	< 5	2000	19	< 0.2	< 5	< 100	< 10	2600	< 5	< 2	5200	15700	79000	< 1000	< 30	< 5	< 20
Nov-12	44.68	6.5	90.6	13.7	< 5.0	< 5	< 10	< 1	4100	2980	3	< 5	< 100	**6000**	< 5	2000	21	< 0.2	< 5	< 100	< 10	2600	< 5	< 2	5200	15200	73000	< 1000	< 30	< 5	< 20
May-13	41.89	6.5	153	15.0	< 5.0	< 5	10	< 1	7000	6130	3Z	< 5	< 100	**11000**	< 5	3100	31	< 0.2	< 5	< 100	< 10	3400	< 5	< 2	10000	28500	132000	< 1000	< 30	< 5	< 20
Nov-13	44.31	**6.4**	131	13.7	< 5.0	< 5	< 10	< 1	6100	5440	3	< 5	160	**9400**	< 5	3000	32	< 0.2	< 5	< 100	< 10	2900	< 5	< 2	8000	26300	114000	< 1000	< 30	< 5	< 20
May-14	43.57	**6.4**	163	16.3	< 5.0	< 5	< 10	< 1	7100	6760	< 2	< 5	120	**10000**	< 5	3200	32	< 0.2	< 5	< 100	< 10	2800	< 5	< 2	8800	29200	115000	< 1000	< 30	< 5	< 20
Nov-14	44.50	**6.3**	118	17.1	< 5.0	< 5	< 10	< 1	6000	5340	< 2	< 5	< 100	**9400**	< 5	2800	25	< 0.2	< 5	< 100	< 10	2800	< 5	< 2	9100	23500	72000	< 1000	< 30	6	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
Z - Detected in the method blank at 2 µg/L.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*2*	*Not Listed*	*250000*	*10*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250000*	*500000*	*Not Listed*	*Not Listed*	*30*	*1000*
May-05	9.94	6.7	2022	16.6	29	< 5	40	< 1	320000	85000	< 5	4	< 500	**14000**	< 2	30000	**590**	< 0.2	9	na	< 10	15000	< 5	< 2	**208000**	**1040000**	**2000000**	3700	140	< 10	< 10
Nov-05	10.07	6.6	2348	17.6	7.4	< 5	30	< 1	300000	75000	< 5	< 2	< 100	**25000**	< 2	27000	**720**	< 0.2	8	na	< 10	15000	< 5	< 2	**170000**	**919000**	**1920000**	3600	27.4	< 10	< 10
May-06	10.12	6.7	2364	15.2	31	< 5	30	< 1	300000	88000	< 20	3	< 1000	**17000**	< 2	27000	**440**	< 0.2	< 20	na	< 10	15000	< 5	< 2	**170000**	**1010000**	**1790000**	3000	85.8	< 5	< 20
Nov-06	10.25	6.7	2931	16.4	4.2	< 5	20	< 1	300000	82000	< 20	4	< 1000	**11000**	< 2	28000	**700**	< 0.2	< 20	na	< 10	16000	< 5	< 2	**170000**	**1110000**	**1820000**	6900	33.8	< 5	< 50
May-07	10.39	**6.4**	2222	13.8	32	< 5	50	< 1	330000	74000	< 2	3	< 1000	**9000**	< 5	28000	**300**	< 0.2	8	na	< 10	15000	< 5	< 2	**180000**	**968000**	**1810000**	2800	71	< 5	< 10
Nov-07	10.65	6.8	1724	17.0	9.2	< 5	40	< 1	320000	68000	< 2	< 5	< 200	**18000**	< 5	26000	**760**	< 0.2	6	< 100	< 10	14000	< 5	< 2	**160000**	**918000**	**1920000**	2700	43.6	< 5	< 10
May-08	10.58	7.1	2064	16.4	12	< 5	30	< 1	290000	74000	< 5	< 5	< 1000	**6000**	< 5	27000	**270**	< 0.2	6	< 200	< 10	16000	< 5	< 2	**150000**	**897000**	**1930000**	3000	181	< 5	< 10
Nov-08	10.76	6.7	2131	14.2	4.2	< 5	40	< 1	311000	65000	< 2	< 5	< 1000	**21000**	< 5	27000	**840**	< 0.2	12	< 200	< 10	15000	< 5	< 2	**139000**	**1040000**	**1820000**	3300	159	< 5	< 20
May-09	10.29	7.1	2263	15.0	< 5.0	< 5	30	< 1	300000	75000	< 2	< 5	< 1000	**490**	< 5	27000	**250**	< 0.2	8	< 200	< 10	19000	< 5	< 2	**170000**	**898000**	**1800000**	2500	66.9	< 5	< 20
Nov-09	10.20	6.7	2245	14.7	5.9	< 5	40	< 1	310000	80000	< 2	< 5	< 1000	**23000**	< 5	27000	**780**	< 0.2	7	< 200	< 10	19000	< 5	< 2	**170000**	**857000**	**1800000**	3600	< 30	< 5	< 20
May-10	9.96	6.9	1721	13.3	< 5.0	< 5	30	< 1	290000	67000	< 2	< 5	< 1000	**430**	< 5	27000	**112**	< 0.2	8	< 200	< 10	19000	< 5	< 2	**160000**	**683000**	**1800000**	2300	78.8	< 5	< 20
Nov-9-10	10.35	6.7	2124	15.6	< 5.0	< 5	40	< 1	290000	71000	< 2	< 5	< 1000	**18000**	< 5	27000	**740**	< 0.2	8	< 100	< 10	18000	< 5	< 2	**150000**	**846000**	**1780000**	3000	na	< 5	< 20
Dec-7-10	10.39	6.7	2236	11.7	8.7	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	268	na	na
May-11	10.41	6.8	2149	15.4	< 5.0	< 5	30	< 1	280000	76000	< 2	< 5	< 1000	100	< 5	26000	35	< 0.2	8	< 100	< 10	18000	< 5	< 2	**160000**	**938000**	**1760000**	2500	68.2	< 5	< 20
Nov-11	10.51	6.6	2191	14.9	< 5.0	< 5	40	< 1	330000	73000	< 2	< 5	< 1000	**14000**	< 5	28000	**690**	< 0.2	8	< 100	< 10	19000	< 5	< 2	**190000**	**880000**	**1820000**	2800	728	< 5	< 20
May-12	10.12	6.9	2080	13.8	< 5.0	< 5	34	< 1	300000	72000	< 2	< 5	< 1000X	**660**	< 5	27000	38	< 0.2	7	< 100	< 10	19000	< 5	< 2	**170000**	**980000**	**1550000**	2200	< 30	< 5	< 20
Nov-12	10.35	6.8	2130	14.3	< 5.0	< 10X	41	< 1	310000	70500	8	< 5Z	< 1000X	**11000**	< 5	28000	**560**	< 0.2	< 5	< 100	< 10	19000	< 5	< 2	**170000**	**790000**	**1790000**	2650	58.9	< 5	< 20
May-13	9.50	7.0	2300	13.0	< 5.0	< 5	39	< 1	300000	74600	< 2	< 5	< 1000X	**17000**	< 5	30000	**770**	< 0.2	9	< 100	< 10	17000	< 5	< 2	**220000**	**906000**	**2810000P**	3740	33.9	< 5	< 20
Nov-13	10.12	6.8	2430	17.0	< 5.0	< 5	40	< 1	300000	69500	< 2	< 5	< 1000X	**8300**	< 5	29000	**977**	< 4X	< 5	< 100	< 10	16000	< 5	< 2	**210000**	**939000**	**1920000**	3400	161	< 5	< 20
May-14	9.95	7.0	2000	15.5	< 5.0	< 5	29	< 5X	280000	63100	< 10X	< 25X	< 1000X	**5300**	< 25X	26000	**174**	< 0.2	< 25X	< 100	< 10	15000	< 5	< 2	**180000**	**853000**	**1740000**	2500	893	< 5	< 20
Nov-14	10.20	6.9	1890	18.0	5.6	< 5	39	< 1	310000	64900	< 2	< 5	< 100	**7800**	< 5	28000	**530**	< 0.2	< 5	< 100	< 50	16000	< 5	< 2	**200000**	**984000**	**1720000**	2590	58.2	< 5	< 20

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
P - The RPD between the sample / duplicate or matrix spike / spike duplicate was not within control limits.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.
Z - Copper was present in the batch blank at greater than half the MRL.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water Feet	pH Units (Field)	Spec. Cond. at 25C umhos/cm (Field)	Temp. °C (Field)*	Turbidity NTU (Field)	Arsenic*	Barium*	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese*	Mercury	Nickel	Nitrate-Nitrite as N*	Nitrite as N*	Potassium	Selenium	Silver	Sodium	Sulfate*	Total Dissolved Solids*	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols*	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2B Std	*N/A*	*6.0-9.0*	*Not Listed*	*29*	*50*	*10*	*200,000*	*2*	*Not Listed*	*230,000 (AL)*	*50*	*7 (AL)*	*1,800*	*1,000 (AL)*	*25*	*Not Listed*	*200*	*0.012*	*88*	*10,000*	*2.7*	*Not Listed*	*5*	*0.06 (AL)*	*Not Listed*	*250,000*	*500,000*	*Not Listed*	*Not Listed*	*300*	*50 (AL)*
May-05	na	7.1	82	20.5	12	< 5	20	< 1	4200	3900	< 5	< 2	< 100	560	< 2	1600	53	< 0.2	< 5	na	< 10	2100	< 5	< 2	6200	6900	66000	1900	< 10	42	10
Nov-05	na	7.1	88	12.7	7.4	< 5	30	< 1	4600	5100	< 5	< 2	< 100	330	< 2	1900	60	< 0.2	< 5	na	< 10	2300	< 5	< 2	7600	6800	68000	1400	< 10	< 10	< 10
May-06	na	6.7	87	16.6	5.9	< 5	30	< 1	3800	3400	< 20	< 2	< 100	480	< 2	1600	60	< 0.2	< 20	na	< 10	1900	< 5	< 2	6000	6200	40000	1100	< 10	< 5	< 20
Nov-06	na	7.5	94	11.0	na	< 5	40	< 1	5200	5200	< 20	< 2	< 100	990	< 2	2100	90	< 0.2	< 20	na	< 10	2400	< 5	< 2	7500	7300	76000	1500	< 10	< 5	< 50
May-07	na	7.5	80	18.6	8.0	< 5	20	< 1	4500	4000	< 2	< 2	< 100	500	< 5	1800	55	< 0.2	< 5	na	< 10	2100	< 5	< 2	8000	7000	72000	1300	< 10	< 5	< 10
Nov-07	na	7.6	103	13.5	4.2	< 5	20	< 1	6100	5700	< 2	< 5	< 100	270	< 5	2200	43	< 0.2	< 5	570	**10**	2700	< 5	< 2	9900	9100	77000	1100	< 10	< 5	< 10
May-08	na	7.5	106	18.0	7.4	< 5	30	< 1	5900	5100	< 5	< 5	< 100	720	< 5	2200	62	< 0.2	< 5	650	**20**	3500	< 5	< 2	9700	9100	88000	1900	< 30	< 5	< 10
Nov-08	na	7.5	113	10.3	2.9	< 5	30	< 1	6300	7000	< 2	< 5	< 100	140	< 5	2400	24	< 0.2	< 5	350	< 10	3000	< 5	< 2	10000	11000	194000	1400	< 30	< 5	< 20
May-09	na	7.5	88	14.5	16	< 5	30	< 1	5000	4300	< 2	< 5	< 100	710	< 5	1900	68	< 0.2	< 5	510	< 10	2900	< 5	< 2	6600	8700	52000	2200	< 30	< 5	< 20
Nov-09	na	7.4	85	13.7	6.6	< 5	30	< 1	4900	4700	< 2	< 5	< 100	440	< 5	1900	59	< 0.2	< 5	660	< 10	2800	< 5	< 2	6900	7700	59000	1700	< 30	< 10	< 20
May-10	na	7.5	76	15.0	19	< 5	30	< 1	4000	3400	< 2	< 5	< 100	770	< 5	1700	60	< 0.2	< 5	450	< 10	2300	< 5	< 2	6500	6300	65000	1500	< 30	< 5	< 20
Nov-10	na	7.7	96	11.1	5.7	< 5	30	< 1	5400	5400	< 2	< 5	< 100	570	< 5	2200	60	< 0.2	< 5	490	< 10	2600	< 5	< 2	9100	7500	< 25000	1100	< 20	< 5	< 20
May-11	na	7.6	93	20.6	17	< 5	30	< 1	4900	5100	< 2	< 5	< 100	930	< 5	2000	63	< 0.2	< 5	520	**13**	2800	< 5	< 2	7600	6600	75000	2000	< 30	< 5	< 20
Nov-11	na	7.3	106	12.5	< 5.0	< 5	30	< 1	6200	6400	2	< 5	< 100	240	< 5	2200	31	< 0.2	< 5	570	< 10	2900	< 5	< 2	11000	7900	78000	1400	< 30	5	< 20
May-12	na	7.8	142	19.3	13.7	< 5	29	< 1	4900	4580	< 2	< 5	100	730	< 5	1900	52	< 0.2	< 5	490	< 10	2400	< 5	< 2	7100	6510	62000	1720	< 30	< 5	< 20
Nov-12	na	7.6	96.4	13.8	< 5.0	< 5	27	< 1	5400	6460	< 2	< 5	< 100	270	< 5	2100	26	< 0.2	< 5	500	< 10	2400	< 5	< 2	8000	6630	80000	1140	81	< 5	< 20
May-13	na	7.6	72.3	16.6	20.9	< 5	31	< 1	4000	3150	6	< 5	< 100	780	< 5	1700	60	< 0.2	< 5	500	< 10	1900	< 5	< 2	5600	7070	51000	1490	< 30	< 5S1	< 20
Nov-13	na	7.5	99.9	13.8	5.3	< 5	31	< 1	5400	5840	< 2	< 5	< 100	570	< 5	2200	44	< 0.2	< 5	590	< 10	2500	< 5	< 2	7700	5550	75000	1470	< 30	< 5	< 20
May-14	na	7.3	105	23.3	24.9	< 5	36	< 1	4300	4270	< 2	< 5	< 100	**1300**	< 5	1900	64	< 0.2	< 5	590	**11**	2800	< 5	< 2	6200	5840	67000	2660	< 30	< 5	< 20
Nov-14	na	6.1	102	13.5	< 5	< 5	29	< 1	5700	6210	< 2	< 5	< 100	300	< 5	2200	28	< 0.2	< 5	520	< 10	2300	< 5	< 2	8400	5990	71000	1200	< 30	< 5	< 20

Shaded values exceed the NCDENR 2B Standards for Class C Freshwater, 5/15/2013.
na - not analyzed
* Temperature not to exceed 2.8 °C above natural water temperature.
* Arsenic level is the most stringent of Freshwater Aquatic Life (50 ug/L) and Human Health (10 ug/L).
* Barium level is for Human Health; not established for Freshwater Aquatic Life.
* Manganese level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Nitrate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
Nitrate value is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
* Nitrite level is for Human Health; not established for Freshwater Aquatic Life.
* Sulfate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total Dissolved Solids level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total phenolic compounds is a numeric translator for the "no fish flesh tainting" standard.
AL = Action Level
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water Feet	pH Units (Field)	Spec. Cond. at 25C umhos/cm (Field)	Temp. °C (Field)*	Turbidity NTU (Field)	Arsenic*	Barium*	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese*	Mercury	Nickel	Nitrate-Nitrite as N*	Nitrite as N*	Potassium	Selenium	Silver	Sodium	Sulfate*	Total Dissolved Solids*	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols*	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2B Std	*N/A*	*6.0-9.0*	*Not Listed*	*29*	*50*	*10*	*200,000*	*2*	*Not Listed*	*230,000 (AL)*	*50*	*7 (AL)*	*1,800*	*1,000 (AL)*	*25*	*Not Listed*	*200*	*0.012*	*88*	*10,000*	*2.7*	*Not Listed*	*5*	*0.06 (AL)*	*Not Listed*	*250,000*	*500,000*	*Not Listed*	*Not Listed*	*300*	*50 (AL)*
May-05	na	7.3	97	21.2	na	< 5	20	< 1	4300	4300	< 5	< 2	< 100	560	< 2	1600	60	< 0.2	< 5	na	< 10	2200	< 5	< 2	8300	9400	77000	1900	< 10	< 10	< 10
Nov-05	na	7.3	100	13.5	7.9	< 5	30	< 1	4800	5300	< 5	< 2	< 100	320	< 2	2000	50	< 0.2	< 5	na	< 10	2300	< 5	< 2	10000	9600	74000	1300	< 10	< 10	< 10
May-06	na	7.0	100	16.9	17	< 5	30	< 1	4000	4800	< 20	< 2	< 100	500	< 2	1700	60	< 0.2	< 20	na	< 10	2000	< 5	< 2	8200	7500	52000	1200	< 10	< 5	< 20
Nov-06	na	7.7	119	11.2	na	< 5	30	< 1	5400	5400	< 20	< 2	< 100	630	< 2	2100	70	< 0.2	< 20	na	< 10	2600	< 5	< 2	10000	11000	74000	1500	< 10	< 5	< 50
May-07	na	7.5	92	19.4	4.8	< 5	30	< 1	4600	4200	< 2	< 2	< 100	570	< 5	1800	60	< 0.2	< 5	na	< 10	2100	< 5	< 2	11000	9900	78000	1200	< 10	< 5	< 10
Nov-07	na	7.8	120	12.5	4.0	< 5	20	< 1	6300	6300	< 2	< 5	< 100	330	< 5	2300	46	< 0.2	< 5	510	< 10	2700	< 5	< 2	14000	14000	89000	1500	< 10	< 5	< 10
May-08	na	7.6	129	18.1	6.4	< 5	30	< 1	6400	5700	< 5	< 5	< 100	770	< 5	2300	72	< 0.2	< 5	730	**20**	3700	< 5	< 2	15000	14000	109000	1800	< 30	< 5	40
Nov-08	na	7.6	136	10.1	2.0	< 5	20	< 1	6700	7500	< 2	< 5	< 100	150	< 5	2700	31	< 0.2	< 5	290	< 10	3100	< 5	< 2	15000	17000	92000	1400	< 30	< 5	< 20
May-09	na	7.7	101	14.4	16	< 5	30	< 1	4900	4400	< 2	< 5	< 100	690	< 5	1900	69	< 0.2	< 5	560	< 10	2800	< 5	< 2	8700	11000	47000	2000	< 30	< 5	< 20
Nov-09	na	7.6	100	14.6	8.3	< 5	30	< 1	5300	4900	< 2	< 5	< 100	530	< 5	2000	65	< 0.2	< 5	690	< 10	2900	< 5	< 2	9900	11000	66000	1600	< 30	< 5	< 20
May-10	na	7.3	85	15.4	18	< 5	30	< 1	4100	3600	< 2	< 5	< 100	800	< 5	1800	64	< 0.2	< 5	500	< 10	2200	< 5	< 2	8400	8300	69000	1400	< 30	< 5	< 20
Nov-10	na	7.9	113	11.7	< 5.0	< 5	30	< 1	5500	5800	< 2	< 5	< 100	300	< 5	2300	37	< 0.2	< 5	580	< 10	2700	< 5	< 2	13000	11000	< 25000	1200	< 20	< 5	< 20
May-11	na	7.6	108	20.5	17.0	< 5	30	< 1	5000	5500	< 2	< 5	< 100	1000	< 5	2100	77	< 0.2	< 5	520	**13**	2900	< 5	< 2	10000	9700	81000	2000	< 30	< 5	< 20
Nov-11	na	7.4	122	12.2	< 5.0	< 5	30	< 1	6300	6600	2	< 5	< 100	280	< 5	2400	30	< 0.2	< 5	480	< 10	2900	< 5	< 2	14000	11000	92000	1300	< 30	< 5	< 20
May-12	na	7.6	128	19.0	13.5	< 5	30	< 1	4900	4590	< 2	< 5	< 100	760	< 5	2000	57	< 0.2	< 5	480	< 10	2500	< 5	< 2	9500	8850	83000	1970	< 30	< 5	40
Nov-12	na	7.5	110	13.6	< 5.0	< 5	28	< 1	5600	6800	< 2	< 5	< 100	330	< 5	2200	30	< 0.2	< 5	460	< 10	2500	< 5	< 2	10000	9670	83000	1160	< 30	< 5	< 20
May-13	na	7.8	74.8	16.7	19.2	< 5	30	< 1	3900	3240	5	< 5	< 100	770	< 5	1700	60	< 0.2	< 5	450	< 10	1800	< 5	< 2	6500	7740	52000	1180	< 30	< 5	< 20
Nov-13	na	7.5	124	12.9	< 5.0	< 5	30	< 1	5400	5890	< 2	< 5	< 100	490	< 5	2200	37	< 0.2	< 5	590	< 10	2500	< 5	< 2	10000	7680	83000	1340	< 30	< 5	< 20
May-14	na	7.6	125	23.2	21.9	< 5	39	< 1	4700	4550	< 2	< 5	< 100	**1600**	< 5	2100	68	< 0.2	< 5	600	**14**	3000	< 5	< 2	7700	7580	69000	2490	< 30	< 5	21
Nov-14		6.4	108	13.9	< 5.0	< 5	29	< 1	5800	6380	< 2	< 5	< 100	320	< 5	2300	27	< 0.2	< 5	500	< 10	2300	< 5	< 2	11000	8180	63000	1200	32.3	< 5	< 20

Shaded values exceed the NCDENR 2B Standards for Class C Freshwater, 5/15/2013.
na - not analyzed
* Temperature not to exceed 2.8 °C above natural water temperature.
* Arsenic level is the most stringent of Freshwater Aquatic Life (50 ug/L) and Human Health (10 ug/L).
* Barium level is for Human Health; not established for Freshwater Aquatic Life.
* Manganese level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Nitrate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
Nitrate value is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
* Nitrite level is for Human Health; not established for Freshwater Aquatic Life.
* Sulfate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total Dissolved Solids level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total phenolic compounds is a numeric translator for the "no fish flesh tainting" standard.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water Feet	pH Units (Field)	Spec. Cond. at 25C umhos/cm (Field)	Temp. °C (Field)*	Turbidity NTU (Field)	Arsenic*	Barium*	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese*	Mercury	Nickel	Nitrate-Nitrite as N*	Nitrite as N*	Potassium	Selenium	Silver	Sodium	Sulfate*	Total Dissolved Solids*	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols*	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2B Std	*N/A*	*6.0-9.0*	*Not Listed*	*29*	*50*	*10*	*200,000*	*2*	*Not Listed*	*230,000 (AL)*	*50*	*7 (AL)*	*1,800*	*1,000 (AL)*	*25*	*Not Listed*	*200*	*0.012*	*88*	*10,000*	*2.7*	*Not Listed*	*5*	*0.06 (AL)*	*Not Listed*	*250,000*	*500,000*	*Not Listed*	*Not Listed*	*300*	*50 (AL)*
May-05	na	7.9	64	21.0	7.9	< 5	20	< 1	3200	2100	< 5	< 2	< 100	680	< 2	1400	49	< 0.2	< 5	na	< 10	2300	< 5	< 2	3200	3400	56000	2200	< 10	13	< 10
Nov-05	na	6.6	63	15.8	8.6	< 5	30	< 1	3800	3100	< 5	< 2	< 100	740	< 2	1600	70	< 0.2	< 5	na	< 10	2200	< 5	< 2	3800	3100	54000	1400	< 10	< 10	< 10
May-06	na	6.8	74	15.3	17	< 5	30	< 1	3500	2400	< 20	< 2	< 100	430	< 2	1500	40	< 0.2	< 20	na	< 10	2000	< 5	< 2	3400	3700	32000	1300	< 10	< 5	< 20
Nov-06	na	7.1	68	12.2	na	< 5	20	< 1	4000	3300	< 20	< 2	< 100	280	< 2	1600	30	< 0.2	< 20	na	< 10	2300	< 5	< 2	3600	3300	63000	1200	< 10	< 5	< 50
May-07	na	7.3	63	15.0	4.5	< 5	50	< 1	4200	2400	< 2	3	< 100	2200	< 5	1700	190	< 0.2	< 5	na	< 10	2000	< 5	< 2	3800	3300	57000	1100	< 10	< 5	20
Nov-07	na	7.4	82	12.6	5.1	< 5	30	< 1	5300	4200	< 2	< 5	< 100	330	< 5	1900	42	< 0.2	< 5	670	**25**	3400	< 5	< 2	4100	3300	64000	2300	< 10	< 5	< 10
May-08	na	7.1	68	19.6	7.2	< 5	30	< 1	4700	3100	< 5	< 5	< 100	770	< 5	1800	61	< 0.2	< 5	530	**10**	3000	< 5	< 2	4200	3100	69000	1600	< 30	< 5	< 10
Nov-08	na	7.5	75	8.0	4.3	< 5	20	< 1	4700	3300	< 2	< 5	120	150	< 5	1800	12	< 0.2	< 5	340	< 10	2700	< 5	< 2	3800	3200	49000	2000	< 30	< 5	< 20
May-09	na	7.9	71	14.2	12	< 5	20	< 1	4300	3200	< 2	< 5	< 100	480	< 5	1700	54	< 0.2	< 5	550	< 10	2300	< 5	< 2	3500	5200	65000	1700	< 30	< 5	< 20
Nov-09	na	6.6	64	14.2	6.5	< 5	30	< 1	4300	3600	< 2	< 5	< 100	440	< 5	1700	48	< 0.2	< 5	740	< 10	2700	< 5	< 2	4000	5200	45000	1600	< 30	< 5	< 20
May-10	na	7.5	60	15.3	33	< 5	30	< 1	3500	2100	< 2	< 5	< 100	850	< 5	1600	58	< 0.2	< 5	430	< 10	1900	< 5	< 2	3300	3600	55000	1700	< 30	< 5	< 20
Nov-10	na	7.9	66	11.6	< 5.0	< 5	20	< 1	4200	2900	< 2	< 5	< 100	290	< 5	1700	24	< 0.2	< 5	450	< 10	2400	< 5	< 2	5000	3200	50000	1300	< 20	< 5	< 20
May-11	na	7.4	73	20.7	45	< 5	40	< 1	4300	3000	< 2	< 5	< 100	1600	< 5	1900	110	< 0.2	< 5	420	**16**	4400	< 5	< 2	4000	3600	61000	3500	< 30	< 5	< 20
Nov-11	na	7.2	81	15.9	< 5.0	< 5	20	< 1	4600	3300	3	< 5	< 100	250	< 5	1700	36	< 0.2	< 5	490	< 10	2800	< 5	< 2	4800	3500	57000	1400	< 30	< 5	< 20
May-12	na	7.2	80.2	22.4	15	< 5	29	< 1	4000	2420	< 2	< 5	< 100	**1000**	< 5	1600	69	< 0.2	< 5	410	< 10	2600	< 5	< 2	3500	3390	62000	1960	< 30	< 5	< 20
Nov-12	na	7.1	66.7	14.2	6.9	< 5	27	< 1	4300	3260	< 2	< 5	< 100	430	< 5	1700	30	< 0.2	< 5	510	< 10	2300	< 5	< 2	3700	3280	61000	1480	< 30	< 5	< 20
May-13	na	7.8	55.2	14.9	19.8	< 5	31	< 1	3400	2120	5	< 5	< 100	920	< 5	1600	56	< 0.2	< 5	440	< 10	1700	< 5	< 2	3000	4660	42000	1140	< 30	< 5	< 20
Nov-13	na	7.2	68.9	13.2	10.2	< 5	30	< 1	4300	3340S1	< 2	< 5	< 100S1	750	< 5	1800	36	< 0.2	< 5	500	< 10	2600	< 5	< 2	3800	3020S1	66000	1850	< 30	< 5	< 20
May-14	na	7.3	70.7	23.6	25.2	< 5	34	< 1	3600	2530	< 2	< 5	< 100	**1200**	< 5	1600	61	< 0.2	< 5	500	< 10	3300	< 5	< 2	3300	3610	50000	3800	< 30	< 5	< 20
Nov-14	na	6.4	89.4	14.2	< 5	< 5	28	< 1	4600	3270	< 2	< 5	< 100	350	< 5	1800	21	< 0.2	< 5	470	< 10	2200	< 5	< 2	3900	3010	39000	1230	< 30	< 5	< 20

Shaded values exceed the NCDENR 2B Standards for Class C Freshwater, 5/15/2013.
na - not analyzed
* Temperature not to exceed 2.8 °C above natural water temperature.
* Arsenic level is the most stringent of Freshwater Aquatic Life (50 ug/L) and Human Health (10 ug/L).
* Barium level is for Human Health; not established for Freshwater Aquatic Life.
* Manganese level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Nitrate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
Nitrate value is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
* Nitrite level is for Human Health; not established for Freshwater Aquatic Life.
* Sulfate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total Dissolved Solids level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total phenolic compounds is a numeric translator for the "no fish flesh tainting" standard.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water Feet	pH Units (Field)	Spec. Cond. at 25C umhos/cm (Field)	Temp. °C (Field)*	Turbidity NTU (Field)	Arsenic*	Barium*	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese*	Mercury	Nickel	Nitrate-Nitrite as N*	Nitrite as N*	Potassium	Selenium	Silver	Sodium	Sulfate*	Total Dissolved Solids*	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols*	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2B Std	*N/A*	*6.0-9.0*	*Not Listed*	*29*	*50*	*10*	*200,000*	*2*	*Not Listed*	*230,000 (AL)*	*50*	*7 (AL)*	*1,800*	*1,000 (AL)*	*25*	*Not Listed*	*200*	*0.012*	*88*	*10,000*	*2.7*	*Not Listed*	*5*	*0.06 (AL)*	*Not Listed*	*250,000*	*500,000*	*Not Listed*	*Not Listed*	*300*	*50 (AL)*
May-05	na	7.5	97	21.0	12	< 5	20	< 1	3700	3700	< 5	< 2	< 100	480	< 2	1600	60	< 0.2	< 5	na	< 10	2300	< 5	< 2	3900	4100	64000	1900	< 10	< 10	< 10
Nov-05	na	6.6	73	13.7	10	< 5	30	< 1	4600	4800	< 5	< 2	< 100	610	< 2	1900	90	< 0.2	< 5	na	< 10	2200	< 5	< 2	4800	3700	61000	1300	< 10	< 10	< 10
May-06	na	6.7	78	16.1	5.7	< 5	30	< 1	3900	3100	< 20	< 2	< 100	460	< 2	1700	60	< 0.2	< 20	na	< 10	1900	< 5	< 2	4100	3900	39000	1100	< 10	< 5	< 20
Nov-06	na	7.4	7.6	11.1	na	< 5	30	< 1	5000	4700	< 20	< 2	< 100	580	< 2	2000	70	< 0.2	< 20	na	< 10	2300	< 5	< 2	4900	4000	56000	1100	< 10	< 5	< 50
May-07	na	7.3	65	15.9	7.8	< 5	20	< 1	4300	3600	< 2	< 2	< 10	480	< 5	1700	56	< 0.2	< 5	na	< 10	1900	< 5	< 2	5000	3900	61000	1200	< 10	< 5	< 10
Nov-07	na	7.4	86	12.6	2.9	< 5	30	< 1	6400	5400	< 2	< 5	< 100	690	< 5	2200	68	< 0.2	< 5	710	**20**	2900	< 5	< 2	6200	4600	71000	1300	< 10	< 5	< 10
May-08	na	7.2	120	18.7	**178**	< 5	100	< 1	12000	9000	5	< 5	< 100	6800	< 5	3800	**202**	< 0.2	< 5	580	**10**	6100	< 5	< 2	9000	8100	110000	1700	< 30	< 5	50
Nov-08	na	7.4	88	8.4	5.4	< 5	30	< 1	6300	6400	< 2	< 5	< 100	1100	< 5	2400	95	< 0.2	< 5	360	< 10	2900	< 5	8	6300	4800	67000	1600	< 30	< 5	< 20
May-09	na	7.4	74	14.5	19	< 5	30	< 1	4800	4100	< 2	< 5	< 100	580	< 5	1900	66	< 0.2	< 5	540	< 10	2700	< 5	< 2	4500	5600	74000	2200	36.7	< 5	< 20
Nov-09	na	7.2	74	14.3	6.6	< 5	30	< 1	4700	4500	< 2	< 5	< 100	410	< 5	1900	61	< 0.2	< 5	730	< 10	2800	< 5	< 2	4800	5600	54000	1600	< 30	< 5	< 20
May-10	na	7.3	62	15.2	26	< 5	30	< 1	4000	3100	< 2	< 5	< 1000	870	< 5	1700	68	< 0.2	< 5	430	< 10	1900	< 5	< 2	4100	3800	62000	1300	< 30	< 5	< 20
Nov-10	na	7.6	85	11.2	< 5.0	< 5	30	< 1	5400	5300	< 2	< 5	< 100	330	< 5	2100	44	< 0.2	< 5	460	< 10	2700	< 5	< 2	6400	4100	58000	1700	< 20	< 5	< 20
May-11	na	7.4	86	20.6	24	< 5	40	< 1	4900	4900	< 2	< 5	< 100	1100	< 5	2000	89	< 0.2	< 5	470	21	3000	< 5	< 2	5100	4000	70000	3200	< 30	< 5	< 20
Nov-11	na	7.2	90	13.5	< 5.0	< 5	30	< 1	5800	5900	2	< 5	< 100	320	< 5	2200	46	< 0.2	< 5	580	< 10	2900	< 5	< 2	6900	4400	79000	1700	< 30	< 5	< 20
May-12	na	7.6	78	20.2	17.6	< 5	31	< 1	5000	4380	< 2	< 5	< 100	900	< 5	1900	66	< 0.2	< 5	450	12	2600	< 5	< 2	3700	4020	68000	2610	< 30	8	< 20
Nov-12	na	7.3	82.1	14.2	< 5.0	< 5	29	< 1	5200	5830	< 2	< 5	< 100	400	< 5	2000	42	< 0.2	< 5	540	< 10	2300	< 5	< 2	5300	4000	71000	1190	< 30	< 5	< 20
May-13	na	7.4	62.2	16.6	21.1	< 5	30	< 1	3700	2870	5	< 5	< 100	770	< 5	1600	59	< 0.2	< 5	450	< 10	1700	< 5	< 2	3600	4810	51000	1140	< 30	< 5	< 20
Nov-13	na	7.4	83	13.7	8.5	< 5	34	< 1	5300	5610	< 2	< 5	< 100	880	< 5	2100	55	< 0.2	< 5	580	< 10	2600	< 5	< 2	5400	3540	70000	1960	< 30	< 5	< 20
May-14	na	7.1	332	25.4	20.2	< 5	39	< 1	4300	3920	< 2	< 5	< 100	**1700**	< 5	1900	72	< 0.2	< 5	560	< 10	2900	< 5	< 2	4100	3930	54000	2970	< 30	10	< 20
Nov-14	na	6.1	86.8	14.4	< 5	< 5	31	< 1	5500	5580	< 2	< 5	< 100	380	< 5	2100	38	< 0.2	< 5	510	< 10	2200	< 5	< 2	5600	3530	45000	1250	< 30	< 5	< 20

Shaded values exceed the NCDENR 2B Standards for Class C Freshwater, 5/15/2013.
na - not analyzed
* Temperature not to exceed 2.8 °C above natural water temperature.
* Arsenic level is the most stringent of Freshwater Aquatic Life (50 ug/L) and Human Health (10 ug/L).
* Barium level is for Human Health; not established for Freshwater Aquatic Life.
* Manganese level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Nitrate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
Nitrate value is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
* Nitrite level is for Human Health; not established for Freshwater Aquatic Life.
* Sulfate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total Dissolved Solids level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total phenolic compounds is a numeric translator for the "no fish flesh tainting" standard.

Landfill Leachate

Collection Date	Field Parameters					Analytical Parameters (µg/L)																												
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	BOD, 5 Day	Cadmium	Calcium	Chloride	Chromium	COD	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Total Phosphorus	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
May-05	na	7.8	21660	25.3	28	2100	40	272000	< 10	43000	184000	< 20	659000	< 20	< 10000	120	< 10	150000	170	< 0.4	40	na	20	na	400000	< 50	< 10	5560000	503000	16500000	90000	640	46	< 50
Nov-05	na	7.9	23910	24.5	32	26	50	164000	< 10	29000	334000	< 50	487000	< 20	< 10000	60	< 50	150000	130	< 0.4	< 40	na	20	na	440000	< 50	< 10	6700000	910000	17100000	118000	493	< 10	< 50
May-06	na	8.2	1124	21.2	12	1500	40	106000	< 10	45000	179000	< 100	274000	< 20	1000	< 500	< 50	120000	180	< 0.4	30	na	< 20	na	250000	< 50	< 10	3200000	813000	7170000	50000	209	14	< 20
Nov-06	na	8.0	26200	11.1	na	500	< 100	104000	< 40	33000	447000	< 100	401000	< 80	< 5000	< 500	< 80	160000	340	< 1	< 100	na	< 20	na	440000	< 80	< 80	6700000	1430000	21700000	94000	191	< 10	< 250
May-07	na	8.1	24390	25.3	12	679	< 500	116000	< 50	28000	157000	< 100	545000	< 100	< 5000	< 5000	< 100	150000	127	< 1	< 100	na	40	na	490000	< 100	< 100	7500000	1720000	21000000	75000	518	< 15	< 500
Nov-07	na	8.1	25140	23.5	20	1200	50	57000	< 50	31000	167000	< 50	328000	< 50	< 5000	< 250	< 50	170000	160	< 0.8	< 50	200	< 20	190000	490000	530	< 50	8600000	1590000	20700000	85000	191	< 10	< 100
May-08	na	7.9	22340	25.3	36	1100	< 100	120000	< 100	48000	232000	< 500	427000	< 500	< 10000	< 500	< 500	170000	290	< 0.8	< 500	290	< 20	170000	490000	< 500	< 200	5800000	1190000	18700000	126000	647	< 10	< 100
Nov-08	na	7.9	24180	21.7	29	950	60	63000	< 100	24000	271000	< 200	311000	< 100	< 5000	< 250	< 100	190000	< 200	< 0.8	< 200	< 500	< 20	177000	580000	< 250	< 100	6420000	2030000	19500000	90000	443	< 10	140
May-09	na	8.3	7520	18.5	116	380	< 50	< 60000	< 20	26000	90000	< 100	96000	< 100	< 5000	300	< 40	61000	210	< 0.8	< 100	< 200	140	13000	160000	< 100	< 40	2000000	619000	4820000	30000	221	12	< 100
Nov-09	na	8.0	18950	22.4	56	448	50	82000	< 50	49000	< 250000	< 100	286000	< 100	< 5000	270	< 100	160000	358	< 0.8	< 250	< 200	< 10	36000	380000	< 250	< 100	4700000	1550000	14200000	63000	449	< 10	< 50
May-10	na	8.0	20370	22.6	15	404	< 100	192000	< 50	71000	106000	< 100	441000	< 100	< 5000	< 500	< 100	210000	682	< 1	< 250	< 200	13	34000	462000	< 250	< 100	4500000	1500000	15400000	130000	294	19	< 100
Nov-10	na	8.7	5774	15.3	339	235	< 100	44000	< 10	35000	81000	< 40	175000	< 100	< 2000	4400	< 50	46000	3200	< 1	128	< 100	160	6000	130000	< 100	< 20	1400000	609000	3720000	39000	456	< 10	< 400
May-11	na	8.3	22740	31.2	250	904	< 100	231000	< 10	27000	308000	< 200	784000	< 500	< 5000	730	< 50	190000	< 500	< 2	< 500	100	< 10	40000	460000	< 500	< 20	6200000	1830000	18200000	138000	325	< 10	< 200
Nov-11	na	7.9	21800	20.9	32.7	990	50	60000	< 10	30000	118000	< 100	305000	< 50	< 5000	< 250	< 50	200000	180	< 2	< 100	< 100	< 100	42000	520000	< 250	< 20	7100000	1310000	17100000	80000	1670	< 10	< 100
May-12	na	8.1	20700	25	131	1600	68	198000	< 10X	51000	158000	< 50	515000	< 25	18800X	580	< 50X	220000	370	< 1X	< 50	180	< 100X	27000	440000	< 250	< 20X	65000000	1340000	15600000	131000	1950S7	< 10	< 100
Nov-12	na	8.2	20000	22.4	60.4	5000	91	69000	16	41000	155000	< 50X	340000	< 25X	< 5000X	400	< 50X	320000	110	< 1X	56	< 200S1, X	< 100X	21000	440000	< 100X	< 20X	5200000	2210000	15800000	91000	217	< 10X	< 100X
May-13	na	8.0	15600	22.2	67.0	170	38	42000	< 1	59000	140000	20	156000	< 50X	13600	150	< 5	98000	670	< 0.2	< 50X	< 200X	< 50X	16000	210000	< 50X	< 2	2800000	1560000	10900000	39900	129	< 5	< 20
Nov-13	na	8.0	21800	22.3	16.3	3370	83	185000	< 5X	48000	174000S1	< 10X	469000	< 25X	< 10000X	< 250X	< 25X	230000	326	< 0.2	37	< 500X	< 100X	30000	400000	< 25X	< 10X	5400000	1340000	16500000	127000	460	6	< 100X
May-14	na	8.0	17900	26.0	< 5.0	728	51	30000	< 50X	51000	131000	< 100X	259000	< 250X	< 5000X	< 100X	< 250X	170000	391	< 4X	< 250X	< 500X	< 100X	25000	320000	< 250X	< 10X	5600000	764000	13000000	60900	357	< 5	< 40X
Nov-14	na	7.4	20100	21.7	132	3670	89	82000	< 5	31000	107000	< 10	356000	< 25	< 5000	510	< 25	310000	275	< 1	42	< 500	< 100	24000	440000	< 25	< 20	6200000	1820000	16400000	39200	299	10	< 100

na - not analyzed
S1 - The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
S7 - Sample breakthrough to 2nd section is > 10%. Results may be biased low.
X - Result subject to sample matrix interference. Reported detection limit has been adjusted where applicable.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water Feet	pH Units (Field)	Spec. Cond. at 25C umhos/cm (Field)	Temp. °C (Field)*	Turbidity NTU (Field)	Arsenic*	Barium*	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese*	Mercury	Nickel	Nitrate-Nitrite as N*	Nitrite as N*	Potassium	Selenium	Silver	Sodium	Sulfate*	Total Dissolved Solids*	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols*	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2B Std	*N/A*	*6.0-9.0*	*Not Listed*	*29*	*50*	*10*	*200,000*	*2*	*Not Listed*	*230,000 (AL)*	*50*	*7 (AL)*	*1,800*	*1,000 (AL)*	*25*	*Not Listed*	*200*	*0.012*	*88*	*10,000*	*2.7*	*Not Listed*	*5*	*0.06 (AL)*	*Not Listed*	*250,000*	*500,000*	*Not Listed*	*Not Listed*	*300*	*50 (AL)*
May-05	na	7.6	340	22.4	5.6	< 5	40	< 1	8400	33000	< 5	< 2	< 100	150	< 2	1600	120	< 0.2	< 5	na	< 10	3400	< 5	< 2	50000	60000	215000	6000	160	< 10	< 10
Nov-05	na	7.4	441	15.6	**112**	< 5	60	< 1	13000	39000	< 5	< 2	< 100	210	< 2	2400	156	< 0.2	< 5	na	**10**	4600	< 5	< 2	73000	78000	284000	6000	164	< 10	< 10
May-06	na	7.2	397	18.9	16.0	< 5	30	< 1	5800	30000	< 20	< 2	< 100	260	< 2	1500	100	< 0.2	< 20	na	< 10	4600	< 5	< 2	65000	62000	211000	5300	145	< 5	< 20
Nov-06	na	7.9	439	12.6	na	< 5	20	< 1	9700	52000	< 20	< 2	< 100	120	< 2	1700	130	< 0.2	< 20	na	< 10	6000	< 5	< 2	89000	105000	336000	8500	259	< 5	< 50
May-07	na	8.1	499	21.7	3.1	< 5	30	< 1	7500	46000	< 2	< 2	< 100	160	< 5	1500	120	< 0.2	< 5	na	< 10	5800	< 5	< 2	93000	92000	326000	6400	149	< 5	10
Nov-07	na	8.1	1216	18.2	2.1	< 5	50	< 1	24000	103000	2	< 5	< 100	200	< 5	3600	149	< 0.2	< 5	< 100	< 10	13000	< 5	< 2	240000	**265000**	**812000**	17000	397	< 5	< 10
May-08	na	8.0	574	20.8	2.7	< 5	30	< 1	7300	46000	< 5	< 5	110	130	< 5	1400	98	< 0.2	< 5	< 200	< 10	7400	< 5	< 2	120000	106000	378000	6800	277	< 5	< 10
Nov-08	na	8.0	1410	16.6	3.0	10	50	< 1	18000	135000	2	< 5	180	120	< 5	3000	**239**	< 0.2	< 5	< 200	< 10	18000	< 5	< 2	258000	**320000**	**984000**	20000	495	< 5	< 20
May-09	na	7.7	264	16.4	7.3	< 5	20	< 1	5500	22000	< 2	< 5	< 100	190	< 5	1200	72	< 0.2	< 5	230	< 10	3300	< 5	< 2	40000	44000	174000	3500	56.2	< 5	< 20
Nov-09	na	7.7	195	12.8	< 5.0	< 5	20	< 1	3900	15000	< 2	< 5	< 100	110	< 5	1000	48	< 0.2	< 5	330	< 10	2400	< 5	< 2	34000	28000	108000	3600	58.5	< 5	< 20
May-10	na	7.3	380	17.8	6.0	< 5	20	< 1	5000	16000	< 2	< 5	< 100	180	< 5	1200	83	< 0.2	< 5	< 200	< 10	4500	< 5	< 2	71000	58000	228000	3700	108	< 5	< 20
Nov-10	na	7.9	997	15.6	< 5.0	< 5	60	< 1	23000	80000	3	< 5	110	190	< 5	3600	115	< 0.2	< 5	100	< 10	12000	< 5	< 2	180000	179000	**551000**	24000	1100	< 5	< 20
May-11	na	7.8	307	24.6	< 5.0	< 5	20	< 1	6100	30000	< 2	< 5	< 100	130	< 5	1200	99	< 0.2	< 5	150	< 10	2900	< 5	< 2	52000	37000	192000	5000	88.2	< 5	< 20
Nov-11	na	7.5	689	15.4	< 5.0	< 5	30	< 1	12000	61000	3	< 5	< 100	100	< 5	2000	29	< 0.2	< 5	100	< 10	8500	< 5	< 2	110000	114000	452000	12000	350	8	< 20
May-12	na	7.6	401	21.2	< 5.0	< 5	26	< 1	6500	31800	< 2	< 5	< 100	240	< 5	1500	91	< 0.2	< 5	150	< 10	4100	< 5	< 2	64000	65700	249000	6710	266	< 5	< 20
Nov-12-12	na	8.2	738	16.6	< 5.0	5	39	< 1	15000	58500	5	< 5	< 100	110	< 5	2700	46	< 0.2	< 5	130	< 10	8200	< 5	< 2	130000	106000	464000K	12200	291	< 5	< 20
Nov-26-12	na	7.9	757	12.2	< 5.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	528000	na	na	na	na
May-13	na	7.6	136	16.0	5.5	< 5	18	< 1	2900	7130	5	< 5	< 100	210	< 5	940	18	< 0.2	< 5	180	< 10	1800	< 5	< 2	21000	20100	89000	1420	< 30	< 5	< 20
Nov-13	na	8.4	1300	16.5	< 5.0	8	30	< 1	8200	51100	< 2	< 5	< 100	150	< 5	2200	111	< 0.2	< 5	150	< 10	17000	< 5	< 2	260000	**265000**	**842000**	8930	182	< 5	< 20
May-14	na	7.8	482	23.8	< 5.0	< 5	27	< 1	7700	31000	< 2	< 5	< 100	240	< 5	1600	28	< 0.2	< 5	200	< 10	4000	< 5	< 2	57000	69700	226000	4990	142	< 5	< 20
Nov-14	na	7.0	695	15.4	< 5.0	< 5	30	< 1	13000	63600	< 2	< 5	< 100	110	< 5	2300	27	< 0.2	< 5	110	< 10	6600	< 5	< 2	130000	111000	380000	9820	383	7	< 20

Shaded values exceed the NCDENR 2B Standards for Class C Freshwater, 5/15/2013.
na - not analyzed
* Temperature not to exceed 2.8 °C above natural water temperature.
* Arsenic level is the most stringent of Freshwater Aquatic Life (50 ug/L) and Human Health (10 ug/L).
* Barium level is for Human Health; not established for Freshwater Aquatic Life.
* Manganese level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Nitrate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
Nitrate value is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
* Nitrite level is for Human Health; not established for Freshwater Aquatic Life.
* Sulfate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total Dissolved Solids level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total phenolic compounds is a numeric translator for the "no fish flesh tainting" standard.

Collection Date	Field Parameters					Analytical Parameters (µg/L)																									
	Depth to Water Feet	pH Units (Field)	Spec. Cond. at 25C umhos/cm (Field)	Temp. °C (Field)*	Turbidity NTU (Field)	Arsenic*	Barium*	Cadmium	Calcium	Chloride	Chromium	Copper	Fluoride	Iron	Lead	Magnesium	Manganese*	Mercury	Nickel	Nitrate-Nitrite as N*	Nitrite as N*	Potassium	Selenium	Silver	Sodium	Sulfate*	Total Dissolved Solids*	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols*	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*1*	*Not Listed*	*Not Listed*	*10*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*5*	*Not Listed*	*(250000)*	*100*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2B Std	*N/A*	*6.0-9.0*	*Not Listed*	*29*	*50*	*10*	*200,000*	*2*	*Not Listed*	*230,000 (AL)*	*50*	*7 (AL)*	*1,800*	*1,000 (AL)*	*25*	*Not Listed*	*200*	*0.012*	*88*	*10,000*	*2.7*	*Not Listed*	*5*	*0.06 (AL)*	*Not Listed*	*250,000*	*500,000*	*Not Listed*	*Not Listed*	*300*	*50 (AL)*
May-05	na	7.3	345	19.9	3.1	< 5	40	< 1	7900	32000	< 5	< 2	< 100	190	< 2	1500	120	< 0.2	< 5	na	< 10	3500	< 5	< 2	49000	57000	224000	5600	160	< 10	< 10
Nov-05	na	7.7	815	16.8	11	< 5	90	< 1	21000	80000	5	2	< 100	140	< 2	2800	**210**	< 0.2	< 5	na	**80**	6200	< 5	< 2	120000	144000	**511000**	11000	330	< 10	10
May-06	na	7.1	441	17.5	16	< 5	30	< 1	5900	34000	20	< 2	< 100	300	< 2	1500	90	< 0.2	< 20	na	< 10	5300	< 5	< 2	72000	65000	247000	5600	154	< 5	< 20
Nov-06	na	7.6	591	11.7	na	< 5	30	< 1	11000	53000	< 20	< 2	< 100	110	< 2	1800	120	< 0.2	< 20	na	< 10	6300	< 5	< 2	88000	107000	368000	8700	265	< 5	< 50
May-07	na	7.4	451	18.2	3.7	< 5	30	< 1	6800	42000	< 2	< 2	< 100	180	< 5	1400	120	< 0.2	< 5	na	< 10	5000	< 5	< 2	83000	81000	310000	5900	159	< 5	< 10
Nov-07	na	7.9	1333	15.9	1.4	< 5	50	< 1	22000	5500	2	< 5	< 100	180	< 5	3600	140	< 0.2	< 5	110	< 10	14000	< 5	< 2	280000	4400	**880000**	19000	453	< 5	< 10
May-08	na	7.2	502	21.3	4.7	< 5	30	< 1	7700	43000	< 5	< 5	< 100	120	< 5	1400	89	< 0.2	< 5	110	< 10	6500	< 5	< 2	86000	94000	324000	6000	220	< 5	< 10
Nov-08	na	7.0	1426	11.3	5.6	10	60	< 1	19000	146000	2	< 5	190	150	< 5	3300	**255**	< 0.2	< 5	< 200	**10**	17000	< 5	< 2	259000	**321000**	**984000**	22000	477	< 5	< 20
May-09	na	8.5	280	17.4	10	< 5	20	< 1	5400	22000	< 2	< 5	< 100	190	< 5	1100	66	< 0.2	< 5	200	< 10	3400	< 5	< 2	43000	45000	186000	3800	67.6	< 5	< 20
Nov-09	na	7.6	198	12.9	< 5.0	< 5	20	< 1	3600	14000	< 2	< 5	< 100	100	< 5	970	41	< 0.2	< 5	280	< 10	2400	< 5	< 2	33000	27000	108000	3800	63.3	< 5	< 20
May-10	na	7.6	370	18.2	6.7	< 5	20	< 1	5100	15000	< 2	< 5	< 100	220	< 5	1200	86	< 0.2	< 5	< 200	< 10	4100	< 5	< 2	67000	58000	226000	3500	68.4	< 5	< 20
Nov-10	na	7.4	1008	13.4	< 5.0	< 5	70	< 1	28000	91000	3	< 5	110	170	< 5	4000	138	< 0.2	< 5	110	< 10	11000	< 5	< 2	170000	195000	**664000**	23000	1400	< 5	< 20
May-11	na	7.4	419	23.8	< 5.0	< 5	30	< 1	7700	37000	2	< 5	< 100	150	< 5	1500	79	< 0.2	< 5	170	< 10	4000	< 5	< 2	71000	48000	260000	7000	201	< 5	< 20
Nov-11	na	6.6	674	15.0	< 5.0	< 5	30	< 1	11000	58000	2	< 5	< 100	100	< 5	2000	36	< 0.2	< 5	< 100	< 10	8200	< 5	< 2	120000	102000	428000	11000	434	< 5	< 20
May-12	na	7.5	434	23.5	5.9	< 5	26	< 1	7500	32600	< 2	< 5	< 100	220	< 5	1600	79	< 0.2	< 5	140	< 10	4300	< 5	< 2	70000	70600	252000	6850	266S7	< 5	< 20
Nov-12	na	8.0	723	15.8	< 5.0	6	40	< 1	15000	57200	6	< 5	110	190	< 5	2600	95	< 0.2	< 5	150	< 10	8000	< 5	< 2	120000	101000	442000	11800	287	6	< 20
May-13	na	7.6	170	15.2	5.2	< 5	18	< 1	2800	7900S1	4	< 5	< 100	200	< 5	890	19	< 0.2	< 5	180	< 10	1800	< 5	< 2	23000	21800	95000	1480	32.9	< 5	< 20
Nov-13	na	8.4	1390	13.2	< 5.0	8	34	< 1	9600	62300	< 2	< 5	< 100S1	170	< 5	2300	69	< 0.2	< 5	170	< 10	17000	< 5	< 2	270000	**254000**	**862000**	11100	303	< 5	< 20
May-14	na	7.6	423	23.1	< 5.0	< 5	29	< 1	9100	32100	< 2	< 5	< 100	300	< 5	1600	30	< 0.2	< 5	200	< 10	4100	< 5	< 2	58000	70400	216000	5110	153	< 5S1	< 20
Nov-14	na	7.4	705	14.4	< 5.0	< 5	31	< 1	16000	62500	< 2	< 5	< 100	120	< 5	2300	20	< 0.2	< 5	110	< 10	6800	< 5	< 2	130000	110000	408000	9470	386	< 5	< 20

Shaded values exceed the NCDENR 2B Standards for Class C Freshwater, 5/15/2013.
na - not analyzed
* Temperature not to exceed 2.8 °C above natural water temperature.
* Arsenic level is the most stringent of Freshwater Aquatic Life (50 ug/L) and Human Health (10 ug/L).
* Barium level is for Human Health; not established for Freshwater Aquatic Life.
* Manganese level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Nitrate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
Nitrate value is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
* Nitrite level is for Human Health; not established for Freshwater Aquatic Life.
* Sulfate level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.
* Total Dissolved Solids level is not established for Freshwater Aquatic Life; Water Supply level is shown for reference only.

Underflow Drain

Collection Date	Field Parameters					Analytical Parameters (µg/L)																											
	Depth to Water	pH (Field)	Spec. Cond. at 25C (Field)	Temp. (Field)	Turbidity (Field)	Arsenic	Barium	BOD, 5 Day	Cadmium	Calcium	Chloride	Chromium	COD	Copper	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate-Nitrite as N	Nitrite as N	Potassium	Selenium	Silver	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon	Total Organic Halides	Total Rec. Phenols	Zinc
NC SWSL	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*100*	*Not Listed*	*1*	*Not Listed*	*Not Listed*	*10*	*Not Listed*	*10*	*2000*	*300*	*10*	*Not Listed*	*50*	*0.2*	*50*	*10000**	*1000*	*Not Listed*	*10*	*10*	*Not Listed*	*250000*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*10*
EPA MCL/(SMCL)	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*2000*	*Not Listed*	*5*	*Not Listed*	*(250000)*	*100*	*Not Listed*	*1300*	*4000*	*(300)*	*15*	*Not Listed*	*(50)*	*2*	*Not Listed*	*10000**	*1000*	*Not Listed*	*50*	*(100)*	*Not Listed*	*(250000)*	*(500000)*	*Not Listed*	*Not Listed*	*Not Listed*	*(5000)*
NC2L Std	*Not Listed*	*6.5-8.5*	*Not Listed*	*Not Listed*	*Not Listed*	*10*	*700*	*Not Listed*	*2*	*Not Listed*	*250,000*	*10*	*Not Listed*	*1000*	*2000*	*300*	*15*	*Not Listed*	*50*	*1*	*100*	*10,000**	*1000*	*Not Listed*	*20*	*20*	*20000***	*250,000*	*500,000*	*Not Listed*	*Not Listed*	*30*	*1,000*
May-05	na	6.5	67.0	16.3	< 1.0	< 5	30	< 6000	< 1	3900	8400	< 5	< 20000	< 2	< 100	< 50	< 2	1900	< 5	< 0.2	< 5	na	< 10	1700	< 5	< 2	2700	4700	66000	< 500	10	19	50
Nov-05	na	6.7	66.0	19.7	6.9	< 5	40	< 3000	< 1	4100	8900	< 5	< 20000	< 2	< 100	< 50	< 2	2100	< 5	< 0.2	< 5	na	< 10	1800	< 5	< 2	3100	4100	55000	< 500	< 10	< 10	30
May-06	na	6.6	104.0	21.3	7.2	< 5	40	< 3000	< 1	4400	9900	< 20	< 20000	< 2	< 100	< 100	< 2	2200	< 5	< 0.2	< 20	na	< 10	2000	< 5	< 2	3200	3300	36000	< 500	< 10	< 5	50
Nov-06	na	8.4	168.0	19.6	na	< 5	40	< 3000	< 1	4500	9600	< 20	< 20000	< 2	< 100	< 50	< 2	2200	< 5	< 0.2	< 20	na	< 10	1900	< 5	< 2	3100	3500	59000	< 500	< 10	< 5	60
May-07	na	6.8	78.0	22.4	< 1.0	< 5	40	< 3000	< 1	4400	9100	< 2	28000	< 2	< 100	< 100	< 5	2200	< 5	< 0.2	< 5	na	< 10	2000	< 5	< 2	3400	3700	65000	< 500	< 10	< 5	50
Nov-07	na	7.7	89.0	21.4	< 1.0	< 5	40	< 3000	< 1	5000	10000	< 2	< 20000	< 5	< 100	< 50	< 5	2200	7	< 0.2	< 5	470	< 10	2000	< 5	< 2	3400	3300	61000	< 500	< 10	< 5	60
May-08	na	**8.6**	83.0	22.4	2.7	< 5	40	< 3000	< 1	4300	10000	< 5	< 20000	< 5	< 100	< 50	< 5	2300	< 5	< 0.2	< 5	430	< 10	2000	< 5	< 2	3100	3100	72000	< 500	< 30	< 5	30
Nov-08	na	8.0	84.0	18.6	2.1	< 5	30	4100	< 1	4400	10000	< 2	< 20000	< 5	< 100	< 50	< 5	2200	< 5	< 0.2	< 5	460	< 10	2000	< 5	< 2	3200	3100	57000	< 500	< 30	< 5	60
May-09	na	7.8	79.0	19.0	< 5.0	< 5	40	7900	< 1	4500	10000	< 2	< 20000	< 5	< 100	< 50	< 5	2200	< 5	< 0.2	< 5	410	< 10	2100	< 5	< 2	3100	3100	112000	< 500	< 30	< 5	50
Nov-09	na	7.1	78.0	20.4	< 5.0	< 5	50	< 3000	< 1	4700	10000	< 2	< 20000	< 5	< 100	< 50	< 5	2300	< 5	< 0.2	< 5	440	< 10	2100	< 5	< 2	3300	3000	53000	< 500	< 30	< 5	80
May-10	na	7.3	84.1	21.1	< 5.0	< 5	40	< 2000	< 1	4900	11000	< 2	< 20000	< 5	< 100	< 50	< 5	2500	8	< 0.2	< 5	380	< 10	2100	< 5	< 2	3600	3800	66000	< 500	< 30	< 5	70
Nov-10	na	7.3	92.0	20.1	< 5.0	< 5	50	< 2000	< 1	5000	11000	< 2	< 20000	< 5	< 100	< 50	< 5	2600	< 5	< 0.2	< 5	450	< 10	2200	< 5	< 2	3600	3600	< 25000	< 500	< 20	< 5	70
May-11	na	7.4	90.0	23.4	< 5.0	< 5	50	< 2000	< 1	4700	12000	< 2	< 20000	< 5	< 100	< 50	< 5	2500	< 5	< 0.2	< 5	430	< 10	2100	< 5	< 2	3400	3200	64000	< 500	< 30	< 5	60
Nov-11	na	**6.4**	86.4	20.9	< 5.0	< 5	50	< 2000	< 1	4600	11000	< 2	< 20000	< 5	< 100	< 50	< 5	2500	< 5	< 0.2	< 5	440	< 10	2100	< 5	< 2	3600	2800	47000	< 500	137	< 5	60
May-12	na	7.4	91.3	20.6	< 5.0	< 5	48	< 2000	< 1	4700	11500	< 2	< 20000	< 5	< 100	< 50	< 5	2500	< 5	< 0.2	< 5	390	< 10	2200	< 5	< 2	3600	3390	77000	< 1000	111S7	< 5	68
Nov-12	na	6.8	91.2	19.8	< 5.0	< 5	49	< 2000	< 1	5100	12000	< 2	< 20000	< 5	< 100	< 50	< 5	2500	< 5	< 0.2	< 5	400	< 10	2100	< 5	< 2	3500	3180	81000	< 1000	< 30	< 5	73
May-13	na	7.8	88.0	21.1	< 5.0	< 5	46	< 2000	< 1	5200	12500	< 2	23300	< 5	< 100	< 50	< 5	2600	< 5	< 0.2	< 5	380	< 10	2100	< 5	< 2	3700	3420	61000	< 1000	< 30	< 5	42
Nov-13	na	6.6	97.2	21.0	< 5.0	< 5	50	< 2000	< 1	5500	12300	< 2	< 20000	< 5	< 100	< 50	< 5	2700	< 10	< 0.2	< 5	400	< 10	1900	< 5	< 2	3900	3030	72000	< 1000	< 30	< 5	39
May-14	na	6.9	102	23.4	< 5.0	< 5	49	< 2000	< 1	5400	13800	< 2	< 20000	7	< 100	< 50	< 5	2800	< 5	< 0.2	< 5	430	< 10	1800	< 5	< 2	3800	3920	74000	< 1000	< 30	< 5	27
Nov-14	na	**5.9**	110	21.5	< 5.0	< 5	76	< 2000	< 1	6200	14200	< 2	< 20000	7	< 100	**550**	< 5	3100	**155**	0.21	< 5	400	< 10	2000	< 5	< 2	4100	3830	72000	< 1000	< 30	< 5	150

Shaded values exceed the NCDENR 2L Standards, April 1, 2013.
na - not analyzed
* This value is the NC DENR 2L Standard for Nitrate. The value in this column is the total N, as both Nitrite and Nitrate. To calculate the nitrate concentration, subtract the Nitrite concentration from the Nitrate/Nitrite as N concentration.
** There is no NC DENR 2L Standard for Sodium. This value is the Ground Water Protection Standard.
S7 - Sample breakthrough to 2nd section is > 10%. Results may be biased low.

Preliminary Analysis of Concentrations Exceeding Standards (Nov. 2014)

Parameter (mg/L)	NC 2L Standard	EPA MCL	Range of Concentrations Above Standard (mg/L)	Detection Location
pH (units)	6.5 – 8.5	6.5 - 8.5	5.6 – 6.4; 10	MWs 1A, 2, 5A, 6, 7A, 8, 9, 10, 11, 12, 14, 15, 17, 20 & Under Drain Flow
Arsenic	0.01	0.01	0.02	MW-2
Chromium	0.01	0.1	0.013	MW-2
Fluoride	2	4	6.74	MW-2
Nickel	0.1	Not Established	0.114	MW-2
Iron	0.3	0.3 – Secondary	0.3 – 65	MWs 2, 3A, 4, 5A, 6, 8, 11, 13, 16S, 16D, 18, 20, 21 & Under Drain Flow
Manganese	0.05	0.05 – Secondary	0.155 – 9.79	MWs 3A, 4, 5A, 6, 7A, 13, 16S, 16D, 18, 21 & Under Drain Flow
Sodium	20	Not Established	22 – 2,000	MWs 2, 3A, 4, 5A, 6, 7A, 12, 13, 16S, 16D, 18 & 21
Sulfate	250	250 – Secondary	328 – 984	MWs 3A, 13, 18 & 21
Total Dissolved Solids	500	500 – Secondary	512 – 5,390	MWs 2, 3A, 4, 6, 13, 16S, 16D, 18 & 21

The pH in most wells is slightly below the 2L Standard but is typical of waters in the Inner Piedmont and Blue Ridge geologic provinces, except the pH in MW-2 is above the range. MW-2 is downgradient of a capped area of the Landfill (Area F). The pH of surface water samples BB Down, BB-3 and BB-4 immediately downstream of MW-2 is within the 2B Standards.

Arsenic, chromium, fluoride and nickel slightly exceed the 2L Standard in MW-2. Chromium is below the MCL, and there is no MCL established for nickel. Arsenic and nickel have declined since the cap was installed in 1998-1999. Concentrations of these constituents have not impacted the surface water quality at the immediately downstream sample locations (BB-Down, BB-3 and BB-4).

Iron and manganese concentrations exceed the 2L Standard in multiple wells, which is the same value as the Secondary EPA MCL. There are no Primary MCLs established for these two elements. The Secondary MCLs are established for color and taste. Iron and manganese are naturally occurring, non-hazardous metals prevalent in this geologic zone. Concentrations of these constituents have not impacted the surface water quality at the immediately downstream sample locations in Bowen Branch (BB-Down, BB-3 and BB-4) or the Pigeon River (Pigeon R Up and Pigeon R Down).

Total Dissolved Solid (TDS) concentrations exceed the 2L Standard and Secondary MCL in multiple wells, but there is no Primary MCL established for TDS. The TDS concentrations appear to be related to the sodium and sulfate levels, which also exceed the 2L Standards in many of the same wells. However, No Primary MCLs have been established for these constituents, and only Secondary MCLs have been set for sulfate and TDS. Concentrations of sodium, sulfate and TDS do not exceed the surface water quality standards at the immediately downstream sample locations in Bowen Branch (BB-Down, BB-3 and BB-4) or the Pigeon River (Pigeon R Up and Pigeon R Down).

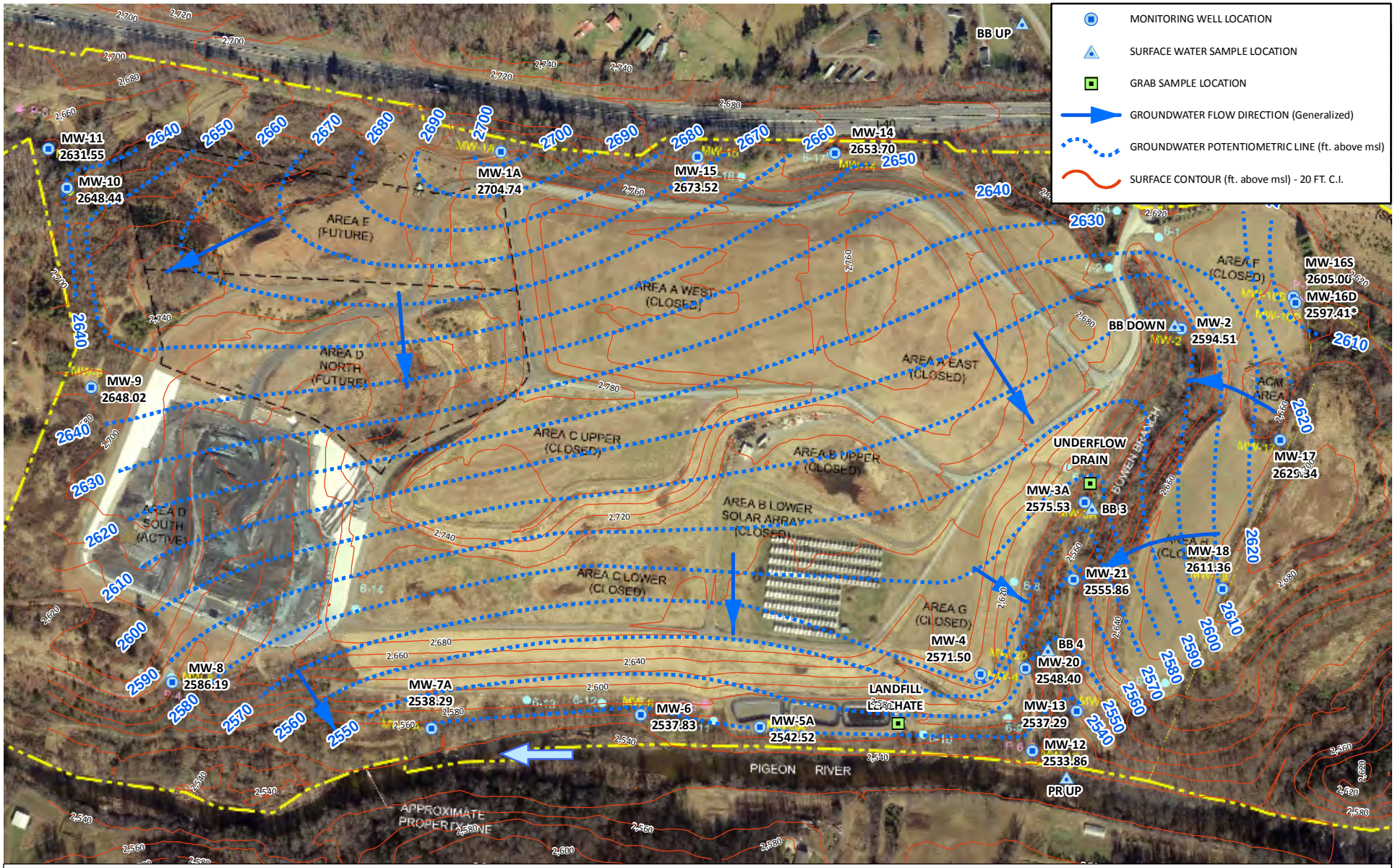
Evergreen Packing Landfill #6
Solid Waste Permit No. 4406-INDUS-1984
Well Construction Data and Groundwater Elevation
November 10, 2014

Location ID	Lat	Long	Date Installed	Well Diameter	Total Well Depth	Depth to Top of Screen	Screen Length	Geology	Ground Elevation	TOC Elevation	Depth to Water 11/10/14	Groundwater Elevation
				inches	ft BGS	ft BGS	ft		ft MSL	ft MSL	ft BTOC	ft MSL
MW-1A	35° 32' 58.918" N	82° 52' 44.113" W	Jan-92	2	70.8	60.2	10	Bedrock	2760.78	2760.50	55.76	2704.74
MW-2	35° 33' 2.259" N	82° 52' 13.731" W	Jul-83	2	10.2	5.2	5	Saprolite	2595.31	2596.91	2.40	2594.51
MW-3A	35° 32' 55.241" N	82° 52' 14.761" W	Oct-87	2	17.5	7.5	10	Bedrock	2579.67	2581.74	6.21	2575.53
MW-4	35° 32' 48.165" N	82° 52' 16.125" W	Jul-83	2	84.0	64	20	Bedrock	2629.63	2631.01	59.51	2571.50
MW-5A	35° 32' 43.443" N	82° 52' 24.169" W	Oct-87	2	42.0	32	10	Saprolite	2575.57	2577.51	34.99	2542.52
MW-6	35° 32' 42.238" N	82° 52' 29.169" W	Jul-83	2	18.5	8.5	10	Bedrock	2549.72	2551.61	13.78	2537.83
MW-7A	35° 32' 38.958" N	82° 52' 37.393" W	Oct-87	2	23.5	13.5	10	Bedrock	2546.39	2548.68	10.39	2538.29
MW-8	35° 32' 36.982" N	82° 52' 48.612" W	Jul-83	2	27.7	17.7	10	Bedrock	2594.39	2595.65	9.46	2586.19
MW-9	35° 32' 45.643" N	82° 52' 56.764" W	Jul-83	2	64.8	44.8	20	Bedrock	2684.02	2685.81	37.79	2648.02
MW-10	35° 32' 51.871" N	82° 53' 1.034" W	Jul-83	2	74.0	54	20	Bedrock	2677.78	2679.20	30.76	2648.44
MW-11	35° 32' 52.923" N	82° 53' 2.423" W	Jul-83	2	20.4	10.4	10	Soil	2639.44	2648.34	16.79	2631.55
MW-12	35° 32' 46.336" N	82° 52' 12.780" W	Jul-83	2	30.4	20.4	10	Bedrock	2543.73	2545.30	11.44	2533.86
MW-13	35° 32' 48.237" N	82° 52' 11.642" W	Oct-87	2	34.0	24	10	Bedrock	2555.44	2557.67	20.38	2537.29
MW-14	35° 33' 3.384" N	82° 52' 30.615" W	Jan-92	2	27.0	17	10	Bedrock	2679.45	2679.21	25.51	2653.70
MW-15	35° 33' 1.395" N	82° 52' 36.096" W	Jan-92	2	41.0	31	10	Bedrock	2701.43	2701.14	27.62	2673.52
MW-16D	35° 33' 4.657" N	82° 52' 9.544" W	Jan-96	4	109.5	99	10.5	Bedrock	2655.94	2658.30	60.89	2597.41
MW-16S	35° 33' 4.821" N	82° 52' 9.743" W	Jan-96	4	68.0	58	10	Saprolite	2656.41	2658.84	53.84	2605.00
MW-17	35° 32' 59.949" N	82° 52' 7.897" W	Jan-96	4	63.0	43	20	Bedrock	2673.38	2675.59	46.25	2629.34
MW-18	35° 32' 54.224" N	82° 52' 7.773" W	Jan-96	4	110.0	100	10	Bedrock	2685.09	2687.23	75.87	2611.36
MW-20	35° 32' 48.964" N	82° 52' 14.415" W	Feb-96	4	59.5	49.5	10	Bedrock	2590.90	2592.91	44.51	2548.40
MW-21	35° 32' 52.538" N	82° 52' 13.930" W	Feb-96	4	26.0	16	10	Bedrock	2563.89	2566.06	10.20	2555.86

Surface Water and Drain Sample Locations

BB-3	35° 32' 55.151" N	82° 52' 14.365" W
BB-4	35° 32' 49.884" N	82° 52' 13.811" W
BB-Down	35° 33' 2.304" N	82° 52' 14.063" W
BB-Up	35° 33' 10.188" N	82° 52' 25.194" W
Pigeon R Down	35° 32' 33.322" N	82° 52' 49.800" W
Pigeon R Up	35° 32' 45.918" N	82° 52' 10.957" W
Under Flow Drain	35° 32' 55.932" N	82° 52' 14.862" W

TOC = Top of Casing
MSL = Mean Sea Level
BTOC = Below Top of Casing
BGS = Below Ground Surface
ft = Feet



NOTE:
POTENTIOMENTRIC LINES ARE EXTRAPOLATED BASED ON DATA COLLECTED FROM THE MONITORING WELLS. THESE LINES ARE GENERALIZED GIVEN THAT THERE IS NO DATA COVERAGE IN THE LANDFILL AREA, THE LARGE AREAS WITH VARYING TOPOGRAPHIC RELIEF, THE CHANGING SITE CONDITIONS, AND THE MAN-MADE MODIFICATIONS.

* - THE GROUNDWATER ELEVATION AT MW-16D IS NOT USED IN CONTOURING.

REFERENCES:
(1) CANTON LANDFILL TOPOGRAPHIC MAP BY SAVEE AND MAYER ENGINEERS; UNDATED.
(2) FEBRUARY 2013 AERIAL PHOTOGRAPHY AND TOPOGRAPHY DATA SUPPLIED BY BLUE RIDGE PAPER PRODUCTS.

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W E
S

0 250 500 1,000 Feet

Rogers & Callcott ENVIRONMENTAL

DRAWN BY: MAL 1/13/2015
CHECKED BY: SWG
APPROVED BY: GYM

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POTENTIOMETRIC MAP
NOVEMBER 10, 2014

CANTON LANDFILL No. 6
EVERGREEN PACKAGING

Canton, North Carolina