



ALS Canada Ltd.

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To: PACIFIC RIDGE EXPLORATION LTD.
SUITE 1100 - 1111 MELVILLE STREET
VANCOUVER BC V6E 3V6

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Plus Appendix Pages
Finalized Date: 21-SEP-2017
Account: PARIEX

QC CERTIFICATE WH17184070

Project: RC Property

This report is for 252 Soil samples submitted to our lab in Whitehorse, YT, Canada on 30-AUG-2017.

The following have access to data associated with this certificate:

GERRY CARLSON

COR COE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: PACIFIC RIDGE EXPLORATION LTD.
ATTN: GERRY CARLSON
SUITE 1100 - 1111 MELVILLE STREET
VANCOUVER BC V6E 3V6

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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QC CERTIFICATE OF ANALYSIS WH17184070

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
		0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
STANDARDS																
AMISO486		0.232														
AMISO486		0.227														
Target Range - Lower Bound																
Upper Bound																
CDN-PGMS28		0.218														
CDN-PGMS28		0.172														
CDN-PGMS28		0.211														
CDN-PGMS28		0.206														
CDN-PGMS28		0.197														
CDN-PGMS28		0.199														
Target Range - Lower Bound		0.180														
Upper Bound		0.206														
G912-1		7.30														
G912-1		7.24														
G912-1		7.43														
G912-1		7.16														
G912-1		7.42														
G912-1		7.05														
Target Range - Lower Bound		6.85														
Upper Bound		7.73														
GPP-13		0.620														
GPP-13		0.612														
GPP-13		0.628														
GPP-13		0.612														
GPP-13		0.627														
GPP-13		0.604														
Target Range - Lower Bound																
Upper Bound																
JK-17		1.935														
JK-17		1.890														
JK-17		1.950														
Target Range - Lower Bound		1.875														
Upper Bound		2.12														



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QC CERTIFICATE OF ANALYSIS WH17184070

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
STANDARDS																
AMISO486																
AMISO486																
Target Range - Lower Bound																
Upper Bound																
CDN-PGMS28																
CDN-PGMS28																
CDN-PGMS28																
CDN-PGMS28																
CDN-PGMS28																
CDN-PGMS28																
Target Range - Lower Bound																
Upper Bound																
G912-1																
G912-1																
G912-1																
G912-1																
G912-1																
G912-1																
Target Range - Lower Bound																
Upper Bound																
GPP-13																
GPP-13																
GPP-13																
GPP-13																
GPP-13																
GPP-13																
Target Range - Lower Bound																
Upper Bound																
JK-17																
JK-17																
JK-17																
Target Range - Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS WH17184070

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
STANDARDS							
AMISO486							
AMISO486							
Target Range - Lower Bound							
Upper Bound							
CDN-PGMS28							
CDN-PGMS28							
CDN-PGMS28							
CDN-PGMS28							
CDN-PGMS28							
CDN-PGMS28							
Target Range - Lower Bound							
Upper Bound							
G912-1							
G912-1							
G912-1							
G912-1							
G912-1							
G912-1							
Target Range - Lower Bound							
Upper Bound							
GPP-13							
GPP-13							
GPP-13							
GPP-13							
GPP-13							
GPP-13							
Target Range - Lower Bound							
Upper Bound							
JK-17							
JK-17							
JK-17							
Target Range - Lower Bound							
Upper Bound							



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QC CERTIFICATE OF ANALYSIS WH17184070

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	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
STANDARDS																
LEA-16		0.489														
LEA-16		0.490														
LEA-16		0.500														
LEA-16		0.504														
LEA-16		0.495														
LEA-16		0.492														
Target Range - Lower Bound		0.470														
Upper Bound		0.532														
MRGeo08			4.3	2.49	30	<10	430	0.7	<2	1.02	2.0	18	87	602	3.46	10
MRGeo08			4.7	2.57	32	10	440	0.7	<2	1.05	2.2	19	92	641	3.67	10
MRGeo08			4.5	2.45	33	<10	420	0.7	2	1.00	2.1	19	89	627	3.56	10
MRGeo08			4.5	2.66	34	<10	450	0.8	2	1.12	2.2	20	94	639	3.65	10
Target Range - Lower Bound			3.8	2.44	27	<10	370	<0.5	<2	1.00	1.1	16	81	586	3.22	<10
Upper Bound			5.1	3.00	39	20	530	1.9	5	1.24	3.4	22	102	676	3.96	30
OGGeo08			20.1	2.16	119	<10	80	0.7	12	0.89	18.2	96	81	8580	5.05	10
OGGeo08			20.1	2.10	118	<10	60	0.6	12	0.84	18.0	94	80	8280	5.08	10
OGGeo08			21.1	2.24	123	<10	70	0.7	13	0.89	19.1	99	84	8890	5.38	10
OGGeo08			19.9	2.18	115	<10	60	0.6	15	0.87	17.9	94	79	8470	5.11	10
Target Range - Lower Bound			18.0	2.05	105	<10	60	<0.5	6	0.82	16.2	86	75	7800	4.51	<10
Upper Bound			22.4	2.53	133	30	110	1.8	15	1.02	21.0	108	93	8980	5.53	30
OREAS 602			>100	0.63	692	<10	40	<0.5	63	0.54	26.1	10	31	5290	2.06	<10
OREAS 602			>100	0.65	676	<10	30	<0.5	60	0.52	25.3	10	31	5240	2.07	<10
OREAS 602			>100	0.60	662	<10	30	<0.5	60	0.50	24.7	10	31	5120	2.02	<10
OREAS 602			>100	0.64	696	<10	30	<0.5	63	0.54	26.5	10	33	5250	2.10	<10
Target Range - Lower Bound			106.0	0.57	577	<10	<10	<0.5	50	0.46	22.2	7	26	4810	1.94	<10
Upper Bound			100.0	0.71	709	20	50	1.3	66	0.59	28.2	12	34	5530	2.40	30
OREAS 905		0.395														
OREAS 905		0.382														
OREAS 905		0.387														
OREAS 905		0.392														
Target Range - Lower Bound		0.367														
Upper Bound		0.415														



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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
STANDARDS																
LEA-16																
LEA-16																
LEA-16																
LEA-16																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1	1.22	30	1.10	397	13	0.31	680	980	1035	0.30	<2	7	76	20
MRGeo08		<1	1.28	30	1.14	423	13	0.33	711	1050	1070	0.31	5	7	78	20
MRGeo08		<1	1.26	30	1.10	408	13	0.31	688	1030	1030	0.29	5	7	74	20
MRGeo08		<1	1.26	30	1.18	425	14	0.35	737	1020	1110	0.32	3	7	83	20
Target Range - Lower Bound		<1	1.12	20	1.03	378	12	0.30	621	900	957	0.27	<2	5	71	<20
Upper Bound		2	1.40	60	1.29	473	17	0.39	761	1130	1175	0.35	8	10	89	60
OGGeo08		1	1.05	30	0.95	386	891	0.30	8900	790	7260	2.75	20	6	65	20
OGGeo08		<1	1.04	30	0.92	388	847	0.29	8760	810	6970	2.65	21	6	61	<20
OGGeo08		1	1.10	30	0.97	403	891	0.31	9270	860	7320	2.80	21	6	66	20
OGGeo08		<1	1.05	30	0.92	377	861	0.30	8740	790	7080	2.71	19	6	62	20
Target Range - Lower Bound		<1	0.94	<10	0.84	350	810	0.26	7760	700	6510	2.51	15	4	59	<20
Upper Bound		3	1.18	50	1.05	438	992	0.34	9480	880	7970	3.09	27	9	74	60
OREAS 602		1	0.09	10	0.10	217	4	0.04	62	240	853	2.04	61	1	52	<20
OREAS 602		1	0.09	10	0.10	217	4	0.03	60	240	827	1.98	64	1	49	<20
OREAS 602		1	0.09	10	0.10	210	4	0.03	60	240	820	1.94	61	1	46	<20
OREAS 602		1	0.09	10	0.10	219	4	0.03	66	240	883	2.06	64	1	48	<20
Target Range - Lower Bound		<1	0.07	<10	0.08	193	2	<0.01	54	210	768	1.81	46	<1	44	<20
Upper Bound		3	0.12	30	0.13	247	7	0.05	68	280	944	2.23	68	3	56	40
OREAS 905																
OREAS 905																
OREAS 905																
OREAS 905																
Target Range - Lower Bound																
Upper Bound																



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		0.01	10	10	1	10	2
STANDARDS							
LEA-16							
LEA-16							
LEA-16							
LEA-16							
LEA-16							
LEA-16							
Target Range - Lower Bound							
Upper Bound							
MRGeo08		0.36	<10	<10	97	<10	756
MRGeo08		0.36	<10	<10	100	<10	804
MRGeo08		0.35	<10	<10	97	<10	774
MRGeo08		0.38	<10	<10	103	<10	807
Target Range - Lower Bound		0.33	<10	<10	90	<10	708
Upper Bound		0.43	20	30	112	20	870
OGGeo08		0.31	<10	<10	78	<10	6970
OGGeo08		0.29	<10	<10	77	<10	6790
OGGeo08		0.31	<10	<10	81	<10	7080
OGGeo08		0.30	<10	<10	78	<10	7070
Target Range - Lower Bound		0.27	<10	<10	70	<10	6500
Upper Bound		0.36	20	30	88	20	7950
OREAS 602		0.01	<10	<10	11	<10	4160
OREAS 602		0.01	<10	<10	10	<10	3990
OREAS 602		0.01	<10	<10	10	<10	3870
OREAS 602		0.01	<10	<10	10	<10	4200
Target Range - Lower Bound		<0.01	<10	<10	8	<10	3680
Upper Bound		0.03	20	20	14	20	4500
OREAS 905							
OREAS 905							
OREAS 905							
OREAS 905							
Target Range - Lower Bound							
Upper Bound							



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STANDARDS																
OREAS-45b			0.2	4.31	2	10	150	0.6	<2	0.29	<0.5	73	637	449	15.20	20
OREAS-45b			0.3	3.90	2	10	140	0.6	<2	0.28	<0.5	71	627	449	15.05	20
OREAS-45b			0.3	4.31	3	10	150	0.7	<2	0.29	<0.5	73	650	470	15.80	20
OREAS-45b			0.2	3.97	2	<10	140	0.6	<2	0.29	<0.5	72	614	442	14.95	20
Target Range - Lower Bound			<0.2	3.73	<2	<10	120	<0.5	<2	0.25	<0.5	65	599	417	13.60	<10
Upper Bound			0.6	4.58	7	20	190	1.8	4	0.33	1.1	82	735	481	16.60	40
PK2		4.91														
PK2		4.86														
PK2		4.76														
PK2		4.92														
Target Range - Lower Bound		4.50														
Upper Bound		5.07														
BLANKS																
BLANK		<0.001														
BLANK		<0.001														
BLANK		<0.001														
BLANK		<0.001														
BLANK		0.001														
BLANK		0.001														
BLANK		<0.001														
BLANK		<0.001														
BLANK		0.002														
BLANK		0.002														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Target Range - Lower Bound			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Upper Bound			0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02	20



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STANDARDS																
OREAS-45b		1	0.07	20	0.13	778	1	0.02	223	430	22	0.03	2	41	17	<20
OREAS-45b		<1	0.07	20	0.12	772	1	0.02	213	450	21	0.03	<2	39	15	<20
OREAS-45b		<1	0.07	20	0.13	796	1	0.02	225	460	22	0.04	<2	41	16	<20
OREAS-45b		<1	0.07	20	0.11	754	1	0.03	208	440	20	0.03	<2	39	16	<20
Target Range - Lower Bound		<1	0.05	<10	0.09	727	<1	<0.01	188		16	<0.01	<2	37	14	<20
Upper Bound		2	0.09	40	0.15	899	3	0.04	232		26	0.06	4	47	20	50
PK2																
PK2																
PK2																
PK2																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
Upper Bound		2	0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	40



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
STANDARDS							
OREAS-45b		0.22	<10	<10	209	<10	164
OREAS-45b		0.20	<10	<10	206	<10	166
OREAS-45b		0.21	<10	<10	212	<10	172
OREAS-45b		0.21	<10	<10	207	<10	163
Target Range - Lower Bound		0.19	<10	<10	198	<10	154
Upper Bound		0.25	20	20	244	20	192
PK2							
PK2							
PK2							
PK2							
Target Range - Lower Bound							
Upper Bound							
BLANKS							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
Target Range - Lower Bound							
Upper Bound							
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
BLANK		<0.01	<10	<10	<1	<10	<2
Target Range - Lower Bound		<0.01	<10	<10	<1	<10	<2
Upper Bound		0.02	20	20	2	20	4



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QC CERTIFICATE OF ANALYSIS WH17184070

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	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
DUPLICATES																
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		0.055														
DUP		0.076														
Target Range - Lower Bound		0.061														
Upper Bound		0.070														
ORIGINAL		0.012														
DUP		0.002														
Target Range - Lower Bound		0.006														
Upper Bound		0.008														
ORIGINAL		0.001														
DUP		0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		<0.001														
DUP		0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		0.001														
DUP		0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														



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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
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ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES					
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							



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Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	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
DUPLICATES																
ORIGINAL		0.002														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
ORIGINAL		<0.001														
DUP		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
W422407		<0.001														
DUP		0.004														
Target Range - Lower Bound		<0.001														
Upper Bound		0.004														
W422427		0.010														
DUP		0.007														
Target Range - Lower Bound		0.007														
Upper Bound		0.010														
W422431			<0.2	1.40	15	<10	100	<0.5	<2	0.10	<0.5	6	24	16	2.19	<10
DUP			<0.2	1.44	18	<10	100	<0.5	<2	0.11	<0.5	7	25	16	2.24	<10
Target Range - Lower Bound			<0.2	1.34	14	<10	80	<0.5	<2	0.09	<0.5	5	22	14	2.09	<10
Upper Bound			0.4	1.50	19	20	120	1.0	4	0.12	1.0	8	27	18	2.34	20



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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
W422407 DUP Target Range - Lower Bound Upper Bound																
W422427 DUP Target Range - Lower Bound Upper Bound																
W422431 DUP Target Range - Lower Bound Upper Bound		<1 <1	0.05 0.05	10 20	0.35 0.37	220 231	1 1	0.01 0.01	16 16	550 560	10 11	0.02 0.02	<2 <2	1 1	9 10	<20 <20
		<1 2	0.04 0.06	<10 20	0.33 0.39	209 242	<1 2	<0.01 0.02	14 18	520 590	8 13	<0.01 0.03	<2 4	<1 2	8 11	<20 40



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES					
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
ORIGINAL DUP Target Range - Lower Bound Upper Bound							
W422407 DUP Target Range - Lower Bound Upper Bound							
W422427 DUP Target Range - Lower Bound Upper Bound							
W422431 DUP Target Range - Lower Bound Upper Bound		0.04 0.04 0.03 0.05	<10 <10 <10 20	<10 <10 <10 20	38 39 36 41	<10 <10 <10 20	51 53 47 57



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Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
		0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
W422463 DUP Target Range - Lower Bound Upper Bound		0.002 0.003 <0.001 0.004	DUPLICATES													
W422467 DUP Target Range - Lower Bound Upper Bound			0.3 0.2 <0.2 0.4	2.22 2.37 2.17 2.42	48 49 44 53	<10 <10 <10 20	140 150 120 170	0.7 0.7 <0.5 1.0	2 <2 <2 4	0.13 0.14 0.12 0.15	<0.5 <0.5 <0.5 1.0	14 15 13 16	35 37 33 39	36 38 35 39	3.47 3.65 3.37 3.75	10 10 <10 20
W422484 DUP Target Range - Lower Bound Upper Bound		0.017 0.014 0.014 0.017														
W422504 DUP Target Range - Lower Bound Upper Bound			0.2 0.2 <0.2 0.4	1.74 1.87 1.70 1.91	18 19 16 21	<10 <10 <10 20	100 100 80 120	<0.5 <0.5 <0.5 1.0	<2 <2 <2 4	0.09 0.10 0.08 0.11	<0.5 <0.5 <0.5 1.0	9 10 8 11	31 33 29 35	16 17 15 18	2.93 3.13 2.87 3.19	10 10 <10 20
W422515 DUP Target Range - Lower Bound Upper Bound		0.007 0.007 0.006 0.008														
W422553 DUP Target Range - Lower Bound Upper Bound		0.101 0.117 0.103 0.115														
W422558 DUP Target Range - Lower Bound Upper Bound			<0.2 <0.2 <0.2 0.4	1.38 1.40 1.31 1.47	18 17 15 20	<10 <10 <10 20	70 70 50 90	<0.5 <0.5 <0.5 1.0	<2 <2 <2 4	0.07 0.07 0.06 0.08	<0.5 <0.5 <0.5 1.0	9 9 8 10	29 29 27 31	18 19 17 20	3.25 3.30 3.10 3.45	<10 10 <10 20
W422587 DUP Target Range - Lower Bound Upper Bound		0.004 0.007 0.004 0.007														



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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
DUPLICATES																
W422463 DUP Target Range - Lower Bound Upper Bound																
W422467 DUP Target Range - Lower Bound Upper Bound		<1 <1 <1 2	0.06 0.07 0.05 0.08	30 30 20 40	0.82 0.87 0.79 0.90	635 667 613 689	1 1 <1 2	0.01 0.01 <0.01 0.02	29 31 28 33	620 660 600 680	28 30 26 32	0.04 0.04 0.03 0.05	<2 <2 <2 4	3 3 2 4	12 13 11 14	<20 <20 <20 40
W422484 DUP Target Range - Lower Bound Upper Bound																
W422504 DUP Target Range - Lower Bound Upper Bound		<1 <1 <1 2	0.06 0.06 0.05 0.07	10 10 <10 20	0.40 0.43 0.38 0.45	456 490 444 502	1 1 <1 2	0.01 0.01 <0.01 0.02	19 19 17 21	550 590 530 610	13 13 10 16	0.04 0.04 0.03 0.05	<2 <2 <2 4	2 2 <1 3	10 10 9 12	<20 <20 <20 40
W422515 DUP Target Range - Lower Bound Upper Bound																
W422553 DUP Target Range - Lower Bound Upper Bound																
W422558 DUP Target Range - Lower Bound Upper Bound		<1 <1 <1 2	0.07 0.07 0.06 0.08	20 20 <10 30	0.37 0.37 0.34 0.40	408 405 381 432	1 1 <1 2	0.01 0.01 <0.01 0.02	21 22 19 24	410 410 380 440	19 19 16 22	0.04 0.04 0.03 0.05	<2 <2 <2 4	2 2 <1 3	8 8 7 9	<20 <20 <20 40
W422587 DUP Target Range - Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
W422463 DUP Target Range - Lower Bound Upper Bound		DUPLICATES					
W422467 DUP Target Range - Lower Bound Upper Bound		0.05 0.05 0.04 0.06	<10 <10 <10 20	<10 <10 <10 20	55 58 53 60	<10 <10 <10 20	88 93 84 97
W422484 DUP Target Range - Lower Bound Upper Bound							
W422504 DUP Target Range - Lower Bound Upper Bound		0.07 0.07 0.06 0.08	<10 <10 <10 20	<10 <10 <10 20	60 64 58 66	<10 <10 <10 20	57 60 54 63
W422515 DUP Target Range - Lower Bound Upper Bound							
W422553 DUP Target Range - Lower Bound Upper Bound							
W422558 DUP Target Range - Lower Bound Upper Bound		0.06 0.06 0.05 0.07	<10 <10 <10 20	<10 <10 <10 20	49 50 46 53	<10 <10 <10 20	66 67 61 72
W422587 DUP Target Range - Lower Bound Upper Bound							



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Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	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
DUPLICATES																
W422594			0.2	1.25	86	<10	130	<0.5	<2	0.27	<0.5	8	27	21	2.40	<10
DUP			0.2	1.26	87	<10	130	<0.5	<2	0.27	<0.5	9	28	21	2.43	<10
Target Range - Lower Bound			<0.2	1.18	80	<10	110	<0.5	<2	0.25	<0.5	7	25	19	2.28	<10
Upper Bound			0.4	1.33	93	20	150	1.0	4	0.29	1.0	10	30	23	2.55	20
W422609		0.019														
DUP		0.016														
Target Range - Lower Bound		0.016														
Upper Bound		0.019														
W422629		0.018														
DUP		0.028														
Target Range - Lower Bound		0.021														
Upper Bound		0.025														
W422631		0.013														
DUP		0.013														
Target Range - Lower Bound		0.011														
Upper Bound		0.015														
W422632			<0.2	2.03	101	<10	100	0.6	<2	0.08	<0.5	7	27	16	2.75	10
DUP			<0.2	2.14	110	<10	110	0.6	2	0.09	<0.5	8	28	17	3.08	10
Target Range - Lower Bound			<0.2	1.97	98	<10	90	<0.5	<2	0.07	<0.5	6	25	15	2.76	<10
Upper Bound			0.4	2.20	113	20	120	1.0	4	0.10	1.0	9	30	18	3.07	20
W424752			<0.2	2.43	338	<10	200	0.7	2	0.25	0.5	12	38	24	3.02	10
DUP			<0.2	2.65	362	<10	210	0.7	2	0.28	0.5	14	41	27	3.29	10
Target Range - Lower Bound			<0.2	2.40	331	<10	180	<0.5	<2	0.24	<0.5	11	37	24	2.99	<10
Upper Bound			0.4	2.68	370	20	230	1.0	4	0.29	1.0	15	42	27	3.32	20
ORIGINAL			0.8	0.75	6	<10	50	<0.5	<2	1.65	<0.5	5	21	20	1.79	<10
DUP			0.9	0.76	5	<10	50	<0.5	<2	1.66	<0.5	6	22	20	1.81	<10
Target Range - Lower Bound			0.6	0.71	3	<10	40	<0.5	<2	1.56	<0.5	4	19	18	1.70	<10
Upper Bound			1.1	0.80	8	20	60	1.0	4	1.75	1.0	7	24	22	1.90	20



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Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
DUPLICATES																
W422594		<1	0.06	20	0.37	351	2	0.01	21	980	9	0.02	<2	3	19	<20
DUP		<1	0.06	20	0.37	352	2	0.01	22	980	8	0.02	<2	3	20	<20
Target Range - Lower Bound		<1	0.05	<10	0.34	329	<1	<0.01	19	920	6	<0.01	<2	2	18	<20
Upper Bound		2	0.07	30	0.40	374	3	0.02	24	1040	11	0.03	4	4	21	40
W422609																
DUP																
Target Range - Lower Bound																
Upper Bound																
W422629																
DUP																
Target Range - Lower Bound																
Upper Bound																
W422631																
DUP																
Target Range - Lower Bound																
Upper Bound																
W422632		1	0.08	10	0.37	382	1	0.02	14	590	12	0.06	2	1	10	<20
DUP		<1	0.08	10	0.39	403	1	0.02	14	630	12	0.07	<2	2	10	<20
Target Range - Lower Bound		<1	0.07	<10	0.35	368	<1	<0.01	12	570	9	0.05	<2	<1	9	<20
Upper Bound		2	0.09	20	0.41	417	2	0.03	16	650	15	0.08	4	2	12	40
W424752		<1	0.11	20	0.78	531	1	0.02	20	810	15	0.04	<2	4	26	<20
DUP		<1	0.12	20	0.85	566	1	0.03	43	870	14	0.05	<2	4	29	<20
Target Range - Lower Bound		<1	0.10	<10	0.76	516	<1	<0.01	29	790	12	0.03	<2	3	25	<20
Upper Bound		2	0.13	30	0.87	581	2	0.04	34	890	17	0.06	4	5	30	40
ORIGINAL		<1	0.26	30	0.36	294	2	0.03	7	370	8	0.32	<2	1	9	<20
DUP		<1	0.27	30	0.36	300	2	0.04	7	380	9	0.32	<2	1	9	<20
Target Range - Lower Bound		<1	0.24	20	0.33	277	<1	0.02	6	350	6	0.29	<2	<1	8	<20
Upper Bound		2	0.29	40	0.39	317	3	0.05	8	400	11	0.35	4	2	10	40



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Project: RC Property

QC CERTIFICATE OF ANALYSIS WH17184070

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
DUPLICATES							
W422594		0.05	<10	<10	43	10	58
DUP		0.05	<10	<10	43	10	59
Target Range - Lower Bound		0.04	<10	<10	40	<10	54
Upper Bound		0.06	20	20	46	20	63
W422609							
DUP							
Target Range - Lower Bound							
Upper Bound							
W422629							
DUP							
Target Range - Lower Bound							
Upper Bound							
W422631							
DUP							
Target Range - Lower Bound							
Upper Bound							
W422632		0.08	<10	<10	59	<10	63
DUP		0.09	<10	<10	63	<10	67
Target Range - Lower Bound		0.07	<10	<10	57	<10	60
Upper Bound		0.10	20	20	65	20	70
W424752		0.10	<10	<10	61	20	73
DUP		0.11	<10	<10	66	10	79
Target Range - Lower Bound		0.09	<10	<10	59	<10	70
Upper Bound		0.12	20	20	68	20	82
ORIGINAL		0.04	<10	<10	7	<10	43
DUP		0.04	<10	<10	7	<10	44
Target Range - Lower Bound		0.03	<10	<10	6	<10	39
Upper Bound		0.05	20	20	8	20	48



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-ICP41