



Pre-Permitting Environmental / Socio-Economic Data Report Series

Report Series L- Iliamna Lake Studies

Report L-3 Laboratory Data Tables – Water Samples 2005-2007

Submitted to the Alaska Department of Natural Resources October 2009

Preliminary data. Do not cite or quote.

The Pebble Partnership is providing environmental and socio-economic baseline data collected to inform the development of the Pebble Project to state and federal agencies, project stakeholders and the general public prior to project permitting as part of its commitment to full and open disclosure.

A comprehensive Environmental Baseline Document (EBD) will subsequently be prepared and appended to future project permit applications. The EBD will also be made publicly available when complete.

Collected for the Pebble Partnership by:



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2004-2007 Iliamna Lake Study Water Results Summary

Key:

Bold Results = Parameter undetected by test, value shown is 1/2 MDL or 1/2 MRL.

Green Results = Estimate result reported by laboratory below reporting limit (MRL).

Red Results = Result exceed applicable Chronic Aquatic Life Criteria and/or Drinking Water Standards.

ADEC = Alaska Department of Environmental Conservation

CALC = ADEC Chronic Aquatic Life Criteria

DWS = Drinking Water Standards -18 AAC 70, Water Quality Standards, under fresh water uses, (6)(A)(i) and (6)(C).

EPA = Environmental Protection Agency

MDL = Method Detection Limit.

MRL = Method Reporting Limit.

NA = Not Applicable, no limit established.

WAD Cyanide = Weak Acid Dissociable Cyanide

If result was not detected at the lab MDL, the value shown is 1/2 MDL.

If flagged **U** or **UJ**, the value shown is 1/2 MRL.

- (1) CALC come from the ADEC Alaska Water Quality Criteria Manual – Table III and from the ADEC Water Quality Standards for Fresh Water Uses under use (C).
- (2) DWS come from the ADEC Alaska Water Quality Criteria Manual – Table I, the ADEC Water Quality Standards under use (A)(i), and EPA Primary Drinking Water Standards.
- (3) Ammonia CALC limit dependant on calculated lowest 5th percentile of temperature and pH.
- (4) Cadmium, Chromium III, Copper, Lead, Nickel and Zinc CALC limits are dependent on Hardness lowest 5th percentile.
- (5) Criterion given is for free cyanide. ADEC has determined that the WAD cyanide method is to be used for analysis and the result is to be applied to the free cyanide criterion.
- (6) Criterion given is the more stringent of those available for chromium III and chromium VI. Analysis is of total chromium.
- (7) The Criterion given for total mercury concentration is based on the Alaska Water Quality Criteria Manual for Toxic and Other Deleterious Organic and Inorganic Substances, 2002.
- (8) Criterion given is an acute criterion, rather than a chronic criterion. No chronic aquatic life criterion has been established for silver.
- (9) Precision displayed in values may be less than actual where unit conversions were necessary, especially Hg, Si, B.

The location identifications for all samples collected at one meter below water surface end in “A”; location identifications for samples collected at half of the total depth end in “B”; location identifications for samples collected one meter above the bottom of the lake or at a maximum total depth of 20 meters below the surface end in “C.”

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Bucket Lake A																	
	Sample Date																
	09/12/06	12.1	7.27	12.61	17.5	1.90	1.57	13.0	1.93	0.0155	1.93	0.0107	0.0400	1.14	0.0630	2.42	0.0020
	06/17/07	9.03	7.62	?	35.0	1.0	1.57	14.5	0.0155			0.0191		1.36	0.0720	0.914	0.0008
	Mean	10.565	7.445	12.61	26.25	1.45	1.57	13.75	0.97275	0.0155	1.93	0.0149	0.04	1.25	0.0675	1.667	0.0014
	Median	10.565	7.445	12.61	26.25	1.45	1.57	13.75	0.97275	0.0155	1.93	0.0149	0.04	1.25	0.0675	1.667	0.0014
	St. Deviation	2.17	NA	NA	12.37	0.64	0.00	1.06	1.35	NA	NA	0.01	#DIV/0!	0.16	0.01	1.06	0.00
	# of values	2	2	2	2	2	2	2	2	1	1	2	1	2	2	2	2
	Minimum	9.03	7.27	12.61	17.5	1	1.57	13	0.0155	0.0155	1.93	0.0107	0.04	1.14	0.0630	0.914	0.0008
	Maximum	12.1	7.62	12.61	35.0	1.9	1.57	14.5	1.93	0.0155	1.93	0.0191	0.04	1.36	0.0720	2.42	0.0020
	% of values undetected						100%		50%	100%							50%
	# of values between MDL and MRL												1		2		1
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Location: Flat Island A																	
	Sample Date																
	09/11/06	17.4	7.36	13.22	31.2	1.60	1.57	14.0	0.0480	0.0155	0.0445	0.0050	0.0155	1.05	0.0600	4.74	0.00075
	Mean	17.4	7.36	13.22	31.2	1.60	1.57	14.0	0.048	0.0155	0.0445	0.005	0.0155	1.05	0.0600	4.74	0.00075
	Median	17.4	7.36	13.22	31.2	1.60	1.57	14.0	0.048	0.0155	0.0445	0.005	0.0155	1.05	0.0600	4.74	0.00075
	St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	# of values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Minimum	17.4	7.36	13.22	31.2	1.60	1.57	14.0	0.048	0.0155	0.0445	0.005	0.0155	1.05	0.0600	4.74	0.00075
	Maximum	17.4	7.36	13.22	31.2	1.60	1.57	14.0	0.048	0.0155	0.0445	0.005	0.0155	1.05	0.0600	4.74	0.00075
	% of values undetected						100%			100%			100%				100%
	# of values between MDL and MRL								1		1	1			1		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Cyanide	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
		WAD ⁽⁵⁾				Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
	Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Bucket Lake A																					
	Sample Date																				
	09/12/06	0.0020	0.46		0.0390	102	114	0.0282	0.0676	0.523	0.564	1.73	1.51	0.0125	0.0125	0.0075	0.0174	3.26	3.04	0.0185	0.0185
	06/17/07	0.0008	0.0155		0.0155	95	80	0.0224	0.0294	0.444	0.525	0.713		0.0125	0.0125	0.0075	0.0075	2.79	2.86	0.0075	0.0075
	Mean	0.0014	0.23775		0.0273	98.45	96.95	0.0253	0.0485	0.4835	0.5445	1.2215	1.51	0.0125	0.0125	0.0075	0.01245	3.025	2.95	0.013	0.013
	Median	0.0014	0.23775		0.0273	98.45	96.95	0.0253	0.0485	0.4835	0.5445	1.2215	1.51	0.0125	0.0125	0.0075	0.01245	3.025	2.95	0.013	0.013
	St. Deviation	0.00	0.31	NA	0.02	5.02	24.11	0.00	0.03	0.06	0.03	0.72	NA	0.00	0.00	0.00	0.01	0.33	0.13	0.01	0.01
	# of values	2	2	0	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2
	Minimum	0.0008	0.0155		0.0155	94.9	79.9	0.0224	0.0294	0.444	0.525	0.713	1.51	0.0125	0.0125	0.0075	0.0075	2.79	2.86	0.0075	0.0075
	Maximum	0.0020	0.46		0.0390	102	114	0.0282	0.0676	0.523	0.564	1.73	1.51	0.0125	0.0125	0.0075	0.0174	3.26	3.04	0.0185	0.0185
	% of values undetected	50%	50%		50%									100%	100%	100%	50%			100%	100%
	# of values between MDL and MRL	1	1		1			2	1	1		1					1	2	2		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA		5.12	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.046	0.047
	Drinking Water Standards (DWS)⁽²⁾	0.2	NA		NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
	% of CALC exceedences	0%	0%		0%	100%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Location: Flat Island A																					
	Sample Date																				
	09/11/06	0.00075	0.155		0.0530	11.6	5.84	0.0212	0.0194	0.155	0.155	5.80	5.38	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
	Mean	0.00075	0.155	NA	0.0530	11.6	5.84	0.0212	0.0194	0.155	0.155	5.80	5.38	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
	Median	0.00075	0.155	NA	0.0530	11.6	5.84	0.0212	0.0194	0.155	0.155	5.80	5.38	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
	St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	# of values	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Minimum	0.00075	0.155	NA	0.0530	11.6	5.84	0.0212	0.0194	0.155	0.155	5.80	5.38	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
	Maximum	0.00075	0.155	NA	0.0530	11.6	5.84	0.0212	0.0194	0.155	0.155	5.80	5.38	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
	% of values undetected	100%	100%							100%	100%			100%	100%	100%	100%	100%	100%	100%	100%
	# of values between MDL and MRL				1			1	1												
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	4.87	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.074	0.073
	Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
	% of CALC exceedences	0%	0%	NA	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	NA	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
		Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Bucket Lake A																						
	Sample Date																					
	09/12/06	3510	3780	0.050	0.050	0.0662		0.524		463	249	0.0155		801	816	10.0	3.34	0.000475	0.0888	0.116	0.249	
	06/17/07	2630	2810	0.050	0.050	0.0252	0.024	0.583	0.483	204	169	0.277	0.146	596	658	3.3	2.19	0.001090	0.1080	0.118	0.136	0.201
	Mean	3070	3295	0.050	0.050	0.0457	0.0244	0.554	0.483	333.5	209	0.1463	0.1460	698.5	737	6.66	2.765	0.00078225	0.0984	0.117	0.193	0.201
	Median	3070	3295	0.050	0.050	0.0457	0.0244	0.554	0.483	333.5	209	0.1463	0.1460	698.5	737	6.66	2.765	0.00078225	0.0984	0.117	0.193	0.201
	St. Deviation	622.25	685.89	0.00	0.00	0.03	NA	0.04	NA	183.14	56.57	0.18	NA	144.96	111.72	4.72	0.81	0.00	0.01	0.00	0.08	NA
	# of values	2	2	2	2	2	1	2	1	2	2	2	1	2	2	2	2	2	2	2	2	2
	Minimum	2630	2810	0.050	0.050	0.0252	0.0244	0.524	0.483	204	169	0.0155	0.1460	596	658	3.32	2.19	0.0004745	0.0888	0.116	0.136	0.201
	Maximum	3510	3780	0.050	0.050	0.0662	0.0244	0.583	0.483	463	249	0.2770	0.1460	801	816	10	3.34	0.00109	0.108	0.118	0.249	0.201
	% of values undetected			100%	100%							50%						50%				
	# of values between MDL and MRL																	1			1	
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.21	1.16	1000	1000	0.15	0.17	NA	NA	NA	NA	0.012	NA	NA	6.92	6.90
	Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Location: Flat Island A																						
	Sample Date																					
	09/11/06	5620	5760	0.496	0.524	0.0238	0.0230	0.575	0.658	42.3	29.4	0.260		815	839	5.09	0.880	0.000475	0.732	0.770	0.167	
	Mean	5620	5760	0.496	0.524	0.0238	0.023	0.575	0.658	42.3	29.4	0.26		815	839	5.09	0.88	0.0004745	0.732	0.770	0.167	
	Median	5620	5760	0.496	0.524	0.0238	0.023	0.575	0.658	42.3	29.4	0.26		815	839	5.09	0.88	0.0004745	0.732	0.770	0.167	
	St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	# of values	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
	Minimum	5620	5760	0.496	0.524	0.0238	0.023	0.575	0.658	42.3	29.4	0.26		815	839	5.09	0.88	0.0004745	0.732	0.770	0.167	
	Maximum	5620	5760	0.496	0.524	0.0238	0.023	0.575	0.658	42.3	29.4	0.26		815	839	5.09	0.88	0.0004745	0.732	0.770	0.167	
	% of values undetected																	100%				
	# of values between MDL and MRL																				1	
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	2.09	2.01	1000	1000	0.34	0.36	NA	NA	NA	NA	0.012	NA	NA	11.88	11.85
	Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	#DIV/0!	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	#DIV/0!	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved Units	Total µg/L	Dissolved µg/L	Total µg/L	Dissolved µg/L	Dissolved µg/L	Total µg/L	Dissolved µg/L	Total µg/L	Dissolved µg/L	Total µg/L	Dissolved µg/L	Total µg/L	Dissolved µg/L	Total µg/L	Dissolved µg/L	Total µg/L	Dissolved µg/L
Location: Bucket Lake A																		
Sample Date																		
	09/12/06	240	221	0.155	0.155	2390	0.0348	0.0138	3830		0.0050	0.0050	0.050	0.050	0.250	0.250	3.09	
	06/17/07	251	276	0.155	0.155	276	0.0031	0.0031	4100	4120	0.0050	0.0050	0.050	0.050	0.376	0.348	1.97	2.3
Mean		245.5	248.5	0.155	0.155	1333	0.01895	0.00845	3965	4120	0.0050	0.0050	0.050	0.050	0.313	0.299	2.53	
Median		245.5	248.5	0.155	0.155	1333	0.01895	0.00845	3965	4120	0.0050	0.0050	0.050	0.050	0.313	0.299	2.53	
St. Deviation		7.78	38.89	0.00	0.00	1494.82	0.02	0.01	190.92	NA	0.00	0.00	0.00	0.00	0.09	0.07	0.79	NA
# of values		2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	1
Minimum		240	221	0.155	0.155	276	0.0031	0.0031	3830	4120	0.0050	0.0050	0.050	0.050	0.250	0.250	1.97	
Maximum		251	276	0.155	0.155	2390	0.0348	0.0138	4100	4120	0.0050	0.0050	0.050	0.050	0.376	0.348	3.09	
% of values undetected				100%	100%		50%	50%			100%	100%	100%	100%	100%	100%		
# of values between MDL and MRL								1										
Chronic Aquatic Life Criteria (CALC)⁽¹⁾		NA	NA	5	4.6	NA	0.07	0.06	NA	NA	NA	NA	NA	NA	NA	NA	15.8	15.6
Drinking Water Standards (DWS)⁽²⁾		NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA
% of CALC exceedences		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Location: Flat Island A																		
Sample Date																		
	09/11/06	538	568	0.155	0.155	831	0.0031	0.0031	1860	2120	0.0050	0.0050	0.050	0.050	0.250	0.250	1.68	2.32
Mean		538	568	0.155	0.155	831	0.0031	0.0031	1860	2120	0.005	0.0050	0.050	0.050	0.250	0.250	1.68	2.32
Median		538	568	0.155	0.155	831	0.0031	0.0031	1860	2120	0.0050	0.0050	0.050	0.050	0.250	0.250	1.68	2.32
St. Deviation		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
# of values		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Minimum		538	568	0.155	0.155	831	0.0031	0.0031	1860	2120	0.0050	0.0050	0.050	0.050	0.250	0.250	1.68	2.32
Maximum		538	568	0.155	0.155	831	0.0031	0.0031	1860	2120	0.0050	0.0050	0.050	0.050	0.250	0.250	1.68	2.32
% of values undetected				100%	100%		100%	100%			100%	100%	100%	100%	100%	100%		
# of values between MDL and MRL																		
Chronic Aquatic Life Criteria (CALC)⁽¹⁾		NA	NA	5	4.6	NA	0.20	0.17	NA	NA	NA	NA	NA	NA	NA	NA	27.2	26.8
Drinking Water Standards (DWS)⁽²⁾		NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA
% of CALC exceedences		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Finn Bay A																	
	Sample Date																
	09/11/06	16.1	7.27	13.52	31.2	1.70	1.57	11.0	0.0440	0.0155	0.0390	0.0050	0.0155	1.23	0.0420	3.10	0.00075
	Mean	16.1	7.27	13.52	31.2	1.70	1.57	11.0	0.0440	0.0155	0.0390	0.0050	0.0155	1.23	0.0420	3.1	0.00075
	Median	16.1	7.27	13.52	31.2	1.70	1.57	11.0	0.0440	0.0155	0.0390	0.0050	0.0155	1.23	0.0420	3.1	0.00075
	St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	# of values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Minimum	16.1	7.27	13.52	31.2	1.70	1.57	11.0	0.0440	0.0155	0.0390	0.0050	0.0155	1.23	0.0420	3.1	0.00075
	Maximum	16.1	7.27	13.52	31.2	1.70	1.57	11.0	0.0440	0.0155	0.0390	0.0050	0.0155	1.23	0.0420	3.1	0.00075
	% of values undetected						100%			100%			100%				100%
	# of values between MDL and MRL								1		1		1		1		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Location: Knutson Bay A																	
	Sample Date																
	05/25/05	13.9	7.10	4.23	20.0	0.400	2.5	10.5	0.120			0.0011		0.971	0.042	3.32	0.00125
	06/14/05	14.6	7.83	8.28	20.0	0.075	0.785	12.5	0.097			0.004		1.04	0.042	3.66	0.00125
	07/23/05	16.2	7.10	12.52	31.3	0.150	0.785	13.0	0.079			0.048		1.07	0.043	3.94	0.00125
	08/13/05	15.8	7.42	16.78	17.5	0.075	0.785	14.5	0.033			0.010		1.05	0.04	3.79	0.00125
	09/29/05	18.3	7.80	10.2	29.0	0.200	0.785	14.5	0.074			0.00165		1.03	0.05	3.87	0.00125
	10/14/05	16.8	7.45	8.81	35.0	0.075	0.785	15.0	0.0925			0.0057		1.02	0.068	4.07	0.00125
	05/29/07	13.1	6.92	4.13	21.3	0.075	1.57	10.3	0.183			0.0165		0.997	0.0660	3.23	0.00075
	06/11/07	15.8	7.01	5.6	28.8	0.50	1.57	11.0	0.170			0.0134		0.957	0.0880	3.52	0.00075
	07/19/07	18.0	7.22	12.68	20.0	0.400	1.57	14.4	0.050			0.0050		1.01	0.0530	3.51	0.00075
	08/20/07	16.8	7.40	11.58	28.8	0.408	1.57	14.4	0.107			0.0053		0.873	0.0350	3.48	0.00075
	09/22/07	18.4	7.24	9.42	33.8	0.150	1.57	14.8	0.101			0.00155		0.873	0.0400	3.66	0.00075
	10/09/07	18.2	7.37	8.15	23.8	0.0775	1.57	14.3	0.129			0.00155		0.890	0.0330	3.57	0.00075
	Mean	16.3	7.32	9.37	25.8	0.22	1.32	13.3	0.1	NA	NA	0.009	NA	0.98	0.050	3.64	0.0010
	Median	16.5	7.31	9.12	26.3	0.15	1.57	14.4	0.1	NA	NA	0.005	NA	1.00	0.043	3.62	0.0010
	St. Deviation	1.8	0.29	3.72	6	0.16	0.54	1.8	0.04	NA	NA	0.013	NA	0.070	0.016	0.25	0.0003
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	13.1	6.92	4.13	17.5	0.075	0.785	10.3	0.033	NA	NA	0.0011	NA	0.873	0.033	3.23	0.00075
	Maximum	18.4	7.83	16.78	35	0.50	2.5	15	0.183	NA	NA	0.048	NA	1.07	0.088	4.07	0.0013
	% of values undetected					67%	92%		8%			50%					100%
	# of values between MDL and MRL					4	1	1	5			3			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Cyanide	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
		WAD ⁽⁵⁾				Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
	Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Finn Bay A																					
	Sample Date																				
	09/11/06	0.00075	0.155		0.0155	30.1	8.89	0.0168	0.0075	0.155	0.155	9.28	7.64	0.0125	0.0125	0.0075	0.0075	2.93	1.25	0.0185	0.0185
	Mean	0.00075	0.155	NA	0.0155	30.1	8.89	0.0168	0.0075	0.155	0.155	9.28	7.64	0.0125	0.0125	0.0075	0.0075	2.93	1.25	0.0185	0.0185
	Median	0.00075	0.155	NA	0.0155	30.1	8.89	0.0168	0.0075	0.155	0.155	9.28	7.64	0.0125	0.0125	0.0075	0.0075	2.93	1.25	0.0185	0.0185
	St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	# of values	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Minimum	0.00075	0.155	NA	0.0155	30.1	8.89	0.0168	0.0075	0.155	0.155	9.28	7.64	0.0125	0.0125	0.0075	0.0075	2.93	1.25	0.0185	0.0185
	Maximum	0.00075	0.155	NA	0.0155	30.1	8.89	0.0168	0.0075	0.155	0.155	9.28	7.64	0.0125	0.0125	0.0075	0.0075	2.93	1.25	0.0185	0.0185
	% of values undetected	100%	100%		100%				100%	100%	100%			100%	100%	100%	100%		100%	100%	100%
	# of values between MDL and MRL							1										1			
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.17	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.070	0.069
	Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
	% of CALC exceedences	0%	0%	NA	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	NA	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Location: Knutson Bay A																					
	Sample Date																				
	05/25/05	0.00125	0.099		0.0155	10.4	4.44	0.0208	0.0210	0.125	0.125	4.82	4.54	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.00775	0.00775
	06/14/05	0.00125	0.16		0.0155	4.66	2.43	0.0332	0.0304	0.305	0.125	5.34	5.18	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.025	0.025
	07/23/05	0.00125	0.54		0.0320	4.03	1.00	0.0268	0.0336	0.125	0.125	4.56	4.82	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
	08/13/05	0.00125	0.24		0.0155	2.97	2.46	0.0142	0.0082	0.125	0.250	5.03	4.75	0.0075	0.0075	0.00155	0.00155	5.0	1.55	0.00775	0.00775
	09/29/05	0.00125	0.24		0.0366	8.69	1.00	0.0262	0.0246	0.125	0.310	5.37	5.34	0.0075	0.0075	0.00155	0.00155	7.9	4.7	0.00775	0.0326
	10/14/05	0.00125	0.21		0.0500	2.80		0.0290	0.0234	0.125	0.250	4.86	5.42	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
	05/29/07	0.00075	0.155		0.0155	6.99	3.45	0.0250	0.0250	0.155	0.155	4.88	5.32	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0075	0.0075
	06/11/07	0.00075	0.155	0.652	0.0155	6.85	3.37	0.0322	0.0364	0.155	0.155	5.96	5.42	0.0125	0.0125	0.0075	0.0075	2.75	1.25	0.0075	0.0075
	07/19/07	0.00075	0.155		0.0155	4.01	2.10	0.0250	0.0250	0.155	0.155	5.78	5.80	0.0125	0.0125	0.0075	0.0075	4.51	4.45	0.0075	0.0075
	08/20/07	0.00075	0.155		0.0443	3.33	1.00	0.0286	0.0334	0.155	0.155	5.33	5.68	0.0125	0.0125	0.0075	0.0075	3.77	3.71	0.0075	0.0075
	09/22/07	0.00075	0.155	0.453	0.0155	3.74	1.00	0.0188	0.0218	0.155	0.155	5.63	5.55	0.0125	0.0125	0.0075	0.0075	3.30	3.10	0.0075	0.0075
	10/09/07	0.00075	0.68		0.0155	5.10	2.13	0.0246	0.0218	0.155	0.155	5.50	5.55	0.0125	0.0125	0.0075	0.0075	3.10	3.18	0.0075	0.0075
	Mean	0.0010	0.25	0.553	0.0239	5.30	2.22	0.0254	0.0254	0.155	0.176	5.26	5.28	0.010	0.010	0.0045	0.0045	3.7	3.02	0.009	0.011
	Median	0.0010	0.16	0.553	0.0155	4.30	2.13	0.0256	0.0248	0.155	0.155	5.34	5.38	0.010	0.010	0.0045	0.0045	3.5	3.14	0.008	0.008
	St. Deviation	0.0003	0.18	0.141	0.0131	2.4	1.18	0.0054	0.0075	0.05	0.06	0.43	0.39	0.003	0.003	0.0031	0.0031	1.9	1.54	0.005	0.008
	# of values	12	12	2	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	Minimum	0.00075	0.099	0.453	0.0155	2.80	1	0.0142	0.0082	0.125	0.125	4.56	4.54	0.0075	0.0075	0.00155	0.00155	1.3	1.25	0.0075	0.0075
	Maximum	0.0013	0.68	0.652	0.0500	10.4	4.44	0.0332	0.0364	0.305	0.31	5.96	5.8	0.0125	0.0125	0.0075	0.0075	7.9	5.0	0.025	0.0326
	% of values undetected	100%	42%		75%		33%	17%	17%	92%	92%			100%	100%	100%	100%	50%	58%	100%	92%
	# of values between MDL and MRL		7	1	3			4	5	1	1							6	5		1
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.98	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.062	0.061
	Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
		Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Finn Bay A																						
	Sample Date																					
	09/11/06	5100	4530	0.672	0.305	0.0334	0.0214	0.604	0.563	110	39.4	0.228		813	696	9.47	2.28	0.000475	0.559	0.480	0.177	
	Mean	5100	4530	0.672	0.305	0.0334	0.0214	0.604	0.563	110	39.4	0.228		813	696	9.47	2.28	0.0004745	0.559	0.480	0.177	
	Median	5100	4530	0.672	0.305	0.0334	0.0214	0.604	0.563	110	39.4	0.228		813	696	9.47	2.28	0.0004745	0.559	0.480	0.177	
	St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	# of values	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
	Minimum	5100	4530	0.672	0.305	0.0334	0.0214	0.604	0.563	110	39.4	0.228		813	696	9.47	2.28	0.0004745	0.559	0.480	0.177	
	Maximum	5100	4530	0.672	0.305	0.0334	0.0214	0.604	0.563	110	39.4	0.228		813	696	9.47	2.28	0.0004745	0.559	0.480	0.177	
	% of values undetected																	100%				
	# of values between MDL and MRL																				1	
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.96	1.88	1000	1000	0.31	0.33	NA	NA	NA	NA	0.012	NA	NA	11.13	11.09
	Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	#DIV/0!	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	#DIV/0!	0%	0%	0%	0%	0%	0%	0%	0%	0%
Location: Knutson Bay A																						
	Sample Date																					
	05/25/05	4580	4030	0.479	0.294	0.0108	0.005	0.414	0.361	10.0	3.1	0.050	0.0155	594	559	1.69	0.515		0.590	0.506	0.212	0.208
	06/14/05	4760	4610	0.234		0.0132	0.0132	0.633	0.313	11.0	3.1	0.0155	0.124	672	699	1	0.497	0.000450	0.773	0.722	0.204	
	07/23/05	5280	5440	0.031	0.100	0.005	0.005	0.814	0.546	3.1	3.1	0.0155		729	788	0.803	0.207	0.0025	0.609	0.670	0.207	
	08/13/05	5220	4960	0.031	0.031	0.0192	0.0198	0.534	0.525	9.22	3.1	0.0155		685	667	0.836	0.264	0.000450	0.640	0.589	0.216	
	09/29/05	5980	5910	0.031	0.305	0.0268	0.0186	0.529	0.599	3.1	3.1	0.0155		817	814	1.04	0.066	0.000450	0.734	0.777	0.243	
	10/14/05	5530	5700	0.349	0.477	0.0248	0.0202	0.47	0.475	3.1	13.7	0.203	0.0155	738	826	0.10		0.000450	0.682	0.690	0.532	0.2
	05/29/07	4340	4540	0.050	0.100	0.0050	0.0110	0.356		20.9	12.9	0.0155	0.0155	559	638	2.41	1.32	0.000169	0.641	0.677	0.302	0.225
	06/11/07	5220	4570	0.410	0.282	0.0122	0.0150	0.537	0.434	19.6	14.3	0.0155	0.050	674	647	1.87	0.957	0.000169	0.826	0.717	0.100	0.288
	07/19/07	5850	5850	0.050	0.050	0.0100	0.0100	0.602	0.491	29.5	24.9	0.0155	0.0155	821	857	0.977	0.443	0.000169	0.781	0.763	0.320	0.442
	08/20/07	5500	5840	0.204	0.306	0.0050	0.0158	0.478	0.472	10.0	10.0	0.0636	0.0155	748	799	0.861	0.260	0.0025	0.719	0.738	0.167	0.235
	09/22/07	6040	5810	0.100	0.100	0.0050	0.0050	0.587	0.645	14.0	10.3	0.0155		798	801	0.937	0.146	0.0025	0.740	0.696	0.100	0.220
	10/09/07	6000	5740	0.100	0.259	0.0050	0.0050	0.495	0.431	10.0	10.0	0.0155	0.0155	779	744	0.980	0.232	0.000169	0.771	0.772	0.100	0.100
	Mean	5360	5250	0.172	0.209	0.012	0.012	0.537	0.481	12	9.0	0.038	0.033	718	737	1.13	0.446	0.00091	0.709	0.693	0.225	0.240
	Median	5390	5570	0.100	0.259	0.010	0.012	0.532	0.475	10	10	0.016	0.0155	734	766	0.98	0.264	0.00045	0.727	0.707	0.210	0.223
	St. Deviation	570	670	0.161	0.141	0.008	0.006	0.117	0.097	8	7	0.054	0.039	84	93	0.6	0.379	0.00103	0.076	0.079	0.121	0.097
	# of values	12	12	12	11	12	12	12	11	12	12	12	8	12	12	12	11	11	12	12	12	8
	Minimum	4340	4030	0.031	0.031	0.005	0.005	0.356	0.313	3.1	3.1	0.0155	0.0155	559	559	0.10	0.066	0.000169	0.590	0.506	0.100	0.1
	Maximum	6040	5910	0.479	0.477	0.0268	0.0202	0.814	0.645	29.5	24.9	0.203	0.124	821	857	2.41	1.32	0.0025	0.826	0.777	0.532	0.442
	% of values undetected			58%	42%	50%	33%			50%	58%	83%	58%			8%		100%			25%	8%
	# of values between MDL and MRL					1	4			4	4	1					1				1	
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.69	1.62	1000	1000	0.25	0.27	NA	NA	NA	NA	0.012	NA	NA	9.61	9.58
	Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
		Total/Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Finn Bay A																			
	Sample Date																		
	09/11/06	655	427	0.155	0.155	11200	0.0112	0.0031	1990	1700	0.0050	0.0050	0.050	0.050	0.250	0.250	3.33	1.91	
	Mean	655	427	0.155	0.155	11200	0.0112	0.0031	1990	1700	0.0050	0.0050	0.050	0.050	0.250	0.250	3.33	1.91	
	Median	655	427	0.155	0.155	11200	0.0112	0.0031	1990	1700	0.0050	0.0050	0.050	0.050	0.250	0.250	3.33	1.91	
	St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	# of values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Minimum	655	427	0.155	0.155	11200	0.0112	0.0031	1990	1700	0.0050	0.0050	0.050	0.050	0.250	0.250	3.33	1.91	
	Maximum	655	427	0.155	0.155	11200	0.0112	0.0031	1990	1700	0.0050	0.0050	0.050	0.050	0.250	0.250	3.33	1.91	
	% of values undetected			100%	100%			100%			100%	100%	100%	100%	100%	100%			
	# of values between MDL and MRL						1												
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.18	0.15	NA	NA	NA	NA	NA	NA	NA	NA	25.5	25.1	
	Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Location: Knutson Bay A																			
	Sample Date																		
	05/25/05	376	344	0.0775	0.0775	1460	0.0031	0.0031	1440	1350	0.0031	0.0031	0.031	0.031	0.10	0.10	1.21	0.633	
	06/14/05	471	469	0.25	0.25	1190	0.0031	0.0031	1620	1530	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	11	
	07/23/05	478	513	0.0775	0.0775	1000	0.0031	0.0031	1530	1660	0.0031	0.0031	0.031	0.031	0.10	0.10	13.7	14.6	
	08/13/05	456	446	0.0775	0.0775	1070	0.0031	0.0031	1400	1400	0.0031	0.0031	0.031	0.031	0.10	0.20	0.75	1.5	
	09/29/05	538	559	0.0775	0.0775	1170	0.0031	0.0031	1770	1800	0.0031	0.0031	0.031	0.031	0.10	0.10	1.93	1.37	
	10/14/05	490	536	0.0775	0.0775	1170	0.0031	0.0031	1600	1710	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.75	
	05/29/07	367	403	0.155	0.155	1640	0.0031	0.0031	1420	1520	0.0050	0.0050	0.050	0.050	0.155	0.155	5.56	7.17	
	06/11/07	437	400	0.155	0.155	1680	0.0031	0.0031	1670	1470	0.0050	0.0050	0.050	0.050	0.155	0.155	6.82	5.14	
	07/19/07	543	552	0.155	0.155	1240	0.0031	0.0031	1720	1720	0.0050	0.0050	0.050	0.050	0.155	0.155	2.61	1.20	
	08/20/07	478	529	0.155	0.155	1130	0.0031	0.0031	1560	1610	0.0050	0.0050	0.050	0.050	0.155	0.155	1.17	0.50	
	09/22/07	540	530	0.155	0.155	1110	0.0031	0.0031	1690	1630	0.0050	0.0050	0.050	0.050	0.155	0.155	1.41	2.18	
	10/09/07	524	505	0.155	0.155	1200	0.0031	0.0031	1670	1570	0.0050	0.0050	0.050	0.050	0.155	0.155	1.20	0.50	
	Mean	475	482	0.131	0.131	1260	0.0031	0.0031	1590	1580	0.0040	0.0040	0.040	0.040	0.13	0.14	3.16	3.88	
	Median	478	509	0.155	0.155	1180	0.0031	0.0031	1610	1590	0.0040	0.0040	0.040	0.040	0.13	0.16	1.31	1.44	
	St. Deviation	59	70	0.054	0.054	220	0	0	120	130	0.001	0.001	0.01	0.01	0.03	0.03	3.86	4.70	
	# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	Minimum	367	344	0.0775	0.0775	1000	0.0031	0.0031	1400	1350	0.0031	0.0031	0.031	0.031	0.1	0.10	0.75	0.50	
	Maximum	543	559	0.25	0.250	1680	0.0031	0.0031	1770	1800	0.0050	0.0050	0.050	0.050	0.155	0.20	13.7	14.6	
	% of values undetected			100%	100%		100%	100%			100%	100%	100%	100%	100%	100%	25%	25%	
	# of values between MDL and MRL																1	2	
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.13	0.11	NA	NA	NA	NA	NA	NA	NA	NA	22.0	21.7	
	Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Knutson Bay B																	
	Sample Date																
	05/25/05	12.6	7.10	4.30	24.0	0.300	2	13.0	0.170			0.0011		0.975	0.039	3.36	0.00125
	06/14/05	15.0	7.78	7.90	15.0	0.15	0.785	13.0	0.0915			0.0035		1.06	0.04	3.79	0.00125
	07/23/05	16.3	7.20	12.46	31.3	0.313	0.785	14.5	0.093			0.0515		1.06	0.041	3.86	0.00125
	08/13/05	14.5	7.40	14.57	17.5	0.075	0.785	13.0	0.0155			0.010		0.958	0.043	3.71	0.00125
	09/29/05	16.4	7.49	10.21	31.3	0.200	0.785	14.0	0.069			0.00165		1.03	0.042	3.93	0.00125
	10/14/05	16.7	7.42	8.86	18.8	0.076	0.785	16.0	0.118			0.0071		1.02	0.066	4.07	0.00125
	05/29/07	15.1	7.19	3.81	30.0	0.075	1.57	12.5	0.158			0.0102		1.03	0.0660	3.46	0.00075
	06/11/07	15.1	6.98	5.49	31.3	0.088	1.57	10.0	0.215			0.0131		0.967	0.0870	3.55	0.00075
	07/19/07	17.2	7.21	12.54	18.8	0.211	1.57	13.9	0.199			0.0050		0.996	0.0530	3.50	0.00075
	08/20/07	14.8	7.34	10.87	22.5	0.300	1.57	13.2	0.106			0.0035		0.823	0.0360	3.44	0.00075
	09/22/07	18.9	7.26	9.42	32.5	0.079	1.57	14.9	0.111			0.00155		0.872	0.0400	3.65	0.00075
	10/09/07	17.9	7.39	8.14	13.8	0.079	1.57	14.8	0.124			0.00155		0.889	0.0430	3.55	0.00075
	Mean	15.9	7.31	9.05	23.9	0.16	1.28	14.0	0.123	NA	NA	0.0090	NA	0.97	0.05	3.66	0.001
	Median	15.7	7.30	9.14	23.3	0.12	1.57	14.0	0.115	NA	NA	0.0040	NA	0.99	0.043	3.6	0.001
	St. Deviation	1.7	0.21	3.36	7.1	0.1	0.45	2	0.056	NA	NA	0.014	NA	0.08	0.016	0.22	0.0003
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	12.6	6.98	3.81	13.8	0.075	0.785	10.0	0.0155	NA	NA	0.0011	NA	0.823	0.036	3.36	0.00075
	Maximum	18.9	7.78	14.57	32.5	0.313	2	16.0	0.215	NA	NA	0.0515	NA	1.06	0.087	4.07	0.00125
	% of values undetected					58%	92%		8%			50%					100%
	# of values between MDL and MRL					5	1	1	3			3			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Knutson Bay B																				
Sample Date																				
05/25/05	0.00125	0.11		0.0155	10.4	3.49	0.0214	0.0216	0.125	0.125	4.98	4.87	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.00775	0.0272
06/14/05	0.00125	0.12		0.0155	4.34	2.87	0.0314	0.0296	0.125	0.125	5.40	5.08	0.0075	0.0075	0.0134	0.00155	1.55	1.55	0.025	0.00775
07/23/05	0.00125	0.27		0.0437	3.62	1.00	0.0282	0.0256	0.125	0.125	4.75	4.70	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
08/13/05	0.00125	0.24		0.043	4.93	3.22	0.0102	0.0052	0.125	0.125	4.88	4.61	0.0075	0.0075	0.00155	0.00155	5.2	1.55	0.00775	0.00775
09/29/05	0.00125	0.22		0.0155	8.37	2.05	0.0174		0.125	0.125	5.15	5.15	0.0075	0.0075	0.00155	0.00155	5.0	4.4	0.00775	0.0344
10/14/05	0.00125	0.18		0.132	5.03	2.65	0.0226	0.0302	0.125	0.250	5.07	5.24	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
05/29/07	0.00075	0.155		0.0155	5.08	3.13	0.0250	0.0250	0.155	0.155	5.16	5.54	0.0125	0.0125	0.0075	0.0075	2.57	2.56	0.0075	0.0075
06/11/07	0.00075	0.155	0.662	0.0155	7.28	4.05	0.0304	0.0352	0.155	0.155	5.49	5.48	0.0125	0.0125	0.0075	0.0075	2.66	1.25	0.0075	0.0075
07/19/07	0.00075	0.155		0.0155	3.50	2.90	0.0250	0.0250	0.155	0.155	5.40	5.65	0.0125	0.0125	0.0075	0.0075	3.54	3.96	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	4.62	1.00	0.0075	0.0278	0.155	0.155	4.88	5.14	0.0125	0.0125	0.0075	0.0075	3.23	3.08	0.0075	0.0075
09/22/07	0.00075	0.155	0.398	0.0155	4.08	1.00	0.0202	0.0178	0.155	0.155	5.93	5.31	0.0125	0.0125	0.0075	0.0075	3.24	3.14	0.0075	0.0075
10/09/07	0.00075	0.155		0.0155	5.46	1.00	0.0254	0.0286	0.155	0.155	5.79	5.97	0.0125	0.0125	0.0075	0.0075	3.34	3.45	0.0075	0.0075
Mean	0.001	0.17	0.530	0.0300	5.60	2.36	0.0221	0.0250	0.14	0.150	5.24	5.23	0.01	0.01	0.006	0.0045	3.49	3.04	0.009	0.011
Median	0.001	0.16	0.530	0.0160	5.00	2.76	0.0238	0.0260	0.14	0.155	5.16	5.20	0.01	0.01	0.008	0.0045	3.29	3.11	0.008	0.008
St. Deviation	0.0003	0.05	0.187	0.0340	2.1	1.11	0.0074	0.0080	0.016	0.035	0.37	0.4	0.003	0.003	0.004	0.0031	1.31	1.37	0.005	0.009
# of values	12	12	2	12	12	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12
Minimum	0.00075	0.11	0.398	0.0155	3.50	1.00	0.0075	0.0052	0.125	0.125	4.75	4.61	0.0075	0.0075	0.00155	0.00155	1.55	1.25	0.0075	0.0075
Maximum	0.00125	0.27	0.662	0.132	10.4	4.05	0.0314	0.0352	0.155	0.250	5.93	5.97	0.0125	0.0125	0.0134	0.0075	5.2	5.0	0.025	0.0344
% of values undetected	100%	50%		75%		33%	25%	17%	100%	100%			100%	100%	92%	100%	33%	50%	100%	83%
# of values between MDL and MRL		6	1	2			3	5									8	6		2
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.80	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.062	0.061
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Knutson Bay B																					
Sample Date																					
05/25/05	4030	4440	0.031		0.0108	0.009	0.392	0.374	10	3.1	0.050		625	629	1.55	0.515	0.000147	0.543	0.594	0.183	
06/14/05	4840	4740	0.328	0.345	0.0228	0.0072	0.752	0.394	8.73	8.46	0.201	0.133	705	708	1.13	0.483	0.000450	0.760	0.746	0.342	0.375
07/23/05	5260	5170	0.031	0.100	0.005	0.0104	0.466	0.432	3.1	3.1	0.0155		766	755	0.911	0.239	0.0025	0.650	0.644	0.205	
08/13/05	4780	4620	0.062	0.0712	0.0224	0.0212	0.545	0.379	17.5	3.1	0.0155		628	614	1.20	0.338	0.000450	0.646	0.605	0.196	
09/29/05	5390	5840	0.243	0.334	0.0274	0.0254	0.533		11.4	6.44	0.0155		709	787	1.09	0.162	0.000450	0.658	0.765	0.253	
10/14/05	5490	5480	0.292		0.023	0.019	0.721	0.707	9.14	11.1	0.0155		729	785	0.932	0.10	0.000450	0.636	0.710	0.249	
05/29/07	4940	5200	0.100	0.211	0.0102	0.0112	0.408	0.385	23.7	14.7	0.0155	0.0155	662	752	2.81	1.35	0.000169	0.674	0.715	0.100	0.100
06/11/07	4970	4600	0.321	0.328	0.0126	0.0162	0.552	0.419	20.0	14.1	0.0155	0.102	643	657	1.73	1.03	0.000169	0.772	0.720	0.216	0.303
07/19/07	5600	5760	0.050	0.050	0.0100	0.0100	1.64	0.577	27.9	25.0	0.0155	0.0155	784	847	0.911	0.412	0.000169	0.752	0.763	0.215	
08/20/07	4860	5170	0.050	0.274	0.0050	0.0116	0.423	0.417	10.0	10.0	0.0155	0.0155	644	639	0.844	0.208	0.000169	0.653	0.703	0.131	0.134
09/22/07	6210	5780	0.236	0.100	0.0050	0.0050	0.535	0.539	15.8	10.2	0.0155	0.0155	823	773	0.986	0.185	0.000169	0.771	0.710	0.100	0.251
10/09/07	5880	6140	0.352	0.278	0.0050	0.0102	0.684	0.499	10.0	10.0	0.0155	0.0155	769	835	0.972	0.214	0.000169	0.790	0.792	0.100	0.326
Mean	5190	5250	0.175	0.209	0.013	0.013	0.640	0.466	13.9	10	0.034	0.045	707	732	1.26	0.44	0.00045	0.692	0.706	0.191	0.248
Median	5120	5190	0.168	0.243	0.011	0.0108	0.540	0.419	10.7	10	0.016	0.0155	707	754	1.04	0.29	0.00017	0.666	0.713	0.201	0.277
St. Deviation	580	560	0.131	0.118	0.0080	0.0061	0.34	0.105	7.2	6	0.054	0.051	68	81	0.56	0.38	0.00066	0.075	0.062	0.074	0.11
# of values	12	12	12	10	12	12	12	11	12	12	12	7	12	12	12	12	12	12	12	12	6
Minimum	4030	4440	0.031	0.050	0.0050	0.005	0.392	0.374	3.1	3.1	0.0155	0.0155	625	614	0.844	0.1	0.000147	0.543	0.594	0.1	0.1
Maximum	6210	6140	0.352	0.345	0.0274	0.0254	1.64	0.707	27.9	25	0.201	0.133	823	847	2.81	1.35	0.0025	0.790	0.792	0.342	0.375
% of values undetected			42%	25%	42%	17%			33%	42%	92%	42%				8%	100%			25%	8%
# of values between MDL and MRL			1	1	2	6			5	6						1				1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.70	1.63	1000	1000	0.25	0.27	NA	NA	NA	NA	0.012	NA	NA	9.67	9.64
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Knutson Bay B																		
Sample Date																		
05/25/05	342	397	0.0775	0.0775	1390	0.0031	0.0031	1480	1500	0.0031	0.0031	0.031	0.031	0.20	0.10	0.2325	0.602	
06/14/05	481	478	0.25	0.25	1180	0.0031	0.0031	1670	1670	0.0031	0.0031	0.031	0.031	0.10	0.10	2.13		
07/23/05	492	487	0.0775	0.0775	1010	0.0031	0.0031	1600	1570	0.0031	0.0031	0.031	0.031	0.10	0.201	11.8	13.5	
08/13/05	404	403	0.0775	0.0775	1380	0.0031	0.0031	1360	1380	0.0031	0.0031	0.031	0.031	0.10	0.20	0.75	0.75	
09/29/05	476	558	0.0775	0.0775	1160	0.0031	0.0031	1440	1760	0.0031	0.0031	0.031	0.031	0.10	0.10	1.34		
10/14/05	478	525	0.0775	0.0775	1230	0.0031	0.0031	1600	1720	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.75	
05/29/07	437	474	0.155	0.155	1460	0.0031	0.0031	1510	1620	0.0050	0.0050	0.050	0.050	0.155	0.155	5.43	2.84	
06/11/07	456	400	0.155	0.155	1760	0.0031	0.0031	1560	1490	0.0050	0.0050	0.050	0.050	0.155	0.155	2.57	1.86	
07/19/07	514	532	0.155	0.155	1300	0.0031	0.0031	1670	1730	0.0050	0.0050	0.050	0.050	0.155	0.155	1.49	0.50	
08/20/07	418	441	0.155	0.155	1230	0.0031	0.0031	1410	1390	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
09/22/07	550	526	0.155	0.155	1140	0.0031	0.0031	1730	1640	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.21	
10/09/07	532	552	0.155	0.155	1250	0.0031	0.0031	1640	1680	0.0050	0.0050	0.050	0.050	0.155	0.155	1.31	0.50	
Mean	465	481	0.131	0.131	1290	0.0031	0.0031	1560	1600	0.004	0.004	0.040	0.040	0.14	0.144	2.36	2.30	
Median	477	483	0.155	0.155	1240	0.0031	0.0031	1580	1630	0.004	0.004	0.040	0.040	0.16	0.155	1.33	0.75	
St. Deviation	58	59	0.054	0.054	190	0	0	120	130	0.001	0.001	0.01	0.01	0.03	0.037	3.30	4.01	
# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	
Minimum	342	397	0.0775	0.0775	1010	0.0031	0.0031	1360	1380	0.0031	0.0031	0.031	0.031	0.10	0.1	0.2325	0.50	
Maximum	550	558	0.25	0.25	1760	0.0031	0.0031	1730	1760	0.005	0.005	0.050	0.050	0.20	0.201	11.8	13.5	
% of values undetected			100%	100%		100%	100%			100%	100%	100%	100%	100%	92%	42%	42%	
# of values between MDL and MRL															1	1	1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.13	0.11	NA	NA	NA	NA	NA	NA	NA	NA	22.2	21.9	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Knutson Bay C																	
	Sample Date																
	05/25/05	12.4	7.00	4.17	23.0	0.50	1.88	11.0	0.15			0.0011		1.00	0.039	3.42	0.00125
	06/14/05	14.9	7.74	6.92	17.5	0.075	0.785	14.0	0.0795			0.00155		1.06	0.039	3.80	0.00125
	07/23/05	15.5	7.30	11.82	27.5	0.50	0.785	14.5	0.0965			0.051		1.05	0.042	3.91	0.00125
	08/13/05	16.2	7.36	12.76	23.8	0.075	0.785	14.5	0.0155			0.010		1.04	0.037	3.77	0.00125
	09/29/05	16.3	7.46	10.15	35.0	0.20	1.63	14.0	0.063			0.00165		1.04	0.039	3.94	0.00125
	10/14/05	17.4	7.40	8.85	25.0	0.15	0.785	14.0	0.121			0.0057		1.02	0.063	4.05	0.00125
	05/29/07	15.8	7.22	3.81	30.0	0.152	1.57	14.0	0.158			0.0050		1.07	0.0600	3.63	0.0023
	06/11/07	15.3	7.00	5.32	28.8	0.253	1.57	12.0	0.218			0.0116		0.991	0.0850	3.64	0.00075
	07/19/07	18.1	7.10	11.88	18.8	8.56	1.57	12.9	0.050			0.0243		0.970	0.0550	3.46	0.00075
	08/20/07	15.3	7.35	10.36	21.3	0.408	1.57	13.3	0.104			0.0041		0.839	0.0350	3.41	0.00075
	09/22/07	17.5	7.22	9.4	31.3	0.078	1.57	15.0	0.186			0.00155		0.880	0.0400	3.66	0.00075
	10/09/07	17.5	7.22	8.14	23.8	0.842	1.57	14.9	0.119			0.00155		0.885	0.0430	3.54	0.00075
	Mean	16.0	7.28	8.63	25.5	1.0	1.34	14.0	0.113	NA	NA	0.01	NA	0.99	0.048	3.69	0.0011
	Median	16.0	7.26	9.13	24.4	0.20	1.57	14.0	0.112	NA	NA	0.005	NA	1.01	0.041	3.65	0.0013
	St. Deviation	1.6	0.21	3.03	5.2	2.4	0.42	1	0.058	NA	NA	0.015	NA	0.08	0.015	0.21	0.0004
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	12.4	7	3.81	17.5	0.075	0.785	11.0	0.0155	NA	NA	0.0011	NA	0.839	0.035	3.41	0.00075
	Maximum	18.1	7.74	12.76	35.0	8.56	1.88	15	0.218	NA	NA	0.051	NA	1.07	0.085	4.05	0.0023
	% of values undetected					50%	83%		17%			58%					92%
	# of values between MDL and MRL					2	2	1	3			2			12		1
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾		
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d	
					Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Knutson Bay C																					
Sample Date																					
05/25/05	0.00125	0.120		0.0155	9.00	3.61	0.0198	0.0236	0.125	0.292	4.83	4.70	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.00775	0.00775	
06/14/05	0.00125	0.0295		0.0155	4.98	2.43	0.0308	0.0288	0.125	0.125	4.99	5.18	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.025	0.025	
07/23/05	0.00125	0.170		0.032	3.74	2.01	0.0244	0.0272	0.125	0.125	4.55	4.64	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.0246	
08/13/05	0.00125	0.280		0.0155	5.42	4.34	0.0148	0.0062	0.250	0.250	5.06	4.77	0.0075	0.0075	0.00155	0.00155	3.7	1.55	0.00775	0.00775	
09/29/05	0.00125	0.160		0.0399	7.60	2.15	0.0144	0.0224	0.125	0.125	5.01	5.47	0.0075	0.0075	0.00155	0.00155	4.9	5.2	0.00775	0.0352	
10/14/05	0.00125	0.170		0.106	5.58	2.44	0.031	0.0296	0.250	0.125	5.18	5.08	0.0075	0.0075	0.00155	0.00155	5.0	1.55	0.00775	0.00775	
05/29/07	0.00075	0.155		0.0155	4.80	2.69	0.0250	0.0250	0.155	0.155	5.19	5.88	0.0125	0.0125	0.0075	0.0075	2.52	2.89	0.0075	0.0075	
06/11/07	0.00075	0.155	0.599	0.0155	6.46	3.50	0.0240	0.0416	0.155	0.155	5.73	5.63	0.0125	0.0125	0.0075	0.0075	2.67	2.79	0.0075	0.0075	
07/19/07	0.00075	0.155		0.0155	202	3.75	0.0250	0.0250	0.397	0.155	7.66	5.37	0.0125	0.0125	0.0075	0.0075	3.72	3.79	0.0075	0.0075	
08/20/07	0.00075	0.155		0.0457	4.68	2.19	0.0180	0.0190	0.155	0.155	4.98	4.93	0.0125	0.0125	0.0075	0.0075	3.35	3.55	0.0075	0.0075	
09/22/07	0.00075	0.155	0.333	0.0155	4.08	1.00	0.0180	0.0276	0.155	0.155	5.49	6.22	0.0125	0.0125	0.0075	0.0075	3.16	3.46	0.0075	0.0075	
10/09/07	0.00075	0.155		0.0155	28.1	2.49	0.0252	0.0588	0.155	0.155	5.65	6.12	0.0125	0.0125	0.0075	0.0075	3.38	3.53	0.0075	0.0075	
Mean	0.00	0.155	0.466	0.029	24.0	2.72	0.023	0.0279	0.181	0.164	5.36	5.33	0.010	0.010	0.0045	0.0045	3.38	3.03	0.009	0.013	
Median	0.00	0.155	0.466	0.016	6.0	2.47	0.024	0.0261	0.155	0.155	5.12	5.28	0.010	0.010	0.0045	0.0045	3.37	3.18	0.008	0.008	
St. Deviation	0.0003	0.055	0.188	0.027	56	0.92	0.006	0.0127	0.081	0.053	0.8	0.54	0.003	0.003	0.0031	0.0031	1.2	1.3	0.005	0.01	
# of values	12	12	2	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Minimum	0.00075	0.0295	0.333	0.0155	3.74	1.0	0.0144	0.0062	0.125	0.125	4.55	4.64	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075	
Maximum	0.00125	0.280	0.599	0.106	202	4.34	0.031	0.0588	0.397	0.292	7.66	6.22	0.0125	0.0125	0.0075	0.0075	5.0	5.2	0.025	0.0352	
% of values undetected	100%	58%		67%		8%	17%	17%	92%	92%			100%	100%	100%	100%	33%	42%	100%	83%	
# of values between MDL and MRL		5	1	3			4	4	1	1							8	7		2	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.91	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.062	0.062	
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA	
% of CALC exceedences	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Knutson Bay C																					
Sample Date																					
05/25/05	3900	4480	0.100		0.009	0.011	0.345	0.417	10.0	3.1	0.0155		634	613	1.45	0.597		0.533	0.577	0.166	
06/14/05	4850	4540	0.100		0.0124	0.0106	0.520		18.8	7.57	0.0155		671	672	1.48	0.576	0.000450	0.710	0.744	0.215	
07/23/05	5060	5100	0.031	0.10	0.010	0.005	0.477		3.1	3.1	0.0155		709	739	1.02	0.435	0.0025	0.629	0.667	0.198	
08/13/05	5350	5170	0.031	0.0758	0.0276	0.0238	0.509	0.380	31.3	10.3	0.0155		697	707	4.62	2.77	0.000450	0.625	0.621	0.217	
09/29/05	5360	6130	0.065		0.028	0.0208	0.544		12.1	3.1	0.0155		719	826	1.06	0.113	0.000450	0.674	0.793	0.228	
10/14/05	5740	5370	0.301	0.497	0.027	0.0218	0.493		13.2	12.9	0.0155		742	787	1.08	0.34	0.000450	0.669	0.704	0.296	
05/29/07	5180	5780	0.050	0.050	0.0108	0.0128	0.437	0.438	31.0	18.6	0.0155	0.0155	697	841	3.50	2.05	0.000169	0.691	0.748	0.100	0.213
06/11/07	5040	4870	0.354	0.320	0.0136	0.0144	0.492	0.419	19.5	13.9	0.050	0.050	655	690	1.73	0.961	0.000169	0.806	0.752	0.264	0.269
07/19/07	5880	5300	0.050	0.050	0.0642	0.0232	0.902	0.466	1560	64.1	0.350	0.050	833	786	8.08	2.72	0.000169	0.894	0.743	0.332	0.379
08/20/07	5010	5070	0.100	0.100	0.0050	0.0050	0.438	0.410	10.0	10.0	0.0155	0.0155	676	681	0.959	0.215	0.0025	0.677	0.703	0.150	0.145
09/22/07	5770	6430	0.050	0.100	0.0050	0.0050	0.544	0.501	14.1	10.6	0.0155	0.0155	762	878	0.917	0.193	0.0025	0.716	0.773	0.100	0.209
10/09/07	5780	6170	0.375	0.255	0.0262	0.0112	0.679	0.502	55.4	10.0	0.0892	0.0155	752	835	7.32	0.932	0.000377	0.757	0.814	0.255	0.229
Mean	5240	5370	0.134	0.172	0.020	0.0137	0.532	0.442	150	13.9	0.052	0.027	712	755	2.77	0.99	0.00093	0.698	0.720	0.210	0.241
Median	5270	5240	0.083	0.100	0.013	0.012	0.501	0.429	20.0	10.2	0.016	0.0155	703	763	1.47	0.59	0.00045	0.684	0.744	0.216	0.221
St. Deviation	550	640	0.13	0.154	0.017	0.0071	0.141	0.044	440	16.5	0.096	0.018	54	83	2.57	0.97	0.00102	0.092	0.07	0.072	0.079
# of values	12	12	12	9	12	12	12	8	12	12	12	6	12	12	12	12	11	12	12	12	6
Minimum	3900	4480	0.031	0.05	0.005	0.005	0.345	0.380	3.1	3.1	0.0155	0.0155	634	613	0.917	0.113	0.000169	0.533	0.577	0.100	0.145
Maximum	5880	6430	0.375	0.497	0.0642	0.0238	0.902	0.502	1560	64.1	0.35	0.05	833	878	8.08	2.77	0.0025	0.894	0.814	0.332	0.379
% of values undetected			67%	42%	17%	25%			25%	42%	83%	50%					91%			17%	
# of values between MDL and MRL			1	1	3	3			5	6	1						1	1		1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.71	1.65	1000	1000	0.26	0.28	NA	NA	NA	NA	0.012	NA	NA	9.75	9.72
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	8%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Knutson Bay C																		
Sample Date																		
05/25/05	336	398	0.0775	0.0775	1410	0.0031	0.0031	1500	1480	0.0031	0.0031	0.031	0.031	0.10	0.1	0.233	0.233	
06/14/05	432	479	0.250	0.250	1200	0.0031	0.0031	1530	1690	0.0031	0.0031	0.031	0.031	0.10	0.10	12.3	6.3	
07/23/05	460	481	0.0775	0.0775	1070	0.0031	0.0031	1530	1570	0.0031	0.0031	0.031	0.031	0.10	0.21	11.7		
08/13/05	466	467	0.0775	0.0775	1130	0.0031	0.0031	1410	1440	0.0031	0.0031	0.031	0.031	0.10	0.20	0.75	0.75	
09/29/05	488	579	0.0775	0.0775	1190	0.0031	0.0031	1480		0.0031	0.0031	0.031	0.031	0.10	0.10	1.07	1.59	
10/14/05	492	521	0.0775	0.0775	1250	0.0031	0.0031	1600	1710	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	1.61	
05/29/07	474	567	0.155	0.155	1320	0.0031	0.0031	1530	1730	0.0050	0.0050	0.050	0.050	0.155	0.155	5.35	5.27	
06/11/07	451	429	0.155	0.155	1750	0.0031	0.0031	1600	1550	0.0050	0.0050	0.050	0.050	0.155	0.155	4.09	1.81	
07/19/07	543	498	0.155	0.155	1340	0.0062	0.0031	1750	1660	0.0050	0.0050	0.050	0.112	0.155	0.155	1.64	1.23	
08/20/07	434	435	0.155	0.155	1150	0.0031	0.0031	1450	1480	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
09/22/07	513	570	0.155	0.155	1230	0.0116	0.0031	1620	1790	0.0050	0.0050	0.050	0.050	0.155	0.155	2.66	2.01	
10/09/07	522	554	0.155	0.155	1250	0.0031	0.0031	1590	1700	0.0050	0.0050	0.050	0.050	0.155	0.155	1.62	0.50	
Mean	468	498	0.131	0.131	1270	0.0040	0.0031	1550	1620	0.0040	0.0040	0.040	0.050	0.13	0.15	3.56	1.98	
Median	470	490	0.155	0.155	1240	0.0030	0.0031	1530	1660	0.0040	0.0040	0.040	0.040	0.13	0.16	1.63	1.59	
St. Deviation	54	61	0.054	0.054	180	0.003	0	90	120	0.001	0.001	0.01	0.02	0.03	0.04	4.23	1.98	
# of values	12	12	12	12	12	12	12	12	11	12	12	12	12	12	12	12	11	
Minimum	336	398	0.0775	0.0775	1070	0.0031	0.0031	1410	1440	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.233	
Maximum	543	579	0.250	0.250	1750	0.0116	0.0031	1750	1790	0.0050	0.0050	0.050	0.112	0.155	0.21	12.3	6.3	
% of values undetected			100%	100%		83%	100%			100%	100%	100%	92%	100%	92%	33%	33%	
# of values between MDL and MRL						2							1		1	1		
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.13	0.11	NA	NA	NA	NA	NA	NA	NA	NA	22.3	22.0	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Northeast Bay A																	
	Sample Date																
	05/24/05	17.3	7.10	7.64	25.0	0.50	1.88	15.0	0.090			0.0011		1.07	0.036	3.87	0.00125
	06/16/05	16.1	7.63	11.34	13.8	0.50	0.785	15.0	0.077			0.00155		1.12	0.037	3.98	0.00125
	07/31/05	19.5	7.44	11.64	23.8	0.51	0.785	16.5	0.0575			0.064		1.04	0.038	3.84	0.00125
	08/12/05	18.1	7.33	17.86	32.5	0.30	1.88	15.5	0.0155			0.010		1.00	0.039	4.14	0.0025
	09/28/05	18.9	7.50	10.32	31.3	0.50	1.63	15.0	0.0775			0.00165		1.04	0.04	4.20	0.00125
	10/12/05	18.4	7.61	8.22	26.3	0.50	0.785	16.0	0.127			0.0057		0.993	0.071	4.44	0.00125
	05/30/07	17.9	7.30	7.75	71.3	0.0775	1.57	15.0	0.0875			0.0050		0.988	0.0580	3.85	0.00075
	06/12/07	18.8	7.26	8.96	32.5	0.281	1.57	15.0	0.168			0.0128		1.07	0.0830	4.35	0.00075
	07/18/07	21.2	7.54	13.68	26.3	0.333	1.57	16.3	0.050			0.0050		0.989	0.0520	3.95	0.00075
	08/20/07	16.6	7.39	12.21	17.5	0.316	1.57	15.3	0.0940			0.00155		0.866	0.0350	3.64	0.00075
	09/21/07	21.6	7.54	10.79	33.8	0.562	1.57	17.7	0.141			0.00155		0.653	0.0450	4.47	0.00075
	10/09/07	21.2	8.15	7.65	48.8	0.150	1.57	16.1	0.105			0.00155		0.791	0.0420	3.91	0.00075
	Mean	18.8	7.48	10.67	31.9	0.38	1.43	16.0	0.091	NA	NA	0.0090	NA	0.97	0.048	4.05	0.0011
	Median	18.6	7.47	10.56	28.8	0.42	1.57	15.0	0.089	NA	NA	0.0030	NA	1.00	0.041	3.97	0.0010
	St. Deviation	1.8	0.26	3.02	15.2	0.16	0.41	1	0.041	NA	NA	0.018	NA	0.13	0.015	0.26	0.0005
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	16.1	7.10	7.64	13.8	0.0775	0.785	15.0	0.0155	NA	NA	0.0011	NA	0.653	0.035	3.64	0.00075
	Maximum	21.6	8.15	17.86	71.3	0.562	1.88	17.7	0.168	NA	NA	0.064	NA	1.12	0.083	4.47	0.0025
	% of values undetected					25%	75%		17%			75%					100%
	# of values between MDL and MRL					3	3	1	6			1			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Northeast Bay A																				
Sample Date																				
05/24/05	0.00125	0.13		0.0155	6.46	3.49	0.0282	0.0306	0.315	0.125	4.9	4.91	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.00775	0.00775
06/16/05	0.0029	0.16		0.0155	4.44	1.00	0.0298	0.0392	0.274	0.125	5.43	5.27	0.0075	0.0075	0.00155	0.0068	1.55	1.55	0.025	0.025
07/31/05	0.00125	0.29		0.0155	7.19	3.00	0.0416	0.0312	0.125	0.323	5.67	5.06	0.0075	0.0075	0.0046	0.00155	5.0	5.0	0.00775	0.00775
08/12/05	0.00125	0.31		0.0155	17.5	7.33	0.0182	0.0204	0.125	0.250	5.74	5.28	0.0075	0.0075	0.0038	0.00155	5.0	4.1	0.00775	0.00775
09/28/05	0.00125	0.19		0.050	14.5	3.75	0.0244	0.0258	0.354	0.557	5.66	6.06	0.0075	0.0075	0.00155	0.00155	1.55	4.1	0.00775	0.00775
10/12/05	0.00125	0.19		0.133	13.4	3.92	0.037	0.0376	0.521	0.250	5.69	5.54	0.0075	0.0075	0.00155	0.00155	5.0	10.2	0.00775	0.00775
05/30/07	0.00075	0.155		0.0155	3.69	2.20	0.0250	0.0250	0.155	0.155	5.46	5.64	0.0125	0.0125	0.0075	0.0075	2.82	2.97	0.0075	0.0075
06/12/07	0.00075	0.155	0.960	0.050	5.22	2.51	0.0370	0.0376	0.362	0.155	5.94	5.89	0.0125	0.0125	0.0075	0.0075	3.38	3.84	0.0075	0.0075
07/18/07	0.00075	0.155		0.0155	12.6	3.85	0.0250	0.0250	0.155	0.155	6.48	6.32	0.0125	0.0125	0.0075	0.0075	5.03	4.63	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	5.18	2.89	0.0258	0.0300	0.155	0.155	5.36	5.94	0.0125	0.0125	0.0075	0.0075	3.69	4.01	0.0075	0.0075
09/21/07	0.00075	0.155	0.576	0.0155	36.6	7.79	0.0268	0.0296	0.155	0.155	7.71	7.34	0.0125	0.0125	0.0075	0.0075	3.17	3.05	0.0075	0.0075
10/09/07	0.00075	0.155		0.0155	13.1	3.67	0.0338	0.0308	0.155	0.155	6.87	6.15	0.0125	0.0125	0.0075	0.0075	3.36	3.17	0.0075	0.0075
Mean	0.0011	0.18	0.768	0.031	11.7	3.78	0.0294	0.0302	0.238	0.213	5.91	5.78	0.010	0.010	0.0050	0.0050	3.43	4	0.009	0.009
Median	0.0010	0.16	0.768	0.016	9.90	3.58	0.0275	0.0303	0.155	0.155	5.68	5.77	0.010	0.010	0.0061	0.0072	3.37	3.9	0.008	0.008
St. Deviation	0.0006	0.06	0.272	0.035	9.1	1.95	0.0067	0.0057	0.127	0.124	0.77	0.66	0.003	0.003	0.0028	0.003	1.38	2.2	0.005	0.005
# of values	12	12	2	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Minimum	0.00075	0.13	0.576	0.0155	3.69	1	0.0182	0.0204	0.125	0.125	4.9	4.91	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.0029	0.31	0.96	0.133	36.6	7.79	0.0416	0.0392	0.521	0.557	7.71	7.34	0.0125	0.0125	0.0075	0.0075	5.03	10.2	0.025	0.025
% of values undetected	92%	50%		92%		8%	17%	17%	58%	83%			100%	100%	83%	92%	50%	25%	100%	100%
# of values between MDL and MRL	1	6					4	4	4	1					2	1	5	8		
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.42	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.071	0.070
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Northeast Bay A																					
Sample Date																					
05/24/05	5610	5150	0.477	0.175	0.0142	0.0082	0.594	0.474	41.3	10.0	0.0155	0.050	804	803	0.994	0.486		0.644	0.618	0.260	0.241
06/16/05	5140	5850	0.347	0.511	0.0118	0.0114	0.454		11.7	20.9	0.0155	0.131	782	846	0.943	0.513	0.000450	0.745	0.803	0.263	
07/31/05	6350	5890	0.10	0.10	0.0268	0.0146	0.711	0.525	18.4	10.8	0.0155		896	859	2.06	0.525	0.000450	0.876	0.835	0.432	0.432
08/12/05	5930	5590	0.167	0.031	0.0284	0.022	0.554	0.519	19.1	3.1	0.0155		793	769	1.36	0.499	0.000450	0.773	0.814	0.273	
09/28/05	6160	6660	0.289		0.0312	0.023	0.701	0.385	17.9	6.45	0.0155		844	932	1.49	0.216	0.000450	0.763	0.853	0.286	
10/12/05	6050	6330	0.383	0.398	0.0332	0.0256	0.704	0.537	22.6	3.1	0.0155		804	848	1.44	0.100	0.000450	0.707	0.780	0.292	
05/30/07	5810	5800	0.100	0.100	0.0050	0.0050	0.435	0.449	18.1	15.7	0.0155	0.050	818	838	0.845	0.412	0.000169	0.799	0.831	0.100	0.100
06/12/07	6120	6300	0.305	0.100	0.0146	0.0120	0.577	0.505	22.5	14.7	0.0155	0.0155	845	1000	1.12	0.585	0.000169	0.892	0.851	0.268	0.322
07/18/07	6860	6690	0.050	0.050	0.0222	0.0100	0.694	0.593	44.3	26.2	0.0155	0.0155	977	1010	2.09	0.485	0.000169	0.920	0.888	0.256	0.383
08/20/07	5440	6010	0.309	0.100	0.0116	0.0116	0.466	0.490	10.0	10.0	0.650	0.0644	744	879	1.09	0.269	0.000169	0.702	0.784	0.171	0.228
09/21/07	7130	7090	0.223	0.100	0.0200	0.0102	0.622	0.552	44.3	17.4	0.050	0.0155	931	948	1.87	0.259	0.000169	0.965	0.966	0.100	0.231
10/09/07	7000	6450	0.100	0.050	0.0142	0.0130	0.628	0.522	26.3	10.0	0.0155	0.0155	895	867	1.34	0.207	0.00133	0.929	0.881	0.205	0.205
Mean	6130	6150	0.238	0.156	0.0194	0.014	0.595	0.505	24.7	12.4	0.071	0.045	844	880	1.39	0.380	0.00040	0.810	0.825	0.242	0.268
Median	6090	6160	0.256	0.100	0.0173	0.012	0.608	0.519	20.8	10.4	0.016	0.0328	831	860	1.35	0.449	0.00045	0.786	0.833	0.262	0.236
St. Deviation	620	540	0.135	0.155	0.0089	0.006	0.101	0.055	12.1	7	0.183	0.040	68	70	0.43	0.16	0.00034	0.104	0.083	0.090	0.106
# of values	12	12	12	11	12	12	12	11	12	12	12	8	12	12	12	12	11	12	12	12	8
Minimum	5140	5150	0.05	0.031	0.0050	0.0050	0.435	0.385	10.0	3.1	0.0155	0.0155	744	769	0.845	0.100	0.000169	0.644	0.618	0.100	0.100
Maximum	7130	7090	0.477	0.511	0.0332	0.0256	0.711	0.593	44.3	26.2	0.65	0.131	977	1010	2.09	0.585	0.00133	0.965	0.966	0.432	0.432
% of values undetected			33%	67%	8%	17%			8%	42%	92%	50%				8%	91%			17%	8%
# of values between MDL and MRL			1	1	3	5			5	5		1					1			1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.99	1.91	1000	1000	0.32	0.34	NA	NA	NA	NA	0.012	NA	NA	11.29	11.25
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Northeast Bay A																		
Sample Date																		
05/24/05	506	472	0.0775	0.0775	901	0.0031	0.0031	1600	1630	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.233	
06/16/05	545	568	0.250	0.0775	884	0.0031	0.0031	1720	1790	0.0031	0.0031	0.031	0.031	0.10	0.10	11.9	7.99	
07/31/05	604	559	0.0775	0.0775	965	0.0031	0.0031	1830	1790	0.0031	0.0031	0.031	0.031	0.228	0.10	16.4	19.6	
08/12/05	536	517	0.0775	0.0775	1150	0.0031	0.0031	1480	1480	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.75	
09/28/05	567	596	0.0775	0.0775	1160	0.0031	0.0031	1770	1860	0.0031	0.0031	0.031	0.031	0.10	0.10	0.7		
10/12/05	537	572	0.0775	0.0775	1340	0.0031	0.0031	1560	1680	0.0031	0.0031	0.031	0.031	0.10	0.10	4.41	1.61	
05/30/07	531	537	0.155	0.155	1140	0.0031	0.0031	1570	1610	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50		
06/12/07	553	576	0.155	0.155	1190	0.0031	0.0031	1670	1950	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.07	
07/18/07	630	630	0.155	0.155	1290	0.0031	0.0031	1850	1870	0.0050	0.0050	0.050	0.050	0.155	0.155	1.12	0.50	
08/20/07	477	549	0.155	0.155	1120	0.0031	0.0031	1480	1700	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.58	
09/21/07	673	663	0.155	0.155	1720	0.0031	0.0031	1580	1580	0.0050	0.0050	0.050	0.050	0.155	0.155	3.30	1.42	
10/09/07	635	575	0.155	0.155	1280	0.0031	0.0031	1730	1620	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.18	
Mean	566	568	0.131	0.116	1180	0.0031	0.0031	1650	1710	0.0040	0.0040	0.040	0.040	0.138	0.13	3.40	3.59	
Median	549	570	0.155	0.116	1160	0.0031	0.0031	1640	1690	0.0040	0.0040	0.040	0.040	0.155	0.13	0.73	1.30	
St. Deviation	58	50	0.054	0.04	230	0	0	130	140	0.001	0.001	0.01	0.01	0.039	0.03	5.27	6.05	
# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	
Minimum	477	472	0.0775	0.0775	884	0.0031	0.0031	1480	1480	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.233	
Maximum	673	663	0.250	0.155	1720	0.0031	0.0031	1850	1950	0.0050	0.0050	0.050	0.050	0.228	0.155	16.4	19.6	
% of values undetected			100%	100%		100%	100%			100%	100%	100%	100%	92%	100%	50%	25%	
# of values between MDL and MRL														1		1		
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.18	0.15	NA	NA	NA	NA	NA	NA	NA	NA	25.9	25.5	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

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2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Northeast Bay B																	
	Sample Date																
	05/24/05	17.8	7.30	7.57	30	0.30	0.785	15.0	0.070			0.0011		1.08	0.035	3.92	0.00125
	06/16/05	16.1	7.64	7.97	5.0	0.25	0.785	16.0	0.0595			0.00155		1.13	0.041	3.98	0.00125
	07/31/05	18.9	7.34	13.55	25.0	0.303	0.785	14.5	0.034			0.12		1.07	0.039	4.13	0.00125
	08/12/05	19.8	7.45	14.39	32.5	0.075	0.785	16.5	0.0945			0.010		0.979	0.04	4.21	0.00125
	09/28/05	20.2	7.50	10.32	40.0	0.50	1.75	15.5	0.098			0.00165		1.04	0.04	4.17	0.00125
	10/12/05	19.0	7.65	8.30	17.0	0.30	0.785	15.5	0.132			0.0057		0.993	0.071	4.36	0.00125
	05/30/07	18.5	7.26	6.38	26.3	0.400	1.57	15.0	0.0710			0.0120		1.01	0.0610	3.85	0.00075
	06/12/07	18.3	7.18	7.36	30.0	0.250	1.57	15.0	0.178			0.0050		1.07	0.0820	4.13	0.00075
	07/18/07	21.2	7.40	12.32	28.8	0.217	1.57	15.9	0.050			0.0050		0.954	0.0590	3.86	0.00075
	08/20/07	15.2	7.46	12.16	30.0	0.430	1.57	15.1	0.0950			0.0038		0.869	0.0330	3.64	0.00075
	09/21/07	22.4	7.39	10.81	36.3	0.526	1.57	20.1	0.180			0.00155		0.664	0.0440	4.60	0.00075
	10/09/07	21.2	8.00	7.62	33.8	0.078	1.57	16.0	0.110			0.00155		0.823	0.0420	3.84	0.00075
	Mean	19.1	7.46	9.90	28	0.30	1.26	15.8	0.10	NA	NA	0.010	NA	0.97	0.049	4.06	0.001
	Median	19.0	7.43	9.31	30	0.30	1.57	15.5	0.090	NA	NA	0	NA	1	0.042	4.06	0.001
	St. Deviation	2.1	0.22	2.72	9	0.14	0.42	1.5	0.05	NA	NA	0.03	NA	0.13	0.016	0.26	0.0003
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	15.2	7.18	6.38	5.0	0.075	0.785	14.5	0.034	NA	NA	0.0011	NA	0.664	0.033	3.64	0.00075
	Maximum	22.4	8.00	14.39	40.0	0.53	1.75	20.1	0.18	NA	NA	0.12	NA	1.13	0.082	4.6	0.00125
	% of values undetected				8%	33%	92%		8%			67%					100%
	# of values between MDL and MRL					6	1	1	7			2			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	92%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾		
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d	
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Northeast Bay B																					
Sample Date																					
05/24/05	0.00125	0.099		0.0155	6.67	2.56	0.0298	0.0298	0.306	0.125	4.99	4.67	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0164	0.00775	
06/16/05	0.00125	0.16		0.0155	4.67	1	0.0306		0.125	0.125	5.27	5.5	0.0075	0.0075	0.00155	0.0059	1.55	1.55	0.025	0.025	
07/31/05	0.00125	0.27		0.0155	6.8	3.2	0.0378	0.0332	0.125	0.125	5.64	5.15	0.0075	0.0075	0.0052	0.00155	5	5	0.00775	0.00775	
08/12/05	0.00125	0.26		0.0155	23.2	4.69	0.0248	0.0142	0.125	0.25	6.58	5.29	0.0075	0.0075	0.00155	0.00155	5	3.1	0.00775	0.00775	
09/28/05	0.00125	0.12		0.050	15.8	3.43	0.0282	0.024	0.125	0.125	6.07	5.89	0.0075	0.0075	0.00155	0.00155	4.3	1.55	0.00775	0.00775	
10/12/05	0.00125	0.17		0.050	11	3.13	0.0388	0.037	0.25	0.25	5.67	5.45	0.0075	0.0075	0.00155	0.00155	5	5	0.00775	0.00775	
05/30/07	0.00075	0.155		0.0155	4.60	3.77	0.0250	0.0250	0.155	0.155	5.72	5.96	0.0125	0.0125	0.0075	0.0075	2.92	3.70	0.0075	0.0075	
06/12/07	0.00075	0.155	0.940	0.050	5.93	2.17	0.0364	0.0384	0.155	0.155	5.45	5.71	0.0125	0.0125	0.0075	0.0075	3.43	3.64	0.0075	0.0075	
07/18/07	0.00075	0.155		0.0155	12.2	3.42	0.0250	0.0250	0.155	0.155	6.47	6.06	0.0125	0.0125	0.0075	0.0075	5.36	4.78	0.0075	0.0075	
08/20/07	0.00075	0.155		0.0155	6.46	3.31	0.0190	0.0206	0.155	0.155	5.35	5.34	0.0125	0.0125	0.0075	0.0075	3.95	3.90	0.0075	0.0632	
09/21/07	0.00075	0.155	0.519	0.0155	40.2	7.55	0.0276	0.0264	0.155	0.155	7.94	7.15	0.0125	0.0125	0.0075	0.0075	3.25	3.10	0.0075	0.0075	
10/09/07	0.00075	0.155		0.0155	13.4	3.82	0.0298	0.0320	0.155	0.155	6.70	6.30	0.0125	0.0125	0.0075	0.0075	3.57	3.15	0.0075	0.0075	
Mean	0.001	0.17	0.73	0.024	12.6	3.5	0.0294	0.028	0.166	0.161	5.99	5.71	0.01	0.01	0.0048	0.0049	3.74	3.3	0.010	0.014	
Median	0.001	0.16	0.73	0.016	8.9	3.37	0.029	0.026	0.155	0.155	5.7	5.61	0.01	0.01	0.0064	0.0067	3.76	3.4	0.008	0.008	
St. Deviation	0.0003	0.05	0.298	0.0156	10.3	1.57	0.0059	0.007	0.056	0.044	0.82	0.64	0.003	0.003	0.003	0.003	1.29	1.3	0.005	0.016	
# of values	12	12	2	12	12	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12	
Minimum	0.00075	0.099	0.519	0.0155	4.6	1	0.019	0.0142	0.125	0.125	4.99	4.67	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075	
Maximum	0.00125	0.27	0.94	0.05	40.2	7.55	0.0388	0.0384	0.306	0.25	7.94	7.15	0.0125	0.0125	0.0075	0.0075	5.36	5	0.025	0.0632	
% of values undetected	100%	50%		100%		8%	17%	17%	92%	100%			100%	100%	92%	92%	42%	42%	92%	92%	
# of values between MDL and MRL		6					4	4	1					1	1	6	7	1			
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.32	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.069	0.068	
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

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2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Northeast Bay B																					
Sample Date																					
05/24/05	5770	5310	0.494	0.326	0.0136	0.0126	0.625	0.460	10.0	10.0	0.050		820	769	0.915	0.51	0.000147	0.647	0.625	0.260	
06/16/05	5120	5730	0.322	0.368	0.0096	0.0116	0.472		14.7	9.73	0.0155		796	857	0.934	0.31	0.000450	0.780	0.737	0.234	
07/31/05	6070	5870	0.100	0.100	0.020	0.0106	0.663	0.546	14.7	10.8	0.0155		895	866	1.92	0.521	0.000450	0.832	0.803	0.284	
08/12/05	6530	5700	0.268	0.031	0.0326	0.0208	0.639	0.490	27.1	3.1	0.0155		842	777	1.40	0.456	0.000450	0.831	0.780	0.267	
09/28/05	6600	6510	0.279		0.0322	0.0204	0.587	0.529	19.2	6.25	0.0155		898	901	1.60	0.176	0.000450	0.811	0.824	0.321	
10/12/05	6240	6010	0.335	0.381	0.035	0.0252	0.708	0.456	15.5	3.1	0.0155		821	793	1.42	0.10	0.000450	0.745	0.734	0.298	
05/30/07	6020	6040	0.100	0.266	0.0102	0.0050	0.474	0.487	19.6	16.7	0.0155	0.050	853	891	0.890	0.427	0.000169	0.826	0.850	0.100	0.100
06/12/07	5950	6080	0.100	0.100	0.0050	0.0174	0.522	0.483	15.7	13.5	0.0155	0.0155	828	937	1.01	0.492	0.000169	0.787	0.812	0.223	0.297
07/18/07	6880	6420	0.185	0.050	0.0100	0.0100	0.570	0.439	33.8	25.7	0.0155	0.0155	984	968	1.30	0.422	0.000169	0.931	0.867	0.233	0.328
08/20/07	4960	5620	0.100	0.219	0.0050	0.0106	0.474	0.494	10.0	10.0	0.290	0.0444	678	771	0.953	0.277	0.000169	0.643	0.755	0.160	
09/21/07	7390	7020	0.100	0.100	0.0210	0.0122	0.667	0.629	46.3	15.9	0.050	0.0155	966	938	2.00	0.290	0.0025	1.03	0.957	0.100	
10/09/07	6990	6620	0.100	0.050	0.0154	0.0114	0.562	0.530	23.6	10.0	0.0155	0.0155	905	889	1.30	0.252	0.000169	0.908	0.864	0.100	0.258
Mean	6210	6080	0.210	0.181	0.017	0.014	0.580	0.504	20.9	11.2	0.044	0.026	857	863	1.30	0.353	0.00048	0.810	0.801	0.215	0.246
Median	6160	6030	0.140	0.100	0.015	0.0119	0.579	0.490	17.5	10.0	0.0155	0.0155	848	878	1.30	0.366	0.00031	0.820	0.808	0.234	0.278
St. Deviation	720	490	0.13	0.135	0.011	0.0057	0.082	0.053	10.6	6.3	0.079	0.016	81	70	0.4	0.138	0.00065	0.11	0.084	0.08	0.101
# of values	12	12	12	11	12	12	12	11	12	12	12	6	12	12	12	12	12	12	12	12	4
Minimum	4960	5310	0.100	0.031	0.005	0.005	0.472	0.439	10.0	3.1	0.0155	0.0155	678	769	0.89	0.10	0.000147	0.643	0.625	0.100	0.100
Maximum	7390	7020	0.494	0.381	0.035	0.0252	0.708	0.629	46.3	25.7	0.29	0.05	984	968	2.00	0.521	0.0025	1.03	0.957	0.321	0.328
% of values undetected			50%	50%	25%	17%			17%	42%	92%	42%				8%	100%			25%	8%
# of values between MDL and MRL			1		3	4			6	6		1				1				1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.92	1.84	1000	1000	0.30	0.32	NA	NA	NA	NA	0.012	NA	NA	10.89	10.86
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Preliminary Data Only - Do Not Cite or Quote

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Northeast Bay B																		
Sample Date																		
05/24/05	516	493	0.0775	0.0775	910	0.0031	0.0031	1620	1600	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.233	
06/16/05	539	565	0.250	0.0775	874	0.0031	0.0031	1630	1820	0.0031	0.0031	0.031	0.031	0.10	0.10	13.5	0.75	
07/31/05	582	559	0.0775	0.0775	966	0.0031	0.0031	1810	1790	0.0031	0.0031	0.031	0.031	0.10	0.10	15.3		
08/12/05	587	526	0.0775	0.0775	1230	0.0031	0.0031	1520	1420	0.0031	0.0031	0.031	0.031	0.10	0.479	0.75	0.75	
09/28/05	612	579	0.0775	0.0775	1150	0.0031	0.0031	1840	1770	0.0031	0.0031	0.031	0.031	0.306	0.10	0.637	0.919	
10/12/05	542	530	0.0775	0.0775	1300	0.0031	0.0031	1570	1550	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.75	
05/30/07	553	552	0.155	0.155	1160	0.0031	0.0031	1640	1660	0.0050	0.0050	0.050	0.106	0.155	0.155	0.50		
06/12/07	531	554	0.155	0.155	1130	0.0031	0.0031	1690	1820	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
07/18/07	620	596	0.155	0.155	1270	0.0031	0.0031	1880	1800	0.0050	0.0050	0.050	0.050	0.155	0.155	1.09	0.50	
08/20/07	1860	494	0.155	0.155	1080	0.0031	0.0031	1950	1560	0.0050	0.0050	0.050	0.050	0.155	0.155	5.03	2.33	
09/21/07	693	658	0.155	0.155	1720	0.0031	0.0031	1630	1570	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.48	
10/09/07	624	596	0.155	0.155	1320	0.0031	0.0031	1730	1670	0.0050	0.0050	0.050	0.050	0.155	0.155	1.06	1.13	
Mean	690	559	0.131	0.116	1180	0.0031	0.0031	1710	1670	0.0040	0.004	0.040	0.05	0.145	0.159	3.28	0.93	
Median	580	557	0.155	0.116	1160	0.0031	0.0031	1670	1670	0.0040	0.004	0.040	0.04	0.155	0.155	0.69	0.75	
St. Deviation	370	46	0.054	0.04	230	0	0	130	130	0.001	0.001	0.01	0.02	0.058	0.104	5.37	0.60	
# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	
Minimum	516	493	0.0775	0.0775	874	0.0031	0.0031	1520	1420	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.2325	
Maximum	1860	658	0.250	0.155	1720	0.0031	0.0031	1950	1820	0.0050	0.005	0.050	0.106	0.306	0.479	15.3	2.33	
% of values undetected			100%	100%		100%	100%			100%	100%	100%	92%	92%	92%	50%	50%	
# of values between MDL and MRL													1	1		1	1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.17	0.14	NA	NA	NA	NA	NA	NA	NA	NA	25.0	24.6	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

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2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Northeast Bay C																	
	Sample Date																
	05/24/05	17.1	7.40	5.32	28.0	2.4	1.63	14.0	0.08			0.0011		1.12	0.035	3.92	0.00125
	06/16/05	15.8	7.69	6.36	26.3	0.50	0.785	15.5	0.0695			0.00155		1.14	0.039	4.01	0.00125
	07/31/05	18.2	8.03	12.27	20.0	0.303	0.785	16.5	0.148			0.024		1.08	0.040	3.95	0.00125
	08/12/05	18.1	7.49	13.07	27.5	0.075	0.785	16.0	0.0485			0.010		1.05	0.038	4.02	0.00125
	09/28/05	19.4	7.20	10.31	15.0	0.40	0.785	15.5	0.0655			0.00165		1.03	0.044	4.11	0.00125
	10/12/05	19.5	7.58	8.34	26.0	0.50	0.785	16.0	0.12			0.0057		5.38	0.061	4.14	0.00125
	05/30/07	17.9	7.18	4.57	52.5	0.150	1.57	15.0	0.102			0.0125		1.02	0.0590	3.92	0.00075
	06/12/07	18.0	7.20	7.07	32.5	1.20	1.57	14.0	0.172			0.0177		1.04	0.0790	4.06	0.00075
	07/18/07	20.3	7.48	7.89	27.5	1.26	1.57	15.9	0.050			0.0411		0.971	0.0510	3.87	0.00075
	08/20/07	16.8	7.41	12.15	26.3	0.0765	1.57	15.0	0.131			0.0032		0.865	0.0320	3.64	0.00075
	09/21/07	22.1	7.33	10.83	35.0	1.81	1.57	20.0	0.154			0.00155		0.670	0.0450	4.68	0.00075
	10/09/07	22.3	7.88	7.58	31.3	22.7	1.57	29.6	0.122			0.0324		0.829	0.0400	3.94	0.00075
	Mean	18.8	7.49	8.81	29.0	3.0	1.25	17.0	0.105	NA	NA	0.0127	NA	1.35	0.047	4.02	0.001
	Median	18.2	7.45	8.12	27.5	1.0	1.57	16.0	0.111	NA	NA	0.0079	NA	1.04	0.042	3.98	0.001
	St. Deviation	2	0.27	2.85	9.1	6	0.41	4	0.042	NA	NA	0.0135	NA	1.28	0.014	0.24	0.0003
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	15.8	7.18	4.57	15	0.075	0.785	14.0	0.0485	NA	NA	0.0011	NA	0.67	0.032	3.64	0.00075
	Maximum	22.3	8.03	13.07	52.5	22.7	1.63	29.6	0.172	NA	NA	0.0411	NA	5.38	0.079	4.68	0.00125
	% of values undetected					25%	92%		8%			42%					100%
	# of values between MDL and MRL					2	1		4			2			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	83%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Northeast Bay C																				
Sample Date																				
05/24/05	0.00125	0.18		0.0155	6.95	2.39	0.0306	0.0294	0.125	0.125	4.78	4.89	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0162	0.00775
06/16/05	0.0029	0.16		0.0155	4.48	1.00	0.0296	0.0382	0.125	0.125	5.39	5.27	0.0075	0.0075	0.00155	0.0038	1.55	1.55	0.025	0.025
07/31/05	0.00125	0.30		0.0155	7.21	2.95	0.0334	0.0344	0.125	0.125	5.43	4.87	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
08/12/05	0.00125	0.24		0.033	15.2	2.78	0.0216	0.0124	0.250	0.250	5.69	5.02	0.0075	0.0075	0.00155	0.00155	5.0	3.3	0.00775	0.00775
09/28/05	0.00125	0.22		0.050	13.6	3.14	0.0238	0.0158	0.125	0.313	5.80	5.84	0.0075	0.0075	0.00155		6.8	1.55	0.0162	0.00775
10/12/05	0.00125	0.16		0.050	12.4	2.16	0.0402	0.00155	0.250	0.125	5.77	0.10	0.0075	0.0075	0.00155	0.00155	5.0	1.55	0.00775	0.00775
05/30/07	0.00075	0.155		0.0155	3.78	2.42	0.0250	0.0250	0.155	0.155	5.57	6.45	0.0125	0.0125	0.0075	0.0075	2.93	3.40	0.0075	0.0075
06/12/07	0.00075	0.155	0.894	0.050	11.8	2.32	0.0360	0.0386	0.155	0.155	5.88	5.46	0.0125	0.0125	0.0075	0.0075	2.90	3.63	0.0075	0.0075
07/18/07	0.00075	0.155		0.0155	19.4	2.74	0.0250	0.0250	0.155	0.155	6.38	6.25	0.0125	0.0125	0.0075	0.0075	4.28	4.88	0.0075	0.0075
08/20/07	0.00075	0.155		0.0412	5.18	2.10	0.0180	0.0198	0.155	0.155	5.14	5.30	0.0125	0.0125	0.0075	0.0075	3.83	3.82	0.0075	0.0075
09/21/07	0.00075	0.155	0.592	0.0155	419	7.65	0.0298	0.0298	0.508	0.155	12.1	7.45	0.0125	0.0125	0.0075	0.0075	3.10	3.32	0.0075	0.0075
10/09/07	0.00075	0.155		0.128	1260	5.80	0.0424	0.0364	0.916	0.155	21.7	6.84	0.0125	0.0125	0.0075	0.0075	3.25	3.38	0.0300	0.0075
Mean	0.0011	0.18	0.743	0.037	150	3.12	0.0296	0.0255	0.254	0.166	7.50	5.31	0.010	0.010	0.0045	0.0050	3.8	3.08	0.012	0.009
Median	0.0010	0.16	0.743	0.024	10.0	2.58	0.0297	0.0272	0.155	0.155	5.70	5.38	0.010	0.010	0.0045	0.0075	3.5	3.35	0.0080	0.008
St. Deviation	0.0006	0.05	0.214	0.032	370	1.81	0.0074	0.0114	0.235	0.057	4.9	1.83	0.003	0.003	0.0031	0.0029	1.5	1.26	0.008	0.005
# of values	12	12	2	12	12	12	12	12	12	12	12	12	12	12	12	11	12	12	12	12
Minimum	0.00075	0.16	0.592	0.0155	3.78	1.00	0.0180	0.00155	0.125	0.125	4.78	0.10	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.0029	0.30	0.894	0.128	1260	7.65	0.0424	0.0386	0.916	0.313	21.7	7.45	0.0125	0.0125	0.0075	0.0075	6.8	5.0	0.0300	0.025
% of values undetected	92%	50%		75%		8%	17%	25%	83%	92%		8%	100%	100%	100%	83%	42%	42%	75%	100%
# of values between MDL and MRL	1	6		2			4	4		1						1	7	7	3	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.42	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.071	0.070
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Northeast Bay C																					
Sample Date																					
05/24/05	5560	5360	0.523	0.304	0.015	0.0124	0.732	0.518	10.0	10.0	0.050		788	787	1.00	0.564		0.653	0.635	0.260	
06/16/05	5050	5610	0.387	0.373	0.011	0.0150	0.590	0.457	12.3	7.18	0.0155		780	836	0.954	0.264	0.000450	0.749	0.703	0.230	
07/31/05	5870	5760	0.100	0.100	0.0184	0.0104	0.551	0.508	10.5	8.8	0.0155		858	829	1.94	0.484	0.0025	0.790	0.795	0.191	
08/12/05	5920	5310	0.208	0.031	0.026	0.0198	0.543	0.498	35.7	6.27	0.0155		794	729	2.38	0.281	0.000450	0.752	0.675	0.243	
09/28/05	6330	6210	0.238		0.0238	0.0134	0.512	0.495	15.6	6.68	0.0155		877	904	1.52	0.169	0.000450	0.771	0.712	0.290	
10/12/05	6400	7.75	0.448	0.233	0.032	0.0130	0.565	0.050	16.1	3.1	0.325	0.050	848	0.775	1.47	0.031	0.000450	0.743	0.0031	0.298	0.0155
05/30/07	5810	6400	0.100		0.0050	0.0114	0.493	0.536	17.0	15.7	0.0155	0.0155	818	938	0.694	0.297	0.000169	0.806	0.893	0.100	0.236
06/12/07	5860	5810	0.299	0.050	0.0140	0.0110	0.588	0.448	25.8	11.9	0.050	0.0155	813	874	1.31	0.435	0.000169	0.822	0.748	0.246	0.100
07/18/07	6580	6560	0.116	0.050	0.0228	0.0100	0.566	0.465	49.5	26.6	0.0155	0.050	930	982	2.47	0.454	0.000169	0.874	0.879	0.254	0.353
08/20/07	5480	5530	0.100	0.100	0.0100	0.0050	0.466	0.410	10.0	10.0	0.0155	0.0155	746	770	1.04	0.224	0.000169	0.709	0.743	0.160	0.158
09/21/07	7180	7250	0.351	0.100	0.142	0.0124	1.25	0.535	439	17.0	0.187	0.0155	1000	972	20.9	0.452	0.0025	1.03	0.993	0.323	0.359
10/09/07	7040	6610	0.663		0.380	0.0198	2.69	0.507	1060	32.6	0.546	0.0334	1150	924	30.4	1.58	0.000664	0.985	0.895	0.707	0.363
Mean	6090	5530	0.294	0.149	0.060	0.0128	0.800	0.452	140	13	0.106	0.028	870	795	5.50	0.44	0.00074	0.810	0.723	0.275	0.226
Median	5900	5790	0.269	0.100	0.020	0.0124	0.570	0.497	20.0	10	0.016	0.0155	830	855	1.50	0.37	0.00045	0.780	0.746	0.250	0.236
St. Deviation	630	1840	0.186	0.123	0.11	0.0041	0.63	0.132	310	8.8	0.168	0.016	110	263	9.6	0.39	0.00089	0.11	0.251	0.149	0.14
# of values	12	12	12	9	12	12	12	12	12	12	12	7	12	12	12	12	11	12	12	12	7
Minimum	5050	7.75	0.100	0.031	0.005	0.0050	0.466	0.050	10.0	3.1	0.0155	0.0155	746	0.775	0.694	0.031	0.000169	0.653	0.0031	0.100	0.0155
Maximum	7180	7250	0.663	0.373	0.38	0.0198	2.69	0.536	1060	33	0.546	0.05	1150	982	30.4	1.58	0.0025	1.03	0.993	0.707	0.363
% of values undetected		8%	25%	50%	8%	17%		8%	17%	25%	75%	50%		8%		8%	91%		8%	8%	17%
# of values between MDL and MRL			1		2	4			5	7		1				1	1			1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.99	1.91	1000	1000	0.32	0.33	NA	NA	NA	NA	0.012	NA	NA	11.27	11.24
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	8%	0%	8%	0%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Preliminary Data Only - Do Not Cite or Quote

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Northeast Bay C																		
Sample Date																		
05/24/05	498	504	0.0775	0.0775	920	0.0031	0.0031	1580	1660	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.233	
06/16/05	553	545	0.250	0.0775	877	0.0031	0.0031	1680	1760	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75		
07/31/05	565	551	0.0775	0.0775	982	0.0031	0.0031	2300	2030	0.0031	0.0031	0.031	0.031	0.10	0.10	6.51		
08/12/05	535	491	0.0775	0.0775	1080	0.0031	0.0031	1500	1420	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.75	
09/28/05	586	588	0.0775	0.0775	1160	0.0031	0.0031	1790	1790	0.0031	0.0031	0.031	0.031	0.10	0.252	0.805	1.22	
10/12/05	556	7.75	0.0775	0.0775	75	0.0031	0.0031	1650	15.5	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.75	
05/30/07	538	588	0.155	0.155	1240	0.0031	0.0031	1590	1760	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50		
06/12/07	540	531	0.155	0.155	1040	0.0031	0.0031	1570	1680	0.0050	0.0102	0.050	0.050	0.155	0.155	0.50	1.11	
07/18/07	605	610	0.155	0.155	1220	0.0031	0.0031	1800	1840	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
08/20/07	484	486	0.155	0.155	1070	0.0031	0.0031	1490	1530	0.0050	0.0050	0.050	0.050	0.155	0.155	1.92	0.50	
09/21/07	706	683	0.155	0.155	1770	0.0031	0.0031	1600	1630	0.0050	0.0050	0.050	0.050	0.936	0.155	2.95	1.14	
10/09/07	731	603	0.155	0.155	1370	0.0031	0.0031	1770	1680	0.0050	0.0050	0.050	0.050	2.68	0.155	5.24	1.30	
Mean	575	516	0.131	0.116	1070	0.0031	0.0031	1690	1570	0.0040	0.0040	0.040	0.040	0.40	0.14	1.78	0.83	
Median	555	548	0.155	0.116	1080	0.0031	0.0031	1630	1680	0.0040	0.0040	0.040	0.040	0.10	0.155	0.75	0.75	
St. Deviation	75	170	0.054	0.04	390	0	0	220	510	0.001	0.002	0.01	0.01	0.8	0.045	2.07	0.38	
# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	9	
Minimum	484	7.75	0.0775	0.0775	75	0.0031	0.0031	1490	15.5	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.233	
Maximum	731	683	0.25	0.155	1770	0.0031	0.0031	2300	2030	0.0050	0.0102	0.050	0.050	2.68	0.252	6.51	1.3	
% of values undetected		8%	100%	100%	8%	100%	100%		8%	100%	92%	100%	100%	83%	92%	58%	42%	
# of values between MDL and MRL											1			1	1	1	1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.18	0.15	NA	NA	NA	NA	NA	NA	NA	NA	25.8	25.5	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Pile Bay A																	
	Sample Date																
	05/25/05	15.5	7.3	4.32	25.0	0.20	1.63	12.0	0.16			0.0011		1.04	0.034	3.96	0.00125
	06/14/05	13.4	7.64	7.08	20.0	0.20	0.785	10.5	0.154			0.0090		0.962	0.031	4.38	0.00125
	07/23/05	14.6	7.3	13.01	30.0	0.211	0.785	12.0	0.098			0.0535		0.935	0.036	4.32	0.00125
	08/13/05	15.5	7.38	16.31	22.5	0.075	0.785	15.0	0.0155			0.010		1.04	0.035	3.90	0.00125
	09/29/05	16.9	7.61	10.11	30.0	0.40	1.63	14.5	0.087			0.00165		1.02	0.039	4.00	0.00125
	10/14/05	17.3	7.39	8.56	27.5	0.60	0.785	14.0	0.123			0.0057		1.01	0.064	4.15	0.00125
	05/29/07	16.9	7.26	4.30	22.5	0.206	5.00	13.9	0.136			0.0050		1.07	0.0550	3.82	0.00075
	06/11/07	18.3	7.27	4.99	12.5	0.075	1.57	14.0	0.133			0.0132		1.05	0.0830	3.94	0.00075
	07/19/07	17.8	7.05	12.13	23.8	0.200	1.57	13.5	0.050			0.0050		0.983	0.0530	3.53	0.00075
	08/20/07	15.0	7.29	6.62	25.0	0.435	1.57	14.0	0.133			0.0064		0.893	0.0310	3.45	0.00075
	09/22/07	19.2	7.20	9.96	35.0	0.208	1.57	15.0	0.0960			0.00155		0.870	0.0390	3.76	0.00075
	10/09/07	19.5	7.67	8.78	30.0	0.080	1.57	14.7	0.0925			0.0033		0.924	0.0420	3.73	0.00075
	Mean	16.7	7.36	8.85	25.0	0.20	1.60	14.0	0.11	NA	NA	0.010	NA	0.98	0.045	3.91	0.001
	Median	16.9	7.30	8.67	25.0	0.20	1.57	14.0	0.11	NA	NA	0.0050	NA	1	0.039	3.92	0.001
	St. Deviation	1.9	0.19	3.70	6	0.2	1.14	1	0.043	NA	NA	0.014	NA	0.07	0.016	0.28	0.0003
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	13.4	7.05	4.3	12.5	0.075	0.785	10.5	0.0155	NA	NA	0.0011	NA	0.87	0.031	3.45	0.00075
	Maximum	19.5	7.67	16.31	35.0	0.60	5.00	15.0	0.16	NA	NA	0.0535	NA	1.07	0.083	4.38	0.00125
	% of values undetected					25%	75%		17%			50%					100%
	# of values between MDL and MRL					8	3	1	4			4			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Preliminary Data Only - Do Not Cite or Quote

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Pile Bay A																				
Sample Date																				
05/25/05	0.00125	0.12		0.0155	25.2	9.00	0.0292	0.0316	0.369	0.125	5.23	5.21	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0252	0.00775
06/14/05	0.00125	0.0295		0.0155	46.3	12.0	0.0326	0.0286	0.125	0.26	6.29	5.93	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.025	0.025
07/23/05	0.00125	0.18		0.0155	24.8	7.92	0.0194	0.0218	0.125	0.125	4.93	4.91	0.0075	0.0075	0.00155	0.00155	5	5	0.00775	0.00775
08/13/05	0.00125	0.26		0.0155	9.06	3.34	0.0144	0.0054	0.125	0.125	5.20	4.67	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.00775	0.00775
09/29/05	0.00125	0.21		0.0155	21.8	5.53	0.0016		0.378	0.402	5.75	5.25	0.0075	0.0075	0.0050	0.00155	5	6	0.00775	0.00775
10/14/05	0.00125	0.18		0.050	10.3	3.92	0.0204	0.0284	0.25	0.125	5.41	5.39	0.0075	0.0075	0.00155	0.00155	5	5	0.00775	0.00775
05/29/07	0.00075	0.155		0.0155	5.79	3.37	0.0250	0.0250	0.155	0.155	5.55	5.97	0.0125	0.0125	0.0075	0.0075	3.20	3.25	0.0075	0.0075
06/11/07	0.00075	0.155	0.825	0.0155	10.3	4.63	0.0288	0.0416	0.155	0.155	6.06	6.27	0.0125	0.0125	0.0075	0.0075	4.05	3.68	0.0075	0.0075
07/19/07	0.00075	0.155		0.0155	11.1	6.35	0.0250	0.0250	0.155	0.155	5.96	5.76	0.0125	0.0125	0.0075	0.0075	5.13	4.41	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	6.53	4.15	0.0075	0.0318	0.155	0.155	5.12	5.98	0.0125	0.0125	0.0075	0.0075	3.60	3.78	0.0075	0.0075
09/22/07	0.00075	0.155	0.350	0.138	11.1	3.82	0.0192	0.0262	0.155	0.155	6.20	6.28	0.0125	0.0125	0.0075	0.0075	3.53	3.43	0.0075	0.0075
10/09/07	0.00075	0.155		0.0155	8.63	3.58	0.0256	0.0310	0.155	0.155	6.13	5.85	0.0125	0.0125	0.0075	0.0075	3.35	3.23	0.0075	0.0075
Mean	0.001	0.16	0.588	0.029	15.9	5.6	0.0207	0.0269	0.19	0.17	5.65	5.62	0.010	0.010	0.0048	0.0045	3.54	3.54	0.011	0.0090
Median	0.001	0.16	0.588	0.016	10.7	4.4	0.0227	0.0284	0.16	0.16	5.65	5.81	0.010	0.010	0.0063	0.0045	3.57	3.56	0.0080	0.0080
St. Deviation	0.0003	0.054	0.336	0.036	11.8	2.7	0.0092	0.0088	0.091	0.08	0.47	0.53	0.003	0.003	0.003	0.0031	1.39	1.45	0.007	0.005
# of values	12	12	2	12	12	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12
Minimum	0.00075	0.030	0.350	0.0155	5.79	3.34	0.0016	0.0054	0.125	0.125	4.93	4.67	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.00125	0.26	0.825	0.138	46.3	12.0	0.0326	0.0416	0.378	0.402	6.29	6.28	0.0125	0.0125	0.0075	0.0075	5.13	6.00	0.0252	0.025
% of values undetected	100%	58%		92%			33%	17%	83%	83%			100%	100%	100%	100%	50%	42%	92%	100%
# of values between MDL and MRL		5	1				3	5	2	2							5	7	1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.58	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.063	0.063
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Pile Bay A																					
Sample Date																					
05/25/05	5070	4550	0.519	0.204	0.047	0.0374	2.23	1.46	10.0	10.0	0.050		696	683	2.55	1.85	0.000147	0.646	0.573	0.263	
06/14/05	4410	3970	0.305	0.406	0.100	0.0942	4.35	2.69	43.8	16.5	0.050		582	558	7.03	6.19	0.000450	0.722	0.715	0.236	
07/23/05	4740	4640	0.031	0.10	0.0454	0.0174	1.45	1.01	11.6	3.1	0.0155		667	652	3.95	1.98	0.0025	0.625	0.633	0.223	
08/13/05	5080	4760	0.0664	0.031	0.0314	0.0214	0.794	0.628	12.6	3.1	0.0155		682	643	1.72	0.442	0.000450	0.617	0.536	0.213	
09/29/05	5500	5570	0.642	0.427	0.0284	0.029	1.10	0.804	24.6	3.1	0.0155		766	731	2.09	0.283	0.000450	0.499		0.272	
10/14/05	5670	5670	0.278		0.0332	0.0234	1.18	0.827	10.5	11.5	0.0155		754	781	1.46	0.229	0.000450	0.659	0.727	0.258	
05/29/07	5510	5910	0.100	0.050	0.0126	0.0114	0.674	0.636	17.9	13.9	0.0155	0.050	762	846	1.52	0.846	0.000169	0.724	0.762	0.100	0.202
06/11/07	5990	6030	0.423	0.278	0.0182	0.0172	0.958	0.794	20.8	18.3	0.0155	0.050	804	873	2.61	1.08	0.000169	0.800	0.818	0.226	0.353
07/19/07	5790	5590	0.050	0.050	0.0280	0.0100	2.97	0.765	29.8	23.7	0.050	0.0155	815	786	1.89	0.695	0.000169	0.771	0.752	0.286	0.278
08/20/07	4930	5740	0.050	0.100	0.0126	0.0140	0.572	0.625	10.0	10.0	0.0400	0.0398	662	739	1.13	0.651	0.000169	0.625	0.711	0.143	0.130
09/22/07	6310	6490	0.213	0.228	0.0164	0.0116	0.853	0.683	20.5	13.7	0.050	0.0155	842	885	1.66	0.428	0.0025	0.771	0.803	0.100	0.100
10/09/07	6440	5990	0.050	0.050	0.0170	0.0050	0.928	0.646	10.0	10.0	0.0155	0.0155	824	815	1.33	0.255	0.000169	0.828	0.749	0.100	0.213
Mean	5450	5410	0.227	0.175	0.033	0.0243	1.50	0.960	18.5	11.0	0.029	0.031	738	749	2.41	1.24	0.00065	0.691	0.707	0.202	0.213
Median	5510	5630	0.157	0.100	0.028	0.0173	1.03	0.780	15.3	11.0	0.0155	0.028	758	760	1.81	0.67	0.00031	0.691	0.727	0.225	0.208
St. Deviation	630	750	0.209	0.145	0.024	0.0237	1.13	0.59	10.3	6	0.017	0.017	80	101	1.64	1.66	0.00087	0.095	0.090	0.071	0.093
# of values	12	12	12	11	12	12	12	12	12	12	12	6	12	12	12	12	12	12	11	12	6
Minimum	4410	3970	0.031	0.031	0.0126	0.0050	0.572	0.625	10.0	3.1	0.0155	0.0155	582	558	1.13	0.229	0.000147	0.499	0.536	0.1	0.1
Maximum	6440	6490	0.642	0.427	0.10	0.0942	4.35	2.69	43.8	23.7	0.050	0.05	842	885	7.03	6.19	0.0025	0.828	0.818	0.286	0.353
% of values undetected			42%	50%		17%			25%	50%	92%	42%					100%			25%	8%
# of values between MDL and MRL			1		5	4			4	5	1	1								1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.74	1.68	1000	1000	0.26	0.28	NA	NA	NA	NA	0.012	NA	NA	9.92	9.89
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	25%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Preliminary Data Only - Do Not Cite or Quote

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Pile Bay A																		
Sample Date																		
05/25/05	468	432	0.0775	0.0775	1250	0.0031	0.0031	1510	1520	0.0031	0.0031	0.031	0.031	0.10	0.10	2.45	2.03	
06/14/05	445	437	0.25	0.25	1460	0.0031	0.0031	1390	1450	0.0031	0.0031	0.071	0.031	0.10	0.10	7.15		
07/23/05	446	449	0.0775	0.0775	1090	0.0031	0.0031	1430	1420	0.0031	0.0031	0.031	0.031	0.262	0.211	12.8		
08/13/05	449	443	0.0775	0.0775	1100	0.0031	0.0031	1350	1300	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.750	
09/29/05	512	500	0.0775	0.0775	1260	0.0031	0.0031	1630	1580	0.0031	0.0031	0.031	0.031	0.206	0.10	0.771	0.862	
10/14/05	498	573	0.0775	0.0775	1170	0.0031	0.0031	1560	1680	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	1.85	
05/29/07	514	613	0.155	0.155	1130	0.0062	0.0031	1590	1700	0.0050	0.0050	0.050	0.050	0.155	0.155	3.47	3.69	
06/11/07	543	577	0.155	0.155	1300	0.0031	0.0031	1690	1730	0.0216	0.0050	0.050	0.050	0.155	0.155	0.50	1.19	
07/19/07	530	513	0.155	0.155	1280	0.0031	0.0031	1710	1650	0.0050	0.0050	0.050	0.050	0.155	0.155	2.83	1.61	
08/20/07	433	501	0.155	0.155	1260	0.0031	0.0031	1400	1560	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.35	
09/22/07	583	585	0.155	0.155	1250	0.0031	0.0031	1770	1760	0.0050	0.0050	0.050	0.050	0.155	0.155	3.07	2.62	
10/09/07	590	542	0.155	0.155	1160	0.0031	0.0031	1770	1610	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.11	
Mean	501	514	0.13	0.13	1230	0.0034	0.0031	1570	1580	0.0050	0.0040	0.040	0.040	0.15	0.137	2.96	1.71	
Median	505	507	0.16	0.16	1250	0.0031	0.0031	1580	1600	0.0040	0.0040	0.050	0.040	0.16	0.155	1.61	1.48	
St. Deviation	54	64	0.054	0.054	100	0.0009	0	150	140	0.005	0.001	0.01	0.01	0.048	0.036	3.66	0.90	
# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	
Minimum	433	432	0.0775	0.0775	1090	0.0031	0.0031	1350	1300	0.0031	0.0031	0.031	0.031	0.1	0.10	0.50	0.75	
Maximum	590	613	0.25	0.25	1460	0.0062	0.0031	1770	1760	0.0216	0.005	0.071	0.050	0.262	0.211	12.8	3.69	
% of values undetected			100%	100%		92%	100%			92%	100%	92%	100%	83%	92%	42%	8%	
# of values between MDL and MRL						1						1		2	1	1	1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.14	0.12	NA	NA	NA	NA	NA	NA	NA	NA	22.7	22.4	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

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2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Pile Bay B																	
	Sample Date																
	05/25/05	15.6	7.20	4.12	56.0	0.50	2.38	11.0	0.190			0.0011		1.02	0.033	4.06	0.00125
	06/14/05	14.2	7.44	4.99	17.5	0.50	0.785	11.0	0.122			0.00155		1.00	0.032	4.32	0.00125
	07/23/05	15.1	7.30	10.51	33.8	0.303	0.785	13.5	0.126			0.048		1.00	0.034	3.93	0.00125
	08/13/05	17.1	7.41	13.96	28.8	0.30	0.785	12.0	0.0785			0.010		1.05	0.038	4.00	0.00125
	09/29/05	16.1	7.58	10.06	28.8	0.20	0.785	13.5	0.089			0.013		1.01	0.038	4.06	0.00125
	10/14/05	16.8	7.36	8.81	30.0	0.20	0.785	14.5	0.130			0.014		1.02	0.062	4.18	0.0025
	05/29/07	16.8	7.25	4.15	20.0	0.302	1.57	14.0	0.166			0.0050		1.07	0.0560	3.81	0.00075
	06/11/07	18.9	6.96	4.39	18.8	0.700	1.57	13.0	0.189			0.0119		1.05	0.0830	3.94	0.00075
	07/19/07	17.5	7.17	11.64	26.3	0.200	1.57	13.4	0.158			0.0050		0.976	0.0520	3.54	0.00075
	08/20/07	15.9	7.12	5.34	21.3	0.1595	1.57	14.4	0.137			0.0104		0.888	0.0155	3.47	0.00075
	09/22/07	18.3	7.24	9.95	28.8	0.077	1.57	15.0	0.259			0.241		0.868	0.0380	3.77	0.00075
	10/09/07	18.2	7.62	8.78	38.8	0.0815	1.57	14.7	0.117			0.00155		0.875	0.0390	3.62	0.00075
	Mean	16.7	7.30	8.06	29.1	0.29	1.31	13.0	0.147	NA	NA	0.030	NA	0.99	0.043	3.89	0.0011
	Median	16.8	7.28	8.80	28.8	0.25	1.57	14.0	0.134	NA	NA	0.010	NA	1.01	0.038	3.94	0.0010
	St. Deviation	1.4	0.19	3.35	10.6	0.19	0.52	1	0.05	NA	NA	0.07	NA	0.07	0.017	0.26	0.0005
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	14.2	6.96	4.12	17.5	0.077	0.785	11.0	0.0785	NA	NA	0.0011	NA	0.868	0.0155	3.47	0.00075
	Maximum	18.9	7.62	13.96	56.0	0.70	2.38	15.0	0.259	NA	NA	0.241	NA	1.07	0.083	4.32	0.0025
	% of values undetected					25%	92%					50%			8%		100%
	# of values between MDL and MRL					6	1	1	2			2			11		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Pile Bay B																				
Sample Date																				
05/25/05	0.00125	0.18		0.0155	56.8	8.19	0.0322	0.0236	0.328	0.125	5.37	5.06	0.0075	0.0075	0.00155	0.00155	5.1	1.55	0.00775	0.00775
06/14/05	0.00125	0.13		0.0155	39.8	8.42	0.150	0.0320	0.125	0.125	6.19	5.59	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.025	0.025
07/23/05	0.00125	0.14		0.0155	16.0	5.26	0.0230	0.0244	0.125	0.125	5.04	4.66	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
08/13/05	0.00125	0.19		0.0155	11.0	3.87	0.0170	0.0120	0.125	0.125	5.45	4.86	0.0075	0.0075	0.00155	0.00155	3.4	1.55	0.00775	0.00775
09/29/05	0.00125	0.23		0.0155	6.1		0.0196	0.0166	0.125	0.292	5.24	5.61	0.0075	0.0075	0.00155	0.00155	5.4	6.7	0.00775	0.00775
10/14/05	0.00125	0.091		0.148	10.7	4.16	0.0298	0.0244	0.125	0.125	5.58	5.29	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
05/29/07	0.00075	0.155		0.0155	5.80	4.18	0.0250	0.0250	0.155	0.155	5.43	5.80	0.0125	0.0125	0.0075	0.0075	3.24	3.30	0.0075	0.0075
06/11/07	0.00075	0.155	0.713	0.0155	9.72	3.71	0.0334	0.0504	0.155	0.155	6.35	6.15	0.0125	0.0125	0.0075	0.0075	3.93	3.44	0.0075	0.0075
07/19/07	0.00075	0.155		0.0155	9.78	5.17	0.0250	0.0250	0.155	0.155	5.96	6.13	0.0125	0.0125	0.0075	0.0075	4.27	4.85	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	5.55	2.73	0.0172	0.0352	0.155	0.155	4.96	5.94	0.0125	0.0125	0.0075	0.0075	3.77	3.78	0.0075	0.0075
09/22/07	0.00075	0.155	0.415	0.0155	12.5	3.37	0.0164	0.0196	0.155	0.155	5.92	5.88	0.0125	0.0125	0.0075	0.0075	3.23	3.37	0.0075	0.0075
10/09/07	0.00075	0.155		0.0155	8.72	3.52	0.0294	0.0336	0.155	0.155	5.78	6.00	0.0125	0.0125	0.0075	0.0075	3.70	3.41	0.0075	0.0075
Mean	0.0010	0.16	0.564	0.0270	16.0	4.78	0.035	0.0268	0.157	0.154	5.61	5.58	0.010	0.010	0.0045	0.0045	4.0	3.63	0.0090	0.0090
Median	0.0010	0.16	0.564	0.0160	10.2	4.16	0.025	0.0247	0.155	0.155	5.52	5.71	0.010	0.010	0.0045	0.0045	3.9	3.43	0.0080	0.0080
St. Deviation	0.0003	0.03	0.211	0.038	15.8	1.89	0.037	0.01	0.056	0.046	0.44	0.5	0.003	0.003	0.0031	0.0031	1.1	1.59	0.005	0.005
# of values	12	12	2	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Minimum	0.00075	0.091	0.415	0.0155	5.55	2.73	0.0164	0.0120	0.125	0.125	4.96	4.66	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.00125	0.23	0.713	0.148	56.8	8.42	0.15	0.0504	0.328	0.292	6.35	6.15	0.0125	0.0125	0.0075	0.0075	5.4	6.7	0.025	0.025
% of values undetected	100%	50%		92%			17%	17%	92%	92%			100%	100%	100%	100%	25%	42%	100%	100%
# of values between MDL and MRL		6	1				4	3	1	1							9	7		
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.80	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.065	0.065
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Pile Bay B																					
Sample Date																					
05/25/05	5120	4730	0.526	0.236	0.0544	0.0442	2.62	1.96	10.0	3.1	0.114		691	639	3.13	2.58		0.619	0.654	0.253	
06/14/05	4650	4550	0.355	0.359	0.0818	0.0632	6.03	2.35	27.1	7.78	0.0155	0.129	639	626	5.64	4.35	0.000450	0.778	0.721	0.882	0.731
07/23/05	4890	4790	0.031	0.100	0.0284	0.0050	1.21	0.724	7.15	3.1	0.0155		701	669	2.11	0.300	0.0025	0.628	0.603	0.229	
08/13/05	5650	5180	0.189	0.130	0.0356	0.0206	0.839	0.678	12.9	3.1	0.0155		725	707	1.76	0.246	0.000450	0.7	0.643	0.23	
09/29/05	5300	5520	0.269	0.282	0.0326	0.0388	0.893		6.75	16.9	0.225	0.0155	697	736	0.352		0.000450	0.669	0.721	1.04	0.231
10/14/05	5460	5650	0.354	0.552	0.0278	0.0230	1.02	0.845	12.6	11.6	0.0155		778	796	1.48	0.217	0.000450	0.691	0.708	0.197	0.591
05/29/07	5470	5710	0.050	0.202	0.0144	0.0116	0.722	0.639	17.7	15.6	0.0155		760	837	1.48	0.791	0.000169	0.723	0.745	0.100	0.100
06/11/07	6160	5780	0.347	0.287	0.0202	0.0148	0.900	0.821	23.7	17.1	0.0155	0.050	844	842	2.68	0.848	0.000169	0.847	0.783	0.250	0.332
07/19/07	5720	5810	0.103	0.050	0.0272	0.0100	0.941	0.530	30.4	25.4	0.0155	0.0155	792	838	1.84	0.655	0.000169	0.755	0.778	0.233	0.311
08/20/07	5190	5920	0.100		0.0108	0.0162	0.588	0.618	10.0	10.0	0.0155	0.0510	708	809	1.11	0.275	0.000169	0.653	0.731	0.149	0.191
09/22/07	6010	6170	0.100	0.207	0.0166	0.0100	0.744	0.741	19.0	11.5	0.0155	0.0155	799	824	1.61	0.481	0.0025	0.761	0.761	0.100	0.314
10/09/07	6020	6260	0.050	0.050	0.0166	0.0102	0.786	0.690	10.0	10.0	0.0155	0.0155	773	854	1.23	0.263	0.000169	0.783	0.780	0.100	0.305
Mean	5470	5510	0.206	0.223	0.0305	0.0223	1.44	0.96	15.6	11.3	0.041	0.042	742	765	2.04	1.00	0.00069	0.717	0.719	0.31	0.345
Median	5470	5680	0.146	0.207	0.0275	0.0155	0.900	0.724	12.8	10.8	0.016	0.016	743	803	1.69	0.48	0.00045	0.712	0.726	0.23	0.311
St. Deviation	470	570	0.16	0.148	0.02	0.0175	1.54	0.60	7.9	6.7	0.064	0.042	58	85	1.34	1.3	0.0009	0.07	0.058	0.31	0.197
# of values	12	12	12	11	12	12	12	11	12	12	12	7	12	12	12	11	11	12	12	12	9
Minimum	4650	4550	0.031	0.050	0.0108	0.0050	0.588	0.530	6.75	3.1	0.0155	0.0155	639	626	0.352	0.217	0.000169	0.619	0.603	0.1	0.100
Maximum	6160	6260	0.526	0.552	0.0818	0.0632	6.03	2.35	30.4	25.4	0.225	0.129	844	854	5.64	4.35	0.0025	0.847	0.783	1.04	0.731
% of values undetected			42%	25%		17%			25%	42%	83%	42%					100%			25%	8%
# of values between MDL and MRL			2	1	4	5			6	6		1								1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.81	1.74	1000	1000	0.28	0.30	NA	NA	NA	NA	0.012	NA	NA	10.30	10.27
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	17%	18%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Pile Bay B																		
Sample Date																		
05/25/05	465	448	0.0775	0.0775	1280	0.0031	0.0031	1470	1420	0.0031	0.0031	0.031	0.031	0.20	0.10	0.499	0.688	
06/14/05	489	456	0.25	0.25	1320	0.0031	0.0031	1510	1460	0.0031	0.0031	0.031	0.031	0.10	0.10	4.37		
07/23/05	465	455	0.0775	0.0775	1060	0.0031	0.0031	1510	1460	0.0031	0.0031	0.031	0.031	0.419	0.243	12.8		
08/13/05	501	474	0.0775	0.0775	1040	0.0031	0.0031	1430	1440	0.0031	0.0031	0.031	0.031	0.10	0.20	0.75	1.51	
09/29/05	482	488	0.0775	0.0775	1210	0.0031	0.0031	1470	1460	0.0031	0.0031	0.031	0.031	0.10	0.10	1.64	0.877	
10/14/05	518	566	0.0775	0.0775	1190	0.0031	0.0031	1630	1740	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.75	
05/29/07	509	543	0.155	0.155	1120	0.0031	0.0031	1580	1670	0.0050	0.0050	0.050	0.050	0.155	0.155	3.42	1.58	
06/11/07	565	544	0.155	0.155	1250	0.0031	0.0031	1750	1660	0.0050	0.0050	0.050	0.050	0.155	0.155	2.09	1.63	
07/19/07	529	548	0.155	0.155	1300	0.0031	0.0031	1640	1700	0.0050	0.0050	0.050	0.050	0.155	0.155	1.18	2.09	
08/20/07	458	535	0.155	0.155	1140	0.0031	0.0031	1460	1630	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50		
09/22/07	539	569	0.155	0.155	1250	0.0031	0.0031	1650	1780	0.0050	0.0050	0.050	0.050	0.155	0.155	1.63	2.12	
10/09/07	539	560	0.155	0.155	1200	0.0031	0.0031	1620	1700	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
Mean	505	516	0.131	0.131	1200	0.0031	0.0031	1560	1590	0.004	0.0040	0.040	0.040	0.162	0.148	2.51	1.31	
Median	505	539	0.155	0.155	1210	0.0031	0.0031	1550	1650	0.004	0.0040	0.040	0.040	0.155	0.155	1.41	1.51	
St. Deviation	34	47	0.054	0.054	90	0	0	100	130	0.001	0.001	0.01	0.01	0.087	0.044	3.46	0.61	
# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	9	
Minimum	458	448	0.0775	0.0775	1040	0.0031	0.0031	1430	1420	0.0031	0.0031	0.031	0.031	0.10	0.10	0.499	0.5	
Maximum	565	569	0.25	0.25	1320	0.0031	0.0031	1750	1780	0.005	0.0050	0.050	0.050	0.419	0.243	12.8	2.12	
% of values undetected			100%	100%		100%	100%			100%	100%	100%	100%	92%	92%	33%	17%	
# of values between MDL and MRL																1	1	2
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.15	0.13	NA	NA	NA	NA	NA	NA	NA	NA	23.6	23.3	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

Preliminary Data Only - Do Not Cite or Quote

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Pile Bay C																	
	Sample Date																
	05/25/05	15.8	7.10	4	50.0	0.40	2.25	12.5	0.180			0.0050		1.03	0.033	4.00	0.00125
	06/14/05	14.5	7.43	4.7	13.8	0.40	0.785	12.0	0.136			0.0088		1.00	0.032	4.26	0.00125
	07/23/05	14.7	7.30	8.73	28.8	0.20	0.785	13.5	0.178			0.054		1.02	0.041	3.86	0.00125
	08/13/05	15.5	7.40	12.72	22.5	0.147	0.785	14.0	0.045			0.010		1.03	0.036	3.88	0.00125
	09/29/05	17.0	7.44	9.82	17.5	0.075	0.785	14.5	0.099			0.016		1.01	0.038	4.02	0.00125
	10/14/05	17.9	7.37	8.79	35.0	0.30	0.785	13.5	0.115			0.0085		1.01	0.06	4.21	0.00125
	05/29/07	17.8	7.18	4.12	31.3	4.10	1.57	14.5	0.124			0.0474		1.08	0.0490	3.84	0.00075
	06/11/07	20.1	7.14	4.25	41.3	36.8	1.57	13.0	0.145			0.0278		1.05	0.0810	3.95	0.00075
	07/19/07	16.9	7.36	10.66	21.3	4.60	1.57	13.4	0.175			0.0050		0.967	0.0540	3.46	0.00075
	08/20/07	16.6	7.20	5.17	20.0	77.6	1.57	14.1	0.144			0.0120		0.888	0.0310	3.48	0.00075
	09/22/07	18.7	7.17	9.87	27.5	0.150	1.57	14.8	0.106			0.00155		0.866	0.0390	3.77	0.00075
	10/09/07	20.0	7.57	8.65	30.0	25.9	1.57	15.0	0.107			0.0416		0.917	0.0330	3.73	0.00075
	Mean	17.1	7.31	7.62	28.3	13	1.30	13.7	0.130	NA	NA	0.020	NA	0.99	0.044	3.87	0.0010
	Median	17.0	7.33	8.69	28.2	0.40	1.57	13.8	0.130	NA	NA	0.011	NA	1.01	0.039	3.87	0.0010
	St. Deviation	1.9	0.15	3.02	10.3	24	0.49	0.9	0.039	NA	NA	0.018	NA	0.07	0.015	0.25	0.0003
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	14.5	7.10	4	13.8	0.075	0.785	12.0	0.045	NA	NA	0.00155	NA	0.866	0.031	3.46	0.00075
	Maximum	20.1	7.57	12.72	50.0	77.6	2.25	15.0	0.180	NA	NA	0.054	NA	1.08	0.081	4.26	0.00125
	% of values undetected					25%	92%					25%					100%
	# of values between MDL and MRL					4	1	1	2			4			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Pile Bay C																				
Sample Date																				
05/25/05	0.00125	0.16		0.0155	27.8	6.86	0.0614	0.025	0.125	0.125	5.18	5.03	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0176	0.020
06/14/05	0.00125	0.14		0.0155	40.4	8.31	0.0292	0.0278	0.125	0.125	5.95	5.46	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.025	0.025
07/23/05	0.00125	0.15		0.0155	15.8	4.47	0.028	0.0242	0.125	0.125	4.87	4.85	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
08/13/05	0.00125	0.21		0.0155	10.3	3.73	0.0146	0.0064	0.125	0.125	5.12	4.84	0.0075	0.0075	0.00155	0.00155	3.8	1.55	0.00775	0.00775
09/29/05	0.00125	0.12		0.0155	26.0	17.6	0.0238	0.0294	0.261	0.492	5.87	6.27	0.0075	0.0075	0.0044	0.0052	5.6	3.9	0.00775	0.00775
10/14/05	0.0025	0.26		0.050	13.3	4.48	0.027	0.0314	0.125	0.125	5.76	5.43	0.0075	0.0075	0.0048	0.00155	5.0	5.0	0.00775	0.00775
05/29/07	0.00075	0.155		0.0155	224	3.66	0.0250	0.0250	0.155	0.155	9.69	6.03	0.0125	0.0125	0.0075	0.0075	3.25	3.34	0.0075	0.0075
06/11/07	0.00075	0.155	0.789	0.0155	139	7.50	0.0366	0.0504	0.155	0.155	8.80	6.33	0.0125	0.0125	0.0075	0.0075	3.89	3.57	0.0075	0.0075
07/19/07	0.00075	0.155		0.0155	79.8	5.97	0.0250	0.0250	0.155	0.155	6.73	5.93	0.0125	0.0125	0.0075	0.0075	4.12	4.66	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	542	8.20	0.0238	0.0294	0.468	0.155	11.2	5.34	0.0125	0.0125	0.0075	0.0075	3.63	3.60	0.0075	0.0075
09/22/07	0.00075	0.155	0.571	0.0455	12.9	3.88	0.0206	0.0270	0.155	0.155	5.93	6.18	0.0125	0.0125	0.0075	0.0075	3.48	3.22	0.0075	0.0075
10/09/07	0.00075	0.155		0.0155	850	12.0	0.0370	0.0288	0.585	0.155	14.3	5.50	0.0125	0.0125	0.0075	0.0075	3.31	3.05	0.0075	0.0075
Mean	0.0011	0.16	0.680	0.021	165	7.20	0.0293	0.0275	0.213	0.171	7.5	5.6	0.01	0.01	0.005	0.0048	3.68	3.33	0.010	0.010
Median	0.0010	0.16	0.680	0.016	34.0	6.40	0.026	0.0274	0.155	0.155	5.9	5.48	0.01	0.01	0.0062	0.0064	3.72	3.46	0.0080	0.0080
St. Deviation	0.0005	0.04	0.154	0.0126	264	4.1	0.0118	0.0096	0.153	0.102	2.9	0.54	0.003	0.003	0.0028	0.003	1.24	1.26	0.006	0.006
# of values	12	12	2	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Minimum	0.00075	0.12	0.571	0.0155	10.3	3.66	0.0146	0.0064	0.125	0.125	4.87	4.84	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.0025	0.26	0.789	0.050	850	17.6	0.0614	0.0504	0.585	0.492	14.3	6.33	0.0125	0.0125	0.0075	0.0075	5.6	5.0	0.025	0.025
% of values undetected	100%	50%		92%			17%	17%	75%	92%			100%	100%	83%	92%	33%	42%	92%	92%
# of values between MDL and MRL		6		1			4	4	2	1					2	1	8	7	1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.61	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.065	0.064
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Pile Bay C																					
Sample Date																					
05/25/05	5160	4790	0.502	0.317	0.0432	0.0372	2.16	1.59	10.0	3.1	0.050			719	662	2.57	1.94		0.647	0.619	0.271
06/14/05	4720	4350	0.263	0.392	0.0822	0.0686	3.62	2.12	26.7	9.65	0.050	0.120	655	613	5.13	3.99	0.000450	0.751	0.697	0.248	0.348
07/23/05	4740	4830	0.031	0.031	0.025	0.0128	1.03	0.684	6.72	3.1	0.0155	0.122	684	686	1.94	0.323	0.000450	0.597	0.572	0.216	
08/13/05	5080	5020	0.0996	0.143	0.031	0.0220	0.888	0.609	12.1	9.95	0.0155		676	669	1.7	0.195	0.000450	0.623	0.588	0.221	
09/29/05	5590	6120	0.08		0.0474	0.0478	1.25		26.8	11.1	0.0155		743	831	2.49	1.69	0.000450	0.796	0.825	0.262	
10/14/05	5820	5720	0.369		0.033	0.0210	1.03	0.86	15.7	10.7	0.0155		824	823	1.58	0.249	0.000450	0.728	0.733	0.246	
05/29/07	5780	5950	0.100	0.247	0.162	0.0136	5.22	0.665	210	14.1	0.206	0.050	823	872	41.3	0.770	0.00105	0.582		0.100	0.290
06/11/07	6550	6100	0.392	0.336	0.0940	0.0228	3.48	0.792	115	18.9	0.146	0.050	900	858	21.1	0.852	0.000169	0.755	0.839	0.338	0.354
07/19/07	5490	5550	0.050	0.050	0.0590	0.0100	1.62	0.599	101	24.3	0.050	0.0155	776	826	8.94	0.523	0.000169	0.741	0.738	0.272	0.285
08/20/07	5300	5570	0.242	0.210	0.304	0.0148	6.18	0.605	608	10.0	0.311	0.0676	816	707	70.5	1.87	0.0025	0.642	0.725	0.322	0.155
09/22/07	6150	6240	0.209	0.209	0.0184	0.0050	0.869	0.677	21.2	12.6	0.0155		819	840	1.73	0.440	0.000169	0.769	0.747	0.100	0.229
10/09/07	6410	5660	0.238	0.050	0.387	0.0196	7.87	0.780	884	22.1	0.415	0.0155	985	772	81.5	3.13	0.000169	0.923	0.723	0.413	0.220
Mean	5570	5490	0.215	0.199	0.107	0.0246	2.93	0.91	170	12.5	0.109	0.063	785	763	20	1.33	0.00059	0.713	0.710	0.251	0.269
Median	5540	5620	0.224	0.210	0.053	0.0203	1.89	0.684	27.0	10.9	0.05	0.050	796	798	3.9	0.810	0.00045	0.735	0.725	0.255	0.285
St. Deviation	600	610	0.15	0.128	0.119	0.0182	2.37	0.49	282	6.6	0.135	0.044	97	90	28.7	1.23	0.00068	0.098	0.087	0.089	0.072
# of values	12	12	12	10	12	12	12	11	12	12	12	7	12	12	12	12	11	12	11	12	7
Minimum	4720	4350	0.031	0.031	0.0184	0.0050	0.869	0.599	6.72	3.1	0.0155	0.0155	655	613	1.58	0.195	0.000169	0.582	0.572	0.1	0.155
Maximum	6550	6240	0.502	0.392	0.387	0.0686	7.87	2.12	884	24.3	0.415	0.122	985	872	81.5	3.99	0.0025	0.923	0.839	0.413	0.35
% of values undetected			25%	25%		17%			8%	25%	67%	33%					91%			17%	
# of values between MDL and MRL			2	1	1	3			3	7		1					1				1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	1.80	1.73	1000	1000	0.27	0.29	NA	NA	NA	NA	0.012	NA	NA	10.25	10.22
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	50%	9%	0%	0%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	17%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Pile Bay C																		
Sample Date																		
05/25/05	477	456	0.0775	0.0775	1210	0.0031	0.0031	1510	1460	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.676	
06/14/05	480	458	0.0775	0.25	1270	0.0031	0.0031	1500	1410	0.0031	0.0031	0.031	0.031	0.10	0.10	13.4	15.6	
07/23/05	445	452	0.0775	0.0775	1050	0.0031	0.0031	1470	1490	0.0031	0.0031	0.031	0.031	0.284	0.10	10.4		
08/13/05	454	454	0.0775	0.0775	1150	0.0031	0.0031	1360	1380	0.0031	0.0031	0.031	0.031	0.10	0.20	0.75	0.75	
09/29/05	501	525	0.0775	0.0775	1270	0.0031	0.0031	1560	1720	0.0031	0.0031	0.031	0.031	0.10	0.10	0.927		
10/14/05	557	560	0.0775	0.0775	1180	0.0031	0.0031	1700	1790	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	1.54	
05/29/07	558	563	0.155	0.155	1150	0.0031	0.0031	1630	1710	0.0050	0.0050	0.050	0.050	0.396	0.155	4.27	1.21	
06/11/07	649	582	0.155	0.155	1320	0.0031	0.0031	1850	1720	0.0050	0.0050	0.050	0.050	0.155	0.155	3.12	2.03	
07/19/07	520	537	0.155	0.155	1260	0.0031	0.0031	1600	1670	0.0050	0.0050	0.050	0.050	0.155	0.155	1.77	0.50	
08/20/07	513	492	0.155	0.155	1110	0.0062	0.0031	1490	1480	0.0100	0.0050	0.050	0.050	1.01	0.155	2.99	2.59	
09/22/07	552	559	0.155	0.155	1200	0.0031	0.0031	1690	1670	0.0050	0.0050	0.050	0.050	0.155	0.155	2.10	1.35	
10/09/07	639	510	0.155	0.155	1100	0.0070	0.0031	1760	1550	0.0050	0.0050	0.050	0.050	1.37	0.155	4.54	0.50	
Mean	529	512	0.116	0.131	1190	0.0037	0.0031	1590	1590	0	0.004	0.04	0.040	0.34	0.14	3.77	2.67	
Median	517	518	0.116	0.155	1190	0.0031	0.0031	1580	1610	0	0.004	0.04	0.040	0.16	0.16	2.55	1.28	
St. Deviation	66	49	0.04	0.054	80	0.0014	0	140	140	0	0.001	0.01	0.01	0.42	0.03	4.09	4.59	
# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	
Minimum	445	452	0.0775	0.0775	1050	0.0031	0.0031	1360	1380	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.50	
Maximum	649	582	0.155	0.25	1320	0.0070	0.0031	1850	1790	0.01	0.0050	0.050	0.050	1.37	0.2	13.4	15.6	
% of values undetected			100%	100%		83%	100%			92%	100%	100%	100%	67%	100%	25%	25%	
# of values between MDL and MRL						2				1				2		1	1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.15	0.13	NA	NA	NA	NA	NA	NA	NA	NA	23.5	23.2	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Roadhouse Bay A																	
	Sample Date																
	05/26/05	17.4	7.3	8.97	12.5	0.30	2.63	15.0	0.080			0.0011		1.64	0.044	5.92	0.00125
	06/15/05	15.9	7.63	11.81	21.3	0.30	0.785	15.8	0.076			0.00155		0.413	0.035	1.55	0.00125
	07/31/05	17.4	7.44	12.4	22.5	0.206	0.785	14.5	0.106			0.00165		1.06	0.04	3.94	0.00125
	08/14/05	17.9	7.9	15.59	22.5	0.30	0.785	16.0	0.0155			0.010		0.933	0.066	4.06	0.0025
	09/28/05	20.0	7.5	10.37	38.8	0.30	0.785	16.0	0.083			0.00165		1.03	0.040	4.17	0.00125
	10/13/05	17.6	7.82	7.45	33.8	0.303	0.785	16.0	0.11			0.0057		0.96	0.077	4.26	0.0025
	05/30/07	19.0	7.37	7.89	28.8	0.1615	1.57	16.4	0.0990			0.0050		0.879	0.0620	4.29	0.00075
	06/12/07	18.3	7.32	7.65	32.5	0.250	1.57	15.0	0.181			0.0050		1.03	0.0830	4.15	0.00075
	07/18/07	21.1	7.43	13.16	23.8	0.300	1.57	16.4	0.105			0.0050		0.965	0.0520	3.91	0.00075
	08/20/07	18.6	7.25	12.33	12.5	0.211	1.57	15.7	0.0945			0.0048		0.874	0.0350	3.77	0.00075
	09/21/07	21.9	7.40	10.76	30.0	0.521	1.57	17.1	0.136			0.00155		0.647	0.0450	4.62	0.00075
	10/09/07	20.5	7.81	6.88	38.8	0.086	1.57	15.5	0.105			0.0033		0.851	0.0410	3.76	0.00075
	Mean	18.8	7.51	10.44	26.5	0.27	1.33	15.8	0.099	NA	NA	0.0040	NA	0.940	0.052	4.03	0.0012
	Median	18.5	7.44	10.57	26.3	0.30	1.57	15.9	0.102	NA	NA	0.0040	NA	0.950	0.045	4.11	0.001
	St. Deviation	1.8	0.22	2.72	8.9	0.11	0.57	0.7	0.039	NA	NA	0.003	NA	0.29	0.016	0.97	0.0006
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	15.9	7.25	6.88	12.5	0.086	0.785	14.5	0.0155	NA	NA	0.0011	NA	0.413	0.035	1.55	0.00075
	Maximum	21.9	7.9	15.59	38.8	0.521	2.63	17.1	0.181	NA	NA	0.010	NA	1.64	0.083	5.92	0.0025
	% of values undetected					25%	92%		8%			75%					100%
	# of values between MDL and MRL					8	1	1	5			3			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾		
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d	
					Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Roadhouse Bay A																					
Sample Date																					
05/26/05	0.00125	0.14		0.0155	7.17	2.82	0.035		0.125	0.125	5.02	4.62	0.0075	0.0336	0.0082	0.00155	1.55	8.4	0.0216	0.00775	
06/15/05	0.00125	0.21		0.0155	4.59	2.19	0.0272	0.0352	0.271	0.125	5.12	5.47	0.0075	0.0075	0.00155	0.0036	1.55	1.55	0.025	0.00775	
07/31/05	0.00125	0.26		0.0155	6.45	3.83	0.026	0.0314	0.125	0.125	5.11	5.21	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775	
08/14/05	0.0025	0.16		0.0155	13.9	4.39	0.0148	0.0100	0.25	0.125	5.70	5.29	0.0075	0.0075	0.00155	0.00155	4.8	1.55	0.00775	0.00775	
09/28/05	0.00125	0.26		0.0155	15.1	3.61	0.0258	0.026	0.125	0.529	5.93	5.95	0.0075	0.0075	0.00155	0.00155	4.9	3.6	0.0234	0.00775	
10/13/05	0.0025	0.16		0.164	19.0	4.96	0.0244		0.25	0.125	5.45	5.19	0.0075	0.0075	0.00155	0.0042	5.0	5.0	0.00775	0.00775	
05/30/07	0.00075	0.155		0.0155	9.96	4.74	0.0250	0.0250	0.318	0.155	5.71	6.11	0.0125	0.0125	0.0075	0.0075	2.86	2.95	0.0075	0.0075	
06/12/07	0.00075	0.155	0.928	0.050	5.40	2.08	0.0358	0.0456	0.155	0.155	5.52	5.43	0.0125	0.0125	0.0075	0.0075	3.56	3.33	0.0075	0.0075	
07/18/07	0.00075	0.155		0.0155	7.28	5.19	0.0250	0.0250	0.155	0.155	6.44	6.29	0.0125	0.0125	0.0075	0.0075	4.61	4.32	0.0075	0.0075	
08/20/07	0.00075	0.155		0.0406	5.74	2.88	0.0236	0.0234	0.155	0.155	5.71	5.74	0.0125	0.0125	0.0075	0.0075	3.85	3.87	0.0075	0.0075	
09/21/07	0.00075	0.155	0.555	0.0155	40.1	19.7	0.0254	0.0328	0.155	0.155	7.87	7.55	0.0125	0.0125	0.0075	0.0075	3.09	3.17	0.0075	0.0075	
10/09/07	0.00075	0.155		0.0155	13.1	4.74	0.0282	0.0292	0.155	0.155	6.39	6.02	0.0125	0.0125	0.0075	0.0075	3.39	3.25	0.0075	0.0075	
Mean	0.0012	0.18	0.742	0.033	12.3	5.10	0.0264	0.0284	0.187	0.174	5.83	5.74	0.010	0.0122	0.0051	0.0049	3.68	3.83	0.012	0.0076	
Median	0.001	0.16	0.742	0.016	8.60	4.10	0.0256	0.0276	0.155	0.155	5.71	5.61	0.010	0.0125	0.0075	0.0059	3.71	3.47	0.0080	0.0076	
St. Deviation	0.0006	0.04	0.264	0.043	9.9	4.7	0.0054	0.0092	0.067	0.113	0.79	0.74	0.003	0.0072	0.0031	0.0028	1.25	1.81	0.007	0.0001	
# of values	12	12	2	12	12	12	12	10	12	12	12	12	12	12	12	12	12	12	12	12	
Minimum	0.00075	0.14	0.555	0.0155	4.59	2.08	0.0148	0.0100	0.125	0.125	5.02	4.62	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075	
Maximum	0.0025	0.26	0.928	0.164	40.1	19.7	0.0358	0.0456	0.318	0.529	7.87	7.55	0.0125	0.0336	0.0082	0.0075	5.0	8.4	0.025	0.00775	
% of values undetected	100%	50%		83%			17%	17%	83%	92%			100%	92%	92%	83%	33%	33%	83%	100%	
# of values between MDL and MRL		6		1			4	4	2						1	2	8	8	2		
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.15	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.072	0.071	
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Roadhouse Bay A																					
Sample Date																					
05/26/05	5600	4560	0.265	0.0964	0.0188	0.0152	0.545	0.472	10.0	10.0	0.050			826	747	1.01	0.489		0.864	0.587	0.259
06/15/05	5130	5580	0.367	0.339	0.0102	0.0162	0.503	0.521	23.2	11.2	0.0155	0.126		752	840	1.09	0.528	0.000450	0.736	0.675	0.212
07/31/05	5590	6040	0.100	0.100	0.0158	0.0138	0.886		10.3	3.1	0.0155			832	855	1.96	0.659	0.000450	0.743	0.779	0.196
08/14/05	5900	5710	0.0812	0.0648	0.0222	0.0174	0.612		18.0	3.1	0.0155	0.050		776	773	1.30	0.271	0.000450	0.718	0.648	0.261
09/28/05	6530	6490	0.251		0.026	0.0262	0.586	0.564	17.6	10.6	0.0155			895	904	1.57	0.268	0.000450	0.809	0.786	0.296
10/13/05	5640	5450	0.431	0.456	0.0194	0.027	0.784	0.462	33	3.1	0.0155			848	807	1.58	0.348	0.000450	0.738	0.851	0.232
05/30/07	6200	6580	0.100	0.100	0.0124	0.0050	0.480	0.520	26.7	19.0	0.0155	0.0155		856	900	1.06	0.600	0.000169	0.848	0.912	0.100
06/12/07	5980	5770	0.217	0.050	0.0050		0.527	0.454	15.5	10.6	0.0155	0.0155		821	821	0.999	0.506	0.000169	0.830	0.783	0.237
07/18/07	6850	6710	0.050	0.050	0.0100	0.0100	0.575	0.509	32.5	27.1	0.0155	0.0155		970	992	1.32	0.439	0.000169	0.926	0.878	0.278
08/20/07	6090	5730	0.239	0.283	0.0112	0.0124	0.494		10.0	10.0	0.0155	0.0470		816	768	1.37	0.279	0.000169	0.799	0.751	0.163
09/21/07	7230	7280	0.100	0.100	0.0208	0.0154	0.636	0.714	47.5	27.3	0.050	0.050		943	966	1.97	0.805	0.000169	0.995	1.010	0.100
10/09/07	6750	6550	0.204	0.100	0.0134	0.0050	0.520	0.440	29.8	10.0	0.0155	0.0155		882	846	1.51	0.425	0.000169	0.890	0.843	0.100
Mean	6120	6040	0.20	0.158	0.0154	0.0149	0.596	0.517	22.8	12.0	0.0213	0.042		851	852	1.39	0.468	0.000297	0.825	0.79	0.203
Median	6040	5910	0.211	0.100	0.0146	0.0152	0.560	0.509	20.6	10.0	0.0155	0.031		840	843	1.35	0.464	0.000169	0.820	0.78	0.222
St. Deviation	620	720	0.119	0.137	0.0061	0.0071	0.123	0.084	11.5	8	0.0134	0.038		63	77	0.34	0.166	0.000146	0.085	0.12	0.072
# of values	12	12	12	11	12	11	12	9	12	12	12	8		12	12	12	12	11	12	12	7
Minimum	5130	4560	0.050	0.050	0.0050	0.0050	0.480	0.440	10.0	3.1	0.0155	0.0155		752	747	0.999	0.268	0.000169	0.718	0.587	0.1
Maximum	7230	7280	0.431	0.456	0.026	0.027	0.886	0.714	47.5	27.3	0.050	0.126		970	992	1.97	0.805	0.0004495	0.995	1.01	0.296
% of values undetected			33%	50%	17%	25%			17%	50%	100%	50%						100%		25%	17%
# of values between MDL and MRL			1	2	3	2			4	4		1								1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	2.02	1.94	1000	1000	0.33	0.34		NA	NA	NA	NA	0.012	NA	NA	11.49
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA		NA	NA	50	NA	2	NA	NA	100
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	0%	0%	0%	0%	0%	0%	0%

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2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Roadhouse Bay A																		
Sample Date																		
05/26/05	514	428	0.0775	0.0775	951	0.0031	0.0031	1690	1600	0.0031	0.0031	0.031	0.031	0.10	0.20	0.2325	0.97	
06/15/05	522	551	0.25	0.0775	885	0.0031	0.0031	1630	1790	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75		
07/31/05	542	573	0.0775	0.0775	985	0.0031	0.0031	1690	1800	0.0031	0.0031	0.031	0.031	0.10	0.10	13.4		
08/14/05	534	508	0.0775	0.0775	1160	0.0031	0.0031	1450	1460	0.0031	0.0031	0.031	0.031	0.10	0.20	0.75	1.89	
09/28/05	608	576	0.0775	0.0775	1210	0.0031	0.0031	1820	1800	0.0031	0.0031	0.031	0.031	0.10	0.10	0.921	1.69	
10/13/05	517	516	0.0775	0.0775	1460	0.0031	0.0031	1650	1600	0.0031	0.0031	0.031	0.031	0.529	0.432	0.2325	0.75	
05/30/07	580	607	0.155	0.155	1440	0.0031	0.0031	1530	1620	0.0050	0.0050	0.050	0.050	0.155	0.155	1.60		
06/12/07	531	533	0.155	0.155	1050	0.0070	0.0031	1590	1570	0.0142	0.0116	0.050	0.050	0.155	0.155	1.62	0.50	
07/18/07	634	615	0.155	0.155	1280	0.0031	0.0031	1840	1810	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
08/20/07	533	501	0.155	0.155	1050	0.0031	0.0031	1600	1520	0.0050	0.0116	0.050	0.050	0.155	0.155	1.08		
09/21/07	680	686	0.155	0.155	1850	0.0031	0.0031	1580	1590	0.0050	0.0050	0.050	0.050	0.155	0.155	1.02	1.06	
10/09/07	604	580	0.155	0.155	1410	0.0031	0.0031	1750	1680	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
Mean	567	556	0.131	0.116	1230	0.0034	0.0031	1650	1650	0.0050	0.0050	0.04	0.04	0.163	0.172	1.88	0.98	
Median	538	562	0.155	0.116	1190	0.0031	0.0031	1640	1610	0.0040	0.0040	0.04	0.04	0.155	0.155	0.84	0.86	
St. Deviation	54	66	0.054	0.04	280	0.0011	0	110	120	0.003	0.003	0.01	0.01	0.118	0.089	3.65	0.55	
# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	8	
Minimum	514	428	0.0775	0.0775	885	0.0031	0.0031	1450	1460	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.5	
Maximum	680	686	0.25	0.155	1850	0.007	0.0031	1840	1810	0.0142	0.0116	0.05	0.05	0.529	0.432	13.4	1.89	
% of values undetected			100%	100%		92%	100%			92%	83%	100%	100%	92%	92%	50%	33%	
# of values between MDL and MRL						1				1	2					1	1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.19	0.16	NA	NA	NA	NA	NA	NA	NA	NA	26.3	26.0	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

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	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Roadhouse Bay B																	
	Sample Date																
	05/26/05	17.8	7.2	8.38	15.0	0.20	0.785	14.0	0.080			0.0011		1.61	0.047	5.93	0.00125
	06/15/05	17.4	7.63	10.6	18.8	0.40	0.785	14.5	0.080			0.00155		1.14	0.037	4.11	0.00125
	07/31/05	18.0	7.15	12.31	21.3	0.421	2.25	12.0	1.66			0.00165		1.07	0.050	4.17	0.00125
	08/14/05	17.0	7.82	14.99	21.3	0.30	0.785	16.0	0.166			0.010		0.957	0.038	3.88	0.00125
	09/28/05	19.3	7.55	10.18	38.8	0.075	0.785	15.5	0.0785			0.00165		1.03	0.038	4.16	0.00125
	10/13/05	18.4	7.52	7.42	20.0	0.20	0.785	16.0	0.139			0.0057		0.97	0.064	4.34	0.00125
	05/30/07	19.3	7.44	5.41	31.3	0.0775	1.57	13.5	0.0995			0.0104		0.936	0.0600	4.00	0.00075
	06/12/07	18.5	7.24	6.56	37.5	0.0925	1.57	18.0	0.170			0.0050		1.02	0.0860	4.25	0.00075
	07/18/07	20.1	7.52	10.76	38.8	0.505	1.57	16.4	0.050			0.0304		0.943	0.0530	3.92	0.00075
	08/20/07	19.6	7.00	12.3	17.5	0.426	1.57	15.6	0.112			0.00155		0.860	0.0450	3.72	0.00075
	09/21/07	22.6	7.47	10.76	37.5	0.521	1.57	16.9	0.151			0.00155		0.696	0.0440	4.38	0.00075
	10/09/07	20.5	7.56	6.78	22.5	0.078	1.57	15.5	0.210			0.00155		0.850	0.0340	3.74	0.00075
	Mean	19.0	7.43	9.70	26.7	0.27	1.3	15.3	0.25	NA	NA	0.0060	NA	1.01	0.050	4.22	0.0010
	Median	18.9	7.50	10.39	21.9	0.25	1.57	15.6	0.13	NA	NA	0.0017	NA	0.96	0.046	4.14	0.0010
	St. Deviation	1.6	0.23	2.84	9.3	0.17	0.49	1.6	0.45	NA	NA	0.0084	NA	0.22	0.015	0.58	0.0003
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	17.0	7.0	5.41	15.0	0.075	0.785	12.0	0.050	NA	NA	0.0011	NA	0.696	0.034	3.72	0.00075
	Maximum	22.6	7.82	14.99	38.8	0.521	2.25	18.0	1.66	NA	NA	0.0304	NA	1.61	0.086	5.93	0.00125
	% of values undetected					33%	92%		8%			75%					100%
	# of values between MDL and MRL					6	1	1	4			1			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Roadhouse Bay B																				
Sample Date																				
05/26/05	0.00125	0.091		0.0155	9.44	2.55	0.0358		0.405	0.125	5.22	4.49	0.0075	0.0282	0.0096		1.55	5.3	0.0242	0.0156
06/15/05	0.00125	0.13		0.0155	4.07	1.0	0.0608	0.018	0.125	0.125	5.56	3.25	0.0075	0.0075	0.0394	0.00155	1.55	1.55	0.025	0.00775
07/31/05	0.00125	0.30		0.0155	6.32	2.32	0.0312	0.030	0.125	0.125	5.48	5.03	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
08/14/05	0.00125	0.30		0.0155	14.8	4.84	0.0052		0.125	0.125	5.34	5.98	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.00775	0.00775
09/28/05	0.00125	0.19		0.05	18	4.12	0.0252	0.026	0.302	0.125	5.83	6.64	0.0075	0.0075	0.00155	0.00155	4.2	1.55	0.0312	0.00775
10/13/05	0.00125	0.19		0.05	11.8	5.41	0.0318	0.0318	0.25	0.25	5.58	5.86	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
05/30/07	0.00075	0.155		0.0155	7.06	3.26	0.0250	0.0250	0.155	0.155	6.05	6.25	0.0125	0.0125	0.0075	0.0075	2.92	3.74	0.0075	0.0075
06/12/07	0.00075	0.155	0.954	0.050	6.05	2.49	0.0378	0.0404	0.155	0.155	5.98	6.34	0.0125	0.0125	0.0075	0.0075	3.00	4.07	0.0075	0.0075
07/18/07	0.00075	0.155		0.0155	6.57	3.10	0.0250	0.0250	0.155	0.155	6.27	6.35	0.0125	0.0125	0.0075	0.0075	4.54	4.72	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	9.22	3.79	0.0228	0.0244	0.155	0.155	8.38	5.75	0.0125	0.0125	0.0075	0.0075	4.11	3.85	0.0202	0.0075
09/21/07	0.00075	0.155	0.581	0.0868	34.3	6.65	0.0298	0.0318	0.155	0.155	7.91	7.19	0.0125	0.0125	0.0075	0.0075	3.45	2.92	0.0075	0.0075
10/09/07	0.00075	0.155		0.107	13.4	5.25	0.0286	0.0356	0.155	0.155	6.27	6.27	0.0125	0.0125	0.0075	0.0075	3.31	3.32	0.0075	0.0075
Mean	0.0010	0.18	0.768	0.038	11.8	3.73	0.0299	0.029	0.189	0.15	6.16	5.78	0.010	0.0117	0.0080	0.0048	3.35	3.55	0.013	0.0080
Median	0.0010	0.16	0.768	0.016	9.3	3.53	0.0292	0.028	0.155	0.155	5.91	6.12	0.010	0.0125	0.0080	0.0075	3.38	3.80	0.0080	0.0080
St. Deviation	0.0003	0.06	0.264	0.032	8.2	1.6	0.0128	0.006	0.087	0.035	0.99	1.07	0.003	0.0058	0.01	0.0031	1.29	1.4	0.009	0.002
# of values	12	12	2	12	12	12	12	10	12	12	12	12	12	12	12	11	12	12	12	12
Minimum	0.00075	0.091	0.581	0.0155	4.07	1.0	0.0052	0.018	0.125	0.125	5.22	3.25	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.00125	0.30	0.954	0.107	34.3	6.65	0.0608	0.0404	0.405	0.25	8.38	7.19	0.0125	0.0282	0.0394	0.0075	5.0	5.3	0.0312	0.0156
% of values undetected	100%	50%		83%		8%	17%	17%	83%	100%			100%	92%	83%	92%	42%	42%	75%	92%
# of values between MDL and MRL		6		1			5	4	2					1	1		7	7	3	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.71	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.074	0.072
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Roadhouse Bay B																					
Sample Date																					
05/26/05	5730	4530	0.227	0.031	0.0180		0.522	0.337	10.0	10.0	0.050		849	744	1.03	0.459	0.000147	0.881	0.656	0.256	
06/15/05	5550	3840	0.253	0.100	0.0298	0.00155	0.516		11.9	3.1	0.0155	0.0814	853	546	1.09	0.304	0.000450	1.16	0.439	0.212	
07/31/05	5830	5900	0.100	0.100	0.0146	0.0106	0.553		10.6	8.34	0.0155		834	831	1.97	0.801	0.000450	0.788	0.789	0.22	
08/14/05	5570	6290	0.031		0.0244	0.0180	0.591	0.577	25.6	7.62	0.0155		759	908	1.42	0.289	0.000450	0.657	0.752	0.245	
09/28/05	6280	6280	0.209		0.0246	0.0242	0.557	0.529	23.0		0.0155		868	857	1.67	0.461	0.000450	0.759	0.748	0.295	
10/13/05	6040	6310	0.296		0.023	0.0288	0.516	0.478	20.5	12.7	0.0155		815	923	1.42	0.424	0.000450	0.711	0.787	0.279	
05/30/07	6280	6290	0.100	0.100	0.0112	0.0116	0.492	0.488	23.8	18.0	0.0155	0.0155	882	928	0.990	0.395	0.000169	0.873	0.895	0.100	0.100
06/12/07	6000	6580	0.281	0.100	0.0118	0.0150	0.593	0.520	21.9	16.0	0.050	0.050	844	990	0.986	0.512	0.000169	0.873	0.884	0.260	0.252
07/18/07	6510	6610	0.050	0.050	0.0100	0.0100	0.535	0.431	32.3	25.6	0.0155	0.0155	927	986	1.22	0.377	0.000169	0.887	0.876	0.250	0.402
08/20/07	6470	6140	0.291	0.313	0.0322	0.0108	0.569		10.0	10.0	0.564	0.0155	846	809	1.49	0.293	0.000169	0.817	0.796	0.183	0.200
09/21/07	7460	6920	0.219	0.100	0.0192	0.0100	0.649	0.594	44.8	16.4	0.050	0.0155	972	920	1.94	0.300	0.0025	1.02	0.944	0.100	0.215
10/09/07	6770	6670	0.050	0.100	0.0136	0.0050	0.564	0.492	24.9	10.0	0.0155	0.0155	868	899	1.47	0.409	0.000169	0.855	0.846	0.100	0.242
Mean	6210	6030	0.176	0.110	0.0194	0.0132	0.555	0.494	21.6	12.5	0.070	0.030	860	862	1.39	0.419	0.00048	0.860	0.784	0.21	0.235
Median	6160	6290	0.214	0.100	0.0186	0.0108	0.555	0.492	22.5	10.0	0.016	0.016	851	904	1.42	0.402	0.00031	0.860	0.793	0.23	0.229
St. Deviation	550	910	0.102	0.08	0.0074	0.0079	0.043	0.077	10.3	6.1	0.156	0.026	53	122	0.34	0.142	0.00065	0.13	0.134	0.07	0.098
# of values	12	12	12	9	12	11	12	9	12	11	12	7	12	12	12	12	12	12	12	12	6
Minimum	5550	3840	0.031	0.031	0.01	0.00155	0.492	0.337	10.0	3.1	0.0155	0.0155	759	546	0.986	0.289	0.000147	0.657	0.439	0.1	0.1
Maximum	7460	6920	0.296	0.313	0.0322	0.0288	0.649	0.594	44.8	25.6	0.564	0.0814	972	990	1.97	0.801	0.0025	1.16	0.944	0.295	0.402
% of values undetected			42%	67%	8%	25%			17%	33%	92%	50%					100%			25%	8%
# of values between MDL and MRL					4	4			2	6		1								1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	2.08	1.99	1000	1000	0.34	0.35	NA	NA	NA	NA	0.012	NA	NA	11.78	11.74
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Roadhouse Bay B																		
Sample Date																		
05/26/05	536	420	0.0775	0.0775	963	0.0031	0.0031	1760	1580	0.0031	0.0031	0.031	0.0692	0.10	0.20	0.233	0.601	
06/15/05	540	347	0.25	0.0775	893	0.0031	0.0031	1780	1150	0.0031	0.0031	0.031	0.031	0.10	0.272	8.18	0.75	
07/31/05	563	558	0.0775	0.0775	989	0.0031	0.0031	1740	1750	0.0031	0.0031	0.031	0.031	0.225	0.10	11.1		
08/14/05	503	606	0.0775	0.0775	1140	0.0031	0.0031	1430		0.0031	0.0031	0.031	0.031	0.10	0.10	0.75		
09/28/05	589	545	0.0775	0.0775	1230	0.0031	0.0031	1780	1700	0.0031	0.0031	0.031	0.031	0.10	0.10	1.2	0.949	
10/13/05	533	601	0.0775	0.165	1430	0.0031	0.0031	1590	1760	0.0031	0.0031	0.031	0.031	0.10	0.20	0.75	1.51	
05/30/07	612	582	0.155	0.155	1310	0.0031	0.0031	1640	1670	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50		
06/12/07	553	624	0.155	0.155	1320	0.0031	0.0031	1580	1880	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.25	
07/18/07	603	617	0.155	0.155	1300	0.0031	0.0031	1750	1810	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
08/20/07	568	538	0.155	0.155	1130	0.0031	0.0031	1690	1620	0.0050	0.0050	0.050	0.050	0.155	0.155	2.03	3.01	
09/21/07	695	641	0.155	0.155	1620	0.0031	0.0031	1720	1590	0.0050	0.0050	0.050	0.050	0.155	0.155	1.15	1.22	
10/09/07	593	592	0.155	0.155	1370	0.0031	0.0031	1710	1710	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
Mean	574	556	0.131	0.124	1220	0.0031	0.0031	1680	1660	0.0040	0.0040	0.040	0.040	0.138	0.159	2.28	1.14	
Median	566	587	0.155	0.155	1270	0.0031	0.0031	1720	1700	0.0040	0.0040	0.040	0.050	0.155	0.155	0.75	0.95	
St. Deviation	50	88	0.054	0.041	210	0	0	100	190	0.001	0.001	0.01	0.01	0.039	0.049	3.52	0.79	
# of values	12	12	12	12	12	12	12	12	11	12	12	12	12	12	12	12	9	
Minimum	503	347	0.0775	0.0775	893	0.0031	0.0031	1430	1150	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.50	
Maximum	695	641	0.25	0.165	1620	0.0031	0.0031	1780	1880	0.0050	0.0050	0.050	0.0692	0.225	0.272	11.1	3.01	
% of values undetected			100%	92%		100%	100%			100%	100%	100%	92%	92%	92%	58%	25%	
# of values between MDL and MRL				1									1	1	1	1	2	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.20	0.17	NA	NA	NA	NA	NA	NA	NA	NA	27.0	26.6	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Roadhouse Bay C																	
	Sample Date																
	05/26/05	17.3	7.20	6.76	20.0	0.20	1.63	15.0	0.090			0.0011		1.07	0.035	3.92	0.00125
	06/15/05	18.1	7.66	6.46	26.3	0.70	0.785	16.0	0.0845			0.00155		1.13	0.037	4.01	0.00125
	07/31/05	17.9	7.39	11	22.5	0.309	0.785	15.0	0.172			0.062		1.06	0.042	4.01	0.00125
	08/14/05	17.1	7.78	14.21	17.5	0.30	0.785	16.0	0.0155			0.042		0.942	0.036	3.90	0.00125
	09/28/05	19.6	7.50	9.46	35.0	0.60	0.785	16.0	0.0965			0.00165		1.03	0.04	4.04	0.00125
	10/13/05	19.0	7.46	7.13	40.0	0.306	0.785	17.0	0.105			0.0057		0.971	0.064	4.33	0.00125
	05/30/07	18.2	7.29	4.81	27.5	6.26	1.57	15.0	0.113			0.0050		1.02	0.0570	4.01	0.00075
	06/12/07	18.0	7.34	5.28	38.8	0.2525	1.57	17.0	0.0785			0.0181		1.03	0.0850	4.19	0.00075
	07/18/07	20.4	7.50	9.5	25.0	1.56	1.57	16.2	0.106			0.0050		0.980	0.0560	3.92	0.00075
	08/20/07	19.6	7.13	12.29	20.0	0.0775	1.57	15.7	0.0735			0.00155		0.868	0.0400	3.75	0.00075
	09/21/07	19.9	7.39	10.73	38.8	0.515	1.57	16.9	0.127			0.00155		0.727	0.0440	4.33	0.00075
	10/09/07	20.4	7.57	6.51	22.5	0.0805	1.57	16.1	0.168			0.00155		0.860	0.0320	3.74	0.00075
	Mean	18.8	7.43	8.68	27.8	0.93	1.25	16.0	0.102	NA	NA	0.012	NA	0.970	0.047	4.01	0.0010
	Median	18.6	7.43	8.30	25.7	0.31	1.57	16.0	0.101	NA	NA	0.0030	NA	1.00	0.041	4.01	0.0010
	St. Deviation	1.2	0.19	2.97	8.2	1.73	0.41	1	0.042	NA	NA	0.02	NA	0.11	0.015	0.19	0.0003
	# of values	12	12	12	12	12	12	12	12	0	0	12	0	12	12	12	12
	Minimum	17.1	7.13	4.81	17.5	0.0775	0.785	15.0	0.0155	NA	NA	0.0011	NA	0.727	0.032	3.74	0.00075
	Maximum	20.4	7.78	14.21	40.0	6.26	1.63	17.0	0.172	NA	NA	0.062	NA	1.13	0.085	4.33	0.00125
	% of values undetected					25%	92%		8%			67%					100%
	# of values between MDL and MRL					4	1	1	5			1			12		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
					Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Roadhouse Bay C																				
Sample Date																				
05/26/05	0.00125	0.18		0.0155	6.88	2.34	0.0350	0.0304	0.125	0.125	5.14	4.73	0.0075	0.0075	0.00155	0.00155	1.55	3.4	0.033	0.00775
06/15/05	0.0030	0.16		0.0155	6.54	0.31	0.0462	0.0206	0.125	0.125	5.84	3.29	0.0075	0.0075	0.0096	0.00155	1.55	1.55	0.025	0.00775
07/31/05	0.00125	0.19		0.0155	7.21	3.63	0.0302	0.0280	0.125	0.125	5.44	5.05	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
08/14/05	0.0025	0.26		0.0155	19.5	6.53	0.0090		0.125	0.125	5.43	5.87	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.00775	0.00775
09/28/05	0.00125	0.30		0.050	23.1	5.86	0.025	0.0210	0.125	0.407	5.69	5.69	0.0075	0.0075	0.00155	0.00155	6.2	1.55	0.0308	0.00775
10/13/05	0.00125	0.21		0.050	13.6	5.81	0.032	0.0316	0.250	0.125	5.60	5.72	0.0075	0.0075	0.00155	0.00155	5.0	1.55	0.00775	0.00775
05/30/07	0.00075	0.155		0.0155	48.1	2.34	0.0250	0.0250	0.155	0.155	6.72	6.24	0.0125	0.0125	0.0075	0.0075	2.81	3.29	0.0075	0.0075
06/12/07	0.00075	0.155	0.909	0.050	5.49	2.25	0.0370	0.0424	0.155	0.155	5.71	6.36	0.0125	0.0125	0.0075	0.0075	2.89	4.09	0.0075	0.0075
07/18/07	0.00075	0.155		0.0155	25.2	2.46	0.0250	0.0250	0.155	0.155	6.68	6.29	0.0125	0.0125	0.0075	0.0075	4.59	4.60	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	7.87	2.93	0.0210	0.0218	0.155	0.155	6.00	5.97	0.0125	0.0125	0.0075	0.0075	4.21	4.20	0.0240	0.0075
09/21/07	0.00075	0.155	0.462	0.0155	28.6	7.56	0.0202	0.0350	0.155	0.155	6.74	7.31	0.0125	0.0125	0.0075	0.0075	2.89	3.33	0.0075	0.0160
10/09/07	0.00075	0.155		0.0155	13.3	5.03	0.0308	0.0338	0.155	0.155	6.21	6.36	0.0125	0.0125	0.0075	0.0075	3.31	3.41	0.0075	0.0075
Mean	0.0013	0.19	0.686	0.024	17.1	3.92	0.0280	0.029	0.150	0.164	5.93	5.74	0.010	0.010	0.0052	0.0045	3.46	3.13	0.014	0.0080
Median	0.001	0.16	0.686	0.016	13.5	3.28	0.0280	0.028	0.155	0.155	5.78	5.92	0.010	0.010	0.0075	0.0045	3.10	3.37	0.0080	0.0080
St. Deviation	0.0007	0.05	0.316	0.0156	12.7	2.19	0.009	0.007	0.035	0.078	0.54	1.02	0.003	0.003	0.0033	0.0031	1.54	1.28	0.01	0.002
# of values	12	12	2	12	12	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12
Minimum	0.00075	0.16	0.462	0.0155	5.49	0.31	0.0090	0.0206	0.125	0.125	5.14	3.29	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.0030	0.30	0.909	0.050	48.1	7.56	0.0462	0.0424	0.250	0.407	6.74	7.31	0.0125	0.0125	0.0096	0.0075	6.20	5.00	0.033	0.016
% of values undetected	92%	50%		100%		8%	17%	17%	100%	92%			100%	100%	92%	100%	42%	42%	75%	92%
# of values between MDL and MRL	1	6	1				5	4		1					1		7	7	3	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.48	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.073	0.072
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Roadhouse Bay C																					
Sample Date																					
05/26/05	5590	4800	0.238	0.139	0.0216	0.0114	0.705	0.399	10.0	10.0	0.050		813	763	1.06	0.460		0.725	0.627	0.281	
06/15/05	5810	4000	0.373	0.100	0.0202	0.00155	0.673	0.471	37.5	3.10	0.0408	0.0822	881	553	1.21	0.218	0.000450	0.815	0.404	0.243	
07/31/05	5790	5890	0.100	0.100	0.0414	0.0112	0.511	0.542	9.93	14.6	0.0155		843	856	1.28	0.545	0.000450	0.770	0.827	2.27	0.375
08/14/05	5610	6230	0.031		0.0252	0.0198	0.512	0.605	14.6	6.66	0.0155	0.119	757	873	1.24	0.239	0.00111	0.690	0.729	0.242	
09/28/05	6400	6500	0.238		0.0274	0.0224	0.547	0.474	39.9	11.7	0.0155		883	887	2.34	0.556	0.000450	0.731	0.742	0.296	
10/13/05	6230	6230	0.290		0.0308	0.0252	0.579	0.550	25.9		0.0155		826	884	1.61	0.632	0.000450	0.696	0.772	0.278	
05/30/07	5930	6430	0.238	0.300	0.0260	0.0112	0.606	0.532	62.1	16.0	0.050	0.050	828	924	4.21	0.320	0.000169	0.701		0.100	0.100
06/12/07	5860	6640	0.237	0.337	0.0126	0.0130	0.582		20.5	15.5	0.0155	0.050	827	1010	0.940	0.466	0.000169	0.824	0.882	0.240	0.267
07/18/07	6620	6600	0.050	0.050	0.0248	0.0100	0.580	0.404	50.0	25.6	0.050	0.0155	945	987	2.19	0.332	0.000169	0.883	0.884	0.277	0.359
08/20/07	6440	6310	0.277	0.363	0.0152	0.0112	0.554	0.480	10.0	10.0	0.0312	0.0462	844	842	1.46	0.285	0.000169	0.818	0.844	0.219	0.198
09/21/07	6540	7340	0.100	0.100	0.0144	0.0106	0.547	0.534	36.8	18.1	0.0155	0.0155	861	972	1.68	0.334	0.0025	0.865	0.972	0.100	0.290
10/09/07	6730	6820	0.050	0.050	0.0134	0.0138	0.602	0.544	26.2	10.0	0.0155	0.0155	877	925	1.55	0.375	0.00115	0.848	0.841	0.100	0.218
Mean	6130	6150	0.190	0.171	0.0228	0.0134	0.583	0.503	28.6	12.8	0.0275	0.049	849	870	1.73	0.397	0.00066	0.781	0.775	0.390	0.258
Median	6080	6370	0.240	0.100	0.0232	0.0113	0.580	0.532	26.1	11.7	0.0155	0.048	844	890	1.51	0.355	0.00045	0.793	0.827	0.240	0.267
St. Deviation	410	910	0.11	0.126	0.0084	0.0063	0.058	0.064	17	6.1	0.0157	0.037	46	120	0.89	0.133	0.0007	0.07	0.154	0.6	0.096
# of values	12	12	12	9	12	12	12	11	12	11	12	8	12	12	12	12	11	12	11	12	7
Minimum	5590	4000	0.031	0.050	0.0126	0.00155	0.511	0.399	9.93	3.1	0.0155	0.0155	757	553	0.940	0.218	0.000169	0.690	0.404	0.100	0.100
Maximum	6730	7340	0.373	0.363	0.0414	0.0252	0.705	0.605	62.1	25.6	0.050	0.119	945	1010	4.21	0.632	0.0025	0.883	0.972	2.27	0.375
% of values undetected			42%	42%		17%			17%	33%	83%	42%					82%			25%	8%
# of values between MDL and MRL				1	4	5			2	6	2	2					2				1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	2.07	1.99	1000	1000	0.34	0.35	NA	NA	NA	NA	0.012	NA	NA	11.77	11.74
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Roadhouse Bay C																		
Sample Date																		
05/26/05	524	445	0.0775	0.0775	939	0.0031	0.0031	1680	1610	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.233	
06/15/05	563	358	0.25	0.0775	872	0.0031	0.0031	1830	1170	0.0031	0.0031	0.031	0.031	0.10	0.31	2.55		
07/31/05	555	563	0.0775	0.0775	1010	0.0031	0.0031	1740	1770	0.0031	0.0031	0.031	0.031	0.10	0.10	14.4		
08/14/05	518	633	0.0775	0.0775	1180	0.0031	0.0031	1410	1690	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75		
09/28/05	578	560	0.0775	0.0775	1330	0.0031	0.0031	1800	1770	0.0031	0.0031	0.031	0.031	0.215	0.10	0.656	0.948	
10/13/05	549	598	0.0775	0.0775	1390	0.0031	0.0031	1620	1800	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	1.57	
05/30/07	547	584	0.155	0.155	1260	0.0031	0.0031	1560	1700	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.75	
06/12/07	540	626	0.155	0.155	1270	0.0031	0.0031	1580	1870	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
07/18/07	613	624	0.155	0.155	1280	0.0031	0.0031	1790	1830	0.0050	0.0050	0.050	0.050	0.155	0.155	1.05	0.50	
08/20/07	565	553	0.155	0.155	1180	0.0031	0.0031	1690	1670	0.0050	0.0050	0.050	0.050	0.155	0.155	1.96	1.86	
09/21/07	606	673	0.155	0.155	1690	0.0031	0.0031	1520	1700	0.0050	0.0050	0.050	0.050	0.155	0.155	1.96	1.30	
10/09/07	597	602	0.155	0.155	1390	0.0031	0.0031	1740	1770	0.0050	0.0050	0.050	0.050	0.155	0.155	1.86	0.50	
Mean	563	568	0.13	0.116	1230	0.0031	0.0031	1660	1700	0.0040	0.0040	0.040	0.040	0.14	0.15	2.22	1.02	
Median	559	591	0.16	0.116	1270	0.0031	0.0031	1690	1740	0.0040	0.0040	0.040	0.040	0.16	0.16	0.90	0.95	
St. Deviation	31	87	0.054	0.04	220	0	0	130	180	0.001	0.001	0.01	0.01	0.037	0.06	3.91	0.62	
# of values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	9	
Minimum	518	358	0.0775	0.0775	872	0.0031	0.0031	1410	1170	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.233	
Maximum	613	673	0.25	0.155	1690	0.0031	0.0031	1830	1870	0.0050	0.0050	0.050	0.050	0.22	0.31	14.4	1.86	
% of values undetected			100%	100%		100%	100%			100%	100%	100%	100%	92%	92%	42%	33%	
# of values between MDL and MRL														1	1	1	1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.20	0.17	NA	NA	NA	NA	NA	NA	NA	NA	27.0	26.6	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Upper Talarik A																	
	Sample Date																
	05/26/05	17.5	7.10	7.54	22.5	0.5	0.785	15.0	0.080			0.0011		1.04	0.035	3.92	0.00125
	06/15/05	16.7	7.62	7.97	27.5	0.6	0.785	15.5	0.0455			0.0022		1.16	0.037	4.02	0.00125
	08/01/05	19.3	7.43	11.63	25.0	0.4	0.785	16.0	0.0875			0.00165		1.09	0.04	3.77	0.00125
	08/12/05	16.4	7.54	16.28	26.3	0.075	0.785	15.0	0.0715			0.010		1.12	0.04	3.81	0.00125
	08/14/05																
	10/13/05	18.1	7.47	8.24	28.8	0.0765	0.785	17.0	0.078			0.0057		1.08	0.06	4.14	0.00125
	05/30/07	18.9	7.20	4.05	25.0	0.1625	1.57	15.0	0.0665			0.0261		1.12	0.0610	4.16	0.00075
	06/12/07	17.7	7.06	7.23	27.5	0.600	1.57	16.0	0.168			0.00155		1.05	0.0820	4.17	0.00075
	07/18/07	18.3	7.44		25.0	0.235	1.57	15.7	0.050			0.0050		1.10	0.0520	3.68	0.00075
	08/20/07	17.3	7.38	12.35	23.8	0.309	1.57	16.0	0.176			0.0060		0.825	0.0360	3.88	0.00075
	10/09/07	19.8	7.50	8.34	25.0	0.333	1.57	15.8	0.125			0.00155		0.968	0.0420	3.68	0.00075
	Mean	18.0	7.37	9.29	25.6	0.33	1.18	16.0	0.095	NA	NA	0.0060	NA	1.06	0.049	3.92	0.0010
	Median	17.9	7.44	8.24	25.0	0.32	1.18	16.0	0.079	NA	NA	0.0040	NA	1.09	0.041	3.90	0.0010
	St. Deviation	1.1	0.19	3.57	1.9	0.2	0.41	1	0.046	NA	NA	0.008	NA	0.1	0.015	0.19	0.0003
	# of values	10	10	9	10	10	10	10	10	0	0	10	0	10	10	10	10
	Minimum	16.4	7.06	4.05	22.5	0.075	0.785	15.0	0.0455	NA	NA	0.0011	NA	0.825	0.035	3.68	0.00075
	Maximum	19.8	7.62	16.28	28.8	0.6	1.57	17.0	0.176	NA	NA	0.0261	NA	1.16	0.082	4.17	0.00125
	% of values undetected					30%	100%		10%			70%					100%
	# of values between MDL and MRL					5		1	6			2			10		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	#DIV/0!	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	#DIV/0!	0%	0%	0%	0%

Preliminary Data Only - Do Not Cite or Quote

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Upper Talarik A																				
Sample Date																				
05/26/05	0.00125	0.19		0.0155	10.4		0.0274	0.0284	0.125	0.125	5.13		0.0075	0.0075	0.00155	0.00155	1.55		0.0286	0.0498
06/15/05	0.00125	0.099		0.0155	4.90	1.00	0.0366	0.0364	0.403	0.125	5.45	5.35	0.0075	0.0075	0.0218	0.00155	1.55	1.55	0.025	0.025
08/01/05	0.00125	0.25		0.0155	8.64	2.85	0.0214	0.0312	0.354	0.461	5.10	4.97	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
08/12/05	0.00125	0.26		0.0155	4.32	2.35	0.0146	0.0120	0.125	0.25	4.82	4.98	0.0075	0.0075	0.00155	0.00155	5.0	1.55	0.00775	0.00775
08/14/05																				
10/13/05	0.00125	0.12		0.050	4.76	2.7	0.0284	0.0348	0.511	0.25	5.06	5.35	0.0075	0.0075	0.00155	0.00155	5.0	1.55	0.00775	0.00775
05/30/07	0.00075	0.155		0.0155	2.54	1.00	0.0504	0.0250	0.155	0.155	5.78	6.62	0.0125	0.0125	0.0075	0.0075	3.10	4.02	0.0075	0.0075
06/12/07	0.00075	0.155	1.01	0.0355	6.38	2.61	0.0344	0.0448	0.155	0.155	5.32	5.97	0.0125	0.0125	0.0075	0.0075	3.19	3.81	0.0075	0.0075
07/18/07	0.00075	0.155		0.0155	2.21	1.00	0.0250	0.0250	0.155	0.155	5.31	5.69	0.0125	0.0125	0.0075	0.0075	4.55	4.44	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	11.4	4.61	0.0208	0.0380	0.155	0.155	5.67	6.90	0.0125	0.0125	0.0075	0.0075	3.67	3.94	0.0075	0.0075
10/09/07	0.00075	0.40	0.619	0.0155	5.70	1.00	0.0268	0.0284	0.155	0.155	5.74	5.69	0.0125	0.0125	0.0075	0.0075	3.35	3.34	0.0075	0.0075
Mean	0.0010	0.19	0.81	0.021	6.10	2.12	0.0286	0.0304	0.229	0.199	5.34	5.72	0.010	0.010	0.0070	0.0045	3.60	3.24	0.011	0.014
Median	0.0010	0.16	0.81	0.016	5.30	2.35	0.0271	0.0298	0.155	0.155	5.32	5.69	0.010	0.010	0.0080	0.0045	3.51	3.81	0.0080	0.0080
St. Deviation	0.0003	0.09	0.28	0.012	3.1	1.24	0.01	0.009	0.139	0.102	0.32	0.676	0.003	0.003	0.006	0.0031	1.32	1.35	0.008	0.014
# of values	10	10	2	10	10	9	10	10	10	10	10	9	10	10	10	10	10	9	10	10
Minimum	0.00075	0.099	0.619	0.0155	2.21	1.00	0.0146	0.0120	0.125	0.125	4.82	4.97	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.00125	0.4	1.01	0.050	11.4	4.61	0.0504	0.0448	0.511	0.461	5.78	6.90	0.0125	0.0125	0.0218	0.0075	5.00	5	0.0286	0.0498
% of values undetected	100%	40%		90%		40%	10%	20%	70%	90%			100%	100%	90%	100%	50%	40%	90%	90%
# of values between MDL and MRL		6		1			3	3	2	1							5	5	1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.72	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.071	0.070
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Upper Talarik A																					
Sample Date																					
05/26/05	5630	5480	0.290	0.337	0.0156		0.523	0.590	10.0	10.0	0.050		843	813	1.12	0.767		0.684	0.581	0.278	
06/15/05	5370	5830	0.302	0.333	0.0190	0.0138	0.466	0.378	8.01	6.45	0.0155	0.126	799	848	0.877	0.351	0.000450	1.11	0.733	0.231	
08/01/05	6240	6110	0.100	0.100	0.0184	0.0176	0.423		23.6	8.53	0.0155		896	932	2.48	1.29	0.000450	0.711	0.708	0.209	
08/12/05	5380	5370	0.156	0.031	0.0216	0.0260	0.537	0.443	7.93	3.10	0.0155		724	765	0.674	0.437		0.639	0.626	0.228	
08/14/05																	0.000450				
10/13/05	5900	5900	0.340	0.51	0.0308	0.0258	0.429	0.331	6.80	11	0.0155		816	878	1.20	0.100	0.000450	0.638	0.744	0.272	
05/30/07	6120	6550	0.361	0.100	0.0112	0.0120	0.483	0.516	15.0	15.1	0.0155	0.050	872	995	0.810	0.516	0.000169	0.822	0.837	0.100	0.226
06/12/07	5670	6430	0.100	0.100	0.0104	0.0154	0.433	0.458	17.6	16.4	0.0155	0.0155	862	1050	1.05	0.596	0.000169	0.778	0.846	0.202	0.310
07/18/07	5980	6320	0.194	0.340	0.0100	0.0100	0.456		10.0	20.8	0.0155	0.050	827	876	0.809	0.302	0.000169	0.758	0.814	0.234	
08/20/07	5650	6850	0.100		0.0120	0.0142	0.471		10.0	10.0	0.0155	2.18	772	889	1.25	0.256	0.000169	0.788	0.901	0.160	0.185
10/09/07	6510	6360	0.050	0.100	0.0104	0.0050	0.437	0.415	10.0	10.0	0.0155	0.0386	858	884	1.53	0.125	0.000169	0.812	0.780	0.100	0.225
Mean	5850	6120	0.200	0.217	0.0159	0.0155	0.466	0.447	12.0	11.0	0.019	0.410	827	890	1.18	0.470	0.00029	0.770	0.757	0.201	0.237
Median	5790	6220	0.180	0.100	0.0138	0.0142	0.461	0.443	10.0	10.0	0.0155	0.050	835	880	1.09	0.390	0.00017	0.770	0.762	0.219	0.226
St. Deviation	370	470	0.11	0.165	0.0067	0.0069	0.039	0.086	5	5	0.0109	0.868	51	80	0.52	0.35	0.000148	0.14	0.1	0.063	0.053
# of values	10	10	10	9	10	9	10	7	10	10	10	6	10	10	10	10	9	10	10	10	4
Minimum	5370	5370	0.050	0.031	0.0100	0.0050	0.423	0.331	6.80	3.10	0.0155	0.0155	724	765	0.674	0.100	0.000169	0.638	0.581	0.100	0.185
Maximum	6510	6850	0.361	0.51	0.0308	0.0260	0.537	0.59	23.6	20.8	0.05	2.18	896	1050	2.48	1.29	0.0004495	1.11	0.901	0.278	0.31
% of values undetected			40%	50%	10%	20%			40%	40%	100%	30%				10%	100%			20%	
# of values between MDL and MRL			2		4	3			5	5		1								1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	2.00	1.92	1000	1000	0.32	0.34	NA	NA	NA	NA	0.012	NA	NA	11.38	11.35
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Upper Talarik A																		
Sample Date																		
05/26/05	527	465	0.0775	0.0775	1020	0.0031	0.0031	1690	1660	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.233	
06/15/05	542	556	0.25	0.0775	860	0.0031	0.0031	1650	1780	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75		
08/01/05	534	536	0.0775	0.0775	1080	0.0031	0.0031	1790	1930	0.0031	0.0031	0.031	0.031	0.247	0.10	13.4	14.1	
08/12/05	470	488	0.0775	0.0775	878	0.0031	0.0031	1440	1540	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.75	
08/14/05																		
10/13/05	510	567	0.0775	0.0775	1010	0.0031	0.0031	1640	1810	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	2.08	
05/30/07	562	598	0.155	0.155	1050	0.0031	0.0031	1730	1890	0.0050	0.0050	0.050	0.050	0.155	0.155	2.60		
06/12/07	501	581	0.155	0.155	1280	0.0031	0.0031	1710	1990	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.41	
07/18/07	525	569	0.155	0.155	1070	0.0062	0.0031	1680	1770	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.35	
08/20/07	509	612	0.155	0.155	1380	0.0031	0.0031	1470	1690	0.0050	0.0050	0.050	0.050	0.155	0.155	2.51		
10/09/07	575	558	0.155	0.155	1010	0.0031	0.0031	1760	1730	0.0050	0.0050	0.050	0.050	0.155	0.155	1.33	1.33	
Mean	526	553	0.13	0.12	1060	0.0034	0.0031	1660	1780	0.0040	0.0040	0.040	0.040	0.14	0.13	2.33	3.04	
Median	526	563	0.16	0.12	1040	0.0031	0.0031	1690	1780	0.0040	0.0040	0.040	0.040	0.16	0.13	0.75	1.35	
St. Deviation	30	46	0.056	0.041	160	0.001	0	120	130	0.001	0.001	0.01	0.01	0.046	0.03	3.98	4.91	
# of values	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	7	
Minimum	470	465	0.0775	0.0775	860	0.0031	0.0031	1440	1540	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.233	
Maximum	575	612	0.25	0.155	1380	0.0062	0.0031	1790	1990	0.0050	0.0050	0.050	0.050	0.25	0.16	13.4	14.1	
% of values undetected			100%	100%		90%	100%			100%	100%	100%	100%	90%	100%	60%	20%	
# of values between MDL and MRL						1								1				
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.18	0.16	NA	NA	NA	NA	NA	NA	NA	NA	26.1	25.7	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Upper Talarik B																	
	Sample Date																
	05/26/05	17.6	7.10	7.06	23.8	0.500	0.785	14.5	0.090			0.0028		1.07	0.037	3.96	0.00125
	06/15/05	18.4	7.64	7.3	27.5	0.600	0.785	16.0	0.065			0.00155		1.17	0.038	4.01	0.00125
	08/01/05	18.2	7.41	11.05	20.0	0.521	0.785	15.0	0.91			0.70		1.12	0.039	4.08	0.00125
	08/12/05	18.3	7.49	13.65	32.5	0.075	0.785	16.0	0.0155			0.010		1.10	0.036	3.77	0.00125
	08/14/05																
	10/13/05	18.4	7.46	8.12	27.5	0.0775	0.785	16.0	0.116			0.0057		1.07	0.073	4.15	0.00125
	05/30/07	18.2	7.20	4	27.5	0.163	1.57	15.2	0.0795			0.0124		1.10	0.0510	3.84	0.00075
	06/12/07	19.5	7.11	6.5	30.0	0.250	1.57	15.0	0.181			0.0050		1.07	0.0850	4.20	0.00075
	07/18/07	19.3	7.32		27.5	0.345	1.57	15.9	0.050			0.105		1.06	0.0500	3.68	0.00075
	08/20/07	19.0	7.38	12.35	18.8	0.538	1.57	16.0	0.133			0.00155		0.825	0.0340	3.96	0.00075
	10/09/07	19.7	7.53	8.32	52.5	0.211	1.57	15.8	0.108			0.00155		0.542	0.0420	2.17	0.00075
	Mean	18.7	7.36	8.71	28.8	0.328	1.18	16.0	0.175	NA	NA	0.080	NA	1.01	0.049	3.78	0.0010
	Median	18.4	7.40	8.12	27.5	0.298	1.18	16.0	0.099	NA	NA	0.010	NA	1.07	0.041	3.96	0.0010
	St. Deviation	0.7	0.18	3.07	9.3	0.2	0.41	1	0.262	NA	NA	0.22	NA	0.19	0.017	0.59	0.0003
	# of values	10	10	9	10	10	10	10	10	0	0	10	0	10	10	10	10
	Minimum	17.6	7.10	4	18.8	0.075	0.785	14.5	0.0155	NA	NA	0.00155	NA	0.542	0.034	2.17	0.00075
	Maximum	19.7	7.64	13.65	52.5	0.600	1.57	16.0	0.91	NA	NA	0.70	NA	1.17	0.085	4.20	0.00125
	% of values undetected					40%	100%		20%			50%					100%
	# of values between MDL and MRL					2		1	3			2			10		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Upper Talarik B																				
Sample Date																				
05/26/05	0.00125	0.17		0.0155	9.33	2.93	0.0260	0.0300	0.28	0.125	5.08	4.95	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0248	0.00775
06/15/05	0.0040	0.15		0.0155	3.65	0.31	0.0390	0.0186	0.125	0.125	5.85	3.34	0.0075	0.0075	0.0044	0.00155	1.55	1.55	0.00775	0.00775
08/01/05	0.00125	0.26		0.0155	5.72	2.42	0.0276	0.0326	0.125	0.264	5.03	4.81	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
08/12/05	0.00125	0.26		0.0155	4.57	2.60	0.0194	0.0140	0.25	0.125	5.41	4.65	0.0075	0.0075	0.00155	0.00155	5.0	1.55	0.00775	0.00775
08/14/05																				
10/13/05	0.00125	0.16		0.050	5.24	2.80	0.0344	0.0316	0.125	0.125	5.16	5.56	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
05/30/07	0.00075	0.155		0.0155	2.82	1.00	0.0250	0.0576	0.155	0.155	5.55	6.45	0.0125	0.0125	0.0075	0.0075	3.08	4.09	0.0075	0.0075
06/12/07	0.00075	0.155	1.01	0.050	6.60	2.80	0.0386	0.0412	0.155	0.155	5.78	5.99	0.0125	0.0125	0.0075	0.0075	3.47	3.61	0.0075	0.0075
07/18/07	0.00075	0.155		0.0155	2.86	1.00	0.0250	0.0250	0.155	0.155	5.65	5.98	0.0125	0.0125	0.0075	0.0075	4.62	5.28	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	15.6	3.63	0.0246	0.0222	0.310	0.313	6.28	5.64	0.0125	0.0125	0.0075	0.0075	4.02	3.63	0.0075	0.0075
10/09/07	0.00075	0.53	0.617	0.0155	6.17	2.47	0.0302	0.0284	0.155	0.155	5.73	5.85	0.0125	0.0125	0.0075	0.0075	3.35	3.55	0.0075	0.0075
Mean	0.0013	0.22	0.81	0.022	6.30	2.20	0.0290	0.0301	0.184	0.170	5.55	5.32	0.010	0.010	0.0048	0.0045	3.66	3.48	0.0090	0.0076
Median	0.0010	0.16	0.81	0.016	5.50	2.50	0.0268	0.0292	0.155	0.155	5.60	5.60	0.010	0.010	0.0060	0.0045	3.75	3.62	0.0080	0.0076
St. Deviation	0.001	0.12	0.28	0.0145	3.8	1.1	0.0065	0.0123	0.069	0.065	0.39	0.9	0.003	0.003	0.003	0.0031	1.33	1.47	0.005	0.0001
# of values	10	10	2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Minimum	0.00075	0.15	0.617	0.016	2.82	0.31	0.0194	0.0140	0.125	0.125	5.03	3.34	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.0040	0.53	1.01	0.050	15.6	3.63	0.0390	0.0576	0.31	0.313	6.28	6.45	0.0125	0.0125	0.0075	0.0075	5.00	5.28	0.0248	0.00775
% of values undetected	90%	40%		100%		30%	20%	10%	80%	80%			100%	100%	90%	100%	50%	50%	90%	100%
# of values between MDL and MRL	1	6					3	3	2	2					1		5	4	1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.66	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.076	0.074
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Preliminary Data Only - Do Not Cite or Quote

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Upper Talarik B																					
Sample Date																					
05/26/05	5640	4920	0.318	0.121	0.0122	0.0088	0.543	0.389	10.0	10.0	0.050	0.050	856	821	0.959	0.457	0.000406	0.674	0.605	0.269	0.227
06/15/05	5920	3950	0.308	0.100	0.0198	0.00155	0.456	0.388	11.9	3.1	0.0155	0.0822	889	561	0.894	0.196	0.000450	0.764	0.415	0.224	
08/01/05	5850	5670	0.100	0.100	0.0110	0.0120	0.448	0.328	8.2	3.1	0.0155		878	820	1.11	0.293	0.000450	0.747	0.707	0.192	
08/12/05	5970	5210	0.144	0.031	0.0224	0.0216	0.541	0.447	13.1	3.1	0.0155		822	746	1.45	0.484		0.680	0.571	0.249	
08/14/05																	0.000450				
10/13/05	6010	6180	0.303	0.634	0.0294	0.0214	0.514	0.412	14.9	11.1	0.0155		827	889	1.29	0.100	0.000450	0.674	0.700	0.283	
05/30/07	5890	6340	0.454	0.394	0.0050	0.0122	0.481	0.572	15.3	15.7	0.050		839	981	0.771	0.506	0.000169	0.809	0.797	0.100	
06/12/07	6300	6350	0.213	0.050	0.0128	0.0148	0.496	0.521	18.7	15.7	0.0155	0.050	918	1040	1.16	0.623	0.000169	0.825	0.878	0.222	0.304
07/18/07	6240	6390	0.050	0.050	0.0100	0.0100	0.548	0.419	25.4	23.5	0.0155	0.0155	895	965	0.911	0.402	0.000169	0.799	0.806	0.241	0.424
08/20/07	6210	5890	0.261	0.100	0.0134	0.0050	0.667	0.369	10.0	3.10	0.0155	0.0155	849	765	1.36	0.188	0.000169	0.850	0.781	0.191	0.169
10/09/07	6450	6150	0.050	0.249	0.0118	0.0102	0.514	0.417	10.0	10.0	0.0155	0.0155	871	862	1.55	0.132	0.000169	0.803	0.787	0.100	0.257
Mean	6050	5710	0.220	0.183	0.0148	0.0118	0.521	0.426	13.8	10.0	0.0224	0.038	864	850	1.15	0.338	0.000305	0.763	0.705	0.207	0.276
Median	5990	6020	0.237	0.100	0.0125	0.0111	0.514	0.415	12.5	10.0	0.0155	0.033	864	840	1.14	0.348	0.000288	0.782	0.744	0.223	0.257
St. Deviation	250	800	0.133	0.193	0.0071	0.0064	0.062	0.072	5.2	7	0.0145	0.027	31	140	0.26	0.18	0.000144	0.066	0.139	0.064	0.096
# of values	10	10	10	10	10	10	10	10	10	10	10	6	10	10	10	10	10	10	10	10	5
Minimum	5640	3950	0.050	0.031	0.0050	0.00155	0.448	0.328	8.2	3.1	0.0155	0.0155	822	561	0.771	0.100	0.000169	0.674	0.415	0.100	0.169
Maximum	6450	6390	0.454	0.634	0.0294	0.0216	0.667	0.572	25.4	23.5	0.05	0.0822	918	1040	1.55	0.623	0.000450	0.850	0.878	0.283	0.424
% of values undetected			30%	60%	20%	30%			30%	60%	100%	50%				10%	90%			20%	
# of values between MDL and MRL			1	1	3	4			6	3		1				1	1			1	1
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	2.14	2.06	1000	1000	0.36	0.37	NA	NA	NA	NA	0.012	NA	NA	12.15	12.12
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Upper Talarik B																		
Sample Date																		
05/26/05	532	448	0.0775	0.0775	950	0.0031	0.0031	1750	1660	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.233	
06/15/05	570	361	0.0775	0.0775	823	0.0031	0.0031	1840	1170	0.0031	0.0031	0.031	0.031	0.10	0.10	11.0	8.84	
08/01/05	557	527	0.0775	0.0775	855	0.0031	0.0031	1810	1700	0.0031	0.0031	0.031	0.031	0.10	0.262	4.57	14.4	
08/12/05	515	469	0.0775	0.0775	989	0.0031	0.0031	1610	1500	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.75	
08/14/05																		
10/13/05	524	582	0.0775	0.0775	948	0.0031	0.0031	1670	1820	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	1.75	
05/30/07	546	587	0.155	0.155	1000	0.0070	0.0092	1680	1850	0.0050	0.0050	0.050	0.050	0.155	0.155	1.66		
06/12/07	555	571	0.155	0.155	1320	0.0031	0.0031	1850	1980	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50		
07/18/07	579	602	0.155	0.155	1110	0.0031	0.0031	2090	2230	0.0050	0.0050	0.050	0.123	0.155	0.155	6.66	6.89	
08/20/07	557	525	0.155	0.155	1160	0.0031	0.0031	1600	1460	0.0050	0.0050	0.050	0.050	0.155	0.155	1.35	1.42	
10/09/07	569	557	0.155	0.155	1020	0.0031	0.0031	1780	1680	0.0050	0.0050	0.050	0.050	0.155	0.155	1.50	0.50	
Mean	550	523	0.12	0.12	1020	0.0035	0.0037	1770	1710	0.0040	0.0040	0.040	0.050	0.13	0.14	2.85	4.35	
Median	556	542	0.12	0.12	990	0.0031	0.0031	1770	1690	0.0040	0.0040	0.040	0.040	0.13	0.16	1.43	1.59	
St. Deviation	21	76	0.041	0.041	150	0.0012	0.0019	140	290	0.001	0.001	0.01	0.03	0.03	0.05	3.54	5.18	
# of values	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	
Minimum	515	361	0.0775	0.0775	823	0.0031	0.0031	1600	1170	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.233	
Maximum	579	602	0.16	0.16	1320	0.0070	0.0092	2090	2230	0.0050	0.0050	0.050	0.123	0.16	0.26	11.0	14.4	
% of values undetected			100%	100%		90%	90%			100%	100%	100%	90%	100%	90%	40%	30%	
# of values between MDL and MRL						1	1						1		1			
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.21	0.18	NA	NA	NA	NA	NA	NA	NA	NA	27.9	27.5	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

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	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Upper Talarik C																	
	Sample Date																
	05/26/05	18.4	7.10	6.76	20.0	0.30	0.785	14.5	0.080			0.0011		1.06	0.036	3.94	0.00125
	06/15/05	18.0	7.61	6.84	13.8	0.90	0.785	15.0	0.0485			0.0035		1.16	0.042	3.95	0.00125
	08/01/05	18.0	7.39	10.48	26.3	1.00	0.785	15.0	0.079			0.170		1.13	0.038	3.89	0.00125
	08/12/05	17.2	7.45	12.53	20.0	0.075	0.785	15.5	0.0155			0.010		1.11	0.043	3.86	0.00125
	08/14/05																
	10/13/05	18.7	7.50	7.06	38.8	0.08	0.785	16.0	0.0635			0.0057		1.08	0.067	4.13	0.00125
	05/30/07	18.2	7.05	4.02	23.8	1.09	1.57	14.0	0.0620			0.0139		1.10	0.0600	3.87	0.00075
	06/12/07	19.6	7.16	6.29	27.5	0.250	1.57	17.0	0.0680			0.0050		1.06	0.0890	4.19	0.00075
	07/18/07	20.0	7.37		23.8	0.086	1.57	15.3	0.050			0.0201		1.05	0.0550	3.67	0.00075
	08/20/07	16.5	7.40	12.34	25.0	0.215	1.57	16.0	0.0905			0.0067		0.810	0.0380	5.74	0.00075
	10/09/07	18.7	7.47	5.69	28.8	0.326	1.57	16.4	0.120			0.00155		0.868	0.0400	3.24	0.00075
	Mean	18.3	7.35	8.00	24.8	0.40	1.18	15.0	0.070	NA	NA	0.020	NA	1.04	0.051	4.05	0.0010
	Median	18.3	7.40	6.84	24.4	0.30	1.18	15.0	0.070	NA	NA	0.010	NA	1.07	0.043	3.92	0.0010
	St. Deviation	1	0.18	3.03	6.6	0.4	0.41	1	0.03	NA	NA	0.05	NA	0.11	0.017	0.65	0.0003
	# of values	10	10	9	10	10	10	10	10	0	0	10	0	10	10	10	10
	Minimum	16.5	7.05	4.02	13.8	0.075	0.785	14.0	0.0155	NA	NA	0.0011	NA	0.81	0.036	3.24	0.00075
	Maximum	20.0	7.61	12.53	38.8	1.09	1.57	17.0	0.120	NA	NA	0.170	NA	1.16	0.089	5.74	0.00125
	% of values undetected					40%	100%		20%			40%					100%
	# of values between MDL and MRL					3		1	7			3			10		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	#DIV/0!	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	#DIV/0!	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
					Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Upper Talarik C																				
Sample Date																				
05/26/05	0.00125	0.25		0.0155	8.95	2.33	0.0312	0.0316	0.125	0.125	5.10	5.03	0.0075	0.0075	0.0052	0.00155	1.55	1.55	0.00775	0.00775
06/15/05	0.00125	0.22		0.0155	3.42	0.31	0.0356	0.0166	0.125	0.125	5.56	3.26	0.0075	0.0075	0.0050	0.00155	1.55	1.55	0.00775	0.00775
08/01/05	0.00125	0.25		0.0155	3.93	2.98	0.0240	0.0296	0.125	0.125	5.08	4.86	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
08/12/05	0.00125	0.26		0.0155	4.01	1.00	0.0140	0.0066	0.125	0.125	5.19	4.65	0.0075	0.0075	0.00155	0.00155	5.0	1.55	0.00775	0.00775
08/14/05																				
10/13/05	0.00125	0.17		0.050	6.03	2.15	0.0284	0.0326	0.25	0.125	5.46	5.44	0.0075	0.0075	0.00155	0.00155	5.0	5.0	0.00775	0.00775
05/30/07	0.00075	0.155		0.0155	2.93		0.0250		0.155	0.155	5.57	6.46	0.0125	0.0125	0.0075	0.0075	2.97	3.90	0.0075	0.0075
06/12/07	0.00075	0.155	0.980	0.050	5.04	1.00	0.0402	0.0332	0.155	0.155	6.03	5.13	0.0125	0.0125	0.0075	0.0075	3.80	3.23	0.0075	0.0075
07/18/07	0.00075	0.155		0.0155	2.85	1.00	0.0250	0.0250	0.155	0.155	5.92	5.85	0.0125	0.0125	0.0075	0.0075	4.45	4.30	0.0075	0.0075
08/20/07	0.00075	0.155		0.0155	13.0	4.59	0.0180	0.0398	0.155	0.155	5.47		0.0125	0.0125	0.0075	0.0075	3.36	3.92	0.0075	0.0075
10/09/07	0.00075	0.48	0.816	0.0155	10.1	3.28	0.0262	0.0348	0.155	0.155	5.23	5.75	0.0125	0.0125	0.0075	0.0075	3.05	3.29	0.0075	0.0075
Mean	0.0010	0.23	0.9	0.022	6.00	2.07	0.027	0.028	0.153	0.140	5.46	5.16	0.010	0.010	0.0052	0.0045	3.57	3.33	0.0076	0.0076
Median	0.0010	0.2	0.9	0.016	4.50	2.15	0.026	0.032	0.155	0.140	5.47	5.13	0.010	0.010	0.0064	0.0045	3.58	3.60	0.0076	0.0076
St. Deviation	0.0003	0.1	0.12	0.0145	3.5	1.38	0.008	0.010	0.037	0.016	0.33	0.91	0.003	0.003	0.0027	0.0031	1.32	1.36	0.0001	0.0001
# of values	10	10	2	10	10	9	10	9	10	10	10	9	10	10	10	10	10	10	10	10
Minimum	0.00075	0.155	0.816	0.016	2.85	0.31	0.014	0.0066	0.125	0.125	5.08	3.26	0.0075	0.0075	0.00155	0.00155	1.55	1.55	0.0075	0.0075
Maximum	0.00125	0.48	0.98	0.050	13.0	4.59	0.0402	0.0398	0.250	0.155	6.03	6.46	0.0125	0.0125	0.0075	0.0075	5.00	5.00	0.00775	0.00775
% of values undetected	100%	40%		100%		40%	20%	10%	100%	100%			100%	100%	80%	100%	50%	50%	100%	100%
# of values between MDL and MRL		6					3	4							2		5	5		
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	5.74	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.072	0.071
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Upper Talarik C																					
Sample Date																					
05/26/05	5940	4960	0.391	0.131	0.0150	0.0114	0.501	0.355	10.0	10.0	0.0155	0.050	866	822	0.892	0.386		0.783	0.609	0.279	0.234
06/15/05	5760	3920	0.346	0.100	0.0108	0.00155	0.541	0.366	11.7	3.1	0.0155	0.0818	887	552	0.963	0.129	0.000450	0.736	0.395	0.207	0.272
08/01/05	5820	5680	0.100	0.100	0.0120	0.0138	0.700	0.354	7.13	3.1	0.0155	0.123	843	816	1.04	0.155	0.00250	0.731	0.701	0.206	
08/12/05	5610	5140	0.089	0.031	0.0208	0.0202	0.468	0.402	3.1	3.1	0.0155		766	722	0.925	0.219		0.627	0.608	0.219	
08/14/05																	0.000450				
10/13/05	6110	5910	0.344	0.538	0.0266	0.0212	0.473	0.448	10.8	9.54	0.0155		833	878	1.26	0.100	0.000450	0.666	0.729	0.281	
05/30/07	5910	6250	0.050	0.100	0.0104	0.0174	0.445		16.7	16.9	0.0155	0.050	850	965	0.979	0.619	0.000169	0.780	0.813	0.100	
06/12/07	6310	5400	0.100	0.050	0.0128	0.0116	0.516	0.395	17.2	11.9	0.0155	0.0155	942	862	1.05	0.427	0.000169	0.861	0.749	0.244	0.250
07/18/07	6500	6300	0.050	0.050	0.0100	0.0100	0.471	0.464	23.2	22.4	0.0155	0.0155	921	947	0.956	0.364	0.000169	0.822	0.801	0.202	
08/20/07	5420		0.100	0.240	0.0120	0.0164	0.469	0.540	10.0	10.0	0.0155	0.0430	726		1.20	0.300	0.000169	0.740		0.162	0.283
10/09/07	6100	6640	0.100	0.100	0.0140	0.0106	0.448	0.438	25.7	10.0	0.0155	0.0380	831	955	2.05	0.491	0.000402	0.732	0.766	0.100	0.284
Mean	5950	5580	0.170	0.140	0.0140	0.0134	0.503	0.418	13.6	10.0	0.0155	0.052	847	835	1.13	0.319	0.00055	0.748	0.686	0.200	0.265
Median	5930	5680	0.100	0.100	0.0120	0.0127	0.472	0.402	11.3	10.0	0.0155	0.047	847	862	1.01	0.332	0.00040	0.738	0.729	0.207	0.272
St. Deviation	320	830	0.14	0.15	0.005	0.0058	0.075	0.061	7.1	6	0	0.036	65	132	0.34	0.17	0.00074	0.069	0.132	0.064	0.022
# of values	10	9	10	10	10	10	10	9	10	10	10	8	10	9	10	10	9	10	9	10	5
Minimum	5420	3920	0.050	0.031	0.0100	0.00155	0.445	0.354	3.1	3.1	0.0155	0.0155	726	552	0.892	0.100	0.00017	0.627	0.395	0.100	0.234
Maximum	6500	6640	0.391	0.538	0.0266	0.0212	0.700	0.54	25.7	22.4	0.0155	0.123	942	965	2.05	0.619	0.0025	0.861	0.813	0.281	0.284
% of values undetected			60%	70%	10%	20%			30%	60%	100%	40%			10%	89%				20%	
# of values between MDL and MRL			1	1	4	4			5	3		3			2	1				1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	2.03	1.95	1000	1000	0.33	0.35	NA	NA	NA	NA	0.012	NA	NA	11.54	11.51
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Upper Talarik C																		
Sample Date																		
05/26/05	539	456	0.0775	0.0775	962	0.0031	0.0031	1670	1670	0.0031	0.0031	0.031	0.031	0.10	0.10	0.233	0.233	
06/15/05	566	352	0.0775	0.0775	797	0.0031	0.0031	1840	1130	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75		
08/01/05	551	542	0.0775	0.0775	826	0.0031	0.0031	1790	1770	0.0031	0.0031	0.031	0.031	0.10	0.10	15.2	12.9	
08/12/05	488	468	0.0775	0.0775	890	0.0031	0.0031	1500	1470	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.75	
08/14/05																		
10/13/05	534	589	0.0775	0.0775	1000	0.0031	0.0031	1670	1830	0.0031	0.0031	0.031	0.031	0.10	0.10	0.75	0.75	
05/30/07	543	577	0.155	0.155	1010	0.0031	0.0031	1680	1830	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50		
06/12/07	560	486	0.155	0.155	1130	0.0031	0.0031	1930	1680	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
07/18/07	593	600	0.155	0.155	1090	0.0031	0.0031	1830	1840	0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	0.50	
08/20/07	489		0.155	0.155	1390	0.0031	0.0031	1340		0.0050	0.0050	0.050	0.050	0.155	0.155	0.50	1.64	
10/09/07	517	574	0.155	0.155	1260	0.0031	0.0031	1690	1840	0.0050	0.0050	0.050	0.050	0.155	0.155	1.28	0.50	
Mean	538	516	0.116	0.116	1040	0.0031	0.0031	1690	1670	0.0041	0.0041	0.041	0.041	0.13	0.13	2.10	2.22	
Median	541	542	0.116	0.116	1010	0.0031	0.0031	1690	1770	0.0041	0.0041	0.041	0.041	0.13	0.13	0.63	0.63	
St. Deviation	33	82	0.041	0.041	190	0	0	170	240	0.001	0.001	0.01	0.01	0.03	0.03	4.61	4.34	
# of values	10	9	10	10	10	10	10	10	9	10	10	10	10	10	10	10	8	
Minimum	488	352	0.0775	0.0775	797	0.0031	0.0031	1340	1130	0.0031	0.0031	0.031	0.031	0.10	0.10	0.2325	0.233	
Maximum	593	600	0.155	0.155	1390	0.0031	0.0031	1930	1840	0.0050	0.0050	0.050	0.050	0.16	0.16	15.2	12.9	
% of values undetected			100%	100%		100%	100%			100%	100%	100%	100%	100%	100%	80%	60%	
# of values between MDL and MRL																		
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.19	0.16	NA	NA	NA	NA	NA	NA	NA	NA	26.5	26.1	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

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	Parameters	Hardness	pH	Temperature	Total Dissolved Solids	Total Suspended Solids	Acidity	Alkalinity	Nitrate + Nitrite	Nitrite	Nitrate	Phosphorus	Orthophosphate	Chloride	Fluoride	Sulfate	Total Cyanide
	Total/Dissolved																
	Units	mg/L	pH Units	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location: Whistlewing Bay A																	
	Sample Date																
	09/11/06	17.6	7.38	13.88	33.8	1.10	1.57	15.0	0.0350	0.0155	0.0320	0.0050	0.0155	0.937	0.0480	3.48	0.00075
	Mean	17.6	7.38	13.88	33.8	1.10	1.57	15.0	0.0350	0.0155	0.0320	0.0050	0.0155	0.937	0.0480	3.48	0.00075
	Median	17.6	7.38	13.88	33.8	1.10	1.57	15.0	0.0350	0.0155	0.0320	0.0050	0.0155	0.937	0.0480	3.48	0.00075
	St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	# of values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Minimum	17.6	7.38	13.88	33.8	1.10	1.57	15.0	0.0350	0.0155	0.0320	0.0050	0.0155	0.937	0.0480	3.48	0.00075
	Maximum	17.6	7.38	13.88	33.8	1.10	1.57	15.0	0.0350	0.0155	0.0320	0.0050	0.0155	0.937	0.0480	3.48	0.00075
	% of values undetected						100%			100%			100%				100%
	# of values between MDL and MRL								1		1		1		1		
	Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	>6.5 and <8.5	NA	NA	NA	NA	>=20	NA	NA	NA	NA	NA	230	NA	NA	NA
	Drinking Water Standards (DWS)⁽²⁾	NA	>6.0 and <8.5	NA	500	NA	NA	NA	10	NA	NA	NA	NA	250	4	250	NA
	% of CALC exceedences	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Parameters	Cyanide WAD ⁽⁵⁾	Thiocyanate	TOC	Ammonia ⁽³⁾	Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium ⁽⁴⁾	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	d	Total	Dissolved	Total	d
Units	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Whistlewing Bay A																				
Sample Date																				
09/11/06	0.00075	0.155		0.0155	6.48	5.20	0.0075	0.0075	0.155	0.394	4.88	4.65	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
Mean	0.00075	0.155	NA	0.0155	6.48	5.20	0.0075	0.0075	0.155	0.394	4.88	4.65	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
Median	0.00075	0.155	NA	0.0155	6.48	5.20	0.0075	0.0075	0.155	0.394	4.88	4.65	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
# of values	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Minimum	0.00075	0.155	NA	0.0155	6.48	5.20	0.0075	0.0075	0.155	0.394	4.88	4.65	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
Maximum	0.00075	0.155	NA	0.0155	6.48	5.20	0.0075	0.0075	0.155	0.394	4.88	4.65	0.0125	0.0125	0.0075	0.0075	1.25	1.25	0.0185	0.0185
% of values undetected	100%	100%		100%			100%	100%	100%				100%	100%	100%	100%	100%	100%	100%	100%
# of values between MDL and MRL										1										
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	0.0052	NA	NA	4.80	87	87	NA	NA	150	150	NA	NA	NA	NA	NA	NA	NA	NA	0.075	0.073
Drinking Water Standards (DWS)⁽²⁾	0.2	NA	NA	NA	NA	NA	6	NA	10	NA	2,000	NA	4	NA	NA	NA	NA	NA	5	NA
% of CALC exceedences	0%	0%	NA	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	#DIV/0!	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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Parameters	Calcium		Chromium ^(4,6)		Cobalt		Copper ⁽⁴⁾		Iron		Lead ⁽⁴⁾		Magnesium		Manganese		Mercury ⁽⁷⁾	Molybdenum		Nickel ⁽⁴⁾	
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Location: Whistlewing Bay A																					
Sample Date																					
09/11/06	5550	5410	0.390	0.406	0.0256	0.0228	0.380	0.459	82.4	46.5	0.129		897	814	6.59	1.05	0.000475	0.623	0.635	0.171	
Mean	5550	5410	0.390	0.406	0.0256	0.0228	0.380	0.459	82.4	46.5	0.129		897	814	6.59	1.05	0.000475	0.623	0.635	0.171	
Median	5550	5410	0.390	0.406	0.0256	0.0228	0.380	0.459	82.4	46.5	0.129		897	814	6.59	1.05	0.000475	0.623	0.635	0.171	
St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
# of values	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
Minimum	5550	5410	0.390	0.406	0.0256	0.0228	0.380	0.459	82.4	46.5	0.129		897	814	6.59	1.05	0.000475	0.623	0.635	0.171	
Maximum	5550	5410	0.390	0.406	0.0256	0.0228	0.380	0.459	82.4	46.5	0.129		897	814	6.59	1.05	0.0004745	0.623	0.635	0.171	
% of values undetected																	1				
# of values between MDL and MRL																				1	
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	10.98	10.56	NA	NA	2.11	2.03	1000	1000	0.35	0.36	NA	NA	NA	NA	0.012	NA	NA	12.00	11.96
Drinking Water Standards (DWS)⁽²⁾	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	15	NA	NA	NA	50	NA	2	NA	NA	100	NA
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

2004-2007 Iliamna Lake Study Water Results Summary

Parameters	Potassium		Selenium		Silicon	Silver ⁽⁸⁾		Sodium		Thallium		Tin		Vanadium		Zinc ⁽⁴⁾		
	Total/Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Location: Whistlewing Bay A																		
Sample Date																		
09/11/06	489	471	0.155	0.155	800	0.0031	0.0031	1790	1670	0.0050	0.0050	0.050	0.050	0.250	0.250	2.19	3.17	
Mean	489	471	0.155	0.155	800	0.0031	0.0031	1790	1670	0.0050	0.0050	0.050	0.050	0.250	0.250	2.19	3.17	
Median	489	471	0.155	0.155	800	0.0031	0.0031	1790	1670	0.0050	0.0050	0.050	0.050	0.250	0.250	2.19	3.17	
St. Deviation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
# of values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Minimum	489	471	0.155	0.155	800	0.0031	0.0031	1790	1670	0.0050	0.0050	0.050	0.050	0.250	0.250	2.19	3.17	
Maximum	489	471	0.155	0.155	800	0.0031	0.0031	1790	1670	0.0050	0.0050	0.050	0.050	0.250	0.250	2.19	3.17	
% of values undetected			100%	100%		100%	100%			100%	100%	100%	100%	100%	100%			
# of values between MDL and MRL																		
Chronic Aquatic Life Criteria (CALC)⁽¹⁾	NA	NA	5	4.6	NA	0.20	0.17	NA	NA	NA	NA	NA	NA	NA	NA	27.5	27.1	
Drinking Water Standards (DWS)⁽²⁾	NA	NA	50	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	
% of CALC exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
% of DWS exceedences	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

2004-2007 Iliamna Lake Study Water Results Summary

Key:

Bold Results = Parameter undetected by test, value shown is 1/2 MDL or 1/2 MRL.

Green Results = Estimate result reported by laboratory below reporting limit (MRL).

Red Results = Result exceed applicable Chronic Aquatic Life Criteria and/or Drinking Water Standards.

ADEC = Alaska Department of Environmental Conservation

CALC = ADEC Chronic Aquatic Life Criteria

DWS = Drinking Water Standards -18 AAC 70, Water Quality Standards, under fresh water uses, (6)(A)(i) and (6)(C).

EPA = Environmental Protection Agency

MDL = Method Detection Limit.

MRL = Method Reporting Limit.

NA = Not Applicable, no limit established.

WAD Cyanide = Weak Acid Dissociable Cyanide

If result was not detected at the lab MDL, the value shown is 1/2 MDL.

If flagged **U** or **UJ**, the value shown is 1/2 MRL.

- (1) CALC come from the ADEC Alaska Water Quality Criteria Manual – Table III and from the ADEC Water Quality Standards for Fresh Water Uses under use (C).
- (2) DWS come from the ADEC Alaska Water Quality Criteria Manual – Table I, the ADEC Water Quality Standards under use (A)(i), and EPA Primary Drinking Water Standards.
- (3) Ammonia CALC limit dependant on calculated lowest 5th percentile of temperature and pH.
- (4) Cadmium, Chromium III, Copper, Lead, Nickel and Zinc CALC limits are dependent on Hardness lowest 5th percentile.
- (5) Criterion given is for free cyanide. ADEC has determined that the WAD cyanide method is to be used for analysis and the result is to be applied to the free cyanide criterion.
- (6) Criterion given is the more stringent of those available for chromium III and chromium VI. Analysis is of total chromium.
- (7) The Criterion given for total mercury concentration is based on the Alaska Water Quality Criteria Manual for Toxic and Other Deleterious Organic and Inorganic Substances, 2002.
- (8) Criterion given is an acute criterion, rather than a chronic criterion. No chronic aquatic life criterion has been established for silver.
- (9) Precision displayed in values may be less than actual where unit conversions were necessary, especially Hg, Si, B.

The location identifications for all samples collected at one meter below water surface end in “A”; location identifications for samples collected at half of the total depth end in “B”; location identifications for samples collected one meter above the bottom of the lake or at a maximum total depth of 20 meters below the surface end in “C.”

Preliminary Data Only - Do Not Cite or Quote