



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Page: 1
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 4-SEP-2017
Account: PARIEX

QC CERTIFICATE WH17159421

Project: RC PROPERTY

This report is for 4 Rock samples submitted to our lab in Whitehorse, YT, Canada on 31-JUL-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-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

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



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Page: 2 - A
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 4-SEP-2017
Account: PARIEX

Project: RC PROPERTY

QC CERTIFICATE OF ANALYSIS WH17159421

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																
AMIS0099		0.097														
Target Range - Lower Bound		0.083														
Upper Bound		0.095														
CDN-PGMS25		0.443														
Target Range - Lower Bound		0.453														
Upper Bound		0.513														
G912-1		7.27														
Target Range - Lower Bound		6.85														
Upper Bound		7.73														
LEA-16		0.495														
Target Range - Lower Bound		0.470														
Upper Bound		0.532														
OGGeo08			20.2	2.24	119	<10	100	0.7	14	0.88	18.7	96	81	8520	5.18	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-45b			0.3	4.00	6	<10	150	0.6	<2	0.28	<0.5	71	621	443	14.80	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
BLANKS																
BLANK		<0.001														
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
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



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Page: 2 - B
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 4-SEP-2017
Account: PARIEX

Project: RC PROPERTY

QC CERTIFICATE OF ANALYSIS WH17159421

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																
AMIS0099																
Target Range - Lower Bound																
Upper Bound																
CDN-PGMS25																
Target Range - Lower Bound																
Upper Bound																
G912-1																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		1	1.07	30	0.96	393	881	0.30	8820	800	7350	2.86	21	6	67	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-45b		1	0.07	20	0.12	763	2	0.01	209	440	24	0.04	<2	40	17	<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
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		1	<0.01	<10	<0.01	<5	<1	<0.01	1	<10	<2	0.01	<2	<1	<1	<20
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



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Page: 2 - C
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 4-SEP-2017
Account: PARIEX

Project: RC PROPERTY

QC CERTIFICATE OF ANALYSIS WH17159421

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							
AMIS0099							
Target Range - Lower Bound							
Upper Bound							
CDN-PGMS25							
Target Range - Lower Bound							
Upper Bound							
G912-1							
Target Range - Lower Bound							
Upper Bound							
LEA-16							
Target Range - Lower Bound							
Upper Bound							
OGGeo08		0.31	<10	<10	80	<10	7150
Target Range - Lower Bound		0.27	<10	<10	70	<10	6500
Upper Bound		0.36	20	30	88	20	7950
OREAS-45b		0.22	<10	<10	210	<10	167
Target Range - Lower Bound		0.19	<10	<10	198	<10	154
Upper Bound		0.25	20	20	244	20	192
BLANKS							
BLANK							
Target Range - Lower Bound							
Upper Bound							
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



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

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

Page: 3 - A
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 4-SEP-2017
 Account: PARIEX

Project: RC PROPERTY

QC CERTIFICATE OF ANALYSIS WH17159421

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
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
		<0.001														
		<0.001														
		<0.001														
		0.002														
		0.002														
		<0.001														
		0.003														
W424954 DUP Target Range - Lower Bound Upper Bound			0.5 0.5 0.3 0.7	0.19 0.20 0.18 0.21	453 461 432 482	<10 <10 <10 20	10 10 <10 20	<0.5 <0.5 <0.5 1.0	6 5 3 8	<0.01 0.01 <0.01 0.02	<0.5 <0.5 <0.5 1.0	1 <1 <1 2	20 19 18 21	7 7 6 8	0.50 0.52 0.47 0.55	<10 <10 <10 20
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.001 <0.001 <0.001 0.002														



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Page: 3 - B
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 4-SEP-2017
Account: PARIEX

Project: RC PROPERTY

QC CERTIFICATE OF ANALYSIS WH17159421

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																
W424954 DUP Target Range - Lower Bound Upper Bound		1 1 <1 2	0.03 0.04 0.02 0.05	<10 <10 <10 20	<0.01 0.01 <0.01 0.02	23 25 18 30	<1 <1 <1 2	<0.01 <0.01 <0.01 0.02	2 2 <1 3	100 100 90 120	31 33 28 36	0.05 0.06 0.04 0.07	5 3 <2 6	1 1 <1 2	5 6 4 7	<20 <20 <20 40
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

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

Page: 3 - C
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 4-SEP-2017
 Account: PARIEX

Project: RC PROPERTY

QC CERTIFICATE OF ANALYSIS WH17159421

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							
W424954 DUP Target Range - Lower Bound Upper Bound		<0.01 <0.01 <0.01 0.02	<10 <10 <10 20	<10 <10 <10 20	2 2 <1 3	20 20 <10 30	23 28 22 29
ORIGINAL DUP Target Range - Lower Bound Upper Bound							



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 4-SEP-2017
Account: PARIEX

Project: RC PROPERTY

QC CERTIFICATE OF ANALYSIS WH17159421

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.		
	CRU-31	CRU-QC	LOG-21
	PUL-QC	SPL-21	WEI-21
			PUL-31
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-ICP21	ME-ICP41	