

Based on the screen interval data, three wells (91-D, -L and -M) are believed to be supplied by the Surficial aquifer. The water quality data for these wells is summarized in Table 2 along with the regulatory limits of the contaminants. Water in this uppermost aquifer appeared to have high levels of iron (Fe) and manganese (Mn), which exceeded the secondary drinking water standard. Two wells had a pH value of 5.7, which is also outside the secondary criteria range.

Table 2 Surficial Aquifer Water Quality

Parameter	Units	Secondary MCL	91-D	91-L	91-M
pH	std. units	6.5-8.5	5.7	6.5	5.7
HCO ₃ ⁻	mg/L		90	90	90
CO ₃ ²⁻	mg/L		0.0	0.0	0.0
Alkalinity	mg/L as CaCO ₃		74	74	74
ANC	mg/L		64	116	62
Hardness	mg/L as CaCO ₃		72	87	38
Ca ²⁺	mg/L		11.5	27.0	6.2
Mg ²⁺	mg/L		10.4	4.8	5.4
Na ⁺	mg/L		17.9	21.0	17.0
K ⁺	mg/L		1.1	3.3	1.1
Cl ⁻	mg/L	250	24.0	18.0	17.0
SO ₄ ²⁻	mg/L	250	12.0	11.0	15.0
SiO ₂	mg/L		20.0	44.0	19.0
Fe _T	mg/L	0.30	12.0	5.0	13.0
Mn _T	mg/L	0.05	0.24	0.14	0.24
Al _T	mg/L	0.05- 0.20	0.020	0.020	0.020
TDS	mg/L	500	159	191	134
Specific Conductance	µS/cm		325	278	208
B – Boron*	mg/L		0.04	0.05	0.02

* Boron -WHO recommended limit of 0.5 mg/L.