Quible

Quible & Associates, P.C.
ENGINEERING • ENVIRONMENTAL SCIENCES • PLANNING • SURVEYING
SINCE 1959

P.O. Drawer 870
Kitty Hawk, NC 27949
Phone: 252-261-3300
Fax: 252-261-1260
Web: quible.com

Mr. Ervin Lane
NCDENR Div. of Waste Management, Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

DENR RECEIVED
DEC 23 2011
WASTE SECTION

December 20, 2011

RE: Groundwater Monitoring Report
Closed Avoca Landfill, Permit #08-02
Bertie County, North Carolina

Mr. Lane,

Please find enclosed Environmental Monitoring Form and associated data and documentation related to the 11/03/2011 groundwater monitoring event performed for the Closed Avoca Landfill (Permit # 08-02) in Bertie County, North Carolina. The latest groundwater monitoring has been performed by Quible & Associates, P.C. (Quible). The closed landfill site is located within Scotch Hall Preserve Development, currently owned by Rial Corporation, formerly owned and operated by RJ Reynolds, Avoca Division.

The landfill was reportedly operated by RJ Reynolds from 1979 until sometime in the mid 1990's and was used for disposal of manganese oxide and hydroxide sludge from their wastewater treatment plant. The property has subsequently been purchased by Rial Corporation (2005) who has developed the property as a residential golfing community.

Prior to sampling on 11/03/2011, each of the eight groundwater monitoring wells were purged on 10/25/2011 at a rate of approximately 2-3 gallons per minute for approximately 20 minutes, using a dedicated piece of polyethylene tubing and an above ground pump. The purpose of this purging was to remove fine sediment (that leads to turbidity) from the well and to evaluate the conditions related to well recovery. During the 11/03/2011 sampling, each of the monitoring wells were purged and sampled using disposable polyethylene bailers. Field parameters including depth to groundwater, pH, Specific Conductivity and Temperature were measured. Samples were collected from each well for laboratory analytical testing of arsenic, barium, cadmium, chromium, manganese, lead, mercury, selenium, silver and volatile organic compounds (VOC's).

Based on groundwater analytical results reported in the 11/18/2011 laboratory report provided by Environmental Chemists, Inc (Envirochem):

- Concentrations of manganese reported in MW-1 (117 µg/L), MW-2 (134 µg/L), MW-3 (838 µg/L), MW-4 (685 µg/L), MW-5 (192 µg/L), MW-6 (120 µg/L) AND MW-7 (315 µg/L) exceed the 2L Groundwater Quality Standard (GQS) and Solid Waste Section Limit (SWSL).

- Concentrations of barium reported in MW-3 (171 µg/L), MW-4 (106 µg/L) and MW-7 (105 µg/L) exceed the SWSL.

A table summarizing the groundwater analytical data for groundwater samples collected from the last four sampling events (two years) has been included with this submission along with the original laboratory results. In addition, Envirochem is preparing and will provide an excel file following the Electronic Data Deliverable (EDD) template for the laboratory results.

Barium and manganese are naturally occurring metals that are both readily found in measurable quantities in both groundwater and soils in the coastal plain of North Carolina. Conventional metals analysis in groundwater requires acid preservation. The acid preservation dissolves sediments and otherwise insoluble metals suspended in the groundwater sample, potentially elevating the concentrations of dissolved metals in the samples. Therefore, it is not clear whether suspension influenced these metals concentrations. That being said, manganese is the predominant known landfill waste material, and levels of manganese can likely be attributed to the prior use of the site. Levels do not exceed published standards to any great level, but the presence of manganese above North Carolina standards suggests that concentrations should continue to be observed until levels decrease below the applicable standards. In general, concentrations of barium and manganese have gradually decreased over the last two years. Unlike the last three sampling events, there were no detectable concentrations of arsenic in any of the groundwater samples analyzed. Arsenic is another naturally occurring metal which is found in groundwater and surface water, especially in the coastal plain setting.

VOC's have not been detected in any of the groundwater samples analyzed, and there is no indication that VOC's are a concern in the future in association with this closed landfill. Therefore, we respectfully request that VOC testing be removed from the sampling requirements.

The monitoring data and current use of the property leads us to believe that there is no existing environmental threat. Based on the trend of relatively low concentrations of metals, the lack of groundwater production wells and the surrounding wetlands that act as the only nearby receptor, we recommend a reduction in the monitoring interval from semi-annual to annual (minus VOC testing). Based on the results from the next sampling event, a recommendation may also be made that the metals testing list be narrowed.

Please do not hesitate to contact the undersigned at 252.261.3300 or at brubino@quible.com if you have any questions or require any additional information regarding this matter.

Sincerely,
Quible & Associates, P.C.

Brian D. Rubino, P.G.

CC: Bobby Masters, SHP

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):

Quible & Associates, P.C. (Consultant)

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

Name: Brian D. Rubino Phone: 252.261.3300

E-mail: brubino@quible.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Avoca Mn. Landfill (closed) Current site of Scotch Hall Preserve	101-B Villa Way Merry Hill, NC 27957	08-02	.0500	11/03/2011

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Brian D. Rubino — Agent/Geologist

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

Signature — 12/13/2011 Date

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1933 GEOLOGIST BRIAN DAMON RUBINO

P.O. Drawer 870, Kitty Hawk, NC 27949

Facility Representative Address

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

Revised 6/2009

Closed Avoca Landfill, Permit #08-02
Summary of Groundwater Analytical Data

Sample ID	Date	MW#1	MW#2	MW#3	MW#4	MW#5	MW#6	MW#7	MW#8	NC 2L GQS**	SWSL***
Arsenic	11/3/2011	<10	<10	<10	<10	<10	<10	<10	<10	10	10
	4/27/2011	0.4	**76.0**	**30.0**	**28.0**	**18.0**	<0.1	**61.0**	<0.1	10	10
	11/29/2010	0.8	**12.0**	0.4	**28.0**	**12.0**	5.9	1.7	6.4	10	10
	5/5/2010	0.5	**81.0**	**75.0**	**26.0**	**17.0**	**19.0**	70.0	**15.0**	10	10
Barium	11/3/2011	48	67	**171**	**106**	78	44	**105**	24	700	100
	4/27/2011	45.3	69.6	**151.0**	**105.0**	<0.02	<0.02	**102.0**	<0.02	700	100
	11/29/2010	59.5	71.3	54.3	**105.0**	61.8	93.3	77.8	58.7	700	100
	5/5/2010	55.0	**141.0**	**198.0**	**134.0**	73.0	80.9	**132.0**	88.1	700	100
Manganese	11/3/2011	**117**	**134**	**838**	**685**	**192**	**120**	**315**	44	50	50
	4/27/2011	**53.0**	**144.0**	**1053.0**	**729.0**	**82.0**	**197.0**	**344.0**	**221.0**	50	50
	11/29/2010	**173.0**	**222.0**	**75.0**	**502.0**	41.0	**135.0**	**84.0**	19.0	50	50
	5/5/2010	**181.0**	**397.0**	**624.0**	**590.0**	47.0	45.0	**312.0**	**147.0**	50	50

Notes:
1. All results reported in µg/L
2. Concentrations in bold type meet or exceed either the 2l GQS or SWSL's

* NCDENR Division of Water Quality Title 15A NCAC 2L .0202 Groundwater Standard (effective January 1, 2010)
** NCDENR Division of Waste Management, Solid Waste Section Limit

envirochem℠

ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)
710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

Lab ID	Sample ID: MW-1	Collect Date/Time	Matrix	Sampled by
11-30030	Site:	11/3/2011 11:30 AM	Water	B. Rubino, W. Eadus

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	< 0.010 mg/L	11/07/2011
Barium	EPA 200.7	0.048 mg/L	11/07/2011
Chromium	EPA 200.7	< 0.010 mg/L	11/07/2011
Lead	EPA 200.7	< 0.010 mg/L	11/07/2011
Manganese	EPA 200.7	0.117 mg/L	11/07/2011
Selenium	EPA 200.7	< 0.010 mg/L	11/07/2011
Silver	EPA 200.7	< 0.010 mg/L	11/07/2011
Cadmium	EPA 200.8	<0.001 mg/L	12/13/2011
Mercury	EPA 245.1	<0.0002 mg/L	11/11/2011
1,1,1,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1,1-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1,2,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1,2-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2,3-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2,3-Trichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2,4-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2,4-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dibromo-3-Chloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dibromoethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,3,5-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,3-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011

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Project ID: RJR Avoca Landfill

1,3-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,4-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
2,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
2-Chloroethylvinyl ether	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
2-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
4-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Benzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromodichloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromoform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Carbon tetrachloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Chlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Chloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Chloroform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Chloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
cis-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
cis-1,3-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Dibromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Dibromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Dichlorodifluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Ethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Hexachlorobutadiene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Isopropylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
M+P Xylene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Methylene chloride	SW 846 method 8260B/5030B	< 1.00 µg/L	11/10/2011
Naphthalene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
n-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
n-Propylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011

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ortho-Xylene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
p-Isopropyltoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
sec-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Styrene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
tert-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Tetrachloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Toluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Trans-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Trans-1,3-dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Trichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Trichlorofluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Vinyl chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011

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Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

Lab ID	Sample ID: MW-2	Collect Date/Time	Matrix	Sampled by
11-30031	Site:	11/3/2011 11:40 AM	Water	B. Rubino, W. Eadus

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	< 0.010 mg/L	11/07/2011
Barium	EPA 200.7	0.067 mg/L	11/07/2011
Chromium	EPA 200.7	< 0.010 mg/L	11/07/2011
Lead	EPA 200.7	< 0.010 mg/L	11/07/2011
Manganese	EPA 200.7	0.134 mg/L	11/07/2011
Selenium	EPA 200.7	< 0.010 mg/L	11/07/2011
Silver	EPA 200.7	< 0.010 mg/L	11/07/2011
Cadmium	EPA 200.8	<0.001 mg/L	12/13/2011
Mercury	EPA 245.1	<0.0002 mg/L	11/11/2011
1,1,1,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1,1-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1,2,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1,2-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,1-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
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1,2,3-Trichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2,4-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2,4-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dibromo-3-Chloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dibromoethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,3,5-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
1,3-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011

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1,3-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
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2-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
4-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Benzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromodichloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromoform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Bromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Carbon tetrachloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Chlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Chloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Chloroform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Chloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
cis-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
cis-1,3-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Dibromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Dibromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Dichlorodifluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Ethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Hexachlorobutadiene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Isopropylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
M+P Xylene	SW 846 method 8260B/5030B	< 1.00 µg/L	11/10/2011
Methylene chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Naphthalene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
n-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
n-Propylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011

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ANALYTICAL & CONSULTING CHEMISTS

NCDENR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

ortho-Xylene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
p-Isopropyltoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
sec-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Styrene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
tert-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Tetrachloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Toluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Trans-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Trans-1,3-dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Trichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Trichlorofluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011
Vinyl chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/10/2011

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NCDENR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

Lab ID	Sample ID: MW-3	Collect Date/Time	Matrix	Sampled by
11-30032	Site:	11/3/2011 11:55 AM	Water	B. Rubino, W. Eadus

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	< 0.010 mg/L	11/07/2011
Barium	EPA 200.7	0.171 mg/L	11/07/2011
Chromium	EPA 200.7	< 0.010 mg/L	11/07/2011
Lead	EPA 200.7	< 0.010 mg/L	11/07/2011
Manganese	EPA 200.7	0.838 mg/L	11/08/2011
Selenium	EPA 200.7	< 0.010 mg/L	11/07/2011
Silver	EPA 200.7	< 0.010 mg/L	11/07/2011
Cadmium	EPA 200.8	<0.001 mg/L	12/13/2011
Mercury	EPA 245.1	<0.0002 mg/L	11/11/2011
1,1,1,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,1-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromo-3-Chloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromoethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3,5-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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NCDENR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

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Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

1,3-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,4-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chloroethylvinyl ether	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
4-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Benzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromodichloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromoform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Carbon tetrachloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,3-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dichlorodifluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Ethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Hexachlorobutadiene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Isopropylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
M+P Xylene	SW 846 method 8260B/5030B	< 1.00 µg/L	11/11/2011
Methylene chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Naphthalene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Propylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Quible & Associates
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Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

ortho-Xylene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
p-Isopropyltoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
sec-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Styrene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
tert-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Tetrachloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Toluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,3-dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichlorofluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Vinyl chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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NCDENR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

Quible & Associates
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Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

Lab ID	Sample ID: MW-4	Collect Date/Time	Matrix	Sampled by
11-30033	Site:	11/3/2011 12:08 PM	Water	B. Rubino, W. Eadus

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	< 0.010 mg/L	11/07/2011
Barium	EPA 200.7	0.106 mg/L	11/07/2011
Chromium	EPA 200.7	< 0.010 mg/L	11/07/2011
Lead	EPA 200.7	< 0.010 mg/L	11/07/2011
Manganese	EPA 200.7	0.685 mg/L	11/08/2011
Selenium	EPA 200.7	< 0.010 mg/L	11/07/2011
Silver	EPA 200.7	< 0.010 mg/L	11/07/2011
Cadmium	EPA 200.8	<0.001 mg/L	12/13/2011
Mercury	EPA 245.1	<0.0002 mg/L	11/11/2011
1,1,1,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,1-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromo-3-Chloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromoethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3,5-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

1,3-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,4-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chloroethylvinyl ether	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
4-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Benzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromodichloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromoform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Carbon tetrachloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,3-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dichlorodifluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Ethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Hexachlorobutadiene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Isopropylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
M+P Xylene	SW 846 method 8260B/5030B	< 1.00 µg/L	11/11/2011
Methylene chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Naphthalene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Propylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

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Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

ortho-Xylene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
p-Isopropyltoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
sec-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Styrene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
tert-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Tetrachloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Toluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,3-dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichlorofluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Vinyl chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

Lab ID	Sample ID: MW-5	Collect Date/Time	Matrix	Sampled by
11-30034	Site:	11/3/2011 12:16 PM	Water	B. Rubino, W. Eadus

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	< 0.010 mg/L	11/07/2011
Barium	EPA 200.7	0.078 mg/L	11/07/2011
Chromium	EPA 200.7	< 0.010 mg/L	11/07/2011
Lead	EPA 200.7	< 0.010 mg/L	11/07/2011
Manganese	EPA 200.7	0.192 mg/L	11/07/2011
Selenium	EPA 200.7	< 0.010 mg/L	11/07/2011
Silver	EPA 200.7	< 0.010 mg/L	11/07/2011
Cadmium	EPA 200.8	<0.001 mg/L	12/13/2011
Mercury	EPA 245.1	<0.0002 mg/L	11/11/2011
1,1,1,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,1-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromo-3-Chloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromoethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3,5-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

1,3-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,4-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chloroethylvinyl ether	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
4-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Benzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromodichloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromoform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Carbon tetrachloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,3-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dichlorodifluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Ethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Hexachlorobutadiene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Isopropylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
M+P Xylene	SW 846 method 8260B/5030B	< 1.00 µg/L	11/11/2011
Methylene chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Naphthalene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Propylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

ortho-Xylene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
p-Isopropyltoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
sec-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Styrene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
tert-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Tetrachloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Toluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,3-dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichlorofluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Vinyl chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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ANALYTICAL & CONSULTING CHEMISTS

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Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

Lab ID	Sample ID: MW-6	Collect Date/Time	Matrix	Sampled by
11-30035	Site:	11/3/2011 12:23 PM	Water	B. Rubino, W. Eadus

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	< 0.010 mg/L	11/07/2011
Barium	EPA 200.7	0.044 mg/L	11/07/2011
Chromium	EPA 200.7	< 0.010 mg/L	11/07/2011
Lead	EPA 200.7	< 0.010 mg/L	11/07/2011
Manganese	EPA 200.7	0.120 mg/L	11/07/2011
Selenium	EPA 200.7	< 0.010 mg/L	11/07/2011
Silver	EPA 200.7	< 0.010 mg/L	11/07/2011
Cadmium	EPA 200.8	<0.001 mg/L	12/13/2011
Mercury	EPA 245.1	<0.0002 mg/L	11/11/2011
1,1,1,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,1-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromo-3-Chloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromoethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3,5-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Quible & Associates
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Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

1,3-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,4-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chloroethylvinyl ether	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
4-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Benzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromodichloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromoform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Carbon tetrachloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,3-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dichlorodifluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Ethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Hexachlorobutadiene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Isopropylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
M+P Xylene	SW 846 method 8260B/5030B	< 1.00 µg/L	11/11/2011
Methylene chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Naphthalene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Propylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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NCDENR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

Quible & Associates
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Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

ortho-Xylene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
p-Isopropyltoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
sec-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Styrene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
tert-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Tetrachloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Toluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,3-dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichlorofluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Vinyl chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

Lab ID	Sample ID: MW-7	Collect Date/Time	Matrix	Sampled by
11-30036	Site:	11/3/2011 11:47 AM	Water	B. Rubino, W. Eadus

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	< 0.010 mg/L	11/07/2011
Barium	EPA 200.7	0.105 mg/L	11/07/2011
Chromium	EPA 200.7	< 0.010 mg/L	11/07/2011
Lead	EPA 200.7	< 0.010 mg/L	11/07/2011
Manganese	EPA 200.7	0.315 mg/L	11/08/2011
Selenium	EPA 200.7	< 0.010 mg/L	11/07/2011
Silver	EPA 200.7	< 0.010 mg/L	11/07/2011
Cadmium	EPA 200.8	<0.001 mg/L	12/13/2011
Mercury	EPA 245.1	<0.0002 mg/L	11/11/2011
1,1,1,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,1-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromo-3-Chloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromoethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3,5-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

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Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

1,3-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,4-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chloroethylvinyl ether	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
4-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Benzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromodichloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromoform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Carbon tetrachloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,3-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dichlorodifluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Ethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Hexachlorobutadiene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Isopropylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
M+P Xylene	SW 846 method 8260B/5030B	< 1.00 µg/L	11/11/2011
Methylene chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Naphthalene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Propylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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NCDENR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

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Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

ortho-Xylene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
p-Isopropyltoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
sec-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Styrene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
tert-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Tetrachloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Toluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,3-dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichlorofluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Vinyl chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

Lab ID	Sample ID: MW-8	Collect Date/Time	Matrix	Sampled by
11-30037	Site:	11/3/2011 12:01 PM	Water	B. Rubino, W. Eadus

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	< 0.010 mg/L	11/07/2011
Barium	EPA 200.7	0.024 mg/L	11/07/2011
Chromium	EPA 200.7	< 0.010 mg/L	11/07/2011
Lead	EPA 200.7	< 0.010 mg/L	11/07/2011
Manganese	EPA 200.7	0.044 mg/L	11/07/2011
Selenium	EPA 200.7	< 0.010 mg/L	11/07/2011
Silver	EPA 200.7	< 0.010 mg/L	11/07/2011
Cadmium	EPA 200.8	<0.001 mg/L	12/13/2011
Mercury	EPA 245.1	<0.0002 mg/L	11/11/2011
1,1,1,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,1-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2,2-Tetrachloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1,2-Trichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,1-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,3-Trichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2,4-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromo-3-Chloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dibromoethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3,5-Trimethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,3-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)
710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

ANALYTICAL & CONSULTING CHEMISTS

NCDENR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

1,3-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
1,4-Dichlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2,2-Dichloropropane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chloroethylvinyl ether	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
2-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
4-Chlorotoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Benzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromodichloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromoform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Bromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Carbon tetrachloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chlorobenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloroform	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Chloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
cis-1,3-Dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromochloromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dibromomethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Dichlorodifluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Ethylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Hexachlorobutadiene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Isopropylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
M+P Xylene	SW 846 method 8260B/5030B	< 1.00 µg/L	11/11/2011
Methylene chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Naphthalene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
n-Propylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

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ANALYTICAL & CONSULTING CHEMISTS

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Quible & Associates
Post Office Box 870
Kitty Hawk NC 27949
Attention: Warren Eadus

Date of Report: Dec 20, 2011
Customer PO #:
Report #: 2011-11578
Report to: Warren Eadus
Project ID: RJR Avoca Landfill

ortho-Xylene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
p-Isopropyltoluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
sec-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Styrene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
tert-Butylbenzene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Tetrachloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Toluene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,2-Dichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trans-1,3-dichloropropene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichloroethene	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Trichlorofluoromethane	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011
Vinyl chloride	SW 846 method 8260B/5030B	< 0.50 µg/L	11/11/2011

Comment:
Reviewed by: _____

Analytical & Consulting Chemists

ENVIRONMENTAL CHEMISTS, INC

NCDENR: DWQ CERTIFICATION # 94 NCDHHS: DLS CERTIFICATION # 37729

6602 Windmill Way Wilmington, NC 28405
OFFICE: 910-392-0223 FAX 910-392-4424

COLLECTION AND CHAIN OF CUSTODY

CLIENT: Quible and Associates, PC	PROJECT NAME: RJR Avoca Landfill	REPORT NO:
ADDRESS: 8 Juniper Trail	CONTACT NAME:	PO NO: 11-11578
Kitty Hawk, NC 27949	REPORT TO: Warren Eadus, PG	PHONE/FAX:
	COPY TO:	email: weadus@quible.com

Sampled By: BRUNO, WEADUS

SAMPLE TYPE: I = Influent, E = Effluent, W = Well, ST = Stream, SO = Soil, SL = Sludge, Other:

Sample Identification	Collection Date	Collection Time	Collection Temp	Sample Type	Composite or Grab	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	PRESERVATION NONE	HCL	H2SO4	HNO3	NAOH	THIO	OTHER	ANALYSIS REQUESTED
MW 1	11/3/11	1130		W	C	P		30030		3		1				8RCRA+Mn 8260B
					G	G										
MW 2	11/3/11	1140		W	C	P		30031								8RCRA+Mn 8260B
					G	G										
MW 3	11/3/11	1155		W	C	P		30032								8RCRA+Mn 8260B
					G	G										
MW 4	11/3/11	1208		W	C	P		30033								8RCRA+Mn 8260B
					G	G										
MW 5	11/3/11	1216		W	C	P		30034								8RCRA+Mn 8260B
					G	G										
MW 6	11/3/11	1223		W	C	P		30035								8RCRA+Mn 8260B
					G	G										
MW 7	11/3/11	1147		W	C	P		30036								8RCRA+Mn 8260B
					G	G										
MW 8	11/3/11	1201		W	C	P		30037								8RCRA+Mn 8260B
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										

NOTICE - DECHLORINATION: Samples for Ammonia, TKN, Cyanide, Phenol and Bacteria must be dechlorinated (0.2 ppm or less) in the field at the time of collection. See reverse for Instructions

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1.		11/3/2011		
2.		11/3/11 4:30		11/3/2011 3:55

Temperature when Received: 5.1° Accepted: Rejected:

Delivered By: Received By: Resample Requested:

Comments: Date: 11/4/11 Time: 1100

TURNAROUND: