



ALS Canada Ltd.

2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

To: **ARCUS DEVELOPMENT GROUP**
510 WEST HASTINGS ST.
VANCOUVER BC V6B 1L8

Page: 1
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 17-OCT-2017
Account: DEVARC

CERTIFICATE WH17189961

Project: Dan Man

P.O. No.: 1006216-Batch 42

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-SEP-2017.

The following have access to data associated with this certificate:

IAN TALBOT

WILLIAM WENGZYNOWSK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
BAG-01	Bulk Master for Storage
FND-02	Find Sample for Addn Analysis
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41a	High Grade Aqua Regia ICP-AES	ICP-AES

To: **ARCUS DEVELOPMENT GROUP**
ATTN: IAN TALBOT
510 WEST HASTINGS ST.
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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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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41a Ag ppm	ME-ICP41a Al %	ME-ICP41a As ppm	ME-ICP41a Ba ppm	ME-ICP41a Be ppm	ME-ICP41a Bi ppm	ME-ICP41a Ca %	ME-ICP41a Cd ppm	ME-ICP41a Co ppm	ME-ICP41a Cr ppm	ME-ICP41a Cu ppm	ME-ICP41a Fe %	ME-ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
W636977		3.20	<0.001	<1	1.64	<10	70	<5	10	1.20	<5	7	74	33	2.22	<50
W636978		3.30	<0.001	<1	2.50	10	280	<5	<10	2.32	<5	16	85	14	3.29	<50
W636979		3.16	<0.001	1	2.10	10	180	<5	<10	2.23	<5	13	90	21	2.67	<50
W636980		3.86	<0.001	<1	0.41	10	<50	<5	<10	0.76	<5	<5	14	<5	0.53	<50
W636981		3.40	<0.001	<1	0.95	<10	<50	<5	10	1.02	<5	<5	35	80	1.28	<50
W636982		2.96	<0.001	<1	0.48	<10	<50	<5	10	0.58	<5	<5	20	<5	0.93	<50
W636983		3.12	0.004	<1	0.58	10	<50	<5	<10	1.00	<5	<5	24	25	1.32	<50
W636984		3.72	<0.001	<1	0.65	<10	<50	<5	10	1.34	<5	<5	14	<5	1.27	<50
W636985		3.52	<0.001	<1	0.67	<10	<50	<5	<10	1.05	<5	<5	21	<5	1.25	<50
W636986		3.28	<0.001	<1	0.54	<10	<50	<5	<10	0.75	<5	<5	27	<5	1.05	<50
W636987		2.68	<0.001	<1	0.37	<10	<50	<5	<10	0.69	<5	<5	20	7	1.08	<50
W636988		2.72	<0.001	1	0.93	<10	80	<5	<10	0.62	<5	<5	11	<5	2.02	<50
W636989		0.32	1.130	<1	0.63	240	110	<5	10	17.00	<5	<5	28	67	2.48	<50
W636990		2.72	<0.001	1	0.53	<10	<50	<5	10	0.28	<5	<5	8	<5	2.10	<50
W636991		2.74	<0.001	<1	0.76	<10	50	<5	<10	0.59	<5	<5	10	57	1.73	<50
W636992		3.54	<0.001	<1	0.84	10	<50	<5	10	0.68	<5	<5	8	<5	1.81	<50
W636993		3.04	<0.001	<1	1.55	10	200	<5	<10	0.70	<5	5	23	<5	2.93	<50
W636994		3.04	0.001	<1	1.23	10	110	<5	<10	0.88	<5	<5	104	15	2.19	<50
W636995		2.66	0.001	<1	1.91	20	180	<5	<10	3.72	<5	13	225	<5	4.43	<50
W636996		2.44	<0.001	<1	1.34	10	200	<5	<10	2.28	<5	9	146	<5	3.24	<50
W636997		2.50	<0.001	<1	1.69	10	130	<5	<10	1.56	<5	10	90	12	3.16	<50
W636998		2.52	<0.001	<1	1.26	20	190	<5	10	1.23	<5	5	25	<5	3.11	<50
W636999		2.34	<0.001	<1	1.98	40	250	<5	<10	1.34	<5	11	53	<5	4.72	<50
W637000		2.42	0.001	<1	2.65	10	210	<5	<10	3.89	<5	20	287	<5	5.09	<50
W637001		2.34	0.001	<1	3.40	<10	460	<5	<10	5.47	<5	30	240	10	5.32	<50
W637002		2.08	0.001	1	2.74	70	390	<5	<10	3.81	<5	31	132	<5	7.39	<50
W637003		2.56	0.001	<1	1.62	20	220	<5	<10	1.53	<5	12	59	23	3.27	<50
W637004		2.82	0.001	<1	1.45	30	190	<5	<10	2.51	<5	9	73	7	2.65	<50
W637005		3.02	0.971	<1	0.91	30	90	<5	<10	4.20	<5	<5	32	<5	2.60	<50
W637006		2.36	0.001	<1	<0.05	10	<50	<5	10	20.4	<5	<5	<5	<5	0.45	<50
W637007		3.20	0.003	<1	0.70	30	80	<5	10	1.09	<5	<5	15	<5	1.49	<50
W637008		2.86	<0.001	<1	0.74	30	<50	<5	10	0.62	<5	<5	11	<5	1.78	<50
W637009		2.80	<0.001	<1	0.99	30	100	<5	<10	0.96	<5	<5	35	<5	1.93	<50
W637010		3.40	0.027	<1	1.54	20	220	<5	<10	3.10	<5	13	135	113	2.23	<50
W637011		2.84	0.003	<1	1.71	10	120	<5	<10	3.62	<5	13	219	29	2.51	<50
W637012		3.00	0.002	<1	2.29	<10	380	<5	<10	1.35	<5	21	13	7	3.88	<50



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Page: 2 - B
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CERTIFICATE OF ANALYSIS WH17189961

Sample Description	Method Analyte Units LOR	ME-ICP41a Hg ppm 5	ME-ICP41a K % 0.05	ME-ICP41a La ppm 50	ME-ICP41a Mg % 0.05	ME-ICP41a Mn ppm 30	ME-ICP41a Mo ppm 5	ME-ICP41a Na % 0.05	ME-ICP41a Ni ppm 5	ME-ICP41a P ppm 50	ME-ICP41a Pb ppm 10	ME-ICP41a S % 0.05	ME-ICP41a Sb ppm 10	ME-ICP41a Sc ppm 5	ME-ICP41a Sr ppm 5	ME-ICP41a Th ppm 100
W636977		<5	1.06	<50	1.31	420	<5	<0.05	41	680	20	<0.05	<10	<5	38	<100
W636978		<5	1.65	<50	1.96	640	<5	<0.05	42	1070	<10	<0.05	<10	<5	81	<100
W636979		<5	1.43	<50	1.71	530	<5	<0.05	39	660	<10	<0.05	<10	<5	49	<100
W636980		<5	0.27	<50	<0.05	120	<5	0.07	<5	<50	<10	<0.05	<10	<5	19	<100
W636981		<5	0.51	<50	0.61	230	<5	0.05	13	140	<10	<0.05	<10	<5	28	<100
W636982		<5	0.17	<50	0.14	130	<5	0.06	<5	80	10	<0.05	10	<5	22	<100
W636983		<5	0.13	<50	0.27	200	<5	0.06	5	80	<10	<0.05	<10	<5	22	<100
W636984		<5	0.10	<50	0.32	270	<5	0.05	<5	130	10	<0.05	<10	<5	26	<100
W636985		<5	0.14	<50	0.36	230	<5	0.06	5	100	<10	<0.05	<10	<5	32	<100
W636986		<5	0.23	<50	0.21	160	<5	0.06	<5	90	<10	<0.05	<10	<5	25	<100
W636987		<5	0.12	<50	0.10	120	<5	0.08	<5	60	<10	<0.05	<10	<5	17	<100
W636988		7	0.23	<50	0.40	260	<5	0.06	<5	780	<10	<0.05	10	7	46	<100
W636989		6	0.21	<50	2.97	1670	66	<0.05	76	1060	30	0.83	<10	<5	188	<100
W636990		<5	0.10	<50	0.18	130	<5	0.09	<5	410	<10	<0.05	<10	6	17	<100
W636991		5	0.15	<50	0.27	220	<5	0.10	<5	660	<10	<0.05	<10	6	37	<100
W636992		<5	0.16	<50	0.34	250	<5	0.09	<5	500	<10	<0.05	<10	6	49	<100
W636993		<5	0.68	<50	1.01	400	<5	0.08	<5	730	<10	<0.05	<10	6	36	<100
W636994		<5	0.27	<50	0.87	330	<5	0.08	31	930	<10	<0.05	10	6	43	<100
W636995		<5	1.04	<50	1.41	890	<5	<0.05	59	950	20	<0.05	<10	19	52	<100
W636996		<5	0.71	<50	1.05	790	<5	<0.05	44	600	20	<0.05	<10	15	37	<100
W636997		<5	0.46	<50	0.90	480	<5	0.05	36	620	<10	<0.05	10	11	47	<100
W636998		<5	0.57	<50	0.50	410	<5	<0.05	10	620	20	<0.05	<10	11	30	<100
W636999		<5	1.08	<50	1.13	680	<5	<0.05	20	930	20	<0.05	10	17	47	<100
W637000		<5	1.59	<50	2.48	950	<5	<0.05	81	1120	10	<0.05	<10	24	109	<100
W637001		<5	1.87	<50	3.12	970	<5	<0.05	93	950	10	<0.05	<10	23	85	<100
W637002		<5	1.10	<50	1.85	1480	<5	<0.05	48	1490	20	<0.05	10	26	33	<100
W637003		<5	0.55	<50	0.83	440	<5	<0.05	25	720	20	<0.05	10	12	29	<100
W637004		5	0.42	<50	0.72	370	<5	<0.05	25	490	10	<0.05	<10	11	41	<100
W637005		<5	0.53	<50	0.37	450	<5	<0.05	11	290	40	<0.05	10	9	17	<100
W637006		<5	<0.05	<50	11.40	200	<5	<0.05	<5	170	<10	<0.05	<10	<5	39	<100
W637007		<5	0.19	<50	0.22	320	<5	0.06	6	200	10	<0.05	10	10	13	<100
W637008		<5	0.14	<50	0.15	120	<5	0.05	<5	200	<10	<0.05	10	8	17	<100
W637009		6	0.20	<50	0.44	220	<5	0.05	9	170	10	<0.05	<10	10	19	<100
W637010		6	0.36	<50	1.37	400	<5	0.10	38	1240	<10	<0.05	<10	7	63	<100
W637011		<5	0.37	<50	1.10	380	<5	<0.05	56	780	10	<0.05	10	12	38	<100
W637012		<5	0.77	<50	1.33	490	<5	<0.05	8	1180	<10	<0.05	<10	9	38	<100



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Page: 2 - C
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
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CERTIFICATE OF ANALYSIS WH17189961

Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.05	50	50	5	50	10
W636977		0.14	<50	<50	39	<50	30
W636978		0.26	<50	<50	77	<50	50
W636979		0.18	<50	<50	53	<50	40
W636980		<0.05	<50	<50	<5	<50	<10
W636981		0.07	<50	<50	17	<50	10
W636982		<0.05	<50	<50	8	<50	10
W636983		<0.05	<50	<50	13	<50	10
W636984		<0.05	<50	<50	17	<50	10
W636985		<0.05	<50	<50	17	<50	10
W636986		<0.05	<50	<50	9	<50	10
W636987		<0.05	<50	<50	5	<50	<10
W636988		0.13	<50	<50	8	<50	10
W636989		<0.05	<50	<50	174	<50	430
W636990		0.05	<50	<50	<5	<50	10
W636991		0.11	<50	<50	5	<50	10
W636992		0.11	<50	<50	7	<50	10
W636993		0.17	<50	<50	46	<50	30
W636994		0.14	<50	<50	32	<50	20
W636995		0.13	<50	<50	62	<50	150
W636996		0.10	<50	<50	51	<50	50
W636997		0.11	<50	<50	66	<50	60
W636998		0.07	<50	<50	46	<50	70
W636999		0.15	<50	<50	87	<50	130
W637000		0.24	<50	<50	91	<50	100
W637001		0.28	<50	<50	133	<50	110
W637002		0.20	<50	<50	162	<50	190
W637003		0.08	<50	<50	75	<50	80
W637004		0.10	<50	<50	42	<50	40
W637005		<0.05	<50	<50	24	<50	140
W637006		<0.05	<50	<50	<5	<50	10
W637007		<0.05	<50	<50	13	<50	20
W637008		<0.05	<50	<50	11	<50	10
W637009		<0.05	<50	<50	16	<50	10
W637010		0.26	<50	<50	55	<50	30
W637011		0.09	<50	<50	64	<50	70
W637012		0.13	<50	<50	91	<50	60



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Page: Appendix 1
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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21

BAG-01

CRU-31

FND-02

LOG-22

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21