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To: PACIFIC RIM GEOLOGICAL CONSULTING
 PO BOX 81906
 FAIRBANKS AK 99708-1906

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 Plus Appendix Pages
 Finalized Date: 1-NOV-2018
 Account: QOK

CERTIFICATE FA18252986

Project: Lichen/Tolstoi Project

This report is for 61 Rock samples submitted to our lab in Fairbanks, AK, USA on 11-SEP-2018.

The following have access to data associated with this certificate:

TOM BUNDTZEN		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG46	Ore Grade Ag - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	
Pb-OG46	Ore Grade Pb - Aqua Regia	
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-AA45	Trace Ag - aqua regia/AAS	AAS
Ag-AA46	Ore grade Ag - aqua regia/AA	AAS
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS	FA18252986
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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	Ag-OG46	Cu-OG46	Pb-OG46	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Recvd Wt. kg	Au ppm	Ag ppm	Cu %	Pb %	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm		
		0.02	0.001	1	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	
291177	Listed, NR																
291178		1.15	0.294		2.42		29.9	1.58	2	<10	70	<0.5	<2	0.78	0.9	14	
291179		0.59	1.460		1.520		27.7	1.61	3	<10	30	<0.5	5	1.68	1.5	17	
291180		0.16	0.541				27.7	0.79	1320	10	80	1.0	292	0.08	1.5	2	
291181		1.04	0.609				14.2	1.50	2	<10	80	<0.5	4	0.79	0.9	12	
291182		1.55	0.011				0.2	1.18	8	<10	40	<0.5	<2	1.10	0.8	28	
291183		1.88	<0.001				<0.2	0.68	6	<10	20	<0.5	<2	1.03	<0.5	22	
291184		1.84	0.334		1.165		17.1	1.39	<2	<10	70	<0.5	2	1.78	1.8	13	
291185		1.60	0.005				<0.2	1.45	<2	<10	60	<0.5	<2	0.78	<0.5	26	
291186		1.50	0.013				0.3	1.00	<2	<10	20	<0.5	<2	1.15	<0.5	9	
291187		0.81	0.005				<0.2	3.85	3	<10	40	<0.5	<2	4.15	<0.5	38	
291188		2.88	0.002				<0.2	1.31	<2	<10	20	<0.5	<2	1.39	<0.5	24	
291371		0.12	0.071				0.2	2.33	14	10	310	1.1	<2	0.66	<0.5	28	
291372		2.09	0.197				52.9	1.24	533	10	80	<0.5	21	4.17	29.4	12	
291373		2.73	0.791	129	3.03	1.090	>100	0.58	1960	10	40	<0.5	95	3.07	56.8	13	
291374		2.11	0.292	469	10.50		>100	0.17	434	10	20	<0.5	583	0.01	1.1	13	
291375		2.28	0.560	311	7.63		>100	0.24	1235	10	40	0.5	160	0.86	6.5	14	
291376		1.63	0.036				21.3	0.33	27	80	20	0.6	67	0.27	<0.5	15	
291377		0.79	0.104	106	3.56		>100	1.46	488	30	10	1.1	192	0.16	0.7	27	
291378		2.69	2.40	304	3.01		>100	0.03	6420	10	10	<0.5	168	1.27	27.0	10	
291379		2.45	1.230	254	9.10		>100	0.09	2810	10	20	<0.5	54	0.08	33.4	29	
291380		1.26	0.018				1.0	1.61	8	<10	190	<0.5	2	1.37	<0.5	27	
291381		1.12	0.007				2.3	2.04	48	10	40	1.4	5	1.13	<0.5	18	
291382		1.99	2.30				2.2	0.38	124	70	120	<0.5	3	0.14	<0.5	6	
291383		1.21	0.244				0.4	1.44	43	30	130	0.7	<2	0.51	<0.5	11	
291384		1.05	0.009				0.2	2.38	18	10	270	0.5	<2	0.70	<0.5	13	
291385		1.29	0.003				<0.2	2.23	9	10	470	0.6	<2	0.41	<0.5	15	
291386		1.17	0.001				<0.2	1.92	58	20	1390	1.2	<2	0.38	<0.5	13	
291387		1.09	<0.001				<0.2	1.64	12	10	480	0.6	<2	0.41	<0.5	13	
291388		1.37	<0.001				<0.2	1.77	19	10	590	0.5	<2	0.62	<0.5	17	
291389		1.15	<0.001				<0.2	1.99	3	10	550	0.9	<2	1.08	0.5	15	
291390		0.93	0.001				<0.2	1.80	15	10	400	0.6	2	0.72	<0.5	16	
291391		0.92	<0.001				<0.2	2.50	3	10	620	1.3	<2	1.33	<0.5	16	
291392		1.02	<0.001				<0.2	2.65	11	10	760	1.0	<2	0.50	<0.5	19	
291393		1.41	<0.001				<0.2	0.85	31	10	260	0.8	<2	0.05	<0.5	14	
291394		1.26	<0.001				<0.2	1.96	4	10	210	0.8	<2	1.73	<0.5	15	
291395		0.18	0.755				27.1	0.46	1310	10	60	0.8	288	0.07	1.7	2	
291396		1.06	<0.001				<0.2	2.00	4	<10	210	0.9	3	1.18	<0.5	16	
291397		1.13	<0.001				<0.2	2.04	4	<10	180	0.6	2	1.39	<0.5	10	
291398		0.96	<0.001				<0.2	2.04	9	<10	210	0.7	<2	1.23	<0.5	10	



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Project: Lichen/Tolstoi Project

CERTIFICATE OF ANALYSIS FA18252986

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41		
	Analyte	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	
Units		ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	
LOD		1	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	
291177																	
291178		44	>10000	4.09	10	<1	0.04	<10	1.04	210	<1	0.08	24	850	3	1.30	
291179		34	>10000	3.30	10	<1	0.03	<10	0.88	236	2	0.08	22	770	3	0.48	
291180		7	325	4.90	<10	<1	0.54	20	0.07	112	3	0.02	2	610	374	0.10	
291181		33	8710	3.13	<10	<1	0.03	<10	0.88	182	1	0.08	19	850	<2	0.70	
291182		24	282	4.91	10	<1	0.03	<10	0.48	303	1	0.11	46	860	4	1.08	
291183		20	204	2.62	<10	<1	0.01	<10	0.51	216	1	0.08	38	970	2	0.69	
291184		33	>10000	3.10	<10	<1	0.01	<10	0.79	266	<1	0.08	27	790	3	0.60	
291185		46	271	3.47	10	<1	0.13	<10	1.05	238	<1	0.10	48	890	<2	0.47	
291186		31	525	1.63	<10	<1	0.01	<10	0.71	222	<1	0.11	24	760	<2	0.04	
291187		621	96	5.95	10	<1	0.05	<10	4.23	1020	<1	0.02	154	180	2	0.01	
291188		27	268	3.16	10	<1	0.03	<10	0.90	328	1	0.12	41	930	<2	0.41	
291371		293	32	5.23	10	10	0.15	20	2.40	453	1	0.06	147	1560	8	0.02	
291372		171	5760	5.17	10	4	0.09	10	3.37	2380	1	0.01	73	630	2510	0.26	
291373		97	>10000	5.98	<10	5	0.02	<10	1.97	2650	1	0.01	52	440	>10000	1.54	
291374		10	>10000	18.10	<10	3	0.05	<10	0.02	77	1	0.01	7	150	760	6.63	
291375		15	>10000	11.15	<10	4	0.06	10	0.41	1405	2	<0.01	9	280	5470	4.97	
291376		51	3170	1.65	<10	<1	0.02	10	0.16	429	2	0.01	23	720	43	0.18	
291377		43	>10000	8.03	10	<1	0.01	10	0.79	1095	2	0.01	23	630	55	2.72	
291378		11	>10000	4.87	<10	7	0.01	<10	0.57	1735	1	0.01	1	10	9680	3.18	
291379		13	>10000	10.85	<10	3	0.03	<10	0.04	319	2	0.01	13	70	4680	4.24	
291380		58	232	4.75	<10	<1	0.07	20	2.41	629	1	0.30	74	1700	17	0.05	
291381		110	264	4.77	10	<1	0.09	30	1.49	1060	2	0.01	27	1040	77	0.03	
291382		33	337	1.14	<10	<1	0.09	10	0.16	115	7	0.02	9	540	40	0.04	
291383		111	166	2.52	10	<1	0.58	10	1.11	292	6	0.08	29	960	17	0.03	
291384		163	31	3.10	10	1	0.16	20	1.41	595	1	0.05	23	860	21	0.01	
291385		162	29	3.56	10	1	0.19	30	1.53	642	1	0.05	28	920	15	0.01	
291386		126	18	3.21	10	2	0.19	30	0.97	563	1	0.03	32	970	17	0.04	
291387		154	19	2.78	10	<1	0.17	20	1.18	657	1	0.05	27	980	15	0.01	
291388		153	22	3.07	10	1	0.21	20	1.34	747	1	0.11	48	970	11	0.01	
291389		143	21	2.89	10	<1	0.26	20	1.66	784	<1	0.05	30	1050	11	0.01	
291390		144	21	3.05	10	<1	0.17	20	1.67	709	<1	0.06	33	1050	15	0.01	
291391		161	19	3.48	10	<1	0.32	30	1.76	645	<1	0.04	23	1130	11	0.01	
291392		175	19	3.42	10	<1	0.38	30	1.83	615	1	0.06	28	1110	34	0.01	
291393		60	20	3.42	<10	8	0.11	10	0.12	470	1	0.01	22	790	12	0.01	
291394		31	46	2.87	<10	<1	0.17	20	1.01	331	1	0.32	40	1810	4	0.01	
291395		7	319	4.66	<10	<1	0.31	20	0.05	109	3	0.02	2	560	389	0.09	
291396		56	35	3.15	10	<1	0.12	30	1.27	380	1	0.22	38	1750	7	0.01	
291397		54	31	2.09	<10	<1	0.13	30	0.95	224	1	0.26	38	1670	3	0.01	
291398		79	33	2.12	<10	<1	0.14	20	1.08	206	1	0.23	39	1590	4	0.02	



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CERTIFICATE OF ANALYSIS FA18252986

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA45	Ag-AA46
		Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Ag ppm
291177													
291178		<2	6	22	<20	0.22	<10	<10	96	<10	29	29.3	
291179		<2	5	20	<20	0.39	<10	<10	95	<10	48	26.9	
291180		21	2	27	<20	<0.01	<10	10	16	<10	110	27.8	
291181		<2	4	19	<20	0.19	<10	<10	80	<10	18	13.2	
291182		<2	4	18	<20	0.25	<10	<10	66	<10	16	0.3	
291183		<2	4	8	<20	0.17	<10	<10	61	<10	11	0.2	
291184		<2	5	96	<20	0.25	<10	<10	76	<10	33	16.1	
291185		<2	5	7	<20	0.17	<10	<10	102	<10	27	0.2	
291186		2	4	26	<20	0.18	<10	<10	59	<10	21	<0.2	
291187		<2	25	56	<20	0.15	<10	<10	162	<10	62	<0.2	
291188		<2	6	10	<20	0.20	<10	<10	90	<10	29	0.2	
291371		<2	7	69	<20	0.07	<10	<10	121	<10	88	0.2	
291372		603	4	167	<20	0.02	<10	<10	34	<10	1890	51.5	
291373		1940	3	96	<20	<0.01	<10	<10	22	<10	4280	>100	132
291374		166	1	1	<20	<0.01	<10	<10	9	110	642	>100	479
291375		1085	2	30	<20	<0.01	<10	<10	6	50	708	>100	313
291376		6	1	8	<20	<0.01	<10	<10	7	<10	30	21.9	
291377		27	1	6	<20	0.01	<10	<10	12	20	167	>100	112
291378		2970	<1	28	<20	<0.01	<10	<10	1	10	3660	>100	302
291379		1210	<1	9	<20	<0.01	<10	<10	3	10	2280	>100	269
291380		5	4	99	<20	0.20	<10	<10	22	<10	74	0.9	
291381		9	6	33	20	0.01	<10	<10	62	<10	84	2.3	
291382		9	1	9	<20	0.03	<10	<10	13	<10	24	2.1	
291383		2	6	22	<20	0.22	<10	<10	82	<10	58	0.3	
291384		<2	9	44	<20	0.25	<10	<10	81	<10	60	0.2	
291385		2	10	30	<20	0.10	<10	<10	84	<10	66	0.2	
291386		<2	9	47	<20	0.02	<10	<10	59	<10	62	<0.2	
291387		<2	8	19	<20	0.08	<10	<10	70	<10	52	<0.2	
291388		<2	10	46	<20	0.14	<10	<10	80	<10	58	0.2	
291389		<2	8	42	<20	0.11	<10	<10	72	<10	57	<0.2	
291390		<2	11	24	<20	0.28	<10	<10	79	<10	74	0.2	
291391		<2	9	63	<20	0.10	<10	<10	78	<10	72	<0.2	
291392		<2	10	30	<20	0.12	<10	<10	88	<10	76	<0.2	
291393		2	11	21	<20	0.03	<10	<10	58	<10	58	<0.2	
291394		<2	5	129	<20	0.14	<10	<10	41	<10	54	<0.2	
291395		18	1	28	<20	<0.01	<10	10	11	<10	113	26.2	
291396		<2	6	89	<20	0.17	<10	<10	57	<10	60	<0.2	
291397		<2	5	122	<20	0.08	<10	<10	34	<10	52	<0.2	
291398		<2	6	109	<20	0.07	<10	<10	36	<10	42	<0.2	



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Sample Description	Method	WEI-21	Au-ICP21	Ag-OG46	Cu-OG46	Pb-OG46	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Recvd Wt.	Au	Ag	Cu	Pb	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co
LOD		kg	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.02	0.001	1	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1
291399		1.36	<0.001				<0.2	2.26	14	10	290	0.8	<2	1.29	<0.5	16
291401		1.22	<0.001				<0.2	1.94	12	10	430	1.3	2	1.03	<0.5	13
291402		0.17	<0.001				<0.2	1.66	13	10	210	0.7	<2	1.03	<0.5	19
291425		1.58	0.097				3.2	0.26	237	100	30	<0.5	3	0.44	0.8	6
291426		0.90	<0.001				<0.2	3.20	19	10	180	0.7	<2	0.39	<0.5	14
291427		0.89	<0.001				<0.2	2.84	15	10	280	0.7	<2	0.15	<0.5	15
291428		1.11	0.006				<0.2	1.67	83	20	510	1.5	<2	0.10	<0.5	19
291429		1.17	<0.001				<0.2	3.01	11	10	250	0.8	<2	0.11	<0.5	19
291430		0.86	0.004				<0.2	3.15	16	<10	190	0.8	<2	0.11	<0.5	14
291431		0.87	<0.001				<0.2	2.48	4	10	350	0.8	<2	0.35	<0.5	18
291432		0.57	0.005				0.2	1.06	8	<10	200	<0.5	<2	0.23	<0.5	7
291433		0.84	0.003				<0.2	2.87	8	10	370	0.8	<2	0.16	<0.5	13
291434		0.99	0.003				<0.2	3.10	11	10	250	0.7	<2	0.12	<0.5	15
291435		1.14	<0.001				<0.2	1.90	12	10	270	1.0	<2	0.07	<0.5	15
291436		1.16	<0.001				<0.2	3.16	9	<10	240	1.0	<2	0.49	<0.5	22
291437		0.84	<0.001				<0.2	2.79	13	<10	140	0.9	<2	0.38	<0.5	17
291438		1.15	<0.001				<0.2	2.65	6	<10	190	1.0	<2	0.78	<0.5	18
291439		1.09	<0.001				<0.2	3.13	9	<10	210	1.1	<2	0.55	<0.5	17
291440		0.15	1.515				30.9	0.60	1335	10	60	0.9	321	0.08	1.7	2
291441		1.10	<0.001				<0.2	3.18	13	<10	270	1.1	<2	0.75	<0.5	18
291442		0.89	<0.001				<0.2	1.42	7	<10	150	0.5	<2	0.46	<0.5	7



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Sample Description	Method Analyte Units LOD	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %
291399		138	28	2.59	10	<1	0.18	20	1.08	527	1	0.20	51	1600	8	0.02
291401		42	24	2.88	10	<1	0.25	20	1.44	380	1	0.20	53	1440	12	0.03
291402		149	19	2.82	<10	1	0.16	10	1.76	714	2	0.15	66	1050	5	0.01
291425		36	565	0.76	<10	<1	0.08	<10	0.21	199	3	0.02	12	760	47	0.03
291426		146	19	3.40	10	<1	0.11	20	1.67	521	1	0.03	26	500	18	0.03
291427		125	20	3.43	10	<1	0.16	10	1.37	585	1	0.03	28	540	16	0.03
291428		65	20	3.16	<10	6	0.22	20	0.36	832	1	0.01	30	630	24	0.01
291429		151	22	3.87	10	<1	0.20	10	1.76	554	1	0.03	46	680	14	0.02
291430		89	22	3.74	10	<1	0.13	10	1.25	621	1	0.03	38	530	15	0.04
291431		140	18	3.57	10	1	0.15	20	1.58	612	1	0.03	34	1030	13	0.03
291432		58	11	1.88	10	<1	0.09	10	0.63	252	1	0.05	15	720	10	0.06
291433		114	18	3.42	10	<1	0.20	20	1.23	499	1	0.04	26	790	13	0.04
291434		88	17	3.60	10	<1	0.14	10	0.90	417	1	0.03	31	590	13	0.03
291435		59	26	3.54	<10	12	0.17	20	0.26	496	1	0.03	27	580	12	0.03
291436		106	28	4.23	10	<1	0.11	20	1.27	631	1	0.08	53	970	8	0.03
291437		70	27	3.89	10	<1	0.11	20	1.22	514	1	0.05	43	790	12	0.04
291438		121	30	3.40	10	<1	0.11	20	1.75	442	1	0.10	54	1430	7	0.03
291439		140	30	3.47	10	<1	0.12	20	1.99	495	1	0.08	53	1240	9	0.03
291440		8	336	4.97	<10	<1	0.40	20	0.06	125	3	0.02	3	620	391	0.10
291441		148	26	3.63	10	<1	0.14	20	2.18	576	1	0.13	54	1300	10	0.04
291442		32	19	2.16	10	<1	0.13	10	0.63	277	1	0.06	20	450	6	0.03



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Sample Description	Method Analyte Units LOD	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm	ME-ICP41 Ti %	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm	Ag-AA45 Ag ppm	Ag-AA46 Ag ppm
291399		<2	8	117	<20	0.07	<10	<10	63	<10	53	<0.2	
291401		<2	10	72	<20	0.42	<10	<10	80	<10	57	<0.2	
291402		<2	6	76	<20	0.14	<10	<10	79	<10	49	<0.2	
291425		8	1	12	<20	0.03	<10	<10	9	<10	116	3.0	
291426		<2	7	28	<20	0.23	<10	<10	82	<10	64	<0.2	
291427		<2	6	12	<20	0.11	<10	<10	72	<10	65	<0.2	
291428		3	7	10	<20	0.01	<10	<10	39	<10	64	<0.2	
291429		3	6	7	<20	0.07	<10	<10	72	<10	71	<0.2	
291430		<2	4	13	<20	0.07	<10	<10	71	<10	68	<0.2	
291431		<2	6	17	<20	0.05	<10	<10	76	<10	67	<0.2	
291432		<2	4	14	<20	0.13	<10	<10	47	<10	34	<0.2	
291433		<2	4	11	<20	0.07	<10	<10	74	<10	69	<0.2	
291434		<2	5	11	<20	0.08	<10	<10	75	<10	59	<0.2	
291435		<2	8	14	<20	0.04	<10	<10	63	<10	59	<0.2	
291436		2	8	47	<20	0.11	<10	<10	70	<10	66	<0.2	
291437		2	6	17	<20	0.24	<10	<10	76	<10	66	<0.2	
291438		<2	7	61	<20	0.10	<10	<10	57	<10	66	<0.2	
291439		<2	7	47	<20	0.08	<10	<10	70	<10	63	<0.2	
291440		18	1	27	<20	<0.01	<10	10	13	<10	110	32.0	
291441		<2	6	82	<20	0.09	<10	<10	70	<10	63	<0.2	
291442		<2	4	19	<20	0.20	<10	<10	52	<10	33	<0.2	



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Reno located at 4977 Energy Way, Reno, NV, USA.		
	Au-ICP21	PUL-31	PUL-QC
Applies to Method:	Processed at ALS Fairbanks located at 1060 Bush Street, Fairbanks, AK, USA.		
	CRU-31	CRU-QC	LOG-22
	SPL-21	WEI-21	LOG-24
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Ag-AA45	Ag-AA46	Ag-OG46
	ME-ICP41	ME-OG46	Pb-OG46
			Cu-OG46