November 5, 2008

Ms. Jaclynne Drummond
Division of Waste Management - Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Semi-Annual Groundwater Monitoring Event (October 2008)
Lee County Landfill - Sanford, NC
NCDWM-Solid Waste Section Permit # 53-01
Terraquest Project No. 02296

Dear Ms. Drummond:

On behalf of the Lee County Department of Public Works, Terraquest Environmental Consultants, P.C. is reporting the results of a biannual ground and surface water sampling event that took place at the Lee County Landfill in Sanford, NC on October 21, 2008. In accordance with the NCDWM-SW's reporting requirements, a Solid Waste Section Environmental Monitoring Reporting Form is attached. The data from the event including analytical results, groundwater elevations, and field measured groundwater parameter data is summarized on the attached Table 1. The location of the site is shown on Figure 1, the vicinity of the site on Figure 2, and site's layout on Figure 3. Figure 4 presents the recent potentiometric surface. The full analytical report is also attached. The following summarizes the event:

On October 21, 2008, Terraquest personnel sampled monitoring wells MW5, MW6, MW9, MW12, MW13, and MW14, and collected one surface water sample, SW2. All of the water samples were analyzed per EPA Methods 8260A Appendix I and 8 RCRA Metals. All water samples were collected following technical methods and standard procedures as outlined on the enclosed sheets. Terraquest personnel also collected dissolved oxygen, pH, temperature, and conductivity measurements from each of the sampled monitoring wells following purging of the well. These measurements are listed on the attached Table 1.

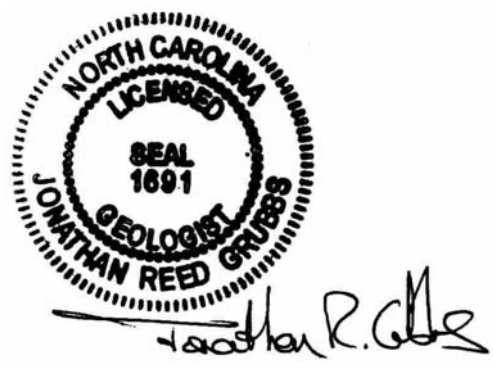
The analytical results revealed detectable concentrations of petroleum-type compounds by the 8260A Appendix I sampling method in monitoring well MW12 only. Benzene, was reported at a concentration in excess of the standard set forth under Title 15A of the North Carolina Administrative Code Subchapter 2L .0202(g). Results of the 8 RCRA Metals analysis indicate that all of the monitoring wells and the surface water sample had a detection of at least one metal. The analytical results are summarized in Table 1.

A potentiometric surface map (Figure 4) depicting an interpreted groundwater flow direction at the site as measured on October 21, 2008 is attached. Based upon the water levels in the monitoring wells, the groundwater flow direction is to the southeast toward Mare Branch Creek. This flow direction conforms with historical flow directions. Table 1 lists the groundwater elevations for the monitoring wells.

If you have any questions regarding the sampling event or analytical report, please contact Ryan Kerins at (919) 563-9091 or Mr. Joseph Cherry of the Lee County Public Works Department at (919) 774-8440. Thank you.

Sincerely,

TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.



Ryan D. Kerins
Project Manager

Jonathan R. Grubbs, P.G.
Vice President

Attachments: Solid Waste Section Environmental Monitoring Reporting Form
Table 1 – Groundwater Data 4/9/08
Figure 1 – Site Location Map
Figure 2 – Site Vicinity Map
Figure 3 – Site Layout Map
Figure 4 – Potentiometric Surface Map (10/21/08)
Analytical Report
Technical Methods/Standard Procedures

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).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

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

TerraQuest Environmental Consultants, P.C.

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

Name: Ryan Kerins Phone: (919) 563-9091

E-mail: rdkerins@terraquestpc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Lee County Landfill	331 Landfill Rd, Sanford, NC 27332	53-01	.1600	October 21, 2008

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.

Ryan Kerins	Project Manager	(919) 563-9091
Facility Representative Name (Print)	Title	(Area Code) Telephone Number
Signature	11/5/08 Date	Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1691 GEOLOGIST JONATHAN REED GRUBBS

Revised 01/2007

Table 1 GROUNDWATER DATA 10/21/08

Date: 11/5/08 Facility Name: Lee County Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE*	ANALYSIS DATE
53-01	MW4	SW328	328	Top Of Casing	345.9	feet					
53-01	MW4	SW318	318	Depth To Water	10.76	feet			10/21/2008		
53-01	MW4		427	Groundwater Elevation	335.1	feet					
53-01	MW5	SW328	328	Top Of Casing	351.1	feet			10/21/2008		
53-01	MW5	SW318	318	Depth To Water	6.53	feet			10/21/2008		
53-01	MW5		427	Groundwater Elevation	344.6	feet			10/21/2008		
53-01	MW5	SW320	320	pH (field)	6.32				10/21/2008		
53-01	MW5	SW356	356	Dissolved Oxygen	1.90	mg/L			10/21/2008		
53-01	MW5	SW325	325	Temperature	18.4	deg. C			10/21/2008		
53-01	MW5	SW324	324	Conductivity	122	microS/sec			10/21/2008		
53-01	MW5	71-43-2	16	Benzene	0.29	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW5	108-88-3	196	Toluene	0.27	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW5	100-41-4	110	Ethylbenzene	0.22	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW5	1330-20-7	346	Total Xylenes	0.86	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW5	7439-97-6	132	Mercury	0.044	ug/L	U	1	10/21/2008	*	10/29/2008
53-01	MW5	7440-38-2	14	Arsenic	7.0	ug/L	J	1	10/21/2008	*	10/27/2008
53-01	MW5	7440-39-3	15	Barium	270	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW5	7440-43-9	34	Cadmium	1.40	ug/L	J	1	10/21/2008	*	10/27/2008
53-01	MW5	7440-47-3	51	Chromium	2.0	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW5	7439-92-1	131	Lead	15.0	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW5	7782-49-2	183	Selenium	6.5	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW5	7440-22-4	184	Silver	3.2	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW6	SW328	328	Top Of Casing	402.1	feet			10/21/2008		
53-01	MW6	SW318	318	Depth To Water	8.11	feet			10/21/2008		
53-01	MW6		427	Groundwater Elevation	394.0	feet			10/21/2008		
53-01	MW6	SW320	320	pH (field)	4.69				10/21/2008		
53-01	MW6	SW356	356	Dissolved Oxygen	2.29	mg/L			10/21/2008		
53-01	MW6	SW325	325	Temperature	20.3	deg. C			10/21/2008		
53-01	MW6	SW324	324	Conductivity	22	microS/sec			10/21/2008		
53-01	MW6	71-43-2	16	Benzene	0.29	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW6	108-88-3	196	Toluene	0.27	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW6	100-41-4	110	Ethylbenzene	0.22	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW6	1330-20-7	346	Total Xylenes	0.86	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW6	7439-97-6	132	Mercury	0.044	ug/L	U	1	10/21/2008	*	10/29/2008
53-01	MW6	7440-38-2	14	Arsenic	8.9	ug/L	J	1	10/21/2008	*	10/27/2008
53-01	MW6	7440-39-3	15	Barium	63	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW6	7440-43-9	34	Cadmium	0.74	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW6	7440-47-3	51	Chromium	2.0	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW6	7439-92-1	131	Lead	1.9	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW6	7782-49-2	183	Selenium	6.5	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW6	7440-22-4	184	Silver	3.2	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW7	SW328	328	Top Of Casing	360.3	feet					
53-01	MW7	SW318	318	Depth To Water	9.26	feet			10/21/2008		
53-01	MW7		427	Groundwater Elevation	351.0	feet					

Note:

1. * Technically, this sample set didn't have any extractions. The metals were prepped and digested. The volatiles aren't involved in any extraction process. They are loaded directly onto the instrument.

Table 1 (continued) GROUNDWATER DATA 10/21/08
Date: 11/5/08 Facility Name: Lee County Landfill

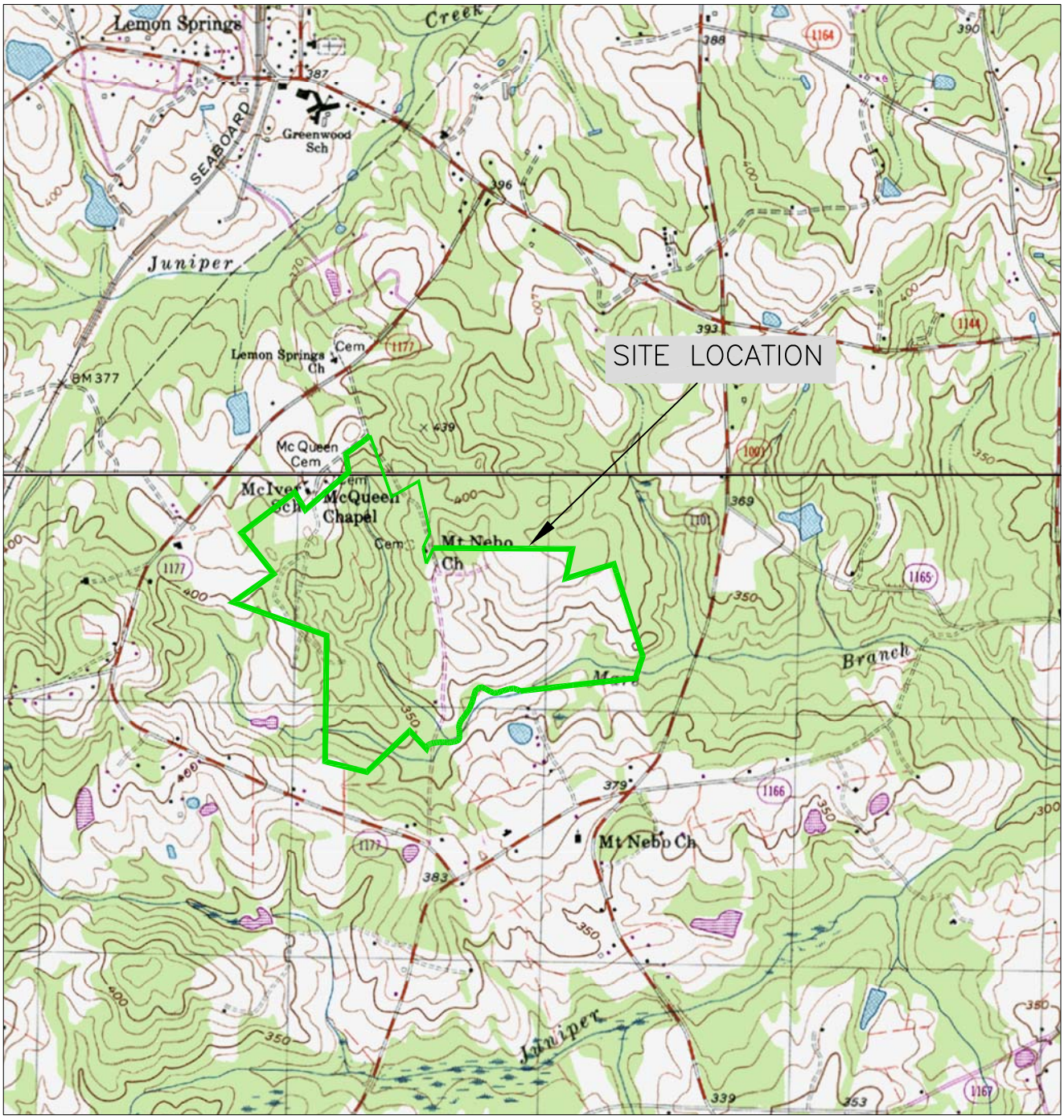
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE*	ANALYSIS DATE
53-01	MW9	SW328	328	Top Of Casing	384.2	feet			10/21/2008		
53-01	MW9	SW318	318	Depth To Water	7.46	feet			10/21/2008		
53-01	MW9		427	Groundwater Elevation	376.7	feet			10/21/2008		
53-01	MW9	SW320	320	pH (field)	4.41				10/21/2008		
53-01	MW9	SW356	356	Dissolved Oxygen	4.56	mg/L			10/21/2008		
53-01	MW9	SW325	325	Temperature	19.2	deg. C			10/21/2008		
53-01	MW9	SW324	324	Conductivity	38	microS/sec			10/21/2008		
53-01	MW9	71-43-2	16	Benzene	0.29	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW9	108-88-3	196	Toluene	0.27	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW9	100-41-4	110	Ethylbenzene	0.22	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW9	1330-20-7	346	Total Xylenes	0.86	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW9	7439-97-6	132	Mercury	0.044	ug/L	U	1	10/21/2008	*	10/29/2008
53-01	MW9	7440-38-2	14	Arsenic	5.4	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW9	7440-39-3	15	Barium	82.0	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW9	7440-43-9	34	Cadmium	0.74	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW9	7440-47-3	51	Chromium	2.0	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW9	7439-92-1	131	Lead	1.9	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW9	7782-49-2	183	Selenium	6.5	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW9	7440-22-4	184	Silver	3.2	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW10	SW328	328	Top Of Casing	377.0	feet					
53-01	MW10	SW318	318	Depth To Water	7.67	feet			10/21/2008		
53-01	MW10		427	Groundwater Elevation	369.3	feet					
53-01	MW11	SW328	328	Top Of Casing	399.6	feet					
53-01	MW11	SW318	318	Depth To Water	10.32	feet			10/21/2008		
53-01	MW11		427	Groundwater Elevation	389.3	feet					
53-01	MW12	SW328	328	Top Of Casing	337.4	feet			10/21/2008		
53-01	MW12	SW318	318	Depth To Water	3.82	feet			10/21/2008		
53-01	MW12		427	Groundwater Elevation	333.6	feet			10/21/2008		
53-01	MW12	SW320	320	pH (field)	6.04				10/21/2008		
53-01	MW12	SW356	356	Dissolved Oxygen	0.98	mg/L			10/21/2008		
53-01	MW12	SW325	325	Temperature	19.4	deg. C			10/21/2008		
53-01	MW12	SW324	324	Conductivity	1,727	microS/sec			10/21/2008		
53-01	MW12	71-43-2	16	Benzene	3.0	ug/L			10/21/2008	*	10/24/2008
53-01	MW12	108-88-3	196	Toluene	0.36	ug/L	J	1	10/21/2008	*	10/24/2008
53-01	MW12	100-41-4	110	Ethylbenzene	0.22	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW12	1330-20-7	346	Total Xylenes	0.9	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW12	108-90-7	39	Chlorobenzene	15	ug/L		1	10/21/2008	*	10/24/2008
53-01	MW12	75-00-3	41	Chloroethane	66	ug/L		1	10/21/2008	*	10/24/2008
53-01	MW12	95-50-1	69	1,2-Dichlorobenzene	0.34	ug/L	J	1	10/21/2008	*	10/24/2008
53-01	MW12	106-46-7	71	1,4-Dichlorobenzene	3.2	ug/L		1	10/21/2008	*	10/24/2008
53-01	MW12	75-34-3	75	1,1-Dichloroethane	7	ug/L		1	10/21/2008	*	10/24/2008
53-01	MW12	98-82-8	367	Isopropylbenzene	0.96	ug/L	J	1	10/21/2008	*	10/24/2008
53-01	MW12	75-09-2	140	Methylene Chloride	0.47	ug/L	J	1	10/21/2008	*	10/24/2008
53-01	MW12			2-Chlorotoluene	0.41	ug/L	J	1	10/21/2008	*	10/24/2008
53-01	MW12	7439-97-6	132	Mercury	0.044	ug/L	U	1	10/21/2008	*	10/29/2008
53-01	MW12	7440-38-2	14	Arsenic	6.3	ug/L	J	1	10/21/2008	*	10/27/2008
53-01	MW12	7440-39-3	15	Barium	1,600	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW12	7440-43-9	34	Cadmium	5.5	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW12	7440-47-3	51	Chromium	2.0	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW12	7439-92-1	131	Lead	47	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW12	7782-49-2	183	Selenium	6.5	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW12	7440-22-4	184	Silver	3.2	ug/L	U	1	10/21/2008	*	10/27/2008

Note:
1. * Technically, this sample set didn't have any extractions. The metals were prepped and digested. The volatiles aren't involved in any extraction process. They are loaded directly onto the instrument.

Table 1 (continued) GROUNDWATER DATA 10/21/08
Date: 11/5/08 Facility Name: Lee County Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE*	ANALYSIS DATE
53-01	MW13	SW328	328	Top Of Casing	363.93	feet			10/21/2008		
53-01	MW13	SW318	318	Depth To Water	9.03	feet			10/21/2008		
53-01	MW13		427	Groundwater Elevation	354.9	feet			10/21/2008		
53-01	MW13	SW320	320	pH (field)	5.08				10/21/2008		
53-01	MW13	SW356	356	Dissolved Oxygen	1.47	mg/L			10/21/2008		
53-01	MW13	SW325	325	Temperature	18.3	deg. C			10/21/2008		
53-01	MW13	SW324	324	Conductivity	41	microS/sec			10/21/2008		
53-01	MW13	71-43-2	16	Benzene	0.29	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW13	108-88-3	196	Toluene	0.27	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW13	100-41-4	110	Ethylbenzene	0.22	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW13	1330-20-7	346	Total Xylenes	0.86	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW13	7439-97-6	132	Mercury	0.044	ug/L	U	1	10/21/2008	*	10/29/2008
53-01	MW13	7440-38-2	14	Arsenic	10.0	ug/L	J	1	10/21/2008	*	10/27/2008
53-01	MW13	7440-39-3	15	Barium	170	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW13	7440-43-9	34	Cadmium	0.74	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW13	7440-47-3	51	Chromium	4.7	ug/L	J	1	10/21/2008	*	10/27/2008
53-01	MW13	7439-92-1	131	Lead	4.3	ug/L	J	1	10/21/2008	*	10/27/2008
53-01	MW13	7782-49-2	183	Selenium	6.5	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW13	7440-22-4	184	Silver	3.2	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW14	SW328	328	Top Of Casing	358.61	feet			10/21/2008		
53-01	MW14	SW318	318	Depth To Water	6.51	feet			10/21/2008		
53-01	MW14		427	Groundwater Elevation	352.1	feet			10/21/2008		
53-01	MW14	SW320	320	pH (field)	5.51				10/21/2008		
53-01	MW14	SW356	356	Dissolved Oxygen	2.07	mg/L			10/21/2008		
53-01	MW14	SW325	325	Temperature	17.8	deg. C			10/21/2008		
53-01	MW14	SW324	324	Conductivity	68	microS/sec			10/21/2008		
53-01	MW14	71-43-2	16	Benzene	0.29	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW14	108-88-3	196	Toluene	0.27	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW14	100-41-4	110	Ethylbenzene	0.22	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW14	1330-20-7	346	Total Xylenes	0.86	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	MW14	7439-97-6	132	Mercury	0.044	ug/L	U	1	10/21/2008	*	10/29/2008
53-01	MW14	7440-38-2	14	Arsenic	5.5	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW14	7440-39-3	15	Barium	190	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW14	7440-43-9	34	Cadmium	1.60	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW14	7440-47-3	51	Chromium	18.0	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW14	7439-92-1	131	Lead	85	ug/L		1	10/21/2008	*	10/27/2008
53-01	MW14	7782-49-2	183	Selenium	6.5	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	MW14	7440-22-4	184	Silver	3.2	ug/L	U	1	10/21/2008	*	10/27/2008
53-01	SW2	71-43-2	16	Benzene	0.29	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	SW2	108-88-3	196	Toluene	0.27	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	SW2	100-41-4	110	Ethylbenzene	0.22	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	SW2	1330-20-7	346	Total Xylenes	0.86	ug/L	U	1	10/21/2008	*	10/24/2008
53-01	SW2	7439-97-6	132	Mercury	0.044	ug/L	U	1	10/27/2008	*	10/29/2008
53-01	SW2	7440-38-2	14	Arsenic	7.6	ug/L	J	1	10/27/2008	*	10/27/2008
53-01	SW2	7440-39-3	15	Barium	59	ug/L		1	10/27/2008	*	10/27/2008
53-01	SW2	7440-43-9	34	Cadmium	0.74	ug/L	U	1	10/27/2008	*	10/27/2008
53-01	SW2	7440-47-3	51	Chromium	2.0	ug/L	U	1	10/27/2008	*	10/27/2008
53-01	SW2	7439-92-1	131	Lead	1.9	ug/L	U	1	10/27/2008	*	10/27/2008
53-01	SW2	7782-49-2	183	Selenium	6.5	ug/L	U	1	10/27/2008	*	10/27/2008
53-01	SW2	7440-22-4	184	Silver	3.2	ug/L	U	1	10/27/2008	*	10/27/2008

Note:
1. * Technically, this sample set didn't have any extractions. The metals were prepped and digested. The volatiles aren't involved in any extraction process. They are loaded directly onto the instrument.



N

MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHICS – SANFORD AND MURCHISONTOWN, NC

GRAPHIC SCALE

0' 2000' 4000'

TERRAquest

ENVIRONMENTAL CONSULTANTS, P.C.

SITE LOCATION MAP

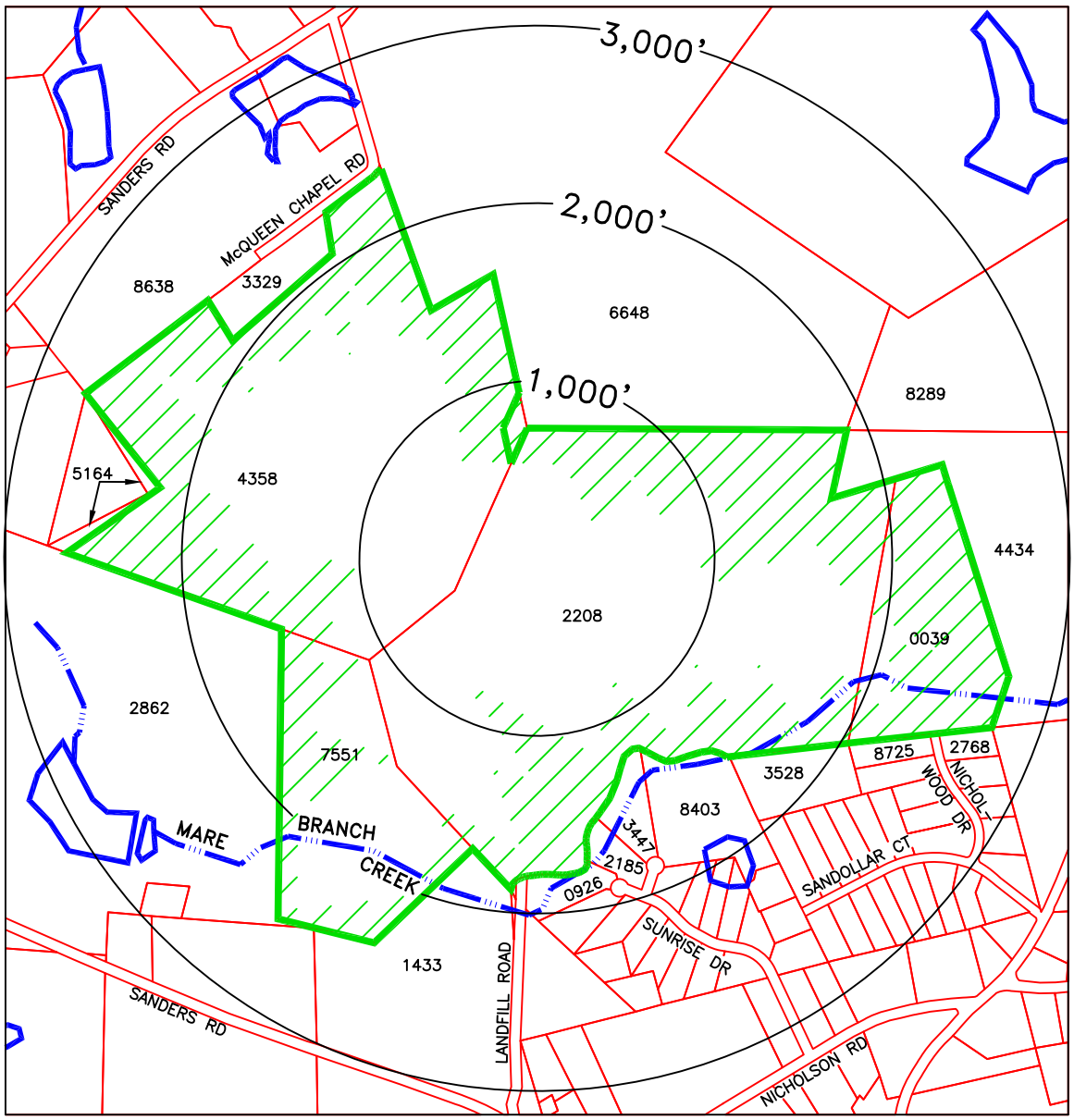
LEE COUNTY LANDFILL

331 LANDFILL ROAD

LEE COUNTY, NORTH CAROLINA

LEE COUNTY PUBLIC WORKS SANFORD, NC

PROJECT NO.	02296	DRAWN BY:	RDK	DATE:	11/5/08
SCALE:	1" = 2000'	CHECKED BY:	JRG/MJB	FIGURE NO.	1



LEGEND

LANDFILL PROPERTY BOUNDARY

PARCEL BOUNDARIES

DISTANCE FROM LANDFILL CENTER

SURFACE WATER BODY

2106 TAX PARCEL ID (SEE TABLE 1)

GRAPHIC SCALE (1" = 1,000')

0' 500' 1,000' 2,000'

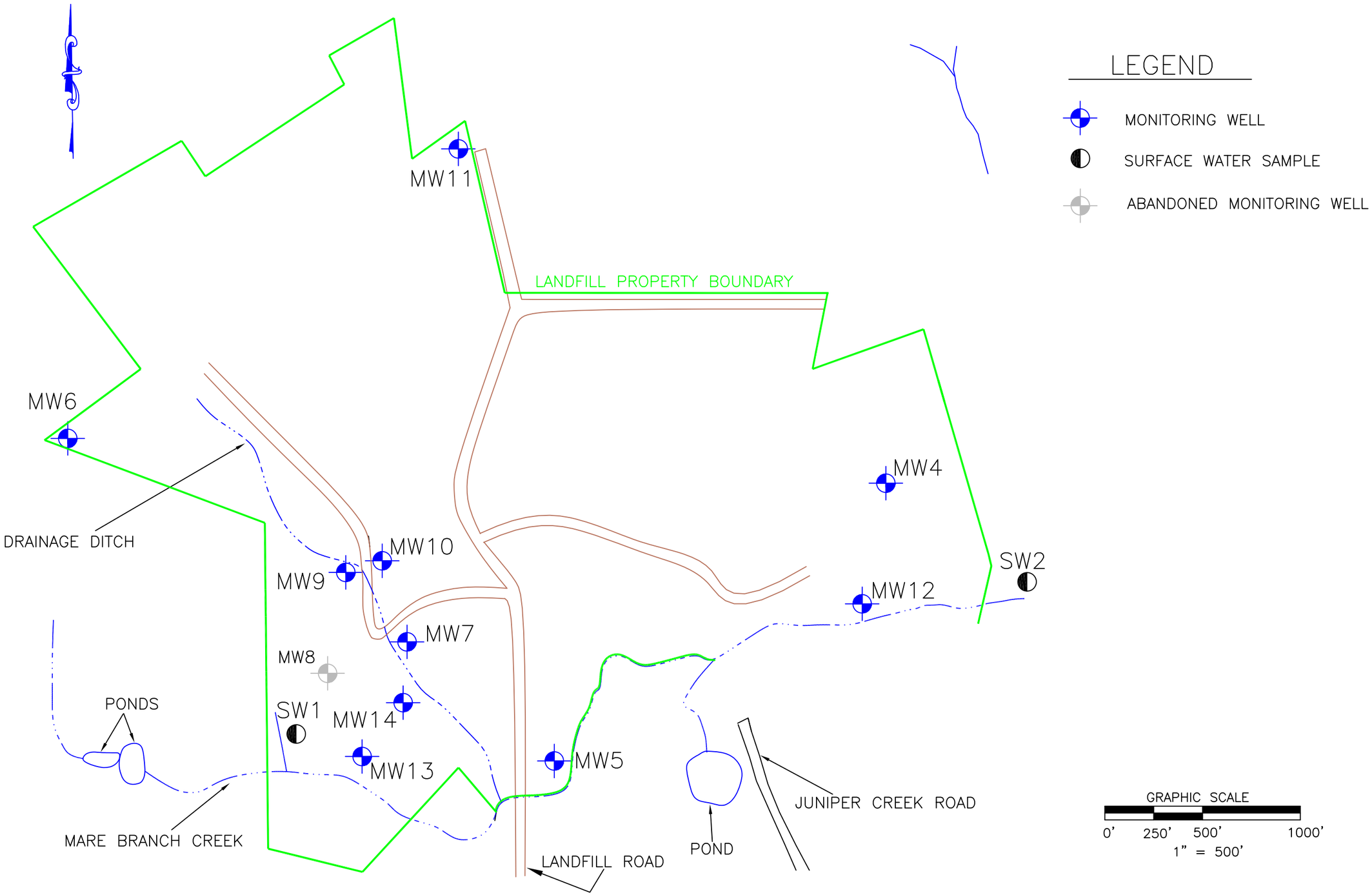
(NOTE: MAP ADAPTED FROM INFORMATION PROVIDED BY THE LEE COUNTY DEPARTMENT OF STRATEGIC SERVICES)

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.

SITE VICINITY MAP
LEE COUNTY LANDFILL
331 LANDFILL ROAD
SANFORD, LEE COUNTY, NC 27332

LKEE COUNTY PUBLIC WORKS — SANFORD, NC

PROJECT NO.	02296	DRAWN BY:	RDK	DATE:	11/5/08
SCALE:	1" = 1,000'	CHECKED BY:	MJB	FIGURE NO.	2

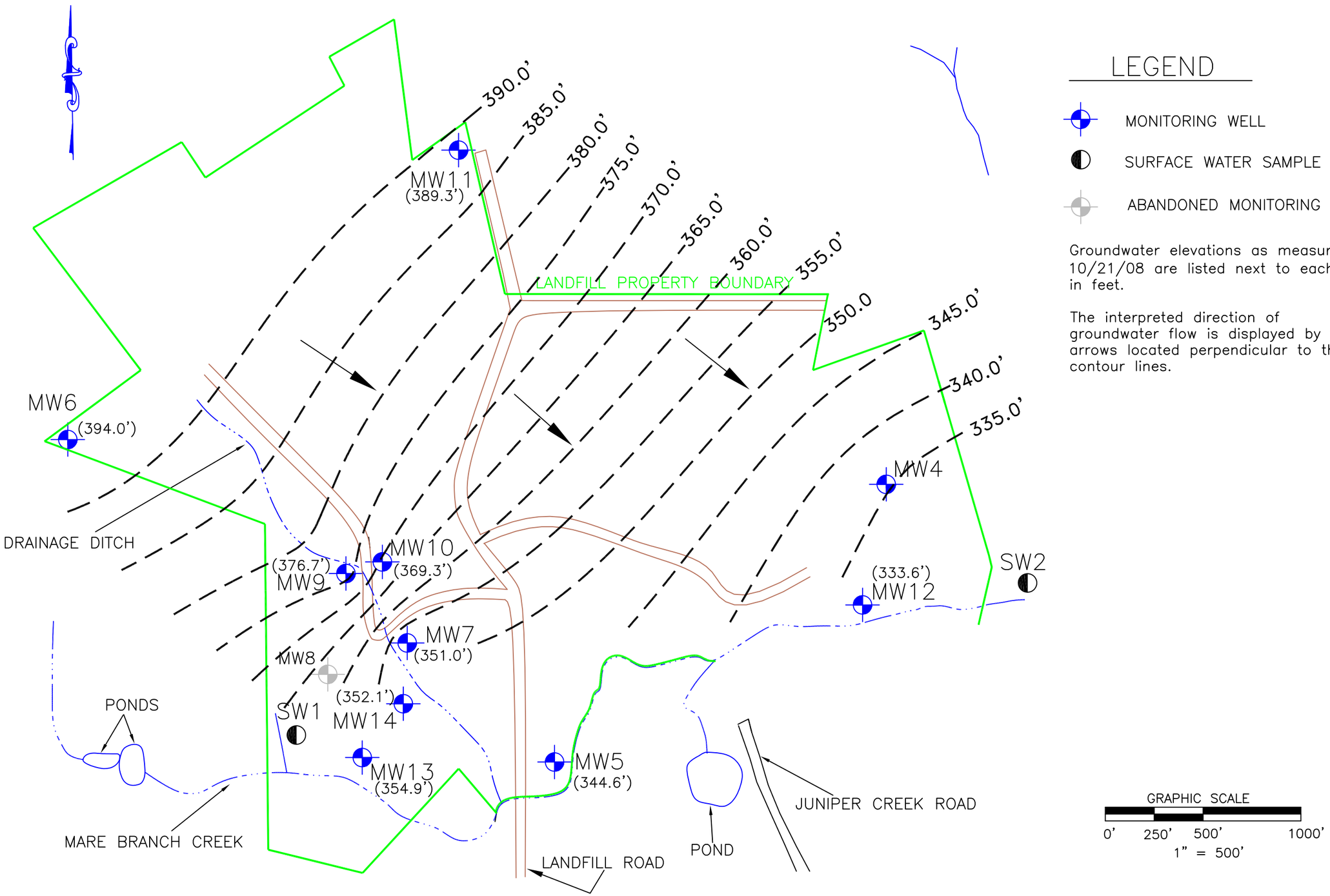


SITE LAYOUT MAP
LEE COUNTY LANDFILL

LEE COUNTY PUBLIC WORKS DEPARTMENT SANFORD, NC

PROJECT NO: 02296	CHECKED BY: MJB/JRG	FIGURE NO. 3	
SCALE: 1" = 500'	DRAWN BY: JRG/RDK	DATE: 11/5/08	

TERRAquest
ENVIRONMENTAL CONSULTANTS, P.C.



LEGEND

- MONITORING WELL
- SURFACE WATER SAMPLE
- ABANDONED MONITORING WELL

Groundwater elevations as measured on 10/21/08 are listed next to each well in feet.

The interpreted direction of groundwater flow is displayed by the arrows located perpendicular to the contour lines.

POTENTIOMETRIC SURFACE MAP (10/21/08)

LEE COUNTY LANDFILL

LEE COUNTY PUBLIC WORKS DEPARTMENT — SANFORD, NC

PROJECT NO: 02296	CHECKED BY: MJB/JRG	FIGURE NO.	4
SCALE: 1" = 500'	DRAWN BY: JRG/RDK	DATE:	11/5/08

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Tax I.D. 62-0814289

Est. 1970

Mr. Ryan Kerins
TerraQuest Environmental Consultants PC
100 East Ruffin Street

Mebane, NC 27302

Report Summary

Tuesday November 04, 2008

Report Number: L371349
Samples Received: 10/23/08
Client Project: 02296

Description: Lee County Landfill

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

7 Samples Reported: 11/04/08 12:07 Printed: 11/04/08 13:56

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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-01

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-5

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 15:35

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Mercury	U	0.044	0.20	ug/l	7470A	10/29/08	1	.2
Arsenic	7.0	5.4	20.	ug/l	6010B	10/27/08	1	10
Barium	270	1.1	5.0	ug/l	6010B	10/27/08	1	100
Cadmium	1.4	0.74	5.0	ug/l	6010B	10/27/08	1	1
Chromium	U	2.0	10.	ug/l	6010B	10/27/08	1	10
Lead	15.	1.9	5.0	ug/l	6010B	10/27/08	1	5
Selenium	U	6.5	20.	ug/l	6010B	10/27/08	1	10
Silver	U	3.2	10.	ug/l	6010B	10/27/08	1	10
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	10/24/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	10/24/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	10/24/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Bromobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	10/24/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	10/24/08	1	10
n-Butylbenzene	U	0.23	1.0	ug/l	8260B	10/24/08	1	
sec-Butylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
tert-Butylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	10/24/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	10/24/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	10/24/08	1	10
2-Chloroethyl vinyl ether	U	1.4	50.	ug/l	8260B	10/24/08	1	
Chloroform	U	0.33	5.0	ug/l	8260B	10/24/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	10/24/08	1	1
2-Chlorotoluene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
4-Chlorotoluene	U	0.16	1.0	ug/l	8260B	10/24/08	1	
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	10/24/08	1	13
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	10/24/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	10/24/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	10/24/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	10/24/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	10/24/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	10/24/08	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-01

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-5

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 15:35

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	10/24/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	10/24/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	10/24/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	10/24/08	1	15
Di-isopropyl ether	U	0.25	1.0	ug/l	8260B	10/24/08	1	
Ethylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Hexachloro-1,3-butadiene	U	0.49	1.0	ug/l	8260B	10/24/08	1	10
Isopropylbenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
p-Isopropyltoluene	U	0.21	1.0	ug/l	8260B	10/24/08	1	
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	10/24/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	10/24/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	10/24/08	1	100
Methyl tert-butyl ether	U	0.19	1.0	ug/l	8260B	10/24/08	1	
Naphthalene	U	0.17	5.0	ug/l	8260B	10/24/08	1	10
n-Propylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
Styrene	U	0.38	1.0	ug/l	8260B	10/24/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	10/24/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichlorobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	10/24/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	10/24/08	1	1
1,2,4-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
1,3,5-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Vinyl chloride	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	10/24/08	1	4
Surrogate Recovery								
Toluene-d8	95.4			% Rec.	8260B	10/24/08	1	
Dibromofluoromethane	98.0			% Rec.	8260B	10/24/08	1	
4-Bromofluorobenzene	91.9			% Rec.	8260B	10/24/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-02

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-6

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 12:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Mercury	U	0.044	0.20	ug/l	7470A	10/29/08	1	.2
Arsenic	8.9	5.4	20.	ug/l	6010B	10/27/08	1	10
Barium	63.	1.1	5.0	ug/l	6010B	10/27/08	1	100
Cadmium	U	0.74	5.0	ug/l	6010B	10/27/08	1	1
Chromium	U	2.0	10.	ug/l	6010B	10/27/08	1	10
Lead	U	1.9	5.0	ug/l	6010B	10/27/08	1	5
Selenium	U	6.5	20.	ug/l	6010B	10/27/08	1	10
Silver	U	3.2	10.	ug/l	6010B	10/27/08	1	10
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	10/24/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	10/24/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	10/24/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Bromobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	10/24/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	10/24/08	1	10
n-Butylbenzene	U	0.23	1.0	ug/l	8260B	10/24/08	1	
sec-Butylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
tert-Butylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	10/24/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	10/24/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	10/24/08	1	10
2-Chloroethyl vinyl ether	U	1.4	50.	ug/l	8260B	10/24/08	1	
Chloroform	U	0.33	5.0	ug/l	8260B	10/24/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	10/24/08	1	1
2-Chlorotoluene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
4-Chlorotoluene	U	0.16	1.0	ug/l	8260B	10/24/08	1	
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	10/24/08	1	13
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	10/24/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	10/24/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	10/24/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	10/24/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	10/24/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	10/24/08	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-02

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-6

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 12:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	10/24/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	10/24/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	10/24/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	10/24/08	1	15
Di-isopropyl ether	U	0.25	1.0	ug/l	8260B	10/24/08	1	
Ethylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Hexachloro-1,3-butadiene	U	0.49	1.0	ug/l	8260B	10/24/08	1	10
Isopropylbenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
p-Isopropyltoluene	U	0.21	1.0	ug/l	8260B	10/24/08	1	
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	10/24/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	10/24/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	10/24/08	1	100
Methyl tert-butyl ether	U	0.19	1.0	ug/l	8260B	10/24/08	1	
Naphthalene	U	0.17	5.0	ug/l	8260B	10/24/08	1	10
n-Propylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
Styrene	U	0.38	1.0	ug/l	8260B	10/24/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	10/24/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichlorobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	10/24/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	10/24/08	1	1
1,2,4-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
1,3,5-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Vinyl chloride	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	10/24/08	1	4
Surrogate Recovery								
Toluene-d8	94.4			% Rec.	8260B	10/24/08	1	
Dibromofluoromethane	97.4			% Rec.	8260B	10/24/08	1	
4-Bromofluorobenzene	93.5			% Rec.	8260B	10/24/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-03

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-9

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 11:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Mercury	U	0.044	0.20	ug/l	7470A	10/29/08	1	.2
Arsenic	U	5.4	20.	ug/l	6010B	10/27/08	1	10
Barium	82.	1.1	5.0	ug/l	6010B	10/27/08	1	100
Cadmium	U	0.74	5.0	ug/l	6010B	10/27/08	1	1
Chromium	U	2.0	10.	ug/l	6010B	10/27/08	1	10
Lead	U	1.9	5.0	ug/l	6010B	10/27/08	1	5
Selenium	U	6.5	20.	ug/l	6010B	10/27/08	1	10
Silver	U	3.2	10.	ug/l	6010B	10/27/08	1	10
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	10/24/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	10/24/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	10/24/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Bromobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	10/24/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	10/24/08	1	10
n-Butylbenzene	U	0.23	1.0	ug/l	8260B	10/24/08	1	
sec-Butylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
tert-Butylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	10/24/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	10/24/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	10/24/08	1	10
2-Chloroethyl vinyl ether	U	1.4	50.	ug/l	8260B	10/24/08	1	
Chloroform	U	0.33	5.0	ug/l	8260B	10/24/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	10/24/08	1	1
2-Chlorotoluene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
4-Chlorotoluene	U	0.16	1.0	ug/l	8260B	10/24/08	1	
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	10/24/08	1	13
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	10/24/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	10/24/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	10/24/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	10/24/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	10/24/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	10/24/08	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-03

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-9

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 11:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	10/24/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	10/24/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	10/24/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	10/24/08	1	15
Di-isopropyl ether	U	0.25	1.0	ug/l	8260B	10/24/08	1	
Ethylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Hexachloro-1,3-butadiene	U	0.49	1.0	ug/l	8260B	10/24/08	1	10
Isopropylbenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
p-Isopropyltoluene	U	0.21	1.0	ug/l	8260B	10/24/08	1	
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	10/24/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	10/24/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	10/24/08	1	100
Methyl tert-butyl ether	U	0.19	1.0	ug/l	8260B	10/24/08	1	
Naphthalene	U	0.17	5.0	ug/l	8260B	10/24/08	1	10
n-Propylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
Styrene	U	0.38	1.0	ug/l	8260B	10/24/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	10/24/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichlorobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	10/24/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	10/24/08	1	1
1,2,4-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
1,3,5-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Vinyl chloride	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	10/24/08	1	4
Surrogate Recovery								
Toluene-d8	95.3			% Rec.	8260B	10/24/08	1	
Dibromofluoromethane	96.0			% Rec.	8260B	10/24/08	1	
4-Bromofluorobenzene	92.5			% Rec.	8260B	10/24/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-04

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-12

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 14:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Mercury	U	0.044	0.20	ug/l	7470A	10/29/08	1	.2
Arsenic	6.3	5.4	20.	ug/l	6010B	10/27/08	1	10
Barium	1600	1.1	5.0	ug/l	6010B	10/27/08	1	100
Cadmium	5.5	0.74	5.0	ug/l	6010B	10/27/08	1	1
Chromium	U	2.0	10.	ug/l	6010B	10/27/08	1	10
Lead	47.	1.9	5.0	ug/l	6010B	10/27/08	1	5
Selenium	U	6.5	20.	ug/l	6010B	10/27/08	1	10
Silver	U	3.2	10.	ug/l	6010B	10/27/08	1	10
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	10/24/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	10/24/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	10/24/08	1	200
Benzene	3.0	0.29	1.0	ug/l	8260B	10/24/08	1	1
Bromobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	10/24/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	10/24/08	1	10
n-Butylbenzene	U	0.23	1.0	ug/l	8260B	10/24/08	1	
sec-Butylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
tert-Butylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	10/24/08	1	1
Chlorobenzene	15.	0.26	1.0	ug/l	8260B	10/24/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	10/24/08	1	1
Chloroethane	66.	0.86	5.0	ug/l	8260B	10/24/08	1	10
2-Chloroethyl vinyl ether	U	1.4	50.	ug/l	8260B	10/24/08	1	
Chloroform	U	0.33	5.0	ug/l	8260B	10/24/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	10/24/08	1	1
2-Chlorotoluene	0.41	0.22	1.0	ug/l	8260B	10/24/08	1	
4-Chlorotoluene	U	0.16	1.0	ug/l	8260B	10/24/08	1	
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	10/24/08	1	13
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	10/24/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	10/24/08	1	1
1,2-Dichlorobenzene	0.34	0.29	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
1,4-Dichlorobenzene	3.2	0.30	1.0	ug/l	8260B	10/24/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	10/24/08	1	5
1,1-Dichloroethane	7.0	0.31	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	10/24/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	10/24/08	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-04

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-12

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 14:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	10/24/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	10/24/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	10/24/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	10/24/08	1	15
Di-isopropyl ether	U	0.25	1.0	ug/l	8260B	10/24/08	1	
Ethylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Hexachloro-1,3-butadiene	U	0.49	1.0	ug/l	8260B	10/24/08	1	10
Isopropylbenzene	0.96	0.19	1.0	ug/l	8260B	10/24/08	1	
p-Isopropyltoluene	U	0.21	1.0	ug/l	8260B	10/24/08	1	
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	10/24/08	1	10
Methylene Chloride	0.47	0.30	5.0	ug/l	8260B	10/24/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	10/24/08	1	100
Methyl tert-butyl ether	U	0.19	1.0	ug/l	8260B	10/24/08	1	
Naphthalene	U	0.17	5.0	ug/l	8260B	10/24/08	1	10
n-Propylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
Styrene	U	0.38	1.0	ug/l	8260B	10/24/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	10/24/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Toluene	0.36	0.27	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichlorobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	10/24/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	10/24/08	1	1
1,2,4-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
1,3,5-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Vinyl chloride	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	10/24/08	1	4
Surrogate Recovery								
Toluene-d8	96.4			% Rec.	8260B	10/24/08	1	
Dibromofluoromethane	96.9			% Rec.	8260B	10/24/08	1	
4-Bromofluorobenzene	94.6			% Rec.	8260B	10/24/08	1	

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SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-05

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-13

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 11:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Mercury	U	0.044	0.20	ug/l	7470A	10/29/08	1	.2
Arsenic	10.	5.4	20.	ug/l	6010B	10/27/08	1	10
Barium	170	1.1	5.0	ug/l	6010B	10/27/08	1	100
Cadmium	U	0.74	5.0	ug/l	6010B	10/27/08	1	1
Chromium	4.7	2.0	10.	ug/l	6010B	10/27/08	1	10
Lead	4.3	1.9	5.0	ug/l	6010B	10/27/08	1	5
Selenium	U	6.5	20.	ug/l	6010B	10/27/08	1	10
Silver	U	3.2	10.	ug/l	6010B	10/27/08	1	10
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	10/24/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	10/24/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	10/24/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Bromobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	10/24/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	10/24/08	1	10
n-Butylbenzene	U	0.23	1.0	ug/l	8260B	10/24/08	1	
sec-Butylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
tert-Butylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	10/24/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	10/24/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	10/24/08	1	10
2-Chloroethyl vinyl ether	U	1.4	50.	ug/l	8260B	10/24/08	1	
Chloroform	U	0.33	5.0	ug/l	8260B	10/24/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	10/24/08	1	1
2-Chlorotoluene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
4-Chlorotoluene	U	0.16	1.0	ug/l	8260B	10/24/08	1	
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	10/24/08	1	13
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	10/24/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	10/24/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	10/24/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	10/24/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	10/24/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	10/24/08	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-05

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-13

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 11:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	10/24/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	10/24/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	10/24/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	10/24/08	1	15
Di-isopropyl ether	U	0.25	1.0	ug/l	8260B	10/24/08	1	
Ethylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Hexachloro-1,3-butadiene	U	0.49	1.0	ug/l	8260B	10/24/08	1	10
Isopropylbenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
p-Isopropyltoluene	U	0.21	1.0	ug/l	8260B	10/24/08	1	
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	10/24/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	10/24/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	10/24/08	1	100
Methyl tert-butyl ether	U	0.19	1.0	ug/l	8260B	10/24/08	1	
Naphthalene	U	0.17	5.0	ug/l	8260B	10/24/08	1	10
n-Propylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
Styrene	U	0.38	1.0	ug/l	8260B	10/24/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	10/24/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichlorobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	10/24/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	10/24/08	1	1
1,2,4-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
1,3,5-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Vinyl chloride	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	10/24/08	1	4
Surrogate Recovery								
Toluene-d8	94.6			% Rec.	8260B	10/24/08	1	
Dibromofluoromethane	95.3			% Rec.	8260B	10/24/08	1	
4-Bromofluorobenzene	92.8			% Rec.	8260B	10/24/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-06

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-14

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 10:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Mercury	U	0.044	0.20	ug/l	7470A	10/29/08	1	.2
Arsenic	5.5	5.4	20.	ug/l	6010B	10/27/08	1	10
Barium	190	1.1	5.0	ug/l	6010B	10/27/08	1	100
Cadmium	1.6	0.74	5.0	ug/l	6010B	10/27/08	1	1
Chromium	18.	2.0	10.	ug/l	6010B	10/27/08	1	10
Lead	85.	1.9	5.0	ug/l	6010B	10/27/08	1	5
Selenium	U	6.5	20.	ug/l	6010B	10/27/08	1	10
Silver	U	3.2	10.	ug/l	6010B	10/27/08	1	10
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	10/24/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	10/24/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	10/24/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Bromobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	10/24/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	10/24/08	1	10
n-Butylbenzene	U	0.23	1.0	ug/l	8260B	10/24/08	1	
sec-Butylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
tert-Butylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	10/24/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	10/24/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	10/24/08	1	10
2-Chloroethyl vinyl ether	U	1.4	50.	ug/l	8260B	10/24/08	1	
Chloroform	U	0.33	5.0	ug/l	8260B	10/24/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	10/24/08	1	1
2-Chlorotoluene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
4-Chlorotoluene	U	0.16	1.0	ug/l	8260B	10/24/08	1	
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	10/24/08	1	13
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	10/24/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	10/24/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	10/24/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	10/24/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	10/24/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	10/24/08	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-06

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : MW-14

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 10:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	10/24/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	10/24/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	10/24/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	10/24/08	1	15
Di-isopropyl ether	U	0.25	1.0	ug/l	8260B	10/24/08	1	
Ethylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Hexachloro-1,3-butadiene	U	0.49	1.0	ug/l	8260B	10/24/08	1	10
Isopropylbenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
p-Isopropyltoluene	U	0.21	1.0	ug/l	8260B	10/24/08	1	
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	10/24/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	10/24/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	10/24/08	1	100
Methyl tert-butyl ether	U	0.19	1.0	ug/l	8260B	10/24/08	1	
Naphthalene	U	0.17	5.0	ug/l	8260B	10/24/08	1	10
n-Propylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
Styrene	U	0.38	1.0	ug/l	8260B	10/24/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	10/24/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichlorobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	10/24/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	10/24/08	1	1
1,2,4-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
1,3,5-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Vinyl chloride	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	10/24/08	1	4
Surrogate Recovery								
Toluene-d8	94.9			% Rec.	8260B	10/24/08	1	
Dibromofluoromethane	95.3			% Rec.	8260B	10/24/08	1	
4-Bromofluorobenzene	94.8			% Rec.	8260B	10/24/08	1	

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SWSL = Solid Waste Section Limit
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RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-07

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : SW-2

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 16:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Mercury	U	0.044	0.20	ug/l	7470A	10/29/08	1	.2
Arsenic	7.6	5.4	20.	ug/l	6010B	10/27/08	1	10
Barium	59.	1.1	5.0	ug/l	6010B	10/27/08	1	100
Cadmium	U	0.74	5.0	ug/l	6010B	10/27/08	1	1
Chromium	U	2.0	10.	ug/l	6010B	10/27/08	1	10
Lead	U	1.9	5.0	ug/l	6010B	10/27/08	1	5
Selenium	U	6.5	20.	ug/l	6010B	10/27/08	1	10
Silver	U	3.2	10.	ug/l	6010B	10/27/08	1	10
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	10/24/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	10/24/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	10/24/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Bromobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	10/24/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	10/24/08	1	10
n-Butylbenzene	U	0.23	1.0	ug/l	8260B	10/24/08	1	
sec-Butylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
tert-Butylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	10/24/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	10/24/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	10/24/08	1	10
2-Chloroethyl vinyl ether	U	1.4	50.	ug/l	8260B	10/24/08	1	
Chloroform	U	0.33	5.0	ug/l	8260B	10/24/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	10/24/08	1	1
2-Chlorotoluene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
4-Chlorotoluene	U	0.16	1.0	ug/l	8260B	10/24/08	1	
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	10/24/08	1	13
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	10/24/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	10/24/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	10/24/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	10/24/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	10/24/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	10/24/08	1	5

U = ND (Not Detected)
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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ryan Kerins
TerraQuest Environmental Consultant
100 East Ruffin Street
Mebane, NC 27302

November 04, 2008

ESC Sample # : L371349-07

Date Received : October 23, 2008
Description : Lee Co Landfill

Site ID :

Sample ID : SW-2

Project # : 02296

Collected By : W. Sorrells
Collection Date : 10/21/08 16:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	10/24/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	10/24/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	10/24/08	1	5
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	10/24/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	10/24/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	10/24/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	10/24/08	1	15
Di-isopropyl ether	U	0.25	1.0	ug/l	8260B	10/24/08	1	
Ethylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Hexachloro-1,3-butadiene	U	0.49	1.0	ug/l	8260B	10/24/08	1	10
Isopropylbenzene	U	0.19	1.0	ug/l	8260B	10/24/08	1	
p-Isopropyltoluene	U	0.21	1.0	ug/l	8260B	10/24/08	1	
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	10/24/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	10/24/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	10/24/08	1	100
Methyl tert-butyl ether	U	0.19	1.0	ug/l	8260B	10/24/08	1	
Naphthalene	U	0.17	5.0	ug/l	8260B	10/24/08	1	10
n-Propylbenzene	U	0.22	1.0	ug/l	8260B	10/24/08	1	
Styrene	U	0.38	1.0	ug/l	8260B	10/24/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	10/24/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	10/24/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	10/24/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichlorobenzene	U	0.24	1.0	ug/l	8260B	10/24/08	1	
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	10/24/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	10/24/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	10/24/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	10/24/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	10/24/08	1	1
1,2,4-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
1,3,5-Trimethylbenzene	U	0.20	1.0	ug/l	8260B	10/24/08	1	
Vinyl chloride	U	0.27	1.0	ug/l	8260B	10/24/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	10/24/08	1	4
Surrogate Recovery								
Toluene-d8	92.5			% Rec.	8260B	10/24/08	1	
Dibromofluoromethane	93.9			% Rec.	8260B	10/24/08	1	
4-Bromofluorobenzene	94.0			% Rec.	8260B	10/24/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
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Reported: 11/04/08 12:07 Printed: 11/04/08 13:57

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L371349-01	WG390243	SAMP	Arsenic	R518405	J
	WG390243	SAMP	Cadmium	R518405	J
	WG390248	SAMP	2-Chloroethyl vinyl ether	R519604	J3
	WG390248	SAMP	Methyl tert-butyl ether	R519604	J4
L371349-02	WG390243	SAMP	Arsenic	R518405	J
	WG390248	SAMP	2-Chloroethyl vinyl ether	R519604	J3
	WG390248	SAMP	Methyl tert-butyl ether	R519604	J4
L371349-03	WG390248	SAMP	2-Chloroethyl vinyl ether	R519604	J3
	WG390248	SAMP	Methyl tert-butyl ether	R519604	J4
L371349-04	WG390243	SAMP	Arsenic	R518405	J
	WG390248	SAMP	2-Chloroethyl vinyl ether	R519604	J3
	WG390248	SAMP	2-Chlorotoluene	R519604	J
	WG390248	SAMP	1,2-Dichlorobenzene	R519604	J
	WG390248	SAMP	Isopropylbenzene	R519604	J
	WG390248	SAMP	Methylene Chloride	R519604	J
	WG390248	SAMP	Methyl tert-butyl ether	R519604	J4
	WG390248	SAMP	Toluene	R519604	J
L371349-05	WG390243	SAMP	Arsenic	R518405	J
	WG390243	SAMP	Chromium	R518405	J
	WG390243	SAMP	Lead	R518405	J
	WG390248	SAMP	2-Chloroethyl vinyl ether	R519604	J3
	WG390248	SAMP	Methyl tert-butyl ether	R519604	J4
L371349-06	WG390243	SAMP	Arsenic	R518405	J
	WG390243	SAMP	Cadmium	R518405	J
	WG390248	SAMP	2-Chloroethyl vinyl ether	R519604	J3
	WG390248	SAMP	Methyl tert-butyl ether	R519604	J4
L371349-07	WG390243	SAMP	Arsenic	R518405	J
	WG390248	SAMP	Acrolein	R519604	J5
	WG390248	SAMP	1,1-Dichloroethene	R519604	J3
	WG390248	SAMP	Methyl tert-butyl ether	R519604	J4
	WG390248	SAMP	Vinyl chloride	R519604	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
11/04/08 at 13:57:14

TSR Signing Reports: 350
R5 - Desired TAT

No emails. Send 2 MeOH vials for VPH & 8260. Report all air samples in ppb by vol & acetone at 50ppb. Non-trust fund = $30 shipping. Paperless client. Attach VPH/EPH forms to CofCs.

Sample: L371349-01 Account: TURENV Received: 10/23/08 09:00 Due Date: 11/04/08 00:00 RPT Date: 11/04/08 12:07
UNI 446455 dor 11/4/08
Sample: L371349-02 Account: TURENV Received: 10/23/08 09:00 Due Date: 11/04/08 00:00 RPT Date: 11/04/08 12:07

Sample: L371349-03 Account: TURENV Received: 10/23/08 09:00 Due Date: 11/04/08 00:00 RPT Date: 11/04/08 12:07

Sample: L371349-04 Account: TURENV Received: 10/23/08 09:00 Due Date: 11/04/08 00:00 RPT Date: 11/04/08 12:07

Sample: L371349-05 Account: TURENV Received: 10/23/08 09:00 Due Date: 11/04/08 00:00 RPT Date: 11/04/08 12:07

Sample: L371349-06 Account: TURENV Received: 10/23/08 09:00 Due Date: 11/04/08 00:00 RPT Date: 11/04/08 12:07

Sample: L371349-07 Account: TURENV Received: 10/23/08 09:00 Due Date: 11/04/08 00:00 RPT Date: 11/04/08 12:07

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Mebane, NC 27302

Quality Assurance Report
Level II

L371349

November 04, 2008

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Arsenic	< .02	mg/l			WG390243	10/27/08 12:49
Barium	< .005	mg/l			WG390243	10/27/08 12:49
Cadmium	< .005	mg/l			WG390243	10/27/08 12:49
Chromium	< .01	mg/l			WG390243	10/27/08 12:49
Lead	< .005	mg/l			WG390243	10/27/08 12:49
Selenium	< .02	mg/l			WG390243	10/27/08 12:49
Silver	< .01	mg/l			WG390243	10/27/08 12:49
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG390248	10/24/08 07:50
1,1,1-Trichloroethane	< .001	mg/l			WG390248	10/24/08 07:50
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG390248	10/24/08 07:50
1,1,2-Trichloroethane	< .001	mg/l			WG390248	10/24/08 07:50
1,1-Dichloroethane	< .001	mg/l			WG390248	10/24/08 07:50
1,1-Dichloroethene	< .001	mg/l			WG390248	10/24/08 07:50
1,1-Dichloropropene	< .001	mg/l			WG390248	10/24/08 07:50
1,2,3-Trichlorobenzene	< .001	mg/l			WG390248	10/24/08 07:50
1,2,3-Trichloropropane	< .001	mg/l			WG390248	10/24/08 07:50
1,2,4-Trichlorobenzene	< .001	mg/l			WG390248	10/24/08 07:50
1,2,4-Trimethylbenzene	< .001	mg/l			WG390248	10/24/08 07:50
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG390248	10/24/08 07:50
1,2-Dibromoethane	< .001	mg/l			WG390248	10/24/08 07:50
1,2-Dichlorobenzene	< .001	mg/l			WG390248	10/24/08 07:50
1,2-Dichloroethane	< .001	mg/l			WG390248	10/24/08 07:50
1,2-Dichloropropane	< .001	mg/l			WG390248	10/24/08 07:50
1,3,5-Trimethylbenzene	< .001	mg/l			WG390248	10/24/08 07:50
1,3-Dichlorobenzene	< .001	mg/l			WG390248	10/24/08 07:50
1,3-Dichloropropane	< .001	mg/l			WG390248	10/24/08 07:50
1,4-Dichlorobenzene	< .001	mg/l			WG390248	10/24/08 07:50
2,2-Dichloropropane	< .001	mg/l			WG390248	10/24/08 07:50
2-Butanone (MEK)	< .01	mg/l			WG390248	10/24/08 07:50
2-Chloroethyl vinyl ether	< .001	mg/l			WG390248	10/24/08 07:50
2-Chlorotoluene	< .001	mg/l			WG390248	10/24/08 07:50
4-Chlorotoluene	< .001	mg/l			WG390248	10/24/08 07:50
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG390248	10/24/08 07:50
Acetone	< .05	mg/l			WG390248	10/24/08 07:50
Acrolein	< .05	mg/l			WG390248	10/24/08 07:50
Acrylonitrile	< .01	mg/l			WG390248	10/24/08 07:50
Benzene	< .001	mg/l			WG390248	10/24/08 07:50
Bromobenzene	< .001	mg/l			WG390248	10/24/08 07:50
Bromodichloromethane	< .001	mg/l			WG390248	10/24/08 07:50
Bromoform	< .001	mg/l			WG390248	10/24/08 07:50
Bromomethane	< .005	mg/l			WG390248	10/24/08 07:50
Carbon tetrachloride	< .001	mg/l			WG390248	10/24/08 07:50
Chlorobenzene	< .001	mg/l			WG390248	10/24/08 07:50
Chlorodibromomethane	< .001	mg/l			WG390248	10/24/08 07:50
Chloroethane	< .001	mg/l			WG390248	10/24/08 07:50
Chloroform	< .005	mg/l			WG390248	10/24/08 07:50
Chloromethane	< .001	mg/l			WG390248	10/24/08 07:50
cis-1,2-Dichloroethene	< .001	mg/l			WG390248	10/24/08 07:50
cis-1,3-Dichloropropene	< .001	mg/l			WG390248	10/24/08 07:50
Di-isopropyl ether	< .001	mg/l			WG390248	10/24/08 07:50
Dibromomethane	< .001	mg/l			WG390248	10/24/08 07:50
Dichlorodifluoromethane	< .005	mg/l			WG390248	10/24/08 07:50
Ethylbenzene	< .001	mg/l			WG390248	10/24/08 07:50
Hexachloro-1,3-butadiene	< .001	mg/l			WG390248	10/24/08 07:50
Isopropylbenzene	< .001	mg/l			WG390248	10/24/08 07:50
Methyl tert-butyl ether	< .001	mg/l			WG390248	10/24/08 07:50

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L371349

November 04, 2008

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Methylene Chloride	< .005	mg/l			WG390248	10/24/08 07:50
n-Butylbenzene	< .001	mg/l			WG390248	10/24/08 07:50
n-Propylbenzene	< .001	mg/l			WG390248	10/24/08 07:50
Naphthalene	< .005	mg/l			WG390248	10/24/08 07:50
p-Isopropyltoluene	< .001	mg/l			WG390248	10/24/08 07:50
sec-Butylbenzene	< .001	mg/l			WG390248	10/24/08 07:50
Styrene	< .001	mg/l			WG390248	10/24/08 07:50
tert-Butylbenzene	< .001	mg/l			WG390248	10/24/08 07:50
Tetrachloroethene	< .001	mg/l			WG390248	10/24/08 07:50
Toluene	< .005	mg/l			WG390248	10/24/08 07:50
trans-1,2-Dichloroethene	< .001	mg/l			WG390248	10/24/08 07:50
trans-1,3-Dichloropropene	< .001	mg/l			WG390248	10/24/08 07:50
Trichloroethene	< .001	mg/l			WG390248	10/24/08 07:50
Trichlorofluoromethane	< .005	mg/l			WG390248	10/24/08 07:50
Vinyl chloride	< .001	mg/l			WG390248	10/24/08 07:50
Xylenes, Total	< .003	mg/l			WG390248	10/24/08 07:50
4-Bromofluorobenzene		% Rec.	87.20	75-128	WG390248	10/24/08 07:50
Dibromofluoromethane		% Rec.	101.2	79-125	WG390248	10/24/08 07:50
Toluene-d8		% Rec.	93.25	87-114	WG390248	10/24/08 07:50
a,a,a-Trifluorotoluene		% Rec.	100.4	84-114	WG390248	10/24/08 07:50
Mercury	< .0002	mg/l			WG390817	10/29/08 09:40
Mercury	< .0002	mg/l			WG390903	10/29/08 08:38

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Arsenic	mg/l	0.00	0.00760	NA*	20	L371349-07	WG390243
Barium	mg/l	0.0577	0.0590	2.23	20	L371349-07	WG390243
Cadmium	mg/l	0.00	0.00	0.00	20	L371349-07	WG390243
Chromium	mg/l	0.00	0.00	0.00	20	L371349-07	WG390243
Lead	mg/l	0.00	0.00	0.00	20	L371349-07	WG390243
Selenium	mg/l	0.00	0.00	0.00	20	L371349-07	WG390243
Silver	mg/l	0.00	0.00	0.00	20	L371349-07	WG390243
Mercury	mg/l	0.00	0.00	0.00	20	L370870-01	WG390903
Mercury	mg/l	0.00	0.00	0.00	20	L371772-01	WG390817

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Arsenic	mg/l	1	0.988	98.8	85-115	WG390243
Barium	mg/l	1	1.00	100.	85-115	WG390243
Cadmium	mg/l	1	1.02	102.	85-115	WG390243
Chromium	mg/l	1	0.974	97.4	85-115	WG390243
Lead	mg/l	1	1.01	101.	85-115	WG390243
Selenium	mg/l	1	1.02	102.	85-115	WG390243
Silver	mg/l	1	0.960	96.0	85-115	WG390243
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0472	94.4	75-134	WG390248
1,1,1-Trichloroethane	mg/l	.05	0.0407	81.4	67-137	WG390248

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L371349

November 04, 2008

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0438	87.5	72-128	WG390248
1,1,2-Trichloroethane	mg/l	.05	0.0436	87.3	79-123	WG390248
1,1-Dichloroethane	mg/l	.05	0.0403	80.6	67-133	WG390248
1,1-Dichloroethene	mg/l	.05	0.0487	97.4	60-130	WG390248
1,1-Dichloropropene	mg/l	.05	0.0392	78.4	68-132	WG390248
1,2,3-Trichlorobenzene	mg/l	.05	0.0426	85.3	63-138	WG390248
1,2,3-Trichloropropane	mg/l	.05	0.0446	89.2	68-130	WG390248
1,2,4-Trichlorobenzene	mg/l	.05	0.0413	82.7	65-137	WG390248
1,2,4-Trimethylbenzene	mg/l	.05	0.0451	90.2	72-135	WG390248
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0379	75.7	55-134	WG390248
1,2-Dibromoethane	mg/l	.05	0.0447	89.4	75-126	WG390248
1,2-Dichlorobenzene	mg/l	.05	0.0390	78.1	75-122	WG390248
1,2-Dichloroethane	mg/l	.05	0.0389	77.7	63-137	WG390248
1,2-Dichloropropane	mg/l	.05	0.0382	76.4	74-122	WG390248
1,3,5-Trimethylbenzene	mg/l	.05	0.0451	90.1	73-134	WG390248
1,3-Dichlorobenzene	mg/l	.05	0.0464	92.8	73-131	WG390248
1,3-Dichloropropane	mg/l	.05	0.0405	81.1	77-119	WG390248
1,4-Dichlorobenzene	mg/l	.05	0.0372	74.4	70-121	WG390248
2,2-Dichloropropane	mg/l	.05	0.0379	75.7	46-151	WG390248
2-Butanone (MEK)	mg/l	.25	0.189	75.7	53-132	WG390248
2-Chloroethyl vinyl ether	mg/l	.25	0.00174	0.696	0-171	WG390248
2-Chlorotoluene	mg/l	.05	0.0442	88.4	74-128	WG390248
4-Chlorotoluene	mg/l	.05	0.0431	86.2	74-130	WG390248
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.187	74.7	60-142	WG390248
Acetone	mg/l	.25	0.206	82.2	48-134	WG390248
Acrolein	mg/l	.25	0.196	78.2	6-182	WG390248
Acrylonitrile	mg/l	.25	0.178	71.2	60-140	WG390248
Benzene	mg/l	.05	0.0410	81.9	67-126	WG390248
Bromobenzene	mg/l	.05	0.0421	84.1	76-123	WG390248
Bromodichloromethane	mg/l	.05	0.0429	85.7	68-133	WG390248
Bromoform	mg/l	.05	0.0481	96.3	60-139	WG390248
Bromomethane	mg/l	.05	0.0663	133.	45-175	WG390248
Carbon tetrachloride	mg/l	.05	0.0411	82.2	64-141	WG390248
Chlorobenzene	mg/l	.05	0.0448	89.6	77-125	WG390248
Chlorodibromomethane	mg/l	.05	0.0475	95.0	73-138	WG390248
Chloroethane	mg/l	.05	0.0548	110.	49-155	WG390248
Chloroform	mg/l	.05	0.0407	81.4	66-126	WG390248
Chloromethane	mg/l	.05	0.0389	77.7	45-152	WG390248
cis-1,2-Dichloroethene	mg/l	.05	0.0461	92.1	72-128	WG390248
cis-1,3-Dichloropropene	mg/l	.05	0.0408	81.6	73-131	WG390248
Di-isopropyl ether	mg/l	.05	0.0361	72.1	63-139	WG390248
Dibromomethane	mg/l	.05	0.0418	83.7	73-125	WG390248
Dichlorodifluoromethane	mg/l	.05	0.0375	75.0	39-189	WG390248
Ethylbenzene	mg/l	.05	0.0445	89.0	76-129	WG390248
Hexachloro-1,3-butadiene	mg/l	.05	0.0369	73.8	67-135	WG390248
Isopropylbenzene	mg/l	.05	0.0459	91.9	73-132	WG390248
Methyl tert-butyl ether	mg/l	.05	0.0114	22.8*	51-142	WG390248
Methylene Chloride	mg/l	.05	0.0397	79.4	64-125	WG390248
n-Butylbenzene	mg/l	.05	0.0376	75.3	63-142	WG390248
n-Propylbenzene	mg/l	.05	0.0445	89.1	71-132	WG390248
Naphthalene	mg/l	.05	0.0389	77.7	56-145	WG390248
p-Isopropyltoluene	mg/l	.05	0.0467	93.4	68-138	WG390248
sec-Butylbenzene	mg/l	.05	0.0468	93.5	70-135	WG390248
Styrene	mg/l	.05	0.0493	98.5	78-130	WG390248
tert-Butylbenzene	mg/l	.05	0.0448	89.6	72-134	WG390248
Tetrachloroethene	mg/l	.05	0.0448	89.6	67-135	WG390248
Toluene	mg/l	.05	0.0419	83.8	72-122	WG390248
trans-1,2-Dichloroethene	mg/l	.05	0.0436	87.2	67-129	WG390248

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Quality Assurance Report
Level II

L371349

November 04, 2008

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
trans-1,3-Dichloropropene	mg/l	.05	0.0400	79.9	66-137	WG390248
Trichloroethene	mg/l	.05	0.0434	86.8	74-126	WG390248
Trichlorofluoromethane	mg/l	.05	0.0487	97.4	54-156	WG390248
Vinyl chloride	mg/l	.05	0.0455	91.0	55-153	WG390248
Xylenes, Total	mg/l	.15	0.134	89.5	75-128	WG390248
4-Bromofluorobenzene				101.4	75-128	WG390248
Dibromofluoromethane				99.48	79-125	WG390248
Toluene-d8				96.78	87-114	WG390248
a,a,a-Trifluorotoluene				104.1	84-114	WG390248
Mercury	mg/l	.003	0.00288	96.0	85-115	WG390817
Mercury	mg/l	.003	0.00309	103.	85-115	WG390903

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.048	0.047	96.0	75-134	1.72	20	WG390248
1,1,1-Trichloroethane	mg/l	0.041	0.040	83.0	67-137	1.38	20	WG390248
1,1,2,2-Tetrachloroethane	mg/l	0.049	0.043	99.0	72-128	12.5	20	WG390248
1,1,2-Trichloroethane	mg/l	0.046	0.043	93.0	79-123	6.82	20	WG390248
1,1-Dichloroethane	mg/l	0.041	0.040	83.0	67-133	2.85	20	WG390248
1,1-Dichloroethene	mg/l	0.049	0.048	99.0	60-130	2.06	20	WG390248
1,1-Dichloropropene	mg/l	0.039	0.039	79.0	68-132	0.746	20	WG390248
1,2,3-Trichlorobenzene	mg/l	0.045	0.042	92.0	63-138	7.24	20	WG390248
1,2,3-Trichloropropane	mg/l	0.049	0.044	98.0	68-130	9.36	20	WG390248
1,2,4-Trichlorobenzene	mg/l	0.041	0.041	82.0	65-137	0.343	20	WG390248
1,2,4-Trimethylbenzene	mg/l	0.045	0.045	90.0	72-135	0.046	20	WG390248
1,2-Dibromo-3-Chloropropane	mg/l	0.044	0.037	89.0	55-134	16.1	20	WG390248
1,2-Dibromoethane	mg/l	0.048	0.044	97.0	75-126	8.36	20	WG390248
1,2-Dichlorobenzene	mg/l	0.039	0.039	79.0	75-122	1.10	20	WG390248
1,2-Dichloroethane	mg/l	0.042	0.038	85.0	63-137	8.68	20	WG390248
1,2-Dichloropropane	mg/l	0.038	0.038	77.0	74-122	1.05	20	WG390248
1,3,5-Trimethylbenzene	mg/l	0.045	0.045	91.0	73-134	1.14	20	WG390248
1,3-Dichlorobenzene	mg/l	0.046	0.046	93.0	73-131	0.078	20	WG390248
1,3-Dichloropropane	mg/l	0.044	0.040	88.0	77-119	8.50	20	WG390248
1,4-Dichlorobenzene	mg/l	0.036	0.037	73.0	70-121	1.18	20	WG390248
2,2-Dichloropropane	mg/l	0.038	0.037	77.0	46-151	1.22	20	WG390248
2-Butanone (MEK)	mg/l	0.226	0.189	90.0	53-132	17.5	20	WG390248
2-Chloroethyl vinyl ether	mg/l	0.002	0.001	1.00	0-171	42.3*	27	WG390248
2-Chlorotoluene	mg/l	0.044	0.044	88.0	74-128	0.534	20	WG390248
4-Chlorotoluene	mg/l	0.043	0.043	86.0	74-130	0.069	20	WG390248
4-Methyl-2-pentanone (MIBK)	mg/l	0.227	0.187	91.0	60-142	19.6	20	WG390248
Acetone	mg/l	0.243	0.206	97.0	48-134	16.8	20	WG390248
Acrolein	mg/l	0.242	0.196	97.0	6-182	21.1	39	WG390248
Acrylonitrile	mg/l	0.208	0.178	83.0	60-140	15.7	20	WG390248
Benzene	mg/l	0.041	0.041	84.0	67-126	2.12	20	WG390248
Bromobenzene	mg/l	0.046	0.042	92.0	76-123	9.00	20	WG390248
Bromodichloromethane	mg/l	0.044	0.042	89.0	68-133	4.28	20	WG390248
Bromoform	mg/l	0.053	0.048	106.	60-139	9.78	20	WG390248
Bromomethane	mg/l	0.061	0.066	122.	45-175	8.15	20	WG390248
Carbon tetrachloride	mg/l	0.040	0.041	82.0	64-141	0.613	20	WG390248
Chlorobenzene	mg/l	0.045	0.044	92.0	77-125	2.15	20	WG390248
Chlorodibromomethane	mg/l	0.050	0.047	101.	73-138	6.50	20	WG390248
Chloroethane	mg/l	0.052	0.054	105.	49-155	4.74	20	WG390248
Chloroform	mg/l	0.042	0.040	85.0	66-126	3.86	20	WG390248

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Quality Assurance Report
Level II

L371349

November 04, 2008

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chloromethane	mg/l	0.039	0.038	79.0	45-152	1.36	20	WG390248
cis-1,2-Dichloroethene	mg/l	0.046	0.046	92.0	72-128	0.393	20	WG390248
cis-1,3-Dichloropropene	mg/l	0.042	0.040	86.0	73-131	5.15	20	WG390248
Di-isopropyl ether	mg/l	0.038	0.036	77.0	63-139	6.28	20	WG390248
Dibromomethane	mg/l	0.044	0.041	90.0	73-125	6.73	20	WG390248
Dichlorodifluoromethane	mg/l	0.037	0.037	75.0	39-189	0.394	24	WG390248
Ethylbenzene	mg/l	0.045	0.044	91.0	76-129	2.27	20	WG390248
Hexachloro-1,3-butadiene	mg/l	0.034	0.036	69.0	67-135	7.00	20	WG390248
Isopropylbenzene	mg/l	0.045	0.045	91.0	73-132	0.550	20	WG390248
Methyl tert-butyl ether	mg/l	0.013	0.011	27*	51-142	18.4	20	WG390248
Methylene Chloride	mg/l	0.040	0.039	81.0	64-125	1.75	20	WG390248
n-Butylbenzene	mg/l	0.036	0.037	74.0	63-142	2.39	20	WG390248
n-Propylbenzene	mg/l	0.045	0.044	90.0	71-132	1.24	20	WG390248
Naphthalene	mg/l	0.045	0.038	91.0	56-145	16.0	20	WG390248
p-Isopropyltoluene	mg/l	0.046	0.046	94.0	68-138	0.404	20	WG390248
sec-Butylbenzene	mg/l	0.045	0.046	92.0	70-135	2.01	20	WG390248
Styrene	mg/l	0.050	0.049	100.	78-130	1.42	20	WG390248
tert-Butylbenzene	mg/l	0.043	0.044	88.0	72-134	2.09	20	WG390248
Tetrachloroethene	mg/l	0.044	0.044	89.0	67-135	0.247	20	WG390248
Toluene	mg/l	0.042	0.041	84.0	72-122	0.516	20	WG390248
trans-1,2-Dichloroethene	mg/l	0.042	0.043	86.0	67-129	1.70	20	WG390248
trans-1,3-Dichloropropene	mg/l	0.044	0.040	89.0	66-137	10.6	20	WG390248
Trichloroethene	mg/l	0.042	0.043	85.0	74-126	2.50	20	WG390248
Trichlorofluoromethane	mg/l	0.048	0.048	98.0	54-156	0.261	20	WG390248
Vinyl chloride	mg/l	0.045	0.045	91.0	55-153	0.064	20	WG390248
Xylenes, Total	mg/l	0.137	0.134	91.0	75-128	2.05	20	WG390248
4-Bromofluorobenzene				105.8	75-128			WG390248
Dibromofluoromethane				101.0	79-125			WG390248
Toluene-d8				100.8	87-114			WG390248
a,a,a-Trifluorotoluene				102.2	84-114			WG390248

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Arsenic	mg/l	1.00	0.007	1	99.2	75-125	L371349-07	WG390243
Barium	mg/l	1.07	0.059	1	101.	75-125	L371349-07	WG390243
Cadmium	mg/l	1.03	0.00	1	103.	75-125	L371349-07	WG390243
Chromium	mg/l	0.978	0.00	1	97.8	75-125	L371349-07	WG390243
Lead	mg/l	1.00	0.00	1	100.	75-125	L371349-07	WG390243
Selenium	mg/l	1.01	0.00	1	101.	75-125	L371349-07	WG390243
Silver	mg/l	0.975	0.00	1	97.5	75-125	L371349-07	WG390243
1,1,1,2-Tetrachloroethane	mg/l	0.046	0.00	.05	93.4	45-152	L371349-07	WG390248
1,1,1-Trichloroethane	mg/l	0.041	0.00	.05	83.7	31-161	L371349-07	WG390248
1,1,2,2-Tetrachloroethane	mg/l	0.046	0.00	.05	92.2	49-149	L371349-07	WG390248
1,1,2-Trichloroethane	mg/l	0.044	0.00	.05	88.7	46-145	L371349-07	WG390248
1,1-Dichloroethane	mg/l	0.042	0.00	.05	84.0	30-159	L371349-07	WG390248
1,1-Dichloroethene	mg/l	0.045	0.00	.05	91.2	10-162	L371349-07	WG390248
1,1-Dichloropropene	mg/l	0.041	0.00	.05	82.1	14-162	L371349-07	WG390248
1,2,3-Trichlorobenzene	mg/l	0.045	0.00	.05	90.6	32-143	L371349-07	WG390248
1,2,3-Trichloropropane	mg/l	0.043	0.00	.05	87.3	48-148	L371349-07	WG390248
1,2,4-Trichlorobenzene	mg/l	0.042	0.00	.05	84.3	27-142	L371349-07	WG390248
1,2,4-Trimethylbenzene	mg/l	0.046	0.00	.05	93.2	29-153	L371349-07	WG390248
1,2-Dibromo-3-Chloropropane	mg/l	0.038	0.00	.05	77.2	37-148	L371349-07	WG390248
1,2-Dibromoethane	mg/l	0.045	0.00	.05	90.4	41-149	L371349-07	WG390248
1,2-Dichlorobenzene	mg/l	0.039	0.00	.05	79.1	40-139	L371349-07	WG390248
1,2-Dichloroethane	mg/l	0.040	0.00	.05	81.5	29-167	L371349-07	WG390248

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Quality Assurance Report
Level II

L371349

November 04, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichloropropane	mg/l	0.039	0.00	.05	78.2	39-148	L371349-07	WG390248
1,3,5-Trimethylbenzene	mg/l	0.046	0.00	.05	92.6	33-149	L371349-07	WG390248
1,3-Dichlorobenzene	mg/l	0.046	0.00	.05	92.2	32-148	L371349-07	WG390248
1,3-Dichloropropane	mg/l	0.041	0.00	.05	83.4	44-142	L371349-07	WG390248
1,4-Dichlorobenzene	mg/l	0.038	0.00	.05	76.0	32-136	L371349-07	WG390248
2,2-Dichloropropane	mg/l	0.038	0.00	.05	77.6	14-158	L371349-07	WG390248
2-Butanone (MEK)	mg/l	0.198	0.00	.25	79.3	32-151	L371349-07	WG390248
2-Chloroethyl vinyl ether	mg/l	0.000	0.00	.25	0.321	0-175	L371349-07	WG390248
2-Chlorotoluene	mg/l	0.044	0.00	.05	89.6	35-147	L371349-07	WG390248
4-Chlorotoluene	mg/l	0.044	0.00	.05	88.8	33-147	L371349-07	WG390248
4-Methyl-2-pentanone (MIBK)	mg/l	0.197	0.00	.25	78.6	40-160	L371349-07	WG390248
Acetone	mg/l	0.208	0.00	.25	83.1	25-157	L371349-07	WG390248
Acrolein	mg/l	0.488	0.00	.25	195.*	0-179	L371349-07	WG390248
Acrylonitrile	mg/l	0.208	0.00	.25	83.2	37-162	L371349-07	WG390248
Benzene	mg/l	0.042	0.00	.05	85.2	16-158	L371349-07	WG390248
Bromobenzene	mg/l	0.044	0.00	.05	88.5	37-147	L371349-07	WG390248
Bromodichloromethane	mg/l	0.042	0.00	.05	84.4	45-147	L371349-07	WG390248
Bromoform	mg/l	0.048	0.00	.05	96.8	38-152	L371349-07	WG390248
Bromomethane	mg/l	0.062	0.00	.05	126.	0-191	L371349-07	WG390248
Carbon tetrachloride	mg/l	0.041	0.00	.05	83.8	22-168	L371349-07	WG390248
Chlorobenzene	mg/l	0.047	0.00	.05	94.8	33-148	L371349-07	WG390248
Chlorodibromomethane	mg/l	0.048	0.00	.05	96.7	48-151	L371349-07	WG390248
Chloroethane	mg/l	0.052	0.00	.05	104.	4-176	L371349-07	WG390248
Chloroform	mg/l	0.041	0.00	.05	83.2	37-147	L371349-07	WG390248
Chloromethane	mg/l	0.039	0.00	.05	79.0	10-174	L371349-07	WG390248
cis-1,2-Dichloroethene	mg/l	0.047	0.00	.05	94.5	29-156	L371349-07	WG390248
cis-1,3-Dichloropropene	mg/l	0.040	0.00	.05	81.3	35-148	L371349-07	WG390248
Di-isopropyl ether	mg/l	0.040	0.00	.05	80.3	39-160	L371349-07	WG390248
Dibromomethane	mg/l	0.041	0.00	.05	82.9	36-152	L371349-07	WG390248
Dichlorodifluoromethane	mg/l	0.033	0.00	.05	67.2	0-200	L371349-07	WG390248
Ethylbenzene	mg/l	0.046	0.00	.05	92.6	29-150	L371349-07	WG390248
Hexachloro-1,3-butadiene	mg/l	0.038	0.00	.05	76.9	28-144	L371349-07	WG390248
Isopropylbenzene	mg/l	0.047	0.00	.05	95.0	35-147	L371349-07	WG390248
Methyl tert-butyl ether	mg/l	0.012	0.00	.05	24.7	24-167	L371349-07	WG390248
Methylene Chloride	mg/l	0.040	0.00	.05	80.2	23-151	L371349-07	WG390248
n-Butylbenzene	mg/l	0.039	0.00	.05	79.5	22-151	L371349-07	WG390248
n-Propylbenzene	mg/l	0.046	0.00	.05	93.1	26-150	L371349-07	WG390248
Naphthalene	mg/l	0.042	0.00	.05	85.6	24-160	L371349-07	WG390248
p-Isopropyltoluene	mg/l	0.048	0.00	.05	95.9	28-151	L371349-07	WG390248
sec-Butylbenzene	mg/l	0.048	0.00	.05	97.4	32-149	L371349-07	WG390248
Styrene	mg/l	0.049	0.00	.05	99.7	38-149	L371349-07	WG390248
tert-Butylbenzene	mg/l	0.047	0.00	.05	94.2	36-149	L371349-07	WG390248
Tetrachloroethene	mg/l	0.047	0.00	.05	94.4	13-157	L371349-07	WG390248
Toluene	mg/l	0.042	0.00	.05	84.7	22-152	L371349-07	WG390248
trans-1,2-Dichloroethene	mg/l	0.043	0.00	.05	87.1	11-160	L371349-07	WG390248
trans-1,3-Dichloropropene	mg/l	0.041	0.00	.05	82.4	33-153	L371349-07	WG390248
Trichloroethene	mg/l	0.043	0.00	.05	87.5	18-163	L371349-07	WG390248
Trichlorofluoromethane	mg/l	0.048	0.00	.05	96.9	10-177	L371349-07	WG390248
Vinyl chloride	mg/l	0.046	0.00	.05	92.5	0-179	L371349-07	WG390248
Xylenes, Total	mg/l	0.140	0.00	.15	93.5	27-151	L371349-07	WG390248
4-Bromofluorobenzene					104.8	75-128		WG390248
Dibromofluoromethane					99.95	79-125		WG390248
Toluene-d8					96.10	87-114		WG390248
a,a,a-Trifluorotoluene					102.3	84-114		WG390248
Mercury	mg/l	0.003	0.00	.003	105.	70-130	L370870-01	WG390903

* Performance of this Analyte is outside of established criteria.
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Tax I.D. 62-0814289

Est. 1970

TerraQuest Environmental Consultants PC
Mr. Ryan Kerins
100 East Ruffin Street
Mebane, NC 27302

Quality Assurance Report
Level II

L371349

November 04, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Mercury	mg/l	0.003	0.00	.003	102.	70-130	L371772-01	WG390817

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Arsenic	mg/l	0.95	1.00	95.0	75-125	4.29	20	L371349-07	WG390243
Barium	mg/l	0.98	1.07	92.9	75-125	7.97	20	L371349-07	WG390243
Cadmium	mg/l	0.95	1.03	95.5	75-125	7.56	20	L371349-07	WG390243
Chromium	mg/l	0.90	0.97	90.7	75-125	7.53	20	L371349-07	WG390243
Lead	mg/l	0.95	1.00	95.3	75-125	4.81	20	L371349-07	WG390243
Selenium	mg/l	0.96	1.01	96.9	75-125	4.14	20	L371349-07	WG390243
Silver	mg/l	0.90	0.97	90.2	75-125	7.78	20	L371349-07	WG390243
1,1,1,2-Tetrachloroethane	mg/l	0.04	0.04	87.6	45-152	6.37	21	L371349-07	WG390248
1,1,1-Trichloroethane	mg/l	0.03	0.04	72.1	31-161	14.9	23	L371349-07	WG390248
1,1,2,2-Tetrachloroethane	mg/l	0.04	0.04	94.1	49-149	2.02	22	L371349-07	WG390248
1,1,2-Trichloroethane	mg/l	0.04	0.04	89.7	46-145	1.16	20	L371349-07	WG390248
1,1-Dichloroethane	mg/l	0.03	0.04	74.3	30-159	12.2	21	L371349-07	WG390248
1,1-Dichloroethene	mg/l	0.03	0.04	72.3	10-162	23.1*	23	L371349-07	WG390248
1,1-Dichloropropene	mg/l	0.03	0.04	70.3	14-162	15.5	23	L371349-07	WG390248
1,2,3-Trichlorobenzene	mg/l	0.04	0.04	88.2	32-143	2.75	33	L371349-07	WG390248
1,2,3-Trichloropropane	mg/l	0.04	0.04	90.8	48-148	4.02	23	L371349-07	WG390248
1,2,4-Trichlorobenzene	mg/l	0.04	0.04	83.4	27-142	1.04	30	L371349-07	WG390248
1,2,4-Trimethylbenzene	mg/l	0.04	0.04	83.1	29-153	11.4	27	L371349-07	WG390248
1,2-Dibromo-3-Chloropropane	mg/l	0.04	0.03	84.5	37-148	8.99	27	L371349-07	WG390248
1,2-Dibromoethane	mg/l	0.04	0.04	91.5	41-149	1.20	21	L371349-07	WG390248
1,2-Dichlorobenzene	mg/l	0.04	0.03	79.9	40-139	1.03	23	L371349-07	WG390248
1,2-Dichloroethane	mg/l	0.04	0.04	81.6	29-167	0.02	21	L371349-07	WG390248
1,2-Dichloropropane	mg/l	0.03	0.03	76.5	39-148	2.19	20	L371349-07	WG390248
1,3,5-Trimethylbenzene	mg/l	0.04	0.04	81.4	33-149	12.9	26	L371349-07	WG390248
1,3-Dichlorobenzene	mg/l	0.04	0.04	85.8	32-148	7.18	24	L371349-07	WG390248
1,3-Dichloropropane	mg/l	0.04	0.04	82.2	44-142	1.51	20	L371349-07	WG390248
1,4-Dichlorobenzene	mg/l	0.03	0.03	75.2	32-136	1.06	23	L371349-07	WG390248
2,2-Dichloropropane	mg/l	0.03	0.03	69.6	14-158	11.0	23	L371349-07	WG390248
2-Butanone (MEK)	mg/l	0.21	0.19	85.6	32-151	7.65	26	L371349-07	WG390248
2-Chloroethyl vinyl ether	mg/l	0.00	0.00	0.309	0-175	3.85	75	L371349-07	WG390248
2-Chlorotoluene	mg/l	0.03	0.04	79.9	35-147	11.4	24	L371349-07	WG390248
4-Chlorotoluene	mg/l	0.03	0.04	78.3	33-147	12.6	25	L371349-07	WG390248
4-Methyl-2-pentanone (MIBK)	mg/l	0.20	0.19	83.1	40-160	5.54	28	L371349-07	WG390248
Acetone	mg/l	0.23	0.20	92.4	25-157	10.6	26	L371349-07	WG390248
Acrolein	mg/l	0.52	0.48	210.7	0-179	7.74	39	L371349-07	WG390248
Acrylonitrile	mg/l	0.23	0.20	91.8	37-162	9.89	24	L371349-07	WG390248
Benzene	mg/l	0.03	0.04	76.9	16-158	10.2	21	L371349-07	WG390248
Bromobenzene	mg/l	0.04	0.04	82.5	37-147	7.11	23	L371349-07	WG390248
Bromodichloromethane	mg/l	0.04	0.04	80.5	45-147	4.71	20	L371349-07	WG390248
Bromoform	mg/l	0.04	0.04	96.8	38-152	0.00	20	L371349-07	WG390248
Bromomethane	mg/l	0.05	0.06	107.	0-191	16.0	35	L371349-07	WG390248
Carbon tetrachloride	mg/l	0.03	0.04	74.1	22-168	12.3	24	L371349-07	WG390248
Chlorobenzene	mg/l	0.04	0.04	85.3	33-148	10.5	22	L371349-07	WG390248
Chlorodibromomethane	mg/l	0.04	0.04	94.1	48-151	2.67	21	L371349-07	WG390248
Chloroethane	mg/l	0.04	0.05	84.0	4-176	21.3	27	L371349-07	WG390248
Chloroform	mg/l	0.03	0.04	77.1	37-147	7.61	21	L371349-07	WG390248
Chloromethane	mg/l	0.03	0.03	61.7	10-174	24.5	28	L371349-07	WG390248
cis-1,2-Dichloroethene	mg/l	0.04	0.04	82.7	29-156	13.2	22	L371349-07	WG390248
cis-1,3-Dichloropropene	mg/l	0.04	0.04	79.9	35-148	1.63	21	L371349-07	WG390248
Di-isopropyl ether	mg/l	0.03	0.04	79.3	39-160	1.16	21	L371349-07	WG390248

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Quality Assurance Report
Level II

L371349

November 04, 2008

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Dibromomethane	mg/l	0.04	0.04	84.3	36-152	1.72	20	L371349-07	WG390248
Dichlorodifluoromethane	mg/l	0.02	0.03	55.4	0-200	19.1	26	L371349-07	WG390248
Ethylbenzene	mg/l	0.04	0.04	83.2	29-150	10.7	24	L371349-07	WG390248
Hexachloro-1,3-butadiene	mg/l	0.03	0.03	70.3	28-144	8.98	33	L371349-07	WG390248
Isopropylbenzene	mg/l	0.04	0.04	81.6	35-147	15.2	25	L371349-07	WG390248
Methyl tert-butyl ether	mg/l	0.01	0.01	28.9	24-167	15.6	22	L371349-07	WG390248
Methylene Chloride	mg/l	0.03	0.04	75.5	23-151	6.05	21	L371349-07	WG390248
n-Butylbenzene	mg/l	0.03	0.03	73.3	22-151	8.03	29	L371349-07	WG390248
n-Propylbenzene	mg/l	0.04	0.04	80.9	26-150	14.0	25	L371349-07	WG390248
Naphthalene	mg/l	0.04	0.04	87.3	24-160	1.97	37	L371349-07	WG390248
p-Isopropyltoluene	mg/l	0.04	0.04	85.3	28-151	11.7	27	L371349-07	WG390248
sec-Butylbenzene	mg/l	0.04	0.04	82.5	32-149	16.5	26	L371349-07	WG390248
Styrene	mg/l	0.04	0.04	90.7	38-149	9.51	23	L371349-07	WG390248
tert-Butylbenzene	mg/l	0.04	0.04	82.2	36-149	13.7	26	L371349-07	WG390248
Tetrachloroethene	mg/l	0.04	0.04	81.2	13-157	15.1	24	L371349-07	WG390248
Toluene	mg/l	0.03	0.04	76.1	22-152	10.7	22	L371349-07	WG390248
trans-1,2-Dichloroethene	mg/l	0.03	0.04	75.9	11-160	13.7	23	L371349-07	WG390248
trans-1,3-Dichloropropene	mg/l	0.04	0.04	82.8	33-153	0.45	22	L371349-07	WG390248
Trichloroethene	mg/l	0.03	0.04	73.0	18-163	18.1	21	L371349-07	WG390248
Trichlorofluoromethane	mg/l	0.03	0.04	79.1	10-177	20.2	24	L371349-07	WG390248
Vinyl chloride	mg/l	0.03	0.04	70.8	0-179	26.6*	26	L371349-07	WG390248
Xylenes, Total	mg/l	0.12	0.14	84.3	27-151	10.3	23	L371349-07	WG390248
4-Bromofluorobenzene				102.8	75-128				WG390248
Dibromofluoromethane				101.8	79-125				WG390248
Toluene-d8				99.4	87-114				WG390248
a,a,a-Trifluorotoluene				101.0	84-114				WG390248
Mercury	mg/l	0.00	0.00	104.	70-130	0.95	20	L370870-01	WG390903
Mercury	mg/l	0.00	0.00	99.0	70-130	2.66	20	L371772-01	WG390817

Batch number /Run number / Sample number cross reference

WG390243: R518405: L371349-01 02 03 04 05 06 07
WG390248: R519604: L371349-01 02 03 04 05 06 07
WG390903: R522087: L371349-01 02 03 04 05 06
WG390817: R522088: L371349-07

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L371349

November 04, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address:

TerraQuest Environmental Consultants PC

100 East Ruffin Street
Mebane,NC 27302

Alternate billing information:

Report to: R. Kerins

Email to:

Project Description: Lee Co. Landfill

City/Sate Collected: Sanford, NC

Phone: (919) 563-9091
FAX: (919) 563-9095

Client Project #: 02296

ESC Key:

Collected by: W. Sorrells

Site/Facility ID#:

P.O.#: 02296/02108

Collected by (signature): Wesley H. Sorrells

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed:
Email? X No __ Yes
FAX? X No __ Yes

Analysis/Container/Preservative: 8260B / 40 mil vial / HCL; 8RCRA Metals / 500cc Plastic / Nitric Acid

Chain of Custody Page 1 of 1

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
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5

CoCode: TURENV (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	8260B	8RCRA Metals					Remarks/Contaminant	Sample # (lab only)
MW5	Grab	GW		10/21/08	1535	3	X	X						L37134901
MW6					1215	3	X	X						-02
MW9					1145	3	X	X						-03
MW12					1455	3	X	X						-04
MW13					1115	3	X	X						-05
MW14					1055	3	X	X						-06
SW2					1615	3	X	X						-07

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☒ SW	Condition: (lab use only)
Wesley H. Sorrells	10/22/08	1006	Brent Bailey		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 32 / Bottles Received: 21+1TB	CoC Seals Intact ___ Y ___ N ✓ NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Troy Trump	Date: 10-23-08 / Time: 0900	pH Checked: <2 / NCF: ✓

TECHNICAL METHODS/STANDARD PROCEDURES

Groundwater Sampling

Groundwater samples are collected from temporary or permanent monitoring wells according to established sampling protocol. When permanent monitoring wells are sampled the well is purged of a minimum of three well-bore volumes prior to sample collection in order to assure that sampled water is representative of aquifer conditions. In temporary wells, the first water which migrates into the open borehole is sampled. Samples from both temporary and permanent monitoring wells are collected using individually wrapped disposable teflon bailers by a field personnel wearing disposable latex gloves. Only one well is sampled with a given bailer in order to prevent sample cross-contamination. Also, field personnel change gloves between different samples to reduce the chance of cross-contamination. Water samples are transferred from the bailer to laboratory-prepared sampling containers using slow emptying devices to reduce the chance of contamination loss through volatilization. Preservatives, such as acids, are added to samples directly after they are collected if preservation is necessary. The samples are labeled with the sample location, sample identification, date of collection, time of collection, the analytical method, the preservative, and the sampler's initials. The samples are cooled on ice to four degrees centigrade, sent to a certified laboratory, and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Surface Water Sampling

Surface water samples, specifically samples from creeks or streams, are collected from a moving/flowing portion of the creek or stream to ensure that stagnant water is not collected. Field personnel are careful to collect samples from flowing areas that are not so turbulent as to cause a loss of volatile contaminants which might have been contained in the creek's/stream's water. Samples are collected by field personnel wearing disposable latex gloves. Field personnel change gloves between different locations to reduce the chance of cross-contamination. Samples are collected directly from the appropriate creek or stream location and placed into the appropriate laboratory-prepared containers. Preservatives, such as acids, are added to samples directly after they are collected if preservation is necessary. The samples are labeled with the sample location, sample identification, date of collection, time of collection, the analytical method, the preservative, and the sampler's initials. The samples are cooled on ice to approximately four degrees centigrade, sent to a certified laboratory, and analyzed before the expiration of an analytical method's prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Field Measurements

Field measurements taken to determine the pH, conductivity, temperature, and dissolved oxygen concentration of a particular groundwater sample are taken directly after a particular monitoring well has been adequately purged. Once purging of the monitoring

well is complete, a new, disposable teflon bailer is slowly lowered into the appropriate monitoring well and a representative groundwater sample is retrieved. A slow pouring device is fitted onto the end of the disposable bailer and the sample is slowly poured into a new, disposable plastic cup.

For pH, conductivity, and temperature, a Hanna Instruments Model 991300 portable meter is utilized. This unit is periodically calibrated and maintained in accordance with the unit's operations manual by field personnel. The procedure used for sample measurement involves lowering the meter's probe into the new, disposable cup containing the groundwater sample to be measured and slowly stirring the probe to force groundwater across the probe's membrane. The measurements displayed by the meter are then recorded.

For dissolved oxygen concentration measurements, a YSI Model 55 Handheld Dissolved Oxygen System is utilized. This unit is periodically calibrated and maintained in accordance with the unit's operations manual by field personnel. The procedure used for sample measurement involves adjusting the unit for the correct altitude where the sampling will take place and adjusting the reported units desired. Once this is done, the unit's probe is inserted into the new, disposable cup containing the groundwater sample to be measured and the probe is slowly stirred to force the groundwater across the probe's membrane. The measurements displayed by the unit are then recorded.