

Lower Richland County Private Well Sample Results  
 Samples Collected on August 29, 2018  
 October 22, 2018

Analyte	Concentration in milligrams per liter (mg/L) <sup>a</sup> by General Tag & SCDHEC Laboratory Sample Number								Drinking Water Standard (mg/L) <sup>a</sup>			
	A	B	C	D	E	F	G	H	USEPA <sup>b</sup>		South Carolina <sup>c</sup>	
	AE17360 (*)	AE17361	AE17362	AE17363	AE17364	AE17365	AE17367	AE17368	MCL	Public Health Goal		
<b>Bacteriological</b>												
Total Coliform	Absent	Absent	Present/Absent (**)	Absent	Present (***)	Absent	Present (***)	Absent	Absence	Not Developed	Absence	
<i>Escherichia coli</i>	Absent	Absent	Absent/Absent (**)	Absent	Absent	Absent	Absent	Absent	Absence	Not Developed	Absence	
<b>General Chemistry</b>												
Alkalinity	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	6.2	<1.0	Not Developed			
Calcium	0.15	0.50	0.78	0.68	1.0	0.52	1.5	0.59	Not Developed			
Chloride	1.4	5.2	3.8	3.9	3.7	2.7	14	2.8	250 (s) <sup>d</sup>	Not developed	250 (s)	
Hardness	1.0	2.8	5.0	4.1	4.6	2.7	6.9	3.1	Not Developed			
Nitrate/Nitrite	0.030	2.1	1.9	2.1	1.1	0.95	1.8	0.50	10	10	10	
pH (SU) <sup>e</sup>	5.3	4.9	5.2	5.1	5.6	5.0	5.7	4.6	6.5 - 8.5 SU (s)	Not developed	6.5 - 8.5 SU (s)	
<b>Radionuclides and Fluoride</b>												
Gross alpha (pCi/L) <sup>f</sup>	<3.00	5.64	<3.00	<3.00	<3.00	<3.00	<3.00	2.58	15 pCi/L	zero	15 pCi/L	
Gross beta (pCi/L)	<4.00	5.16	<4.00	<4.00	<4.00	<4.00	<4.00	5.17	30 pCi/L for screening <sup>g</sup>			
Radium-226 (pCi/L)	0.604	1.19	0.207	0.548	<1.00	0.768	0.252	2.21	4 mrem/yr <sup>f</sup>	zero	4 mrem/yr	
Radium-228 9pCi/L	<1.00	0.787	<1.00	<1.00	<1.00	0.913	<1.00	3.05	Sum of Radium-226 & -228			
Σ Radium-226 & -228 (pCi/L)	<1.604	1.977	<1.207	<1.548	<1.00	1.681	<1.252	5.26 (***)	5 pCi/L	zero	5 pCi/L	
Uranium (ug/L) <sup>f</sup>	0.333	0.167	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	30 ug/L	zero	30 ug/L	
Uranium-234 (ug/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	Not Developed			
Uranium 235 (ug/L)	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	Not Developed			
Uranium-236 (ug/L)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	Not Developed			
Uranium-238 (ug/L)	0.329	0.166	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	Not Developed			
Fluoride	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	4.0/2.0 (s)	4.0	4.0/2.0 (s)	
<b>Metals</b>												
Antimony	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.006	0.006	0.006	
Arsenic	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.010	zero	0.010	
Beryllium	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.004	0.004	0.004	
Cadmium	<0.00010	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.005	0.005	0.005	
Chromium	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.1	0.1	0.1	
Copper	<0.010	<0.010	0.04	0.018	0.34	0.076	<0.010	0.020	1.3 (AL) <sup>d</sup> /1.0 (s)	1.3	1 (s)	
Iron	0.20	0.06	<0.020	<0.020	0.064	0.059	<0.020	<0.020	0.3 (s)	Not developed	0.3 (s)	
Lead	0.0020	0.0023	0.0054	0.0021	<0.0020	0.0028	<0.0020	0.0037	0.015 (AL)	zero	0.015 (AL)	
Magnesium	0.16	0.38	0.73	0.59	0.51	0.34	0.77	0.39	Not Developed			
Manganese	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.025	0.012	0.05 (s)	Not developed	0.05 (s)	
Nickel	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	Not Developed			
Selenium	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.05	0.05	0.05	
Silver	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.1 (s)	Not developed	0.1 (s)	
Thallium	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.002	0.0005	0.002	
Zinc	0.18	<0.010	0.015	0.015	0.015	0.017	<0.010	0.020	5 (s)	Not developed	5 (s)	
<b>Volatile Organic Compounds</b>												
--	None of the 54 analytes in this suite detected [all <0.00050 mg/L except xylene (<0.00100 mg/L)]								Analyte-specific	--	Analyte-specific	

a. milligrams per liter (mg/L), or parts per million, except as noted otherwise; ug/L = micrograms per liter, or parts per billion  
 b. United States Environmental Protection Agency, Maximum Contaminant Level (MCL) from National Primary Drinking Water Regulations per 40 CFR 141  
 c. State Primary Drinking Water Regulation, R.61-58; effective April 25, 2008  
 d. (s) = secondary drinking water standard; AL = action level  
 e. SU = Standard Unit  
 f. pCi/L = picocuries per liter; mrem/yr = millirems per year  
 g. USEPA screening value for pCi/L so as not to exceed 4 mrem/yr (EPA 815-R-02-001; February 2002)  
 Other Notes:

(\*) Location A is Hopkins Community Water System  
 (\*\*) Original sample/re-sample  
 (\*\*\*) Shaded cell indicates exceedance of MCL

### Volatile Organic Compound (VOC) Parameters in Lower Richland County Private Well Testing

Benzene	1,1-Dichloroethane	n-Propylbenzene
Bromobenzene	1,2-Dichloroethane	Styrene
Bromochloromethane	cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane
Bromomethane	trans-1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
n-Butylbenzene	1,1-Dichloroethylene	Tetrachloroethene
sec-Butylbenzene	1,2-Dichloropropane	Toluene
tert-Butylbenzene	1,3-Dichloropropane	1,2,3-Trichlorobenzene
Carbon tetrachloride	2,2-Dichloropropane	1,2,4-Trichlorobenzene
Chlorobenzene	1,1-Dichloropropene	1,1,1-Trichloroethane
Chloroethane	cis-1,3-Dichloropropene	1,1,2-Trichloroethane
Chloromethane	trans-1,3-Dichloropropene	Trichloroethylene
2-Chlorotoluene	Ethylbenzene	Trichlorofluoromethane
4-Chlorotoluene	Hexachlorobutadiene	1,2,4-Trimethylbenzene
Dibromomethane	Isopropylbenzene	1,3,5-Trimethylbenzene
Dichlorodifluoromethane	p-Isopropyltoluene	1,2,3-Trichloropropane
1,2-Dichlorobenzene	Methyl tert-butyl ether	o-Xylenes
1,3-Dichlorobenzene	Methylene chloride	m,p-Xylenes
1,4-Dichlorobenzene	Naphthalene	Vinyl chloride