SGS Test Results

Water Test Eliment	Target	1970	1985	1988	2011 #1	2011 #2	2015 #1	2015 #2	2018 #1	2018 #2	2018 #3	2023 #1	2023 #2	2023 #3	Current Satus	Current Trend
Secchi disk depth (m)		5.5		5		4.5	5.08		5.2							
Thermocline depth (m)				7						6.8						
pH	6.5-8.5		7.4	7.33			7.31	7.41	7.29	7.21	7.29	7.15	7.20	7.19		
water hardness (mg/L as CaCo3)		19	21.2	21	18.6	19.3	16.1	16.6				15.6	15.4	15.7		
Alkalinity (mg/L)	>20		22	20	12	12	13	13	12	13	14	13	11	15		
Conductivity (µmho/cm3)		46		46	42	42	38	38	39	40	40					
Bacteria (coliform, colonies/100ml)	<10			2	1.88	0.99	0.13	0.07	0.11	0.1	0.16					
E-Coli (cfu/100ml)					4	5	1	2	1	1	1					
Sodium (mg/L)							0.93	0.93								

Elements unlikely to be toxic:

Calcium (mg/L)	>2		6.2	5.6	5.42	5.62	4.58	4.75	4.65	4.77	4.68	4.66	4.67	4.81		
Magnesium (mg/L)			1.35	1.48	1.23	1.28	1.13	1.16	1.09	1.09	1.1	0.958	0.915	0.906		
Nitrogen (mg/L)	<0.20											0.18	0.24	0.13		
Phosphorus (mg/L)	<0.02	0.009	<0.179	<0.179	0.027	0.03			<0.003	0.004	<0.003	<0.003	<0.003	<0.003		
Total Reactive Phosphorous (mg/L)	<0.05											< 0.03	< 0.03	< 0.03		
Sulphur (mg/L)	<250		3.14	3.1	1.72	1.79										
Silicon (mg/L)				1.41	0.92	0.97										

PotentiallyToxic Elements:

Aluminum (mg/L)	<0.10		<0.08	0.15	0.0222	0.0199	20.1	14.5								
Amonia ((mg/L)									0.09	<0.04	<0.04					
Antimony (mg/L)	<1.0		<0.19	<0.19	<0.0002	<0.0002	<0.02	<0.02								
Arsenic (mg/L)	<0.05		<0.11	<0.11	0.0003	0.0002	<0.02	<0.02								
Barium (mg/L)	<1.0		0.022	0.021	0.015	0.0159	0.0134	0.0135								
Beryllium (mg/L)	<0.011		<0.001	<0.001	<0.00002	<0.00002										
Boron (mg/L)	<30		<0.023	<0.023	0.0066	0.0061	0.073	0.065								
Cadmium (mg/L)	<0.01		<0.016	<0.016	0.000056	0.000014	0.00053	0.00012								
Chromium (mg/L)	<0.05		<0.012	0.02	<0.0005	<0.00005	0.0012	0.0008								
Cobalt (mg/L)	<1.0		<0.017	<0.017	0.000049	0.000042										
Copper (mg/L)	<1.0		<0.015	0.016	0.0009	0.0008	0.00121	0.00068								
Iron (mg/L)	<0.3	0.054	0.047	0.029	0.066	0.07	0.055	0.047								
Lead (µg/L)	<0.10		<0.23	<0.23	0.16	0.22	0.41	0.07				0.05	0.04	0.10		
Manganese (mg/L)	<0.05		0.0054	0.0048	0.00618	0.00618	0.00358	0.00351								
Mercury (µg/L)	<1.0						<0.01	<0.01				< 0.01	< 0.01	< 0.01		
Molybdenum (mg/L)	<2.5		<0.034	<0.034	0.0024	0.00046										
Nickel (mg/L)	<0.025		<0.069	<0.069	0.0006	0.0006										
Potassium (mg/L)							0.456	0.468	0.426	0.434	0.42					
Selenium (mg/L)	<0.01		<0.212	<0.212	<0.001	<0.001	0.00005	0.00006								
Silver (µg/L)							<0.002	<0.002								
Uranium (ug/L)							0.035	0.029								
Vanadium (mg/L)	<0.1		<0.008	0.021												
Zinc (mg/L)	<5.0		<0.02	<0.02	<0.002	0.002	0.003	0.001								