

## APPENDIX F: Hot springs Geochemistry

This Appendix includes an updated compilation of hot springs in Western Canada and especially British Columbia. The information is based on public data compilation published online on the ArcGIS website under 'Canada Geothermal', which in turn is initially based on the 1992 Geothermal Resources of British Columbia map by Fairbank and Faulkner (1992). Significant information was added to the data courtesy of Polaris Infrastructure Corp. Detailed data review and corrections were done by Woodsworth. The authors consider this latest version to be the most comprehensively updated hot spring public data available since the 1992 map. Going forward, the updated information will be continued to be hosted, and updated as more public information becomes available, on the ArcGIS online map.

The information in this compilation should not be used for recreation purposes. The authors are not responsible for any individuals using the coordinates listed as a targets location. Instead, the book Hot Springs of Western Canada 3rd edition (Woodsworth and Woodsworth (2014) should be consulted for directions on how to reach most springs.

- Due to the nature of the requirements of the free hosting ArcGIS, various considerations had to be taken into effect in the original data compilation listing. For example, conversion into CSV file format, characters used, and size had to be specifically planned. Some of these decisions were maintained with this data compilation for future continuity and the ability to maintain these options for other users. The current compilation can be easily expanded by others with customized data as they see fit.
- The following considerations were taken into account in the compilation of this data:
- For almost all springs in southern British Columbia, coordinates are based on visits by the authors and on data in Woodsworth and Woodsworth (2014) and Woodsworth (unpublished data). Where more than one spring is present at a given location, we have taken the one with the largest flow, the highest temperature, or high highest Si value, whichever is appropriate.
- Location data for springs not visited by the authors have been checked, where possible, against published maps, reports, and GPS coordinates from trusted sources. However, in some cases locations could be considerably inaccurate. For some springs listed by Fairbank and Faulkner (1992) we have a general location at best, and some of these may not even exist. Each of the Fairbank and Faulkner map locations has a special column in the spreadsheet with a Sxx designation.
- Naming is based on latest location name. Other common and or older names are included in brackets.
- Some springs have several sources separated by several hundred metres. We have treated each of these individually, based on unique characteristics for each location. For example the two hot spring adjacent to Meager hot springs (No Good and Placid), although geochemically related, are mentioned separately due to their unique name, location and historical reporting. While Shovelnose warm spring for example has a second seep that is 500 metres downstream listed under the same location as the main spring due to it continued expression and relation to the main spring data. As another example, Talheo has two main sources 400 metres apart. In this case, we use the location for the northern (hottest) spring. Any suggestions and corrections are more than welcomed for the updating future online versions maintained by the authors.

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- Temperatures are those that were measured when samples were collected for analysis. They are not necessarily the highest reliable temperatures measured.
- In references where total and dissolved results are listed, totals were used.
- For springs where both field and laboratory data were available for parameters such as pH and total dissolved solids (TDS), the spreadsheet lists the values obtained in the field.
- Flow rates are notoriously difficult to obtain. We list the best estimates, which may be highly inaccurate. In some cases these are for the total combined flow in a spring system (e.g., all springs at Meager), but for most, references are unclear if it is for the entire system.
- Review comments for suspect data issues and or considerations made from private data sources.

### Hot Springs Geochemistry References

Allen, D., S. Grasby, and D. Voormeij. Determining the Circulation Depth of Thermal Springs in the Southern Rocky Mountain Trench, South-Eastern British Columbia, Canada Using Geothermometry and Borehole Temperature Logs. *Hydrogeology Journal* 14, no. 1: 159-172, 2006.

Crandall, J.T., and T.L. Sadlier-Brown. Data on Geothermal Areas, Cordilleran Yukon, Northwest Territories, and Adjacent British Columbia, Canada. Ottawa: Geological Survey of Canada, Open File 427, 1977.

Dellechaie, F., Spurney, John. C. Summary Report Mt. Cayley Geothermal Prospect Parcel G-3, British Columbia, Canada. O'brien Energy & Resources Limited, February 28, 1984.

Desrochers, D. T. Geothermal feasibility study for the use of hot water near Riondel, British Columbia. Geological Survey of Canada, Open File 2502, 1992.

Fairbank, B.D., and R.L. Faulkner. Geothermal Resources of British Columbia. Ottawa: Geological Survey of Canada, Open File 2526, 1992.

Ghomshei, Mory. Qualifying Report On: A High-Grade Geothermal Resource in the Canadian Rockies; Canoe Hot Springs, Valemount, British Columbia. June 15, 2007

Grasby, Stephen E., Hutcheon, Ian, Krouse H. R. The Influence of water-rock interaction on the chemistry of thermal springs in western Canada. *Applied Geochemistry* 15:439-454, 2000.

Hammerstrom, L. T., Brown, T. H. The Geochemistry of Thermal Waters from the Mount Meager Hotsprings, B.C. Geological Survey of Canada, Open File 532, 1977.

Hickson, C.J., Roots, C., Souther, J.G., Woodsworth, G.J., Jessop, A.M., Bentkowski, W.H., Lewis, T.J., MacRae, J.M., Rowling, J., Church, B.N., Finvers, M. Geothermal Resources of British Columbia. Open File 2526. Geological Survey of Canada.

Mazor, Emanuel, Everdingen, Robert O. Van, Krouse, H. Roy. Noble-gas evidence for geothermal activity in a karstic terrain: Rocky Mountains, Canada. *Geochimica et Cosmochimica acta* Vol. 47, pp. 1111-1115, 1983.

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Nevin, Sadlier-Brown, Goodbrand Ltd. Report on Investigation of Geothermal Resources in Southwestern British Columbia. BC Hydro and Power Authority, June 1974.

Nevin, Sadlier-Brown, Goodbrand Ltd. Report on 1980 Drilling and Exploration Program Meager Creek Geothermal Area Upper Lillooet River, British Columbia. June, 1981.

Northwest Territories. Geothermal Favourability Map Northwest Territories. April 2010.

Phillips, Robert John. Isotope Hydrogeology and Aqueous Geochemistry of Selected British Columbia Hotsprings. University of Ottawa, M.Sc. thesis submission, 1994.

Piteau, D. R. and Associates Ltd. Geochemistry and Isotope Hydrogeology of the Mount Edziza and Mess Creek Geothermal Waters, British Columbia. Geological Survey of Canada, Open File 1732, April 1988.

Ryder, A. J. D. Report on a Reconnaissance Hydrogeochemistry Survey of the Southwestern Drainages of Mount Cayley, British Columbia. Geological Survey of Canada, Open File 1016, February 1983.

Souther, J.G., Geothermal potential of western Canada: Proc. of the 2nd U.N. Symposium. on the Development and Use of Geothermal Resources, San Francisco, 259-267, 1976.

Woodsworth, G., Woodworth, D. Hot Springs of Western Canada, 3rd Edition. Gordon Soules Book Publishers Ltd. 2014.

TABLE F1: Summary of hot spring geochemistry by hot spring name

**APPENDIX F: Hot Spring Geochemistry**

Name	Lat	Long	Temp (C)	pH	Conductivity (uS/cm)	Eh (mV)	TDS	SiO2	Na	K	Ca	Mg	Cl	Li	SO4	HCO3	CO3	F	Br	B	I	NO3	H2S	
Ahousat (Flores Island)	49.26988	-126.07536	25.0	8.60				50.60	34.90	0.400	2.00	0.050	8.200	0.050	12.40	54.60		0.960						
Ahousat (Flores Island)	49.26988	-126.07536	22.7	10.05		-133	156.0	18.90	42.50	0.200	1.91	0.120	10.100	0.000	11.72	35.70	33.60	0.980	0.010	0.050				
Ahousat (Flores Island)	49.26988	-126.07536	22.0	9.50			144.0	36.40	36.80	0.400	1.80	0.100	9.900	0.010	11.60	47.00						0.470		
Ainsworth	49.735833	-116.910833	38.6				1766.2	66.90	290.10		150.00	13.800	62.500		37.60	1144.00								
Ainsworth	49.735833	-116.910833	47.5	6.34				144.00	233.00	20.800	151.00	4.900	42.500	0.660	48.80	979.70		3.640						
Ainsworth	49.735833	-116.910833	45.0	7.00				138.00	230.50	20.300	163.00	5.100	43.200	0.640	50.20	1029.00		3.520						
Ainsworth	49.735833	-116.910833	44.4				800.0	140.00	215.00	1.200		7.500	45.000											
Ainsworth	49.735833	-116.910833	45.0	6.50			1739.0	130.00	243.00	20.900	163.00	5.400	46.700	0.682	58.00	1071.00								
Ainsworth	49.735833	-116.910833	47.5	6.33			1192.0	117.00	219.00	18.600	83.80	0.409	52.000	0.648	-2.00	698.00		1.470		0.443				
Aiyansh (Zolzap)	55.140950	-129.35316	54.7	7.85				99.90	176.00	7.100	3.83		109.000		33.30	205.00								
Aiyansh (Zolzap)	55.140950	-129.35316	54.6	8.64	825			98.90	158.00	6.030	3.92		114.000	0.279	12.39	131.00		8.980		0.516				
Albert Canyon	51.133333	-117.750000	26.0	7.39				20.80	34.00	2.000	49.10	12.900	14.200	0.542	24.90	251.00		0.640						
Albert Canyon	51.133333	-117.750000	25.7	7.70			356.0	43.20	33.90	3.100	53.10	13.200	15.400	0.567	20.50	174.00								
Angel (KLO)	49.797440	-119.341030	22.7	6.40			1358.0	122.00	141.00	6.400	196.00	26.600	3.800	0.153	45.50	815.00								
Asseek	51.950000	-126.716667																						
Atlin	59.404000	-133.575310	28.8	7.10			543.0	32.90	3.40	0.900	74.50	20.200	0.000	0.000	32.00	289.00								
Atlin	59.404000	-133.575310	29.0	8.23					3.40	0.700	67.00	18.500	0.200		12.80	150.00								
August Jacob's	49.88459	-122.258510	49.0				367.0	54.00	3.00		32.00	41.000	39.000		162.00	36.00								
Barnes Lake (Paradise)	56.668610	-131.883800	27.0																					
Bell Island	55.983333	-131.566667	60.0																					
Bella Coola	52.383333	-126.766667																						
Bishop Bay	53.466667	-128.837160	44.0				400.0	65.00	92.00		18.00	0.300	32.000		179.00	4.00								
Blue River	59.650000	-129.683333																						
Brigham	51.000000	-122.000000	8.0	6.83				45.10	196.00	12.200	414.00	228.000	9.500	0.219	198.00	2688.00		0.210						
Brim River	53.513450	-128.364080	38.0				281.0		43.00		17.00	12.000	52.000		78.00	40.00								
Broken Skull	62.750000	-128.130000	45.0					56.00	52.00	33.800	140.00	50.200												
Brooks Peninsula	50.201389	-127.784722																						
Buhl Creek	49.964110	-116.026820	32.5	8.15		+151	243.7	26.00	59.00	2.200	7.20	0.390	10.800	0.140	46.00	92.00								
Buhl Creek	49.964110	-116.026820	31.5	8.69	274		202.0	54.50	51.20	1.740	7.27	0.476	11.000	0.127	36.40	61.50		4.539						
Burton	54.951170	-129.854110	45.0	7.40																				
Cache Creek Cabin	64.650000	-129.210000																						
Canoe Creek	51.461570	-122.068470	20.9	6.98			509.0	13.10	3.63	0.826	92.80	35.900	0.025		7.30	349.00		0.141						
Canoe River	52.621520	-118.969010	60.0	7.07				85.80	263.00	26.600	25.70	0.600	265.000	0.740	200.00	91.50		7.200						
Canoe River	52.621520	-118.969010	57.0	7.38				71.50	290.00	27.700	26.00	0.600	288.000	0.818	209.00	94.50		7.800						
Canoe River	52.621520	-118.969010	67.2	7.97	1523			64.93	306.00	30.900	30.70	0.774	318.000	0.813	227.00									
Canoe River	52.621520	-118.969010	60.9	7.30	1442			79.93	318.00	33.700	25.20	0.601	316.000	0.802	219.00									
Canoe River	52.621520	-118.969010	27.6	7.78	526			26.79	106.00	11.900	15.40	0.613	108.000	0.279	79.90									

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Name	Al	As	Ba	Be	Bi	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	P	Pb	Rb	Sb	Se	Sr	Si	Ti	Zn	Discharge (L/s)	'92 Geothermal Map No.	Reference	Comments	
Ahousat (Flores Island)		0.0100										0.0020								0.01					1.58	S84	Souther 1976	Coordinates from Woodsworth (2014)
Ahousat (Flores Island)	0.030		0.083						1.910	0.050										0.01					0.20		Philips 1994	
Ahousat (Flores Island)										0.017										0.01				0.003			Grasby 2000	
Ainsworth																									3.80	S98	Souther 1973	
Ainsworth		0.0200										0.4400								0.60					1.27		Souther 1976	37a
Ainsworth		0.0100										0.4500								0.60					1.89		Souther 1976	37b
Ainsworth										0.800										1.20			0.010				Desrochers 1992	
Ainsworth										0.021		0.4870								1.40				0.024			Grasby 2000	
Ainsworth																									1.00		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission
Aiyansh (Zolzap)																									<1	S21	Clark 1985	Coordinates from Woodsworth (unpub notes)
Aiyansh (Zolzap)																									3		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission
Albert Canyon		0.0040										0.0020								0.84					6.30	S56	Souther 1976	
Albert Canyon									0.004	0.064		0.0040								0.21			0.003	0.20			Grasby 2000	
Angel (KLO)									0.007	2.160		0.5820								1.70			0.005	<1			Grasby 2000	Coordinates from Woodsworth 2011 notes
Asseek																										S46		
Atlin										0.020		0.0100								0.20						S4	Grasby 2000	Coordinates from Woodsworth (unpub. Notes)
Atlin																											Crandaall & Sadlier Brown 1997	
August Jacob's																										S88	Souther 1973	Na should be 30? Small flow. Coordinates from Woodsworth 2013 notes
Barnes Lake (Paradise)																											Woodsworth 2014	Yes, it's on the Alaska side...
Bell Island																										S20		Yes, it's on the Alaska side...
Bella Coola																										S42		Warm
Bishop Bay																										S30	Souther 1973	
Blue River																										S105		
Brigham		0.0010										0.0100								0.80						S54	Souther 1976	
Brim River																										S33	Souther 1973	
Broken Skull																									35		NWT 2010	
Brooks Peninsula																											Woodsworth 2014	
Buhl Creek									0.000			0.0005								0.10							Allen 2006	Coordinates from Woodsworth (2014)
Buhl Creek		0.0046																							5		Geoscience BC 2016-xx	(2008 sample) Polaris Infrastructure kind permission
Burton																											Woodsworth 2014	
Cache Creek Cabin																											NWT 2010	
Canoe Creek																									3	S53	Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission. Coordinates from Woodsworth
Canoe River		0.0400										0.0200								0.20						S45	Souther 1976	50a
Canoe River		0.0400										0.0300								0.24							Souther 1976	50b
Canoe River																						30.30					Ghomshei 2007	Vent 1 – North pool group
Canoe River																											Ghomshei 2007	Vent 2 – Individual very hot mud pot in valley
Canoe River																											Ghomshei 2007	Vent 3 – Stream combining all north zone springs

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Name	Lat	Long	Temp (C)	pH	Conductivity (uS/cm)	Eh (mV)	TDS	SiO2	Na	K	Ca	Mg	Cl	Li	SO4	HCO3	CO3	F	Br	B	I	NO3	H2S	
Canoe River	52.621520	-118.969010	7.8	7.80	58			4.48	2.00	2.000	11.90	0.816	0.050	0.015	4.50									
Canoe River	52.621520	-118.969010	19.4	8.08	282			18.28	58.70	6.700	10.00	0.491	52.600	0.154	40.50									
Canoe River	52.621520	-118.969010	50.7	8.03	1580			45.21	293.00	25.000	27.90	0.907	310.000	0.747	220.00									
Canoe River	52.621520	-118.969010	44.3	8.14	1156			46.71	233.00	22.600	28.20	1.070	244.000	0.612	184.00									
Canoe River	52.621520	-118.969010	64.4	6.01	1376			64.29	281.00	25.300	25.90	0.610	266.000	0.722	219.00									
Canoe River	52.621520	-118.969010	5.0					4.29	2.00	2.000	12.40	2.620	9.800	0.015	9.80									
Canyon Lake	51.300430	-125.643200	43.0	6.44			4400.0	90.40	819.00	41.900	276.00	25.700	615.000	1.370	1400.00	371.00		0.601		5.320				
Canyon Lake	51.300430	-125.643200	44.9	6.40	5030		3930.0	94.20	891.00	41.900	240.00	27.900	630.000	1.360	1610.00	387.00		0.882		12.300				
Cantung	61.920000	-128.250000	41.0					58.00	47.00	1.240	7.60	1.200												
Cantung North	62.120000	-128.420000	32.0					21.00	0.80	0.700	19.00	12.900												
Carcajou R / Magel Lake	65.280000	-127.750000																						
Cave and Basin	51.169417	-115.591800	29.4				1107.0				217.00	39.000				140.00								
Cave and Basin	51.169417	-115.591800	35.0				1905.0				400.00	71.000			1120.00	175.00								
Cave and Basin	51.169417	-115.591800	34.4	7.10				31.00								146.00								
Cave and Basin	51.169417	-115.591800	30.0					23.40	6.00	4.500	1028.00	39.200	10.000		580.00	140.00								
Cave and Basin	51.169417	-115.591800	31.0					27.00	5.10	3.800	1015.00	42.800	5.000		559.00	153.00								
Cave and Basin	51.169417	-115.591800	30.0					27.00	5.50	4.500	1208.00	45.900	5.400		696.00	126.00								
Cave and Basin	51.169417	-115.591800	29.8	7.00			1162.0	27.00	5.50	4.500	250.00	45.900	5.400	36.000	688.00	126.00						0.080	45.70	
Cave and Basin	51.169417	-115.591800	31.8	6.80			2026.0	31.00	7.10	6.300	414.00	75.600	5.400	50.000	696.00	154.00						0.390	14.70	
Cedar	50.000000	-119.000000																						
Chief Shakes	56.716940	-132.016940	52.0																					
Choquette (Stikine River Fowler)	56.832460	-131.752720	66.0				880.0																	
Choquette (Stikine River Fowler)	56.832460	-131.752720	59.9	7.65			973.0	61.90	220.00	9.130	55.59	0.294	240.000	0.109	184.00	31.89		1.559		0.207				
Clear Creek	49.68608	-121.74177	43.0					58.00	70.00	2.000	24.00		60.000		144.00	30.90	2.20							
Clear Creek	49.68608	-121.74177						46.00	60.00	2.000	23.00													
Clear Creek	49.68608	-121.74177	44.2	8.52				60.70	82.10	2.680	25.80	0.062	36.590	0.142	108.00	70.80		2.090		0.319				
Columbia Lake	50.000000	-115.000000																						
Crawford Bay (Creek)	49.71155	-116.762520	31.5	6.40				21.40	2.20	1.200	4.40	2.800	0.500	0.005	12.80	19.50		0.088						
Crawford Bay (Creek)	49.71155	-116.762520	29.0	6.49			45.8	21.20	2.25	1.159	4.88	2.759	0.092		9.10	19.80		0.089						
Crawford Bay (Creek)	49.71155	-116.762520	27.5	6.75			43.8	20.00	2.27	1.159	4.12	2.759	0.075		8.43	19.80		0.044						
Daly's (Glacier Creek)	49.826667	-122.452222																						
Deca East	64.170000	-128.420000	22.0					38.00	420.00	6.200	285.00	65.000												
Deca West	64.170000	-128.470000	16.0					34.00	200.00	3.640	155.00	58.800												
Dease Lake	58.450000	-130.000000	16.0	8.00																				
Deer River	59.503640	-125.953660	35.0																					
Dewar Creek	49.955130	-116.516252	82.8	6.40				139.00	206.00	10.900	27.90	0.300	54.000	0.907	287.00	149.00								
Ekwi	64.083333	-128.416667	46.0					54.00	5850.00	80.000	260.00	66.000												

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Name	Al	As	Ba	Be	Bi	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	P	Pb	Rb	Sb	Se	Sr	Si	Ti	Zn	Discharge (L/s)	<sup>92</sup> Geothermal Map No.	Reference	Comments	
Canoe River																											Ghomshei 2007	Vent 4 – Cold spring above the hot springs
Canoe River																											Ghomshei 2007	Vent 5 – Stream from north group valley
Canoe River																											Ghomshei 2007	Vent 6 – Very hot spring from south zone, emerging beneath stump
Canoe River																											Ghomshei 2007	Vent 7 – South pool water
Canoe River																											Ghomshei 2007	Vent 8 – Very hot spring above Champagne Bay in south zone
Canoe River																											Ghomshei 2007	Vent 9 – Kinbasket Lake from mid-lake
Canyon Lake		0.1230																							0.1	S51	Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission. Coordinates from Woodsworth
Canyon Lake																									0.2		Geoscience BC 2016-xx	(2008 sample) Polaris Infrastructure kind permission
Cantung																									30		NWT 2010	
Cantung North																									40		NWT 2010	
Carcajou R / Magel Lake																											NWT 2010	
Cave and Basin																									15.8		Souther 1973	Cave
Cave and Basin																									9.5		Souther 1973	Basin
Cave and Basin																											Mazor 1983	
Cave and Basin																											Grasby 2000	Table 1 - Cave, Elworthy 1918
Cave and Basin																											Grasby 2000	Table 1 – Cave, van Everdingen 1972
Cave and Basin																											Grasby 2000	Table 1 – 1994
Cave and Basin									0.005	0.022		0.0120								1.60			0.015				Grasby 2000	Table 2 - Cave
Cave and Basin									0.008	0.036		0.0150								3.10			0.019				Grasby 2000	Table 2 - Basin
Cedar																										S64	Woodsworth 2015 PC	Not a spring (creek water heated for a hot tub).
Chief Shakes																											Woodsworth 2013	
Choquette (Stikine River Fowler)																									46.5	S18	Souther 1973	
Choquette (Stikine River Fowler)																									0.01		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission
Clear Creek											0.60000														0.83	S91	N.S-B.G 1974	C vent
Clear Creek																											N.S-B.G 1974	D vent
Clear Creek		0.0260																							0.08		Geoscience BC 2016-xx	(2007 sample) By kind permission from Polaris Infrastructure. Coords from Woodsworth 2014
Columbia Lake																										S82	Souther 1973	Warm
Crawford Bay (Creek)		0.0200										0.0050														S99	Souther 1976	Coordinates from Woodsworth (2014)
Crawford Bay (Creek)																									1		Geoscience BC 2016-xx	(HS1 2007 sample) Polaris Infrastructure kind permission
Crawford Bay (Creek)																									1		Geoscience BC 2016-xx	(HS2 2007 sample) Polaris Infrastructure kind permission
Daly's (Glacier Creek)																											Woodsworth PC	Based on highly inaccurate late nineteenth century prospector map.
Deca East																									7		NWT 2010	
Deca West																									<2		NWT 2010	
Dease Lake																										S103		
Deer River																										S6		Coordinates from Woodsworth (unpub)
Dewar Creek																										S96	Grasby 2000	
Ekwi																									30		NWT 2010	

**APPENDIX F: Hot Spring Geochemistry**

Name	Lat	Long	Temp (C)	pH	Conductivity (uS/cm)	Eh (mV)	TDS	SiO2	Na	K	Ca	Mg	Cl	Li	SO4	HCO3	CO3	F	Br	B	I	NO3	H2S
Elaho River	50.450000	-123.550000	8.0	7.40																			
Elwyn Creek	57.772060	-130.745630	25.0	7.26				167.00	662.00	45.000	74.30	101.000	38.900	0.860	0.50	2449.00		0.350					
Elwyn Creek	57.772060	-130.745630	19.5	6.19	1805	238	2005.0	83.40	345.00	29.000	71.80	60.600	36.600	0.350	1.02	1374.00		0.310		0.960			
Elwyn Creek	57.772060	-130.745630	29.0	6.06	2300	166	3083.0	118.00	501.00	41.000	122.00	102.000	68.300	0.530	1.93	2126.00		0.190		1.340			
Elwyn Creek	57.772060	-130.745630	36.0	6.01	2780	137	3639.0	134.00	659.00	49.000	126.00	104.000	51.000	0.660	0.62	2512.00		0.250		1.730			
Elwyn Creek	57.772060	-130.745630	35.8	6.44			2370.0	135.00	665.00	45.500	128.00	111.000	38.900	0.837	1.55	2670.00		0.129		1.920			
EMR Seep	50.105000	-123.367500	17.0	5.50			2500.0	16.80	567.00	6.900	330.00	3.600	394.000	0.120	1218.00	15.50		1.480					
EMR Seep	50.105000	-123.367500	17.5	5.60			2800.0	16.60	606.00	7.200	355.00	3.700	439.000	0.120	1339.00	14.30		1.410					
EMR Seep	50.105000	-123.367500	20.5	8.40			2686.0	18.00	489.00	8.200	402.00	1.000	489.000	0.200	1260.00	13.40	2.40		0.260	2.100			
Eucott Bay	52.45550	-127.311380	54.0	7.54				62.70	922.00	21.200	300.00	6.800	1680.000	0.258	352.00	39.00		2.760					
Eucott Bay	52.45550	-127.311380	41.5	7.52				58.30	882.00	21.300	286.00	6.500	1600.000	0.239	334.00	40.10		2.640					
Fair Harbour	50.066667	-127.083333																					
Fairmont	50.328000	-115.844000	48.9	6.80				38.00								713.00							
Fairmont	50.328000	-115.844000	45.7	6.80	2480			38.00	31.30	6.200	484.80	105.200	40.600		1010.70	710.20		1.500				0.300	
Fairmont	50.328000	-115.844000	45.9	6.05	2360	+330		31.00	32.10	5.900	430.70	113.200	33.100	0.049	985.60	714.20					0.008	0.200	
Fairmont	50.328000	-115.844000	48.9	7.00	2430			34.10	31.10	5.600	472.80	112.200	52.000		991.60	700.20		0.810					
Fairmont	50.328000	-115.844000	46.7	6.25		+468	2276.9	32.90	29.00	5.500	451.00	107.000	34.000	0.044	929.00	685.00							
Fairmont	50.328000	-115.844000	31.6	6.80	2530			35.30	31.70	6.800	480.80	110.200	44.100		1014.70	709.20		1.300				0.400	
Fairmont	50.328000	-115.844000	32.0	6.30	2450	+412		32.00	33.00	6.100	413.60	115.200	34.600	0.053	897.40	704.10					0.006	0.100	
Fairmont	50.328000	-115.844000	42.2	6.80	2050			27.30	23.70	4.400	372.50	88.100	33.000		775.00	627.80		0.980				0.400	
Fairmont	50.328000	-115.844000	34.8	6.10	1950	+416		24.00	22.50	4.300	330.40	88.100	25.000	0.037	682.80	585.70					0.002	0.300	
Fairmont	50.328000	-115.844000	41.8	6.80	1800			21.00	19.90	3.600	314.40	83.100	27.000		628.70	559.60		0.580				0.300	
Fairmont	50.328000	-115.844000	8.5	8.25	220	+420		3.70	0.80	0.400	23.00	14.000	<.0.1		10.00	134.00					0.005	0.200	
Fairmont	50.328000	-115.844000	4.8	8.30	271			6.40	0.60	0.400	31.00	17.000	0.200		11.00	165.00		0.070				0.400	
Fairmont	50.328000	-115.844000	46.6	6.13	2410		2210.0	28.70	30.00	5.430	433.00	105.000	35.200	0.037	898.00	687.00		0.206					
Flat Fruit	61.670000	-127.580000	11.0					43.00	24.00	5.980	470.00	49.000											
Fording Mountain	49.96880	-114.89803	24.7	7.10	3710	-176		16.00	344.70	16.800	345.60	95.200	305.600		1432.80	207.40			0.600		0.098	0.050	
Fording Mountain	49.96880	-114.89803	25.9	7.12	3710	-246		14.00	344.70	16.600	375.70	95.100	305.600		1972.60	245.50			0.500		0.080	0.100	
Fording Mountain	49.96880	-114.89803	20.5	7.15		-236	3051.0	16.80	423.00	18.600	375.00	104.000	355.900	0.921	1483.00	268.70							
Fording Mountain	49.96880	-114.89803	20.5	7.20			3051.0	16.80	423.00	18.600	375.00	104.000	356.000	0.921	1483.00	269.00							
Fosthall	50.383333	-117.933333																					
Franklin	51.150000	-125.516667																					
Frizzell	54.203110	-129.874710	46.0	7.88				46.20	100.00	3.000	139.00	0.400	14.400	0.005	512.00	15.60		0.640					
Frizzell	54.203110	-129.874710	40.4	7.56	964			36.70	79.50	2.340	134.00	0.717	13.300		443.00	22.80		0.469					
Frog River	58.038670	-127.300500																					
Fry Creek	50.083333	-116.750000																					
Goat Harbour	53.356830	-128.890170	44.0				8640.0	59.00	81.00		22.00	0.300	24.000		174.00	2.00							

**APPENDIX F: Hot Spring Geochemistry**

Name	Al	As	Ba	Be	Bi	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	P	Pb	Rb	Sb	Se	Sr	Si	Ti	Zn	Discharge (L/s)	'92 Geothermal Map No.	Reference	Comments			
Elaho River																									S63					
Elwyn Creek		0.0020										0.0020								0.28					2.5	S12	Souther 1976			
Elwyn Creek	0.140	0.0027	0.116					0.004		1.060		0.0320	0.02						0.0008	0.38			0.002		0.3		Piteau 1988	Vent #1		
Elwyn Creek	0.160	0.0038	0.197					0.004		1.010	0.00010	0.1400							0.0020	0.63					0.3		Piteau 1988	Vent #2		
Elwyn Creek	0.170	0.0081	0.295							2.500	0.00005	0.0680	0.02						0.0007	0.68					0.1		Piteau 1988	Vent #5		
Elwyn Creek		0.0060																							0.3		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission		
EMR Seep																											Ryder 1983	Original seep		
EMR Seep																											Ryder 1983	304-2 drill hole		
EMR Seep	0.560	0.2000	0.001	0.200	0.002	0.020	0.008	0.019	0.003	0.060	0.08000	0.0200	0.02	0.01	0.1	0.080								0.005			Dellechaie 1984			
Eucott Bay		0.0400										0.0600														7.6	S39	Souther 1976	44a. Coordinates from Woodsworth (2004, unpub)	
Eucott Bay		0.0600										0.0900															2.5		Souther 1976	44b
Fair Harbour																											S57			
Fairmont																											S77	Mazor 1983		
Fairmont																												Allen 2006	van Everdingen 1969, 1972. FA5	
Fairmont									0.017											3.60								Allen 2006	van Everdingen 1969, 1972. FA6	
Fairmont									0.012	0.030		0.0370												0.062				Allen 2006	van Everdingen 1969, 1972. FA10	
Fairmont										0.027		0.0380									3.51				0.069			Allen 2006	van Everdingen 1969, 1972. FA10-2	
Fairmont																												Allen 2006	van Everdingen 1969, 1972. FB5	
Fairmont																					3.50							Allen 2006	van Everdingen 1969, 1972. FB6	
Fairmont																												Allen 2006	van Everdingen 1969, 1972. FC5	
Fairmont									0.015	0.080		0.0450									2.60							Allen 2006	van Everdingen 1969, 1972. FC6	
Fairmont																								0.039				Allen 2006	van Everdingen 1969, 1972. FC10	
Fairmont																					0.10							Allen 2006	van Everdingen 1969, 1972. FD6	
Fairmont									0.012	0.030		0.0070																Allen 2006	van Everdingen 1969, 1972. FD10	
Fairmont																									0.4			Geoscience BC 2016-xx	(2008 sample) Polaris Infrastructure kind permission	
Flat Fruit																									<3			NWT 2010		
Fording Mountain																					6.50						S101	Allen 2006	van Everdingen 1969, 1972. FMa	
Fording Mountain																					6.20							Allen 2006	van Everdingen 1969, 1972. FMb	
Fording Mountain									0.011	0.083		0.0140									16.80			0.003				Allen 2006	van Everdingen 1969, 1972. FMb-2	
Fording Mountain																												Grasby 2000		
Fosthall																												S70		
Franklin																												S52		
Frizzell		0.0040										0.0020									0.84						S25	Souther 1976	Coordinates from Woodsworth 2014	
Frizzell																									2.5			Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Frog River																												S104		
Fry Creek																												S76		
Goat Harbour																												S31	Souther 1973	

**APPENDIX F: Hot Spring Geochemistry**

Name	Lat	Long	Temp (C)	pH	Conductivity (uS/cm)	Eh (mV)	TDS	SiO2	Na	K	Ca	Mg	Cl	Li	SO4	HCO3	CO3	F	Br	B	I	NO3	H2S
Godlin	64.060000	-128.240000																					
Grizzly Bear	62.670000	-127.920000	44.0					54.00	22.00	23.800	105.00	25.500											
Halcyon	50.518056	-117.900556	53.0				788.0								433.00	48.00							
Halcyon	50.518056	-117.900556	50.5	7.31				81.40	164.00	7.100	52.10	0.600	5.600	0.640	426.00	38.30		7.360					
Halcyon	50.518056	-117.900556	46.5	7.15				84.70	159.50	7.400	50.30	0.600	5.700	0.640	411.00	36.80		7.400					
Halcyon	50.518056	-117.900556	50.8				718.0	71.30	161.00	8.100	57.00		9.000		363.00	48.00							
Halcyon	50.518056	-117.900556	50.3	8.00		-0.185	775.0	37.10	179.00	7.900	60.41	0.660	6.030	0.600	435.00	48.80		7.770		0.050			
Halcyon	50.518056	-117.900556	50.7	7.70			752.0	77.70	159.00	6.900	57.40	0.600	5.700	0.643	396.00	46.00							
Halfway (Kootenay Lake)	50.50465	-117.78627	60.5	8.39				58.30	75.40	3.700	144.00	0.050	1.000	0.069	498.00	10.10							
Halfway (Kootenay Lake)	50.50465	-117.78627	41.8	7.25				48.40	56.00	2.900	108.00	0.800	0.500	0.045	363.00	18.20		3.200					
Halfway (Kootenay Lake)	50.50465	-117.78627	58.9	8.20			805.0	52.80	72.00	3.800	158.00	0.100	4.700	0.062	490.00	19.00		2.200					
Halfway (Kootenay Lake)	50.50465	-117.78627	51.1	8.53			847.0	67.40	101.00	5.340	100.00	0.057	4.070	0.219	405.00	18.60		4.160					
Halfway (Kootenay Lake)	50.50465	-117.78627	52.7	8.39			766.0	67.80	102.00	5.420	97.20	0.097	4.030	0.218	456.00	19.00		4.060					
Harrison	49.306556	-121.796833	63.0				1332.0	59.00															
Harrison	49.306556	-121.796833	60.0				1279.0	74.00															
Harrison	49.306556	-121.796833	63.0	8.25				54.20	350.00	13.000	83.00			0.120	506.00	24.80							
Harrison	49.306556	-121.796833	68.0					107.00	331.00	12.800	80.70	0.050	279.000	0.168	503.00	19.30		2.720					
Harrison	49.306556	-121.796833	61.7					75.90	332.00	12.600	81.50	0.100	275.000	0.168	497.00	21.80		2.720					
Harrison	49.306556	-121.796833	62.4	7.70			1379.0	68.90	355.00	11.700	89.20	0.100		0.164	547.00	19.60							
Harrison	49.306556	-121.796833	68.0	8.09			1750.0	63.50	335.00	9.700	86.70	0.079	337.000	0.159	478.00	17.20		2.279		4.000			
Hartley Bay	53.433333	-129.250000																					
Hole-in-the-Wall	61.700000	-127.280000	47.0					83.00	28.00	0.700	1.20	0.000											
Hoodoo Creek	51.345170	-125.62257	82.5	6.61	6370		3660.0	151.00	1180.00	96.500	56.60	6.100	1340.000	3.670	790.00	26.40		0.159		12.200			
Hoodoo Mt	56.766667	-131.250000																					
Hoosier Ridge Pool	65.380000	-127.570000																					
Hotspring Island	52.575410	-131.442240	76.0					115.00	850.00	63.000	304.00	0.200											
Hudson Hope	55.983333	-122.000000																					
Iskut River	57.082500	-130.361390	74.5	6.95			1760.0	78.09	511.00	26.800	39.40	2.529	153.000	0.594	364.00	711.00	8.41	8.410		4.010			
Job Creek	50.664049	-123.543708	18.8	8.24	620		391.0	14.40	4.54	4.360	110.00	10.800	0.500	0.010	227.00	131.00							
Jones Lake	59.883333	-134.000000	13.0	7.60																			
Jordon Ranch	49.800000	-118.166667	12.0	6.41				40.70	466.00	27.100	137.00	35.200	92.400	1.020	225.00	1404.00		1.620					
Kaslo Creek	49.916667	-117.166667	11.0	6.12				63.80	8.40	1.700	401.00	50.700	0.600	0.005	15.00	1512.00		0.120					
Kaslo Creek	49.916667	-117.166667	6.6	8.10			407.0	10.80	2.19	1.159	112.00	9.479	0.120		22.29	335.00							
Kennedy River	49.083333	-125.583333																					
Khutze Inlet	53.079300	-128.386850	23.0																				
Klekane	53.246140	-128.680960	56.0				8640.0		2523.00	82.000	385.00	179.000	4600.000		717.00	58.00							
Kraus (Clausen Creek)	61.250000	-124.060000	37.0																				

**APPENDIX F: Hot Spring Geochemistry**

Name	Al	As	Ba	Be	Bi	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	P	Pb	Rb	Sb	Se	Sr	Si	Ti	Zn	Discharge (L/s)	'92 Geothermal Map No.	Reference	Comments		
Godlin																											NWT 2010		
Grizzly Bear																								30		NWT 2010			
Halcyon																								2.1	S101	Souther 1973			
Halcyon		0.0010										0.0100												1.24		4.4	Souther 1976	29a	
Halcyon		0.0020										0.0100												1.16		1.3	Souther 1976	29b	
Halcyon																								2.5		Philips 1994	Elworthy 1923		
Halcyon	0.020		0.010							0.010														2.63		Philips 1994			
Halcyon										0.024		0.0110												2.50		0.033	Grasby 2000		
Halfway (Kootenay Lake)												0.0050												2.48		0.4	S68	Souther 1976	30a. Coordinates from Woodsworth (2014)
Halfway (Kootenay Lake)		0.0040										0.0050												1.84		1.3	Souther 1976	30b	
Halfway (Kootenay Lake)		0.0060							0.005	0.028		0.0090												4.80		0.033	Grasby 2000		
Halfway (Kootenay Lake)																									1.0		Geoscience BC 2016-xx	(HS1 2007 sample) Polaris Infrastructure kind permission	
Halfway (Kootenay Lake)																									0.3		Geoscience BC 2016-xx	(HS2 2007 sample) Polaris Infrastructure kind permission	
Harrison																										S92	Souther 1973	Sulphur	
Harrison																											Souther 1973	Potash	
Harrison																								4.2		N.S-B.G 1974			
Harrison		0.0180										0.0020												0.64		9.5	Souther 1976	56a	
Harrison		0.0060										0.0050												0.56		12.6	Souther 1976	56b	
Harrison									0.005	0.016		0.0090												1.30		0.003	Grasby 2000		
Harrison		0.0190																							0.08		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Hartley Bay																										S28			
Hole-in-the-Wall																													
Hoodoo Creek																									30		NWT 2010		
Hoodoo Mt																									5	S50	Geoscience BC 2016-xx	(2008 sample) Polaris Infrastructure kind permission. Coordinates from Woodsworth	
Hoosier Ridge Pool																										S19			
Hotspring Island																												NWT 2010	
Hudson Hope																										S36	Souther 1976		
Iskut River		0.0180																							2		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Job Creek																									<3		C. Hickson kind permission	Originally mapped by P. Read early seventies and identified by GW as WS in Aug 2012.	
Jones Lake																										S3			
Jordon Ranch		0.0040										0.7300													2.68	S94	Souther 1976		
Kaslo Creek		0.0010										1.9200													0.52	S23		Hot	
Kaslo Creek																									3.5		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Kennedy River																										S85			
Khutze Inlet																										S35			
Klekane																										S34	Souther 1973		
Kraus (Clausen Creek)																												NWT 2010	

**APPENDIX F: Hot Spring Geochemistry**

Name	Lat	Long	Temp (C)	pH	Conductivity (uS/cm)	Eh (mV)	TDS	SiO2	Na	K	Ca	Mg	Cl	Li	SO4	HCO3	CO3	F	Br	B	I	NO3	H2S
Lakelse	54.35856	-128.54098	85.0				1109.6	5.60	320.60		46.60	50.200	215.900	10.200	457.20	43.60	2.30	3.300					
Lakelse	54.35856	-128.54098	54.0	7.92				68.20	290.00	9.400	65.50	0.050	193.000	0.131	473.30	21.10		5.540					
Lakelse	54.35856	-128.54098	63.0	7.80			1085.0	134.00	299.00	7.900	76.20	0.100	184.000	0.135	360.00	20.20							
Lakelse	54.35856	-128.54098	70.2	7.07	1237			53.30	200.00	5.580	54.90	0.154	122.000	0.097	330.00	28.40		3.360					
Len King (King Creek)	56.48499	-130.656890	40.0	7.48	3850			145.00	437.00	14.500	413.00	207.000	200.000	0.070	1900.00	1110.00							
Len King (King Creek)	56.48499	-130.656890	33.6	6.85			3420.0	137.00	526.00	16.100	437.00	201.000	205.000	0.239	1310.00	1540.00		0.048		3.260			
Lepine Creek	59.450000	-124.816667																					
Liard	59.43127	-126.10012	52.0				1195.0	57.00					23.000										
Liard	59.43127	-126.10012	50.0	6.50			1177.0	94.10	16.40	10.100	226.00	34.400	16.700	0.092	592.00	180.00							
Lussier (Whiteswan)	50.135200	-115.576900	43.4	7.10				36.00								218.00							
Lussier (Whiteswan)	50.135200	-115.576900	43.4	7.10	5220	-88		36.00	876.70	10.000	145.30	25.000	1404.800		135.30	218.40					0.015	0.005	2.00
Lussier (Whiteswan)	50.135200	-115.576900	43.2	7.07		-51	2937.1	36.60	979.00	10.600	115.00	24.800	1400.000	0.080	148.00	222.00						0.052	32.00
Lussier (Whiteswan)	50.135200	-115.576900	43.3	7.07	5330		497.0	5.04	1.18	0.500	101.00	26.000	0.716		233.00	133.00		0.074					
Lymnae	64.150000	-128.430000	21.0																				
McArthur	63.068333	-135.701944	54.5																				
Meager Creek	50.576667	-123.460000	59.0	6.20				164.00	450.00	47.000	81.00	25.000	675.000	1.200	110.00	468.00							
Meager Creek	50.576667	-123.460000	56.0					201.00	410.00	84.000	78.00	24.500											
Meager Creek	50.576667	-123.460000	58.0					220.00	440.00	91.000	89.00	27.300											
Meager Creek	50.576667	-123.460000	55.0					164.00	450.00	47.000	81.00	25.000	675.000		110.00	468.00							
Meager Creek	50.576667	-123.460000	31.4	6.50				56.00	165.00	23.700	92.00	15.400			25.00	503.00							
Meager Creek	50.576667	-123.460000	30.0	6.80				54.00	248.00	27.000	83.50	17.100			50.00	260.00							
Meager Creek	50.576667	-123.460000	48.5	6.40				80.50	347.00	44.000	92.00	24.800			65.00	450.00							
Meager Creek	50.576667	-123.460000	56.0	6.05				92.00	377.00	46.200	94.00	34.100			170.00	458.00							
Meager Creek	50.576667	-123.460000	56.5	6.15				96.00	410.00	52.000	105.00	40.500			180.00	686.00							
Meager Creek	50.576667	-123.460000	50.0	6.60				102.00	390.00	48.500	92.00	31.000			145.00	595.00							
Meager Creek	50.576667	-123.460000	47.0	7.20			1853.0	172.00	419.00	44.600	77.50	24.700	543.000	1.150	125.00	445.00							
Meilleur	61.130000	-124.900000																					
Mess Creek	57.400670	-130.923620	41.2	6.81				71.50	1186.00	38.200	564.00	77.100	393.000	1.280	1960.00	2074.00		0.290					
Mess Creek	57.400670	-130.923620	41.5	6.96				60.50	290.00	14.800	127.00	18.700	166.000	0.275	405.00	469.40		2.200					
Mess Creek	57.400670	-130.923620	42.5	6.20	2400	-026	1216.0	44.50	190.00	18.000	138.00	20.400	209.000	0.310	150.00	441.00		1.700		13.800			
Mess Creek	57.400670	-130.923620	13.0	6.69	4800	+367	4858.0	51.80	950.00	44.000	361.00	94.700	526.000	1.110	560.00	2243.00		0.380		0.920			
Mess Creek	57.400670	-130.923620	42.5	6.55			16100.0	51.80	352.00	15.500	145.00	19.300	191.000	0.354	386.00	581.00		1.610		0.902			
Middle Spring	51.162250	-115.575300	34.8	7.80																			
Middle Spring	51.162250	-115.575300	22.0	7.20				30.00	5.50	4.600	246.00	48.100	5.400	0.034	688.00	166.00	1195.00					0.060	36.70
Miette	53.129840	-117.772356	49.0				503.0	9.00	50.00	<0.01	86.00	22.000	45.000		115.00	281.00							
Miette	53.129840	-117.772356	49.0				1825.0	116.00	13.00	17.300		65.000			45.00		116.00						
Miette	53.129840	-117.772356	54.4	7.10				65.00								129.00							

**APPENDIX F: Hot Spring Geochemistry**

Name	Al	As	Ba	Be	Bi	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	P	Pb	Rb	Sb	Se	Sr	Si	Ti	Zn	Discharge (L/s)	'92 Geothermal Map No.	Reference	Comments		
Lakelse										18.200					8.2											S26	Souther 1973	Coordinates from Woodsworth 2014 are for large circular pool just west of the highway	
Lakelse		0.0060										0.0600								1.68					6.94		Souther 1976		
Lakelse									0.004	0.049		0.0010												4.20	0.005		Grasby 2000		
Lakelse																									2.00		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Len King (King Creek)	0.170		0.013							0.500		0.0050														S106	Piteau 1988		
Len King (King Creek)		0.0044																							2		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Lepine Creek																										S10		Warm	
Liard																									4.7	S7	Souther 1973	Coordinates from Woodsworth (2014)	
Liard									0.007	0.024		0.0170								7.70			0.010				Grasby 2000		
Lussier (Whiteswan)																										S79	Mazor 1983		
Lussier (Whiteswan)																				1.00					4		Allen 2006	van Everdigen 1969, 1972 – LC7	
Lussier (Whiteswan)									0.006	0.023		0.0080								1.09			0.016				Allen 2006	LC7-2	
Lussier (Whiteswan)																									3		Geoscience BC 2016-xx	(2008 sample) Polaris Infrastructure kind permission	
Lymnae																												NWT 2010	
McArthur																												Woodsworth 2013	
Meager Creek																									8.3	S60	N.S-B.G 1974	Main vent	
Meager Creek																									6.3		Souther 1976	52a	
Meager Creek																									18.9		Souther 1976	52b	
Meager Creek																									12.6		Souther 1976	52c	
Meager Creek										0.450		0.4500																Hammerstrom 1977	01
Meager Creek										0.500		0.9500																Hammerstrom 1977	03
Meager Creek												0.3200																Hammerstrom 1977	05
Meager Creek										0.150		0.6500																Hammerstrom 1977	06 (GSC1)
Meager Creek										0.300		0.6500																Hammerstrom 1977	17 (GSC1)
Meager Creek												0.3400																Hammerstrom 1977	18
Meager Creek									0.005	0.050		0.2570								2.40			0.003					Grasby 2000	
Meilleur																												NWT 2010	
Mess Creek		0.0040										0.0100								5.64					3.20	S15	Souther 1976	Mess Lake	
Mess Creek		0.0260										0.1200								1.32					1.30			Souther 1976	Mess Creek
Mess Creek	0.340	0.0240	0.073									0.1700							0.0007	2.85			0.007	0.50			Piteau 1988	HS	
Mess Creek	0.250	0.0006	0.016				0.010	0.005	0.011	7.100	0.00100	0.4200				0.002			0.0002	9.74				0.01			Piteau 1988	Lake Spring	
Mess Creek		0.0350																							0.20			Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission
Middle Spring																												Mazor 1983	
Middle Spring									0.004	0.035		0.0140								1.60			0.016					Grasby 2000	
Miette																												Souther 1973	33A
Miette																												Souther 1973	33B
Miette																												Mazor 1983	

**APPENDIX F: Hot Spring Geochemistry**

Name	Lat	Long	Temp (C)	pH	Conductivity (uS/cm)	Eh (mV)	TDS	SiO2	Na	K	Ca	Mg	Cl	Li	SO4	HCO3	CO3	F	Br	B	I	NO3	H2S
Miette	53.129840	-117.772356	51.8	6.90			1828.0	52.20	9.80	14.800	375.00	64.500	4.000	0.083	1168.00	127.00							1.00
Mist Mt	50.547033	-114.891633	33.0	7.50			529.0	24.80	5.30	1.000	111.00	24.800	2.800	0.011	280.00	79.20						0.170	
Moonscape	64.530000	-129.250000	11.0																				
Moore's	62.340000	-128.130000	40.0																				
Morin South	59.966667	-134.216667	14.0	8.20																			
Mount Maldur	50.366667	-118.000000																					
Mountain 1	64.530000	-129.250000	10.0					34.00	80.00	1.600	350.00	102.000											
Mountain 2	64.520000	-129.250000	10.0					34.00	82.00	1.600	390.00	112.000											
Mountain 3	64.630000	-129.220000	9.0					34.00	2.80	0.700	270.00	60.000											
Mountain River / Gayna R	65.420000	-128.130000																					
Mutton Creek	50.000000	-115.666667																					
Nahanni Headwater	62.820000	-128.830000	64.0					109.00	56.00	1.680	2.80	0.000											
Nahanni North	62.370000	-128.670000	58.0					78.00	67.00	1.360	1.90	0.000											
Nakina	59.270670	-132.619500																					
Nakusp	50.29776	-117.67432	54.5	7.50				22.10	72.60	4.200	51.50	0.400	1.300	0.048	262.00	17.60		0.800					
Nakusp	50.29776	-117.67432	53.0	7.06				10.60	84.00	5.000	59.90	0.300	1.500	0.066	300.00	18.00		0.336					
Nakusp	50.29776	-117.67432	57.7	8.15		-0.212		34.10	95.00	5.700	68.71	0.340	2.340	0.060	300.00	30.98		2.320		0.070			
Nakusp	50.29776	-117.67432	55.8	7.90			599.0	62.00	85.50	5.800	68.70	0.300	1.500	0.071	290.00	80.00							5.20
Nakusp	50.29776	-117.67432	48.5	8.32			461.0	54.90	72.00	3.500	50.60	0.650	1.620	0.059	226.00	20.20		2.100					
Nakusp	50.29776	-117.67432	55.2	7.98			546.0	59.80	84.80	4.320	58.00	0.213	1.710	0.061	261.00	16.80		2.250					
Nascall Bay	52.485550	-127.281111	43.0																				
Nash Creek	64.551389	-134.701389	65.0																				
No Good	50.562667	-123.515000	34.5	6.40			1470.0	120.00	320.00	32.000	88.00	16.000	470.000	1.000	110.00	310.00		0.200		2.500			
Ocean Falls	52.366667	-127.666667																					
Octopus Creek	49.736840	-118.076210	48.8	7.56				108.00	143.50	5.600	17.50	1.100	44.200	0.126	128.00	176.30		8.100					
Octopus Creek	49.736840	-118.076210	28.6	7.89			517.0	81.59	127.00	4.809	19.79	1.500	1.240	0.109	121.00	180.00		5.780					
Pebble Creek	50.66785	-123.46068	60.0	8.00				75.50	425.00	14.500	30.00	4.700	100.000	1.200		757.00		5.000					
Pebble Creek	50.66785	-123.46068	59.5	7.90				99.00	415.00	10.000	54.00	5.300											
Pebble Creek	50.66785	-123.46068	53.5	7.70				40.00	410.00	13.800	44.00	6.600	72.000		315.00	992.00							
Pebble Creek	50.66785	-123.46068	59.0	6.85				43.00	396.00	18.200	42.00	6.100	67.000		278.00	992.00							
Pebble Creek	50.66785	-123.46068	50.5	8.00				44.00	418.00	18.900	39.00	7.000	72.000		340.00	1068.00							
Pebble Creek	50.66785	-123.46068	59.0	6.70				60.00	405.00	18.900	32.50	7.000	71.000		385.00	1053.00							
Pebble Creek	50.66785	-123.46068	56.2	6.67	1920		1360.0	77.60	437.00	11.300	39.80	5.170	81.000	0.607	321.00	617.00		10.000		0.900			
Phillips Arm	50.500000	-125.350000																					
Pinter	51.300000	-125.616667																					
Pipestem	49.050000	-125.200000																					
Pitt River	49.696130	-122.708920	57.3	8.17				68.20	212.50	8.200	83.50	0.050	196.000	0.145	362.00	20.50		1.460					

**APPENDIX F: Hot Spring Geochemistry**

Name	Al	As	Ba	Be	Bi	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	P	Pb	Rb	Sb	Se	Sr	Si	Ti	Zn	Discharge (L/s)	'92 Geothermal Map No.	Reference	Comments		
Miette									0.011	0.043		0.0170												12.50			Grasby 2000		
Mist Mt										0.007		0.0020												0.76			Grasby 2000		
Moonscape																											NWT 2010		
Moore's																											NWT 2010		
Morin South																										S2			
Mount Maldur																										S65			
Mountain 1																									15		NWT 2010		
Mountain 2																									<3		NWT 2010		
Mountain 3																									25		NWT 2010		
Mountain River / Gayna R																											NWT 2010		
Mutton Creek																											S81		
Nahanni Headwater																									60		NWT 2010		
Nahanni North																									40		NWT 2010		
Nakina																										S107	Woodsworth 2014	Warm	
Nakusp		0.0040										0.0050												1.08	3.20	S71	Souther 1976	32a. Coordinates from Woodsworth (unpub) is for source, not pools.	
Nakusp		0.0040										0.0200												0.76	3.20		Souther 1976	32b	
Nakusp			0.040							0.020														5.34			Philips 1994		
Nakusp										0.021		0.0080												4.70	0.030		Grasby 2000		
Nakusp																									0.13		Geoscience BC 2016-xx	(HS1 2007 sample) Polaris Infrastructure kind permission	
Nakusp																									1.00		Geoscience BC 2016-xx	(HS2 2007 sample) Polaris Infrastructure kind permission	
Nascall Bay																											S38		
Nash Creek																												Woodsworth 2013	
No Good																											S60B	N.S-B.G 1981	
Ocean Falls																											S37		
Octopus Creek		0.0020										0.1400															S95	Souther 1976	Coordinates from Woodsworth (unpub)
Octopus Creek																									0.1		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Pebble Creek																									1.70	S59	N.S-B.G 1974		
Pebble Creek																									0.95		Souther 1976		
Pebble Creek												0.0900																Hammerstrom 1977	07
Pebble Creek										0.150		0.1000																Hammerstrom 1977	08
Pebble Creek												0.0900																Hammerstrom 1977	12
Pebble Creek										0.150		0.1100																Hammerstrom 1977	13
Pebble Creek		0.1440	0.075							0.180		0.2240																C. Hickson kind permission	2012 Sample
Phillips Arm																											S58		
Pinter																											S49		
Pipestem																											S86		
Pitt River		0.0380										0.0020													0.44	0.44	S90	Souther 1976	

**APPENDIX F: Hot Spring Geochemistry**

Name	Lat	Long	Temp (C)	pH	Conductivity (uS/cm)	Eh (mV)	TDS	SiO2	Na	K	Ca	Mg	Cl	Li	SO4	HCO3	CO3	F	Br	B	I	NO3	H2S	
Placid	50.562667	-123.482000	45.1	5.89			2013.0	138.00	433.00	53.500	114.00	27.600	674.000		174.00	398.00								
Portage Brule	59.630330	-126.905500	44.0				814.0		41.00	34.000	125.00	77.000	64.000		77.00	725.00		0.330						
Prophet River	57.651670	-124.025000	37.0																					
Rabbitkettle	61.950000	-127.180000	21.0					40.00	3.85	4.840	200.00	39.800												
Radium	50.634722	-116.040556	45.5	6.90				45.00								216.00								
Radium	50.634722	-116.040556	45.1	6.80					15.00	3.000	144.10	32.000	10.800		319.10	206.10								
Radium	50.634722	-116.040556	44.0	6.69		+518	827.8	38.60	14.90	3.270	150.00	33.200	13.200	0.040	356.00	217.00								
Ram Bluff	52.450000	-127.240000																						
Ram Creek	50.032900	-115.592760	34.6	7.60	400				2.60	1.300	50.00	15.000	1.700		57.00	155.00						0.500		
Ram Creek	50.032900	-115.592760	36.5	7.68		+481	294.0	21.30	2.40	1.300	49.20	14.500	1.200	0.002	56.00	148.00								
Ram Creek	50.032900	-115.592760	35.5	7.77	348		348.0	21.00	1.76	1.080	48.80	14.300	1.560		49.20	143.00		0.103						
Ray's Mineral Spring	52.100000	-120.000000	11.0	6.87				102.00	138.00	17.600	618.00	109.000	4.000	0.335	0.50	2837.00		0.061						
Red Rock	50.23991	-115.69698	18.3	6.30		+185	1199.3	6.00	10.00	2.400	220.00	59.000	11.900	0.019	379.00	511.00								
Redstone Jct 1	63.530000	-125.700000	15.0					47.00	88.50	2.540	88.00	34.100												
Redstone Jct 2	63.550000	-125.730000	8.0					31.00	5.30	0.480	69.00	35.200												
Redstone North	63.720000	-126.420000	9.0					40.00	12.40	0.920	39.00	34.500												
Redstone South	63.400000	-125.870000	54.0					58.00	49.00	1.460	72.00	21.000												
Riondel	49.759444	-116.861944	30.0					175.00	440.00	60.000		190.000	70.000		190.00									
Riske	51.998430	-122.579390	8.0	7.10				55.00	357.00	8.600	31.00	232.000	7.300	0.157	135.00	2071.00		0.060						
Riske	51.998430	-122.579390	4.9	6.29			2860.0	36.79	376.00	7.400	303.00	254.000	0.090	0.177	112.00	2990.00		0.020		0.191				
Roche-qui-trempe-a-l'eau	63.300000	-123.620000	31.0				12556.0						5226.000		2810.00	184.00		3.000				1.000		
Sculpin	63.940000	-129.310000																						
Sezill (Tawah Creek)	57.68466	-130.76424	43.0	9.18				191.00	476.00	55.600	3.70	132.000	50.200	0.680	0.50	1466.00		0.084						
Sezill (Tawah Creek)	57.68466	-130.76424	45.9	6.71	3005	82	3489.0	144.00	529.00	62.000	171.00	136.000	61.200	0.560	1.78	2455.00		0.160		1.340				
Sezill (Tawah Creek)	57.68466	-130.76424	43.0	6.77	3000	103	3516.0	144.00	529.00	63.000	170.00	138.000	63.200	0.580	1.83	2401.00		0.110		2.160				
Sezill (Tawah Creek)	57.68466	-130.76424	46.0	6.72	2900	129	3033.0	122.00	444.00	54.000	143.00	116.000	58.200	0.480	1.59	2088.00		0.090		1.820				
Sezill (Tawah Creek)	57.68466	-130.76424	45.9	6.42			5230.0	152.00	515.00	54.600	167.00	141.000	52.700	0.732	5.01	2440.00		0.023		2.310				
Sharp Point (Hot Spring Cove)	49.349690	-126.259540	52.0				483.0	59.00	137.00	2.000	20.00	1.000	217.000		47.00									
Sharp Point (Hot Spring Cove)	49.349690	-126.259540	50.5	8.38				52.80	141.20	2.000	17.70	0.050	206.000	0.072	36.00	22.30		1.320						
Sharp Point (Hot Spring Cove)	49.349690	-126.259540	50.3	8.71		-246	524.0	50.10	149.00	2.000	22.70	0.080	224.000	0.050	31.05	38.80	1.30	1.550	1.100	2.290				
Sharp Point (Hot Spring Cove)	49.349690	-126.259540	58.5	7.80			469.0	37.30	143.00	0.170	18.20	0.100	211.000	0.067	36.00	20.90						9.600	8.20	
Shearwater (Europa)	53.450530	-128.560520	44.0				1229.0	90.00	259.00	29.000	67.00	5.000	60.000		546.00	167.00								
Sheemahant	51.751944	-126.54667	61.9																					
Shelsay	58.363000	-131.880830																						
Shovelnose Creek	50.084444	-123.279833	27.3	6.80			1666.0	45.00	402.00	75.000	83.00	13.000	787.000	1.300	60.00	199.00		0.500	0.015	3.500				
Shovelnose Creek	50.084444	-123.279833	15.5	5.95			9040.0	70.19	1530.00	235.000	358.00	80.900	2500.000	6.989	179.00	1280.00		0.241		1.880				
Sloquet	49.730120	-122.327110	64.0	8.40				59.00	112.00	3.400	76.00	-0.200	40.000		440.00	14.80								

**APPENDIX F: Hot Spring Geochemistry**

Name	Al	As	Ba	Be	Bi	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	P	Pb	Rb	Sb	Se	Sr	Si	Ti	Zn	Discharge (L/s)	'92 Geothermal Map No.	Reference	Comments	
Placid										0.350		0.7600													S60A	N.S-B.G 1981		
Portage Brule										1.000		0.0800										40.00			S5	Souther 1973		
Prophet River																									S16	Woodsworth 2014		
Rabbitkettle																									<2		NWT 2010	
Radium																									S74	Mazor 1983		
Radium																										Allen 2006	van Everdingen 1969, 1972 – RA1	
Radium									0.007	0.031		0.0120								1.60			0.024			Allen 2006	RA 1-2	
Ram Bluff																									S40		Warm	
Ram Creek																					0.20					S80	Allen 2006	van Everdingen 1969, 1972 – RC7. Coordinates from Woodsworth 2014
Ram Creek												0.0040									0.20		0.005			Allen 2006	RC 7-2	
Ram Creek		0.0089																						1.5		Geoscience BC 2016-xx	(2008 sample) Polaris Infrastructure kind permission	
Ray's Mineral Spring		0.0040										0.4100								1.16							Souther 1976	
Red Rock									0.000	0.006		0.0006											0.021			Allen 2006		
Redstone Jct 1																									25		NWT 2010	
Redstone Jct 2																									4		NWT 2010	
Redstone North																											NWT 2010	
Redstone South																									120		NWT 2010	
Riondel																											Woodsworth 2014	
Riske		0.0040										0.0200								0.16						S43	Souther 1976	
Riske																							0.100			Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Roche-qui-trempe-a-l'eau																						24.00		0.05			Souther 1973	
Sculpin																											NWT 2010	
Sezill (Tawah Creek)		0.0060																			0.01				1.9	S13	Souther 1976	
Sezill (Tawah Creek)	0.160	0.0190	0.405					0.004		4.510	0.00006	0.0370								0.0020	1.30			0.3		Piteau 1988	Main vent	
Sezill (Tawah Creek)	0.160	0.0180	0.389					0.004	0.007	2.500	0.00005	0.0370									1.24			0.3		Piteau 1988	Mushroom	
Sezill (Tawah Creek)	0.170	0.0150	0.342					0.004	0.005	5.070		0.2100								0.0001	1.06			0.3		Piteau 1988	South hot spring	
Sezill (Tawah Creek)		0.0140																						2.0		Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Sharp Point (Hot Spring Cove)																									6.3	S83	Souther 1973	Coordinates from Woodsworth 2014
Sharp Point (Hot Spring Cove)		0.0060										0.0200									0.01				6.3		Souther 1976	
Sharp Point (Hot Spring Cove)	0.020																				0.15				5.0		Philips 1994	
Sharp Point (Hot Spring Cove)										0.015		0.0030									0.17		0.004				Grasby 2000	
Shearwater (Europa)																										S32	Souther 1973	
Sheemahant																									3	S48	Woodsworth 2014	
Shelsay																										S8		
Shovelnose Creek	0.210	0.2000		0.001	0.200	0.002	0.010	0.002	0.005	0.080	0.05000	0.0800	0.01	0.01	0.1	0.050		0.050	0.0500				0.005			S62	Dellechiaie 1984	
Shovelnose Creek		0.0340															0.563								0.01		Geoscience BC 2016-xx	(1.5 km seep downstream from spring 2007 sample) Polaris Infrastructure kind permission
Sloquet																									1.67	S89	N.S-B.G 1974	

**APPENDIX F: Hot Spring Geochemistry**

Name	Lat	Long	Temp (C)	pH	Conductivity (uS/cm)	Eh (mV)	TDS	SiO2	Na	K	Ca	Mg	Cl	Li	SO4	HCO3	CO3	F	Br	B	I	NO3	H2S	
Sloquet	49.730120	-122.327110	68.0	8.73				86.90	112.80	3.300	82.50	0.050	49.800	0.030	347.00	10.60		0.730						
Sloquet	49.730120	-122.327110	67.5	8.73				80.30	125.60	3.500	87.70	0.050	58.700	0.033	352.00	12.80		0.800						
Sloquet	49.730120	-122.327110	60.8	8.60			727.0	65.20	114.00	3.100	83.50	0.000	59.700	0.024	375.00	25.80								
Snippaker Creek (Julian Lake)	56.534720	-130.723000																						
Snowshoe Rabbit	49.916667	-118.183333																						
Sphaler Creek	57.04258	-131.24553	48.5	6.59			1360.0	69.90	396.00	16.300	64.80	12.300	63.400	0.372	145.00	963.00		3.890		1.790				
St. Leon	50.43379	-117.85385	50.0	8.28				71.50	117.20	6.000	130.00	0.050	1.700	0.222	548.00	13.90		5.160						
St. Leon	50.43379	-117.85385	49.0	8.28				70.40	114.80	5.600	127.00	0.100	2.000	0.224	532.00	16.70		4.800						
St. Leon	50.43379	-117.85385	48.3	8.55		-0.181		34.30	131.00	7.100	157.81	0.130	2.260	0.230	535.00	15.86		5.690		0.050				
St. Leon	50.43379	-117.85385	46.5	8.40			957.0	63.80	116.00	5.800	142.00	0.100	5.000	0.236	560.00	59.00							3.80	
St. Leon	50.43379	-117.85385	43.3	8.19			809.0	56.50	111.00	5.220	128.00	0.096	2.260	0.230	523.00	16.70		4.310						
St. Leon	50.43379	-117.85385	46.6	8.58			882.0	57.90	116.00	5.390	137.00	0.053	2.280	0.233	548.00	13.70		4.019						
Sulphur Cold	53.045183	-118.082500	8.8	7.00				8.20	66.20	9.800	95.00	32.100	82.200	0.319	168.00	265.00								
Takhini	60.878700	-135.358500	46.2	6.60				89.10	35.10	8.800	611.00	79.200	1.000	0.033	1670.00	112.00								
Talheo North	52.209080	-126.939700	64.0	8.02				107.00	157.50	7.000	15.60	0.050	90.000	0.390	168.00	81.90		6.020						
Tatshenshini	59.500000	-137.666667																						
Taylor	50.053880	-117.934860	25.0	7.98				28.80	31.50	2.800	18.80	1.200	6.100	0.037	60.00	58.90		1.580						
Taylor	50.053880	-117.934860	23.3	8.39			203.0	14.30	32.50	2.579	18.89	1.159	7.389	0.046	65.67	58.50		1.380						
Tchentlo	55.233050	-125.250270	26.8	6.68	1033			17.60	3.25	1.210	137.00	40.000	0.237		4.86	652.00								
Tiell	53.250000	-132.000000	7.5					111.00	870.00	62.000	308.00	0.300												
Toad River	58.924830	-125.077830																						
Toby Creek (Delphine Creek)	50.416667	-116.316667	11.0	6.30				12.20	94.20	4.800	408.00	97.000	9.600	0.101	714.00	1080.00		1.440						
Toby Creek (Delphine Creek)	50.416667	-116.316667	8.9	6.28		263.6	3068.0	70.00	137.00	5.900	509.00	124.000	13.000	0.148	900.00	1307.00								
Trutch	57.733333	-122.966667																						
Tsek (Skookumchuck St Agnes)	49.965000	-122.431389	54.0	8.40				62.00	240.00	5.000	130.00		340.000		420.00	15.80								
Tsek (Skookumchuck St Agnes)	49.965000	-122.431389	54.0	7.63				77.00	243.00	8.300	153.00	0.200	335.000	0.233	398.00	12.30		2.400						
Tsek (Skookumchuck St Agnes)	49.965000	-122.431389	50.0	7.90			938.0	57.60	242.00	7.300	157.00	0.300	18.600	0.202	434.00	18.60						9.700		
Tsek (Skookumchuck St Agnes)	49.965000	-122.431389	46.6	8.17			1470.0	55.40	240.00	7.120	154.00	1.190	360.000	0.209	383.00	13.60		2.180		0.447				
Tuitye (Stinky)	63.800000	-129.870000	24.0																					
Turbid Creek	50.100556	-123.294444	29.1	8.10			5438.0	89.00	911.00	73.000	474.00	168.000	1190.000	1.300	1140.00	1400.00		0.500	0.020	3.900				
Turbid Creek	50.100556	-123.294444	27.2	5.99			4230.0	81.09	772.00	58.200	412.00	131.000	869.000	1.519	1020.00	1260.00		0.180		3.829				
Turbid Creek	50.100556	-123.294444	16.4	5.83			5000.0	51.90	917.00	160.000	299.00	63.600	1800.000	4.039	69.80	848.00		0.175		5.090				
Turbid Creek	50.100556	-123.294444	15.5	6.15			4100.0	66.19	716.00	57.400	406.00	120.000	846.000	1.230	1030.00	884.00		0.152		3.230				
Twenty Mile Bay	49.536435	-121.882589																						
Unnamed	62.030000	-128.280000																						
Unnamed	62.400000	-127.920000																						
Unnamed	64.500000	-125.000000																						

**APPENDIX F: Hot Spring Geochemistry**

Name	Al	As	Ba	Be	Bi	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	P	Pb	Rb	Sb	Se	Sr	Si	Ti	Zn	Discharge (L/s)	'92 Geothermal Map No.	Reference	Comments		
Sloquet		0.0040										0.0020								0.24							Souther 1976	55a	
Sloquet		0.0060										0.0050								0.24							Souther 1976	55b	
Sloquet									0.006	0.010		0.0090								0.50			0.002				Grasby 2000		
Snippaker Creek (Julian Lake)																											Woodsworth 2013		
Snowshoe Rabbit																										S93			
Sphaler Creek																								0.2		S11			
St. Leon		0.0020										0.0020								2.64				0.63		S69	Souther 1976	31a	
St. Leon		0.0040										0.0050								2.40				0.95			Souther 1976	31b	
St. Leon	0.020		0.020							0.040										5.72							Philips 1994		
St. Leon									0.003	0.023		0.0110								5.20			0.011				Grasby 2000		
St. Leon																								1.00			Geoscience BC 2016-xx	(HS1 2007 sample) Polaris Infrastructure kind permission	
St. Leon																								0.50			Geoscience BC 2016-xx	(HS2 2007 sample) Polaris Infrastructure kind permission	
Sulphur Cold																												Grasby 2000	
Takhini																												Grasby 2000	
Talheo North		0.0240										0.0020									0.40						S41	Souther 1976	
Tatshenshini																											S1		
Taylor		0.0010										0.0020															S73	Souther 1976	Coordinates from Woodsworth 2014
Taylor																								1			Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Tchentlo		0.0041																						1		S22	Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Tiell																											S27	Souther 1976	
Toad River																											S9	Woodsworth 2014	Hot
Toby Creek (Delphine Creek)		0.0010										0.7300								0.76							S75	Souther 1976	
Toby Creek (Delphine Creek)									0.012	0.040		0.8890								2.10			0.019					Allen 2006	
Trutch																											S17		
Tsek (Skookumchuck St Agnes)																								0.67		S87	N.S-B.G 1974		
Tsek (Skookumchuck St Agnes)		0.0010										0.0200								1.44				0.95				Souther 1976	
Tsek (Skookumchuck St Agnes)									0.005	0.050		0.2570								2.40			0.003					Grasby 2000	
Tsek (Skookumchuck St Agnes)																								2.50			Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Tuitye (Stinky)																												NWT 2010	
Turbid Creek	0.080	0.2000		0.001	0.200	0.002	0.010	0.004	0.005	0.190	0.05000	0.9300	0.01	0.01	0.1	0.050		0.100	0.0700				0.104			S61	Dellechaie 1984		
Turbid Creek	0.021																0.186							1			Geoscience BC 2016-xx	(Spring 2007 sample) Polaris Infrastructure kind permission	
Turbid Creek	0.004																0.470							0.02			Geoscience BC 2016-xx	(Seep 2007 sample) Polaris Infrastructure kind permission	
Turbid Creek																	0.188							0.02			Geoscience BC 2016-xx	(Seep 2007 sample) Polaris Infrastructure kind permission	
Twenty Mile Bay																												Woodsworth 2013	
Unnamed																												NWT 2010	
Unnamed																												NWT 2010	
Unnamed																												NWT 2010	

**APPENDIX F: Hot Spring Geochemistry**

Name	Lat	Long	Temp (C)	pH	Conductivity (uS/cm)	Eh (mV)	TDS	SiO2	Na	K	Ca	Mg	Cl	Li	SO4	HCO3	CO3	F	Br	B	I	NO3	H2S	
Upper Halfway	50.498650	-117.654660	55.0	8.31			758.0	67.80	102.00	5.420	97.20	0.097	4.030	0.218	456.00	19.00		4.060						
Upper Hot Springs	51.150556	-115.560833	46.0				1098.0				239.00	40.000			634.00	133.00								
Upper Hot Springs	51.150556	-115.560833	47.3	7.10				31.00								138.00								
Upper Hot Springs	51.150556	-115.560833	41.3	7.70			1200.0	37.00	6.30	4.900	258.00	43.500	6.200	0.040	711.00	132.00						0.050	24.30	
Vermillion Lake	51.178600	-115.601900	19.7	7.10				9.00								171.00								
Washwash	51.866667	-126.666667																						
Weewanie	53.696830	-128.789000	48.0	8.60																				
Whiskey Point	50.695000	-117.816667																						
Wild Horse	49.810640	-115.48164	28.5	7.22				22.10	5.00	5.200	301.00	48.400	2.300	0.027	828.00	119.30		0.800						
Wild Horse	49.810640	-115.48164	12.5	7.52				10.60	1.60	2.300	119.00	24.000	1.100	0.017	276.00	135.20		0.336						
Wild Horse	49.810640	-115.48164	31.0	7.13		+537	1629.0	30.70	5.90	6.200	378.00	59.500	2.400	0.023	1038.20	105.30		0.700				0.210		
Wild Horse	49.810640	-115.48164	33.0	7.11	1703		1670.0	27.70	6.59	6.900	383.00	62.700	3.590	0.026	1090.00	108.00		0.712						
Wild Mint	61.420000	-126.580000	29.0					45.00	1.40	2.540	125.00	25.500												
Williams Lake	51.966667	-121.833333	12.0	6.50																				
Wilson	50.218611	-117.551667	33.1	9.22			88.8	40.79	17.39	0.140	7.55	0.046	0.159		17.10	36.59		0.027						
Wolfenden	50.833333	-116.266667	27.7	6.80			1097.0	18.20	48.40	4.600	120.00	84.700	78.000	0.017	210.00	531.00						4.500		

**APPENDIX F: Hot Spring Geochemistry**

Name	Al	As	Ba	Be	Bi	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	P	Pb	Rb	Sb	Se	Sr	Si	Ti	Zn	Discharge (L/s)	'92 Geothermal Map No.	Reference	Comments		
Upper Halfway																								0.3					
Upper Hot Springs																									8.2		Souther 1973		
Upper Hot Springs																											Mazor 1973		
Upper Hot Springs									0.004	0.035		0.0060								1.70				0.016			Grasby 2000		
Vermillion Lake																												Mazor 1983	
Washwash																										S47			
Weewanie																										S29			
Whiskey Point																										S66			
Wild Horse		0.0040										0.0020								1.08					6.3	S100	Souther 1976	23a. Coordinates from Woodsworth 2014	
Wild Horse		0.0040										0.0050								0.36					12.6		Souther 1976	23b	
Wild Horse									0.012	0.032		0.0130								2.60				0.009			Allen 2006		
Wild Horse																									3.0		Geoscience BC 2016-xx	(2008 sample) Polaris Infrastructure kind permission	
Wild Mint																									50		NWT 2010		
Williams Lake																										S55			
Wilson																									3.5	S72	Geoscience BC 2016-xx	(2007 sample) Polaris Infrastructure kind permission	
Wolfenden										0.111		0.8500								1.80								Grasby 2000	