



North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Division of Waste Management
UST Section

Dee Freeman, Secretary
Dexter R. Matthews, Director

March 22, 2012

Mr. Matthew S. Livingston
Town Manager
316 East Murray Street
Wallace, NC 28466

Re: Health Risk Evaluation of Water Supply
Wallace Airport
Tracking ID: 32077

Dear Mr. Livingston:

Please find attached the Sample Analytical Results for a water sample collected from your well, identified as SW-1, located at 250 Henderson Field Road, Wallace, Pender County, on February 3, 2012. The sample was collected and analyzed as part of the investigation of a petroleum release in the vicinity. The water sample was analyzed for specific target analytes (contaminants), which are listed on the attached Sample Analytical Results. Contaminants were detected in the water sample, as shown on the attached Sample Analytical Results.

Because contaminants were detected in the water sample, a Health Risk Evaluation of the water supply was performed by an environmental toxicologist in the Division of Waste Management. The Health Risk Evaluation, which is attached also, compares the detected concentration of contaminants to acceptable concentrations and provides a recommendation for safe use of the water.

If you have any questions, please contact Dave Lilley at (919) 707-8241 or contact me at (910) 796-7396 or the address listed.

Sincerely,

Steve Kay
Environmental Engineer
Wilmington Regional Office

Attachments: Wallace Airport Sample Analytical Results
Health Risk Evaluation

cc: WiRO-Inactive Hazardous Waste
WiRO-UST

Wilmington (WIL) R.O. – 127 Cardinal Drive Extension, Wilmington, NC 28405 **(910) 796-7215**



North Carolina Department of Environment and Natural Resources
Division of Waste Management

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March 19, 2012

TO: Steve Kay
Wilmington Regional Office
NC UST Section

FROM: David Lilley 
Environmental Toxicologist
NC Division of Waste Management

RE: Health Risk Evaluation
Tracking ID: 32077
Wallace Airport Well Sampling Results
250 Henderson Field Road
Wallace, NC

During this sampling event, one contaminant was detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If the contaminant concentration exceeds the applicable standard for using the water for drinking and cooking, the contaminant concentration is further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentration with the applicable standard:

Sample ID	Contaminant	Concentration (ug/l)*	MCL (ug/l)	2L (ug/l)
L0011471-10	Trichloroethene	0.53	5	

* The abbreviation ug/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

RECOMMENDATION: The detected contaminant did not exceed the applicable water standard. Therefore, no restrictions on the use of this water are recommended at this time.



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Client Sample ID SW-1 Collected: 02/03/2012 14:30 Lab Sample ID: L0011471-10

Site: WALLACE AIRPORT

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroform	ND		0.1	1	02/10/12 18:17	DN	4420189
Chloromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
cis-1,2-Dichloroethene	ND		0.1	1	02/10/12 18:17	DN	4420189
cis-1,3-Dichloropropene	ND		0.2	1	02/10/12 18:17	DN	4420189
Dibromochloromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Dibromomethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Dichlorodifluoromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Ethanol	ND		50	1	02/10/12 18:17	DN	4420189
Ethylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Hexachlorobutadiene	ND		0.2	1	02/10/12 18:17	DN	4420189
Isopropyl ether	ND		0.1	1	02/10/12 18:17	DN	4420189
Isopropylbenzene	ND		0.2	1	02/10/12 18:17	DN	4420189
Methyl tert-butyl ether	ND		0.2	1	02/10/12 18:17	DN	4420189
Methylene chloride	ND		0.2	1	02/10/12 18:17	DN	4420189
Naphthalene	ND		0.2	1	02/10/12 18:17	DN	4420189
n-Butylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
n-Propylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
p-Isopropyltoluene	ND		0.1	1	02/10/12 18:17	DN	4420189
sec-Butylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Styrene	ND		0.1	1	02/10/12 18:17	DN	4420189
tert-Butylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Tetrachloroethene	ND		0.2	1	02/10/12 18:17	DN	4420189
Toluene	ND		0.1	1	02/10/12 18:17	DN	4420189
trans-1,2-Dichloroethene	ND		0.1	1	02/10/12 18:17	DN	4420189
trans-1,3-Dichloropropene	ND		0.2	1	02/10/12 18:17	DN	4420189
Trichloroethene	0.53		0.1	1	02/10/12 18:17	DN	4420189
Trichlorofluoromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Vinyl acetate	ND		0.2	1	02/10/12 18:17	DN	4420189
Vinyl chloride	ND		0.1	1	02/10/12 18:17	DN	4420189
m & p-Xylene	ND		0.2	1	02/10/12 18:17	DN	4420189
o-Xylene	ND		0.1	1	02/10/12 18:17	DN	4420189
Xylene, Total	ND		0.3	1	02/10/12 18:17	DN	4420189
Surr: 1,2-Dichloroethane-d4	99.2		% 70-130	1	02/10/12 18:17	DN	4420189
Surr: 4-Bromofluorobenzene	98.8		% 70-130	1	02/10/12 18:17	DN	4420189
Surr: Toluene-d8	101		% 70-130	1	02/10/12 18:17	DN	4420189

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte Detected In The Associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

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ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Client Sample ID SW-1 Collected: 02/03/2012 14:30 Lab Sample ID: L0011471-10
 Site: WALLACE AIRPORT

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY GCMS: SM6200 B				MCL	SM6200 B	Units: ug/L	
1,1,1,2-Tetrachloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1,1-Trichloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1,2,2-Tetrachloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1,2-Trichloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1-Dichloroethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1-Dichloroethene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,1-Dichloropropene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2,3-Trichlorobenzene	ND		0.2	1	02/10/12 18:17	DN	4420189
1,2,3-Trichloropropane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2,4-Trichlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2,4-Trimethylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2-Dibromo-3-chloropropane	ND		0.5	1	02/10/12 18:17	DN	4420189
1,2-Dibromoethane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2-Dichlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,2-Dichloroethane	ND		0.2	1	02/10/12 18:17	DN	4420189
1,2-Dichloropropane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,3,5-Trimethylbenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,3-Dichlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
1,3-Dichloropropane	ND		0.1	1	02/10/12 18:17	DN	4420189
1,4-Dichlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
2,2-Dichloropropane	ND		0.1	1	02/10/12 18:17	DN	4420189
2-Butanone	ND		12	1	02/10/12 18:17	DN	4420189
2-Chlorotoluene	ND		0.2	1	02/10/12 18:17	DN	4420189
2-Hexanone	ND		0.5	1	02/10/12 18:17	DN	4420189
4-Chlorotoluene	ND		0.1	1	02/10/12 18:17	DN	4420189
4-Methyl-2-pentanone	ND		0.5	1	02/10/12 18:17	DN	4420189
Acetone	ND		10	1	02/10/12 18:17	DN	4420189
Benzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromochloromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromodichloromethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromoform	ND		0.1	1	02/10/12 18:17	DN	4420189
Bromomethane	ND		0.1	1	02/10/12 18:17	DN	4420189
Carbon tetrachloride	ND		0.1	1	02/10/12 18:17	DN	4420189
Chlorobenzene	ND		0.1	1	02/10/12 18:17	DN	4420189
Chloroethane	ND		0.2	1	02/10/12 18:17	DN	4420189

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
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