

September 21, 2015

MEMORANDUM

TO: Dave Brown, Engineer
Inactive Hazardous Sites Branch
Superfund Section

FROM: Hanna Assefa, Industrial Hygiene Consultant 
Inactive Hazardous Sites Branch
Superfund Section

RE: Health Risk Evaluation
:
Wallace Airport - Onsite Water Supply Well
316 East Murray Street,
Wallace, Pender County
ID# NONCD0002913

A water sample was collected from the subject well. The concentration of trichloroethene detected in the water sample did not exceed applicable standards. The standards used to determine if the water is suitable for drinking and cooking are the federal drinking water standards (USEPA MCL), or where there is no MCL, the health based North Carolina Groundwater Quality Standard (15A NCAC 2L)/ Interim Standard (IMAC). If both the USEPA MCL and health- based North Carolina 2L/IMAC are not available, a health-based concentration is calculated.

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. **Therefore, based on this evaluation, the water from this well can be used for drinking, cooking and all other purposes listed above.** The table below compares detected contaminant concentrations with the applicable standards:

Sample #	Contaminant	Concentration (ug/L)	US EPA MCL (ug/L)	15A NCAC 2L/IMAC (ug/L)	Calculated Health-based Concentration (ug/l)
92265561010	Trichloroethene	0.28 J	5	**	**

** Not Applicable

ug/L= Micrograms of contaminant per liter of water.

J = Estimated Concentrations