Year	Sampling date	Valley	Site number	Transect point	description	Lat (S)	Lon (E)	Distance from site 1 (m)	Air temp (deg C)	Weather conditions	grav water content (%)	porewater pH	porewater conductivity (µS/cm)	Mat Chl A (ug/cc)	Mat bacterial abundance (cells/cc)	Porewater NO_3 (uM)	Porewater PO_4 (uM)	Porewater SiO_2 (uM)	Porewater NO_2 (uM)	Porewater NH_4 (uM)	Porewater DOC (uM)	Streamwater NO_3 (uM)	Streamwater PO_4 (uM)	Streamwater SiO_2 (uM)	Streamwater NO_2 (uM)	Streamwater NH_4 (uM)	Streamwater DOC (uM)	Streamwater DIC (uM)	Comments
1	1/11/2014	Taylor	8	3	Spaulding pond mat on shore (pink)	77.39.580	163.06.982	0	ND	Overcast, wind ~5mph	NA	6.88	412	0.108	8.59E+07	1.386	0.060	25.110	0.065	0.607	126	nd	nd	nd	nd	nd	85.30	ND = not detected
1		Taylor	1	2				0.5			25.8			0.552	2.27E+08	21.514	0.207	69.420	0.083	0.768	111								
1		Taylor	1	3				1			6.8				4.85E+08														
1		Taylor	1	4				10.3			NA				1.04E+08														
1	1/13/2014	Taylor	2	1	Shade exp location, stream, heavy dark mats	77.34.108	163.08.116	0	ND	30% sun ~15 kn wind	48	6.89	276.6	0.351	1.55E+08	13.116	0.212	45.550	0.234	1.068	276	nd	nd	nd	nd	nd	-	11574	
1		Taylor	2	2				1.5			23.4	6.73	287.4	0.130	1.92E+08	86.277	0.164	63.730	0.058	0.332	281								
1		Taylor	2	3				7			7.4				3.66E+08														
1	1/14/2014	Taylor	3	1a	Stream comine from glacier into SP	77.39.676	163.05.403	0	ND	50% sun 10 kt wind	84.4	6.19	147.5	0.076	3.86E+08	2.545	0.669	23.150	0.045	0.055	84	0.485	1.191	0.180	0.014	1.204	54	8194	
1		Taylor	3	1b	a - mat only			0			18																		
1		Taylor	3	2	b- sample of sediment from under the mat			2.8			85.4	6.92	158.3	0.165		0.010	0.715	36.410	0.055	1.383	346								
1		Taylor	3	3a	a = abnormalism			9.8			1				3.72E+08														
1		Taylor	3	3b	b = sediment			9.8																					
1	1/15/2014	Taylor	4	1	Lake Chad no visible mats	77.38.639	162.45.498	0	ND	Partly cloudy/clear 30% cloud cover ENE winds 5-15 kts	18.9	6.67	511	0.114	1.63E+08	37.338	1.369	48.280	0.054	7.090	138	2.898	0.167	5.580	0.031	1.215	92	16855	
1		Taylor	4	2				1			15.8	6.57	545	0.002	2.78E+07	42.361	1.577	166.720	0.050	0.965	171								
1		Taylor	4	3				9			0.6				6.32E+07														
1	1/17/2014	Victoria	5	1	Victoria Valley stream, wide area.	77.20.254	161.37.789	0	ND	Clear 10kt winds	20.2	6.82	267.7	0.010	9.48E+07	7.005	0.183	5.760	0.049	0.598	218	4.042	0.307	0.130	0.022	0.344	56	-	
1		Victoria	5	2	upstream bank, no mats			4			10	6.62	708	0.033	2.80E+07	13.130	0.322	58.630	0.030	0.453	103								
1		Victoria	5	3				27.6			1.5				7.79E+07														
1		Victoria	5	4	Nostoc seal			NA			NA																		
1	1/17/2014	Victoria	6	1	Victoria Valley stream, wide area.	77.19.682	161.36.706	0	ND	Clear 10kt winds	21	6.85	246.3	0.085	8.05E+07	4.821	0.219	34.340	0.036	0.596	118	2.803	0.014	1.000	0.069	1.237	44	11327	
1		Victoria	6	2	downstream bank, no mats			3			21.4	6.57	624	0.081	1.75E+08	43.389	1.697	121.170	0.039	0.798	82								
1		Victoria	6	3				10			2.9				8.65E+07														
1	1/18/2014	Taylor	7	1a	Stream in airfield, slow water, nostoc	77.39.476	163.05.776	0	ND	80% sun, 25 kt winds	85.7	6.87	162.2	0.062	7.95E+07	3.935	2.517	0.760	0.020	0.744	189	nd	nd	nd	nd	nd	40	-	
1		Taylor	7	1b	a - mat only			0			22.6																		
1		Taylor	7	2	b- sample of sediment from under the mat			1.5			31.7	6.16	281.5	0.104	4.34E+07	2.850	0.334	4.240	0.032	0.542	243								
1		Taylor	7	3				9			11.5			0.152		0.173	0.035	22.830	0.033	1.357	-								
1		Taylor	7	4				30			3.5				3.01E+08														
1	1/20/2014	Taylor	8	1		77.38.654	163.10.467	0	ND	not recorded	43.1	7	491	0.170	8.67E+07	45.951	1.793	151.530	0.057	0.884	202	0.155	0.273	70.740	0.029	0.696	101		
1		Taylor	8	2				3			21.5	6.9	497	0.106		9.005	1.723	112.820	0.051	0.888	251								
1		Taylor	8	3				9			1.1				1.70E+08														
1		Taylor			stream 6: outside mat			NA			NA																		
1		Taylor			stream 6: mat			NA			NA																		
1		Taylor			stream 7: mat			NA			NA																		
1		Taylor			stream 9: surface			NA			NA																		
1		Taylor			stream 9: sediment			NA			NA																		
1	1/21/2014	Taylor	9	1		77.37.691	161.03.931	0	ND	Sun, 5kt	18.8	6.9	96.5	0.126		1.543	0.319	2.010	0.038	1.422	73	nd	nd	nd	nd	nd	31	1863	
1		Taylor	9	2				2			18.4	7.23	76.4	0.130	2.07E+08	0.845	0.311	10.160	0.033	0.684	198								
1		Taylor	9	3				7			1.2				1.82E+08														
1		Taylor	9		Nostoc			NA			NA																		
1		Taylor			stream 10: Nostoc			NA			NA																		
1		Taylor			stream 10: brown mat			NA			NA																		
1	1/22/2014	Taylor	10	1	New Harbor area, thick nostoc, abnormalism	77.41.064	162.35.496	0	ND	Sunny	30.1	6.54	16300	0.297	4.46E+08	2.487	0.222	37.690	0.112	0.824	192	6.760	0.219	47.460	0.082	0.545	158	12879	
1		Taylor	10	2	and mats			1			78.9	6.53	1647	0.165	1.28E+08	1.972	0.193	21.470	0.124	0.865	198								
1		Taylor	10	3				13			3.3																		
1		Taylor			stream 11 "Bonnie": mat			NA			NA																		
1		Taylor			stream 11 "Bonnie": no mat			NA			NA																		
1		Taylor			stream 12 "Ashley"			NA			NA																		
1		Taylor			stream 13 "La Cresta"			NA			NA																		
1	1/23/2014	Taylor	11	1		77.38.541	162.12.361	0	ND	Sunny, 10kt cloud, 5kt	23.7	6.94	208.3	0.115	1.72E+08	1.877	0.300	9.790	0.029	0.468	93	0.313	0.048	11.002	0.045	0.694	112	12342	
1		Taylor	11	2				4			22.2	6.93	255.6	0.147	1.76E+08	0.865	0.185	10.030	0.054	0.587	86								
1		Taylor	11	3				21			6.5				1.84E+08														
1	1/24/2014	Taylor	12	1	Stream comine from Commonwealth glacier	77.35.817	161.16.416	0	ND	100% cloud cover: cast, some snow	18.9	7.21	154.4	1.124		28.106	1.479	5.830	0.038	0.717	1002	0.771	0.138	0.590	0.037	0.610	61	1146	
1		Taylor	12	2	into Fryxell			11			24.6	7.03	179.7	0.417		24.573	2.720	10.060	0.046	2.290	103								
1		Taylor	12	3				29.5			2.7																		
2	1/12/2015	Garwood	13	1		78°.01.523	163°.49.998	1	-2	Cloudy, light wind	16.3	7.08	207.4		5.63E+07	7.669	0.478	9.180	0.072	1.147	62	11.976	0.206	8.240	0.151	0.514	128		
2		Garwood	13	2				2.8			16.7				1.02E+08	28.209	0.645	24.570	0.072	0.445	90								
2		Garwood	13	3				8.1			3.4																		
2	1/15/2015	Garwood	14	1	nostoc mats on hillside - fed by snowmelt	78°.01.399	163°.55.049	0	-2	Cloudy	13.3	6.98	411			5.667	0.119	107.900	0.217	0.712	107								
2		Garwood	14	2				9.8			17.4				1.70E+08														
2		Garwood	14	3				52			17.5				1.27E+08														
2	1/17/2015	Garwood	15	1		78°.01.389	163°.54.938	11	-1	Cloudy	36.1	7.01	245.2		6.66E+07	1.444	0.172	16.440	0.000	0.642	89								
2	1/18/2015	Garwood	16	1		78°.01.383	163°.54.117	0	5	Sunny, partly cloudy	74.9	7.06	354.8		2.61E+08	0.054	0.079	38.810	0.068	2.407	235								
2		Garwood	16	2				0.7			57.2	6.91	593		6.16E+07	0.069	0.539	114.770	0.014	54.514	230								
2		Garwood	16	3				2.96			27.6					0.000	0.142	201.070	0.000	112.612	-								
2		Garwood	16	4				10.3			1				2.23E+07														
2	1/19/2015	Garwood	17	1		78°.01.622	164°.08.221	0	6	clear light breeze	21.4	7.28	256.3		4.35E+07	3.477	0.228	9.490	0.023	0.463	85								
2		Garwood	17	2				2			6.7				4.57E+07	3.503	0.224	61.130	0.023	0.882	-								
2	1/20/2015	Taylor	18	1	sample in stream from Howard Glacier (same site at St 3, V-1)	77° 39.66	163° 05.531	0	4.5	Partly cloudy/clear, 30% cloud cover, NE winds, 5-10 kts.	12.5	7.12	106.7		2.30E+08	6.509	0.199	12.140	0.057	0.526	127	0.898	0.405	4.970	0.012	0.286	80		
2		Taylor	18	2				3			17.4				2.06E+08														
2		Taylor	18	3				8			5.7				1.91E+08														
2	1/20/2015	Taylor	19	1	sample in stream comine from Spaulding pond	77° 39.435	163° 07.895	0	3.5	Partly cloudy/clear, 20-25% cloud cover, NE winds, 10-15 kts	19.9	7.11	144.4		1.73E+08	3.884	0.113	28.310	0.000	0.326	71	4.564	0.051	23.860	0.000	0.280	86		
2	1/21/2015	Nostoc flats	20	1		78° 02.748	163° 40.487	0	4	Clear, light breeze	21.2	7.11	162.9		1.26E+08	0.402	0.290	11.130	0.024	1.135	138	0.682	0.299	15.140	0.029	0.392	84		
2		Nostoc flats	20	2				4			14.9				1.94E+08														
2		Nostoc flats	20	3				8.1			6.9				1.44E+08														
2		Nostoc flats	20	4				16.1			13.2				2.59E+08														
2	1/21/2015	Miers	21	1		78°.01.615	163° 49.012	0	4		25.6	7.28	85.2		1.14E+08	4.286	0.193	51.700	0.059	0.429	112	0.000	0.216	1.700	0.044	0.469	115		
2		Miers	21	2				4			34				1.40E+08														
2		Miers	21	3				7			3.6				2.70E+07														
2	1/23/2015	Garwood	22	1		78°.01.452	163° 53.276	0	ND	not recorded	ND	ND	ND		2.63E+08														
2	1/26/2015	Garwood	23	1	pools at the Western (eastern) of Garwood Valley	78°.01.737	163° 15.038	0	ND	not recorded	ND	7.22	722							76.949	-								
2		Garwood	23	2				1			ND																		
2		Garwood	23	3				18			ND																		