Surface Water Background Monitoring Results

03/11/2014

A. Conovitz, database outputs by M. Desseva, Integral Consulting

					Conventionals											Anions											
					Acidity as CaCO3		Settleable Solids, 1 hr	Settleable Solids, 24 hr	Settleable Solids, 48 hr	Turbidity	pH	TDS		Hardness as CaCO3		TSS		Alkalinity, Bicarbonate as CaCO3	Alkalinity, Carbonate as CaCO3		Alkalinity, Hydroxide as CaCO3		Alkalinity as CaCO3		Bromide		Chloride		Fluoride	
					N		N	N	N	N	N	N		N		N		N	N		N		N		N		N		N	
					mg/L		ml/L	ml/L	ml/L	NTU	SU	mg/L		mg/L		mg/L		mg/L	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
P01	Saksai/Upper Glacier Creek	9/13/2008	September 2008	FR	--		--	--	--	--	--	98		73.8		9.2		--	--		--		31.1		--		0.5	U	--	
P01	Saksai/Upper Glacier Creek	9/13/2008	September 2008	N	--		--	--	--	69.8	6.67	105		74.4		39.7		--	--		--		31.5		--		0.5	U	--	
P01	Saksai/Upper Glacier Creek	8/3/2009	August 2009	N	--		--	--	--	225	6.59	63		39.2		306		--	--		--		23.8		--		0.5	U	--	
P01	Saksai/Upper Glacier Creek	8/22/2010	August 2010	N	2.1		--	0.5	--	193	8.04	84		59.2		287		32.5	1	U	1	U	32.5		0.05	U	0.5	U	0.02	U
P01	Saksai/Upper Glacier Creek	6/1/2011	June 2011	N	2	U	1.8	3.25	3.4	2760	8	97		66.4		2470		--	--		--		42.8		0.05	U	0.5	U	0.031	
P01	Saksai/Upper Glacier Creek	7/9/2013	July 2013	N	1	UJ	0	0	0.2	800	7.75	74	J	49.2		616	J	--	--		--		26.6	J	0.05	U	0.5	U	0.02	UJ
P01	Saksai/Upper Glacier Creek	5/12/2014	May 2014	N	1.3	U	0	0	0	34.2	7.98	139		82.2		56.3		--	--		--		44.5		0.05	U	0.5	U	0.025	
P01	Saksai/Upper Glacier Creek	9/17/2014	September 2014	N	1.9	U	0.05	0.05	0.09	111	8.15	121		76.9		99.3		--	--		--		34.3		0.05	U	0.5	U	0.022	
P06	Bridge/Lower Glacier Creek	9/14/2008	September 2008	N	--		--	--	--	54.1	8.33	123		99.4		28.7		--	--		--		43.1		--		0.5	U	--	
P06	Bridge/Lower Glacier Creek	8/3/2009	August 2009	N	--		--	--	--	346	8.08	75		58.3		359		--	--		--		34.9		--		0.5	U	--	
P06	Bridge/Lower Glacier Creek	8/21/2010	August 2010	N	2.4		--	0.25	--	114	7.93	116		98.8		276		45.5	1	U	1	U	45.5		0.05	U	0.5	U	0.02	U
P06	Bridge/Lower Glacier Creek	6/1/2011	June 2011	N	1.9	U	0.2	0.6	0.65	665	7.3	118		92.9		708		--	--		--		69.1		0.05	U	0.5	U	0.032	
P06	Bridge/Lower Glacier Creek	7/9/2013	July 2013	FR	1	UJ	0.1	0.25	0.45	--	--	99	J	69.4		454	J	--	--		--		42	J	0.05	U	0.5	U	0.02	UJ
P06	Bridge/Lower Glacier Creek	7/9/2013	July 2013	N	1	UJ	0.1	0.15	0.25	534	7.55	96	J	65.2		458	J	--	--		--		42.2	J	0.05	U	0.5	U	0.025	J
P06	Bridge/Lower Glacier Creek	5/12/2014	May 2014	N	1.1	U	0.15	0.2	0.2	18.2	7.96	157		123		58.3		--	--		--		73.3		0.05	U	0.5	U	0.033	
P06	Bridge/Lower Glacier Creek	9/17/2014	September 2014	N	1.9	U	0.1	0.1	0.1	--	--	163		111		98.1		--	--		--		49		0.05	U	0.5	U	0.027	

		Nutrients																																			
Sulphate N mg/L		Ammonia as N N mg/L		Nitrate+Nitrite as N N mg/L		Nitrate as N N mg/L		Nitrite as N N mg/L		Aluminum T mg/L		Aluminum D mg/L		Antimony T mg/L		Antimony D mg/L		Arsenic T mg/L		Arsenic D mg/L		Barium T mg/L		Barium D mg/L		Beryllium T mg/L		Beryllium D mg/L		Bismuth T mg/L		Bismuth D mg/L		Boron T mg/L	
46.3		0.02	U	0.0179		--		--		1.58	J	0.0286	J	0.0001	U	0.0001	U	0.00018		0.0001	U	0.051		0.0265		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.01	U
46.2		0.022		0.0185		--		--		2.51	J	0.0398	J	0.0001	U	0.0001	U	0.00026		0.0001	U	0.0489		0.026		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.01	U
18.8		0.02	U	--		0.0085		0.001	U	10.7		0.0868		0.00015		0.0001	U	0.00109		0.0001	U	0.157		0.0175		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.01	U
35		0.005	U	0.0089		0.0089		0.001	U	11		0.0481		0.00015		0.0001	U	0.00127		0.0001	U	0.127		0.0246		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.01	U
26.2		0.0228	U	--		0.0757	J	0.001	UJ	57.8		0.082		0.0006		0.0005	U	0.0077		0.0005	U	0.719		0.0217		0.0025	U	0.0025	U	0.0025	U	0.0025	U	0.05	U
18.2	J	0.0057	U	0.0477	J	0.0477	J	0.001	UJ	0.167		0.0935		0.0001	U	0.0001	U	0.00011		0.0001	U	0.0202		0.0332		0.0001	U	0.0001	U	0.0005	U	0.0005	U	0.01	U
41.7		0.005	U	0.0962	J	0.0962	J	0.001	UJ	1.99		0.0579		0.0001	U	0.0001	U	0.00032		0.0001	U	0.0321		0.0203		0.0001	U	0.0001	U	0.0005	U	0.0005	U	0.01	U
46.6		0.005	U	0.0071		0.0071		0.001	U	3.48		0.0733		0.0001	U	0.0001	U	0.00041		0.0001	U	0.0658		0.0321		0.0001	U	0.0001	U	0.0005	U	0.0005	U	0.01	U
51.4		0.025		0.0918		--		--		1.51	J	0.0242	J	0.0001	U	0.0001	U	0.0002		0.0001	U	0.0449		0.0274		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.01	U
25.9		0.028		--		0.0377		0.001	U	11.2		0.0545		0.00015		0.0001	U	0.00122		0.0001	U	0.144		0.024		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.01	U
50		0.005	U	0.0563		0.0563		0.001	U	1.42		0.0266		0.0001	U	0.0001	U	0.0003		0.0001	U	0.0744		0.033		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.01	U
30.9		0.005	U	--		0.578	J	0.001	UJ	19.9		0.0259		0.00032		0.0002	U	0.00248		0.0002	U	0.212		0.028		0.001	U	0.001	U	0.001	U	0.001	U	0.02	U
26.3	J	0.005	UJ	0.072	J	0.072	J	0.001	UJ	13.2		0.111		0.00025		0.0001	U	0.0016		0.0001	U	0.152		0.0281		0.00019		0.0001	U	0.0005	U	0.0005	U	0.01	U
27.4	J	0.005	UJ	0.0599	J	0.0599	J	0.001	UJ	14.7		0.0516		0.00024		0.0001	U	0.00187		0.0001	U	0.161		0.027		0.0002		0.0001	U	0.0005	U	0.0005	U	0.01	U
43.3		0.005	U	1.25	J	1.25	J	0.001	UJ	1.25		0.0155		0.0001	U	0.0001	U	0.00034		0.0001	U	0.0527		0.033		0.0001	U	0.0001	U	0.0005	U	0.0005	U	0.01	U
62		0.005	U	0.121		0.121		0.001	U	3.09		0.0407		0.0001	U	0.0001	U	0.00041		0.0001	U	0.0702		0.0386		0.0001	U	0.0001	U	0.0005	U	0.0005	U	0.01	U

Boron D mg/L		Cadmium T mg/L	Cadmium D mg/L		Calcium T mg/L	Calcium D mg/L	Chromium T mg/L	Chromium D mg/L		Cobalt T mg/L	Cobalt D mg/L		Copper T mg/L	Copper D mg/L		Iron T mg/L	Iron D mg/L	Lead T mg/L	Lead D mg/L		Lithium T mg/L		Lithium D mg/L		Magnesium T mg/L
0.01	U	0.000077	0.00005	U	26.2	25.1	0.00207	0.0005	U	0.00167	0.00019		0.00488	0.00017		3.12	0.035	0.00142	0.00005	U	0.005	U	0.005	U	4.12
0.01	U	0.000085	0.00005	U	26.3	25.3	0.00327	0.0005	U	0.00229	0.00042		0.00571	0.00024		4.63	0.057	0.00157	0.00005	U	0.005	U	0.005	U	4.81
0.01	U	0.000307	0.00005	U	24.8	13.5	0.0129	0.0005	U	0.0102	0.00104		0.0248	0.0005		19.4	0.131	0.00765	0.000054		0.005	U	0.005	U	9.64
0.01	U	0.000307	0.00005	U	36	20	0.0149	0.0005	U	0.0111	0.00019		0.0256	0.00024		20.3	0.049	0.00604	0.00005	U	0.005	U	0.005	U	11
0.05	U	0.00207	0.00025	U	99.6	23.4	0.0711	0.0025	U	0.061	0.0005	U	0.159	0.0025	U	107	0.128	0.0574	0.00025	U	0.025	U	0.025	U	45.6
0.01	U	0.000018	0.000016		13.8	17.5	0.00031	0.0001	U	0.00097	0.0001	U	0.00218	0.00063		0.233	0.099	0.000296	0.000056		0.0005	U	0.0005	U	1.33
0.01	U	0.000051	0.00001	U	29.9	28.9	0.00252	0.0001	U	0.00222	0.00025		0.00533	0.00031		3.88	0.082	0.00113	0.00005	U	0.00132		0.0005	U	3.98
0.01	U	0.000141	0.000041		29	25.8	0.00434	0.0001	U	0.00355	0.00022		0.0083	0.00029		6.67	0.1	0.00244	0.000068		0.00167		0.0005	U	5.7
0.01	U	0.000072	0.00005	U	34.1	34.5	0.00198	0.0005	U	0.00149	0.00021		0.00445	0.00018		2.98	0.031	0.00114	0.00005	U	0.005	U	0.005	U	4.45
0.01	U	0.000377	0.00005	U	33.2	20.4	0.0152	0.0005	U	0.0114	0.00184		0.0255	0.00027		18.9	0.064	0.00739	0.00005	U	0.005	U	0.005	U	9.91
0.01	U	0.000173	0.00005	U	37.6	34.1	0.0018	0.0005	U	0.00355	0.00023		0.0103	0.0001		2.79	0.03	U 0.00369	0.00005	U	0.005	U	0.005	U	4.36
0.02	U	0.0007	0.0001	U	49.5	32.4	0.0261	0.001	U	0.0182	0.0002	U	0.0454	0.001	U	35.8	0.035	0.0168	0.0001	U	0.01	U	0.01	U	17.6
0.01	U	0.000448	0.00003		36.2	24.5	0.018	0.0001	U	0.0131	0.00043		0.0303	0.00044		26.3	0.175	0.00948	0.000085		0.00545		0.0005	U	13.1
0.01	U	0.000462	0.000028		36.8	23	0.0196	0.0001	U	0.0147	0.00021		0.0339	0.0002	U	27.3	0.054	0.00913	0.00005	U	0.0062		0.0005	U	13.4
0.01	U	0.000108	0.000031		41.8	42.1	0.00263	0.0001	U	0.00142	0.0001	U	0.00442	0.00027		2.51	0.018	0.00129	0.00005	U	0.00091		0.0005	U	5.23
0.01	U	0.000116	0.000037		38.8	38	0.00407	0.0001	U	0.00319	0.00052		0.00687	0.0002		5.5	0.04	0.00147	0.00005	U	0.0015		0.0005	U	6.21

Metals

Magnesium D mg/L	Manganese T mg/L	Manganese D mg/L	Mercury T mg/L		Mercury D mg/L		Molybdenum T mg/L	Molybdenum D mg/L	Nickel T mg/L		Nickel D mg/L		Phosphorus T mg/L		Phosphorus D mg/L		Potassium T mg/L	Potassium D mg/L		Selenium T mg/L		Selenium D mg/L		Silicon T mg/L	Silicon D mg/L	Silver T mg/L	
2.7	0.0804	0.00698	0.00001	U	0.00001	U	0.00121	0.00128	0.00149		0.0005	U	0.3	U	0.3	U	2.2	2	U	0.001	U	0.001	U	3.4	0.695	0.000052	
2.7	0.102	0.00799	0.00001	U	0.00001	U	0.00136	0.00125	0.00216		0.0005	U	0.3	U	0.3	U	2.2	2	U	0.001	U	0.001	U	4.87	0.727	0.000074	
1.32	0.502	0.0178	0.00001	U	0.00001	U	0.000914	0.000645	0.00839		0.0005	U	0.6		0.3	U	2.5	2	U	0.001	U	0.001	U	16.4	0.474	0.000074	
2.23	0.551	0.0187	0.00001	U	0.00001	U	0.00139	0.00101	0.00911		0.0005	U	0.62		0.3	U	2.8	2	U	0.001	U	0.001	U	20.6	0.601	0.000074	
1.95	3.13	0.0101	0.000044		0.00001	U	0.00264	0.0014	0.0461		0.0025	U	0.588	J	0.002	UJ	9.5	2	U	0.005	U	0.005	U	76	0.931	0.000428	
1.33	0.0159	0.00798	0.00001	U	0.000025		0.000881	0.000846	0.0005	U	0.0005	U	0.96	J	0.002	UJ	1.12	1.42		0.00025		0.00027		0.698	0.631	0.000014	
2.46	0.0903	0.00303	0.00001	U	0.00001	U	0.00189	0.00181	0.00172		0.0005	U	0.0647		0.002	UJ	1.89	1.69		0.00051		0.00053		3.85	0.861	0.000014	
3.05	0.165	0.0133	0.00001	U	0.00001	U	0.00138	0.0013	0.00304		0.0005	U	0.192		0.002	U	2.02	1.53		0.00064		0.00062		6.01	0.703	0.000023	
3.21	0.0668	0.0069	0.00001	U	0.00001	U	0.00114	0.0012	0.00144		0.0005	U	0.3	U	0.3	U	2.1	2	U	0.001	U	0.001	U	3.63	1.02	0.000056	
1.76	0.579	0.0247	0.00001	U	0.00001	U	0.00111	0.000797	0.0103		0.0005	U	0.63		0.3	U	2.8	2	U	0.001	U	0.001	U	16.5	0.598	0.000076	
3.32	0.192	0.0234	0.00001	U	0.00001	U	0.000972	0.00117	0.00209		0.0005	U	0.32		0.3	U	2.1	2	U	0.001	U	0.001	U	2.66	0.883	0.00001	U
2.88	0.883	0.0111	0.000013		0.00001	U	0.00178	0.00102	0.017		0.001	U	0.721	J	0.002	UJ	3.9	2	U	0.002	U	0.002	U	31.2	1.47	0.000145	
2.02	0.609	0.0331	0.00001	U	0.00001	U	0.00142	0.00097	0.0116		0.0005	U	0.634	J	0.002	UJ	3.32	1.36		0.00071		0.00051		21.6	0.929	0.000094	
1.91	0.659	0.0295	0.000025		0.00001	U	0.00147	0.00101	0.0132		0.0005	U	0.618	J	0.002	UJ	3.31	1.33		0.00078		0.00051		23.2	0.788	0.0001	
4.38	0.0545	0.00123	0.00001	U	0.00001	U	0.00128	0.00122	0.00224		0.0005	U	0.0636		0.0049	J	1.62	1.47		0.0017		0.00179		3.63	1.8	0.000017	
3.95	0.141	0.0135	0.00001	U	0.00001	U	0.00141	0.00139	0.0029		0.0005	U	0.186		0.002	U	2.14	1.79		0.00092		0.00095		6	1.03	0.000034	

Silver D mg/L		Sodium T mg/L		Sodium D mg/L		Strontium T mg/L	Strontium D mg/L	Thallium T mg/L		Thallium D mg/L		Tin T mg/L		Tin D mg/L		Titanium T mg/L		Titanium D mg/L		Uranium T mg/L	Uranium D mg/L	Vanadium T mg/L		Vanadium D mg/L		Zinc T mg/L	Zinc D mg/L	
0.00001	U	2	U	2	U	0.0828	0.0775	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.163		0.01	U	0.000113	0.000085	0.008		0.001	U	0.0248	0.0056	
0.00001	U	2	U	2	U	0.0838	0.0788	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.261		0.01	U	0.000128	0.000084	0.0122		0.001	U	0.0298	0.006	
0.00001	U	2	U	2	U	0.0724	0.0403	0.0001	U	0.0001	U	0.00016		0.0001	U	1.15		0.01	U	0.000156	0.00003	0.0481		0.001	U	0.0978	0.0015	
0.00001	U	2	U	2	U	0.111	0.0642	0.0001	U	0.0001	U	0.00015	U	0.0001	U	1.17		0.01	U	0.000207	0.000059	0.0507		0.001	U	0.0979	0.0014	U
0.00005	U	2.3		2	U	0.27	0.0731	0.0005	U	0.0005	U	0.0005	U	0.0005	U	6.03		0.01	U	0.000829	0.000068	0.264		0.005	U	0.645	0.015	U
0.00001	U	0.341		0.295		0.0464	0.0514	0.00001	U	0.00001	U	0.0001	U	0.0001	U	0.01	U	0.01	U	0.000029	0.000033	0.001	U	0.001	U	0.0032	0.0014	
0.00001	U	0.731		0.647		0.102	0.099	0.000012		0.00001	U	0.0001	U	0.0001	U	0.173		0.01	U	0.000158	0.000143	0.0088		0.001	U	0.0174	0.0011	
0.00001	U	0.62		0.463		0.0996	0.0913	0.00003		0.00001	U	0.0001	U	0.0001	U	0.306		0.01	U	0.000126	0.000088	0.0163		0.001	U	0.0584	0.0071	
0.00001	U	2	U	2	U	0.0917	0.0882	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.156		0.01	U	0.000134	0.000102	0.0074		0.001	U	0.0271	0.0097	
0.00001	U	2	U	2	U	0.101	0.0608	0.0001	U	0.0001	U	0.00015		0.0001	U	1.1		0.01	U	0.000174	0.000044	0.0528		0.001	U	0.113	0.0015	
0.00001	U	2	U	2	U	0.117	0.0954	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.072		0.01	U	0.000146	0.000095	0.0077		0.001	U	0.04	0.0016	U
0.00002	U	2	U	2	U	0.146	0.0973	0.0002	U	0.0002	U	0.0002	U	0.0002	U	1.93		0.01	U	0.000358	0.000117	0.0849		0.002	U	0.202	0.006	U
0.00001	U	1.12		0.58		0.106	0.0671	0.000098		0.00001	U	0.0002		0.0001	U	1.33		0.01	U	0.000224	0.000057	0.0622		0.001	U	0.132	0.0024	
0.00001	U	1.31		0.486		0.105	0.0701	0.000102		0.00001	U	0.00022		0.0001	U	1.5		0.01	U	0.000234	0.00006	0.069		0.001	U	0.149	0.0012	
0.00001	U	0.979		0.925		0.144	0.141	0.000014		0.00001	U	0.0001	U	0.0001	U	0.091		0.01	U	0.000198	0.000172	0.006		0.001	U	0.0247	0.0051	
0.00001	U	1.05		0.852		0.132	0.119	0.000025		0.00001	U	0.0001	U	0.0001	U	0.338		0.01	U	0.00017	0.000133	0.015		0.001	U	0.0409	0.0079	