



ALS Canada Ltd.

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www.alsglobal.com/geochemistry

To: KREFT, BERNIE
#1 LOCUST PLACE
WHITEHORSE YT Y1A 5G9

Page: 1
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 12-DEC-2018
Account: KREBER

CERTIFICATE VA18308636

This report is for 16 Pulp samples submitted to our lab in Vancouver, BC, Canada on 4-DEC-2018.

The following have access to data associated with this certificate:

BERNIE KREFT

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Aq-OG46	Ore Grade Ag - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	

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 VA18308636

Sample Description	Method Analyte Units LOD	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1
T188-01		0.4	1.96	2	<10	70	<0.5	<2	0.11	1.9	31	8	169	4.82	<10	<1
T188-02		0.5	2.77	10	<10	80	<0.5	<2	0.13	2.7	38	11	229	5.83	10	<1
T188-03		0.7	2.05	7	<10	60	<0.5	<2	0.07	7.0	33	9	166	5.25	<10	<1
T188-04		0.6	1.98	5	<10	70	<0.5	<2	0.09	3.2	29	12	192	5.48	<10	<1
T188-05		1.0	2.39	7	<10	70	<0.5	<2	0.09	3.4	30	13	205	5.59	10	1
T188-06		0.5	2.43	7	<10	80	<0.5	<2	0.14	2.0	21	24	162	4.73	10	<1
T188-07		0.6	2.28	6	<10	100	<0.5	<2	0.08	1.4	20	12	185	6.06	10	1
T188-08		0.4	2.12	4	<10	80	<0.5	<2	0.12	10.4	46	5	183	4.48	<10	1
T188-09		0.4	2.04	8	<10	60	<0.5	<2	0.08	1.2	22	9	136	4.87	<10	2
T188-10		0.6	1.93	7	<10	60	<0.5	<2	0.05	1.5	14	8	164	5.57	<10	1
T188-11		0.7	1.39	5	<10	50	<0.5	2	0.03	<0.5	7	8	164	5.92	<10	1
T188-12		0.8	1.72	3	<10	80	<0.5	2	0.04	4.1	21	9	215	6.03	<10	2
T188-13		0.7	2.12	5	<10	90	<0.5	<2	0.06	6.2	49	23	265	5.27	<10	1
T188-14		0.6	4.19	<2	<10	160	<0.5	<2	0.19	10.4	81	16	346	6.32	10	1
T1819-02		>100	0.23	453	<10	70	<0.5	2	0.06	15.4	4	4	933	3.02	<10	2
T1819-04		>100	0.40	539	<10	110	<0.5	2	0.08	31.0	6	7	2340	4.74	<10	4



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Page: 2 - B
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Sample Description	Method Analyte Units LOD	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 %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm	ME-ICP41 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20	0.01
T188-01		0.08	<10	1.54	1265	1	0.03	15	570	10	0.12	<2	5	4	<20	<0.01
T188-02		0.11	<10	2.24	1615	1	0.03	21	540	24	0.23	<2	7	5	<20	<0.01
T188-03		0.09	<10	1.75	1690	2	0.03	16	510	17	0.16	<2	4	7	<20	<0.01
T188-04		0.11	<10	1.66	1400	3	0.03	17	530	20	0.22	<2	5	5	<20	<0.01
T188-05		0.10	<10	2.05	1170	3	0.03	19	500	50	0.07	5	5	5	<20	<0.01
T188-06		0.11	<10	2.07	991	1	0.03	19	590	23	0.03	2	5	6	<20	<0.01
T188-07		0.11	<10	1.81	980	2	0.03	13	500	42	0.06	<2	6	5	<20	<0.01
T188-08		0.12	10	1.64	2920	1	0.03	17	610	29	0.21	<2	5	6	<20	<0.01
T188-09		0.11	<10	1.61	1255	1	0.02	10	550	50	0.07	<2	5	5	<20	<0.01
T188-10		0.09	<10	1.58	909	2	0.03	12	590	51	0.05	3	5	6	<20	<0.01
T188-11		0.08	<10	1.11	314	5	0.04	9	470	21	0.10	<2	5	4	<20	<0.01
T188-12		0.11	<10	1.33	1315	2	0.04	14	510	24	0.14	3	5	5	<20	<0.01
T188-13		0.09	<10	1.73	2300	2	0.04	27	490	14	0.16	<2	6	4	<20	<0.01
T188-14		0.11	10	2.82	3290	<1	0.03	46	520	11	0.11	3	13	8	<20	0.01
T1819-02		0.11	<10	0.04	133	1	0.01	3	130	>10000	0.19	1070	2	4	<20	<0.01
T1819-04		0.17	<10	0.07	194	1	0.01	7	230	>10000	0.21	1650	5	6	<20	<0.01



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Pb-OG46
		Tl	U	V	W	Zn	Ag	Pb
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 1	% 0.001
T188-01		<10	<10	34	<10	399		
T188-02		<10	<10	49	<10	657		
T188-03		<10	<10	37	<10	763		
T188-04		<10	<10	36	<10	684		
T188-05		<10	<10	46	<10	830		
T188-06		<10	<10	42	<10	664		
T188-07		<10	<10	50	<10	830		
T188-08		<10	<10	38	<10	765		
T188-09		<10	<10	35	<10	621		
T188-10		<10	<10	37	<10	501		
T188-11		<10	<10	31	<10	377		
T188-12		<10	<10	37	<10	589		
T188-13		<10	<10	40	<10	677		
T188-14		<10	<10	80	<10	583		
T1819-02		<10	<10	8	<10	918	435	1.955
T1819-04		<10	<10	14	<10	2120	839	2.47



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Ag-OG46 FND-02 ME-ICP41
Pb-OG46

ME-OG46