ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

November 2, 2023

Sumner Elementary School
Guilford County Board of Education
712 N. Eugene Street
Greensboro, NC 27401

Re: Health Risk Evaluation of Water Supply
Tracking ID: Sumner Food Mart, Incident #13849

Dear Well User:

Please find attached the Sample Analytical Results for water supply well sample collected from your well, identified as SW #5, located at 1915 Harris Drive, Greensboro, Guilford County, on October 5, 2023. 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. Several 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 also attached, compares the detected concentration of the contaminants to the acceptable concentration 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 Ashley Dinkins at (336) 641-5557 or at the Guilford County Department of Health and Human Services office located at 400 W. Market Street, Suite 300, Greensboro, NC 27401.

Sincerely,

James W. Brown
Regional Supervisor
Winston-Salem Regional Office
UST Section, Division of Waste Management, NCDEQ

Attachment: SW #5 Sample Analytical Results
Health Risk Evaluation

cc: Iulia Vann, Guilford County Department of Health and Human Services
Michael Halford, Guilford County

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NORTH CAROLINA
Environmental Quality

November 1, 2023

TO: Ashley Dinkins
Guilford County Department of Health and Human Services for
Winston-Salem Regional Office
NC UST Section

RE: Health Risk Evaluation
Incident # 13849
Sumner Elementary School Well Sampling Results
1915 Harris Drive
Greensboro, NC

During this sampling event, twenty-two contaminants were 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 contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are 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 concentrations with the applicable standard:

Sample ID	Contaminant	Concentration (µg/L)	MCL (µg/L)	2L (µg/L)
97030	Acetone	45.0		6,000
	Benzene	1.43	5	
	n-Butylbenzene	7.64		70
	sec-Butylbenzene	4.84		70
	Ethylbenzene	29.0	700	
	2-Hexanone	3.12		40
	Isopropylbenzene	14.5		70*
	4-Isopropyl toluene	1.46		25**
	Methyl Ethyl Ketone	19.3		4,000
	Methyl tert-butyl ether	0.706		20
	4-Methyl-2-Pentanone	4.55		100
	Methylene Chloride	0.336	5	
	Naphthalene	51.9		6
	n-Propylbenzene	33.5		70
	Styrene	0.322	100	
	tert-Butyl Alcohol	2.79		10***
	tert-Amyl Alcohol	12.1	NA	NA
	Toluene	1.95	1,000	
	1,1,2-Trichloroethane	0.938	5	
	1,2,4-Trimethylbenzene	66.5		400
	1,3,5-Trimethylbenzene	32.8		400
	Total Xylenes	49.0	10,000	

NA – Not Available
Shaded boxes indicate a standard has been exceeded.
µg/L – Stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

* This value is based on odor, the health-based value is 700 µg/L.

** This value is based on odor, the health-based value is 70 µg/L.

*** This value is an Interim Maximum Allowable Concentration (IMAC).

RECOMMENDATION: The naphthalene concentration exceeds the applicable standard and the level that would be considered safe for other household uses. Therefore, this water is not recommended for any residential use at this time.

David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ