



Rio Algom and Denison Mines devote a great deal of time and attention to water quality, both within the tailings management areas and in the Serpent River Watershed outside of the mine properties. Each year, our environmental specialists collect 137 samples from 27 sites in the Serpent River Watershed and have them analyzed for the following 10 key parameters: pH, barium, cobalt, iron, manganese, radium226, selenium, silver, sulphate and uranium. These parameters can detect the influence of historic mine operations on local water quality.

Average results for 2008 confirm that water quality throughout the watershed continues to surpass Ontario Drinking Water Standards, as you can see in the table below.

## 2008 Average Water Concentrations

	Barium	Iron	Manganese	Radium <sup>226</sup>	Selenium	Sulphate	Uranium	
Ontario Drinking Water Standards								
AO <sup>1</sup>	-	0.3	0.05	-	-	500	-	
MAC <sup>2</sup>	1	-	-	0.6	0.01	-	0.02	
Lake	Unit	(mg/L)	(mg/L)	(Bq/L)	(mg/L)	(mg/L)	(mg/L)	
Dunlop		0.014	0.03	0.009	<0.005	<0.0005	5.3	<0.0005
Ten Mile		0.014	<0.02	0.004	<0.005	<0.0005	4.9	<0.0005
Quirke		0.042	<0.02	0.010	0.028	<0.0005	54.0	0.0015
Whiskey		0.026	0.03	0.007	0.012	<0.0005	39.0	0.0011
Elliot		0.013	0.04	0.015	<0.005	<0.0005	8.2	0.0008
Depot		0.013	0.05	0.026	0.006	<0.0005	27.0	<0.0005
Pecors		0.025	0.03	0.015	0.008	<0.0005	41.5	0.0010
McCarthy		0.019	0.03	0.015	0.009	<0.0005	35.5	0.0007

**Notes:**

1. AO = aesthetic objectives (colour, taste, smell)

2. MAC = maximum acceptable concentration (health related standards that if exceeded may present a health hazard)