



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

Page: 1
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 7-OCT-2017
Account: DEVARC

CERTIFICATE WH17183035

Project: Dan Man

P.O. No.: 1006216-Batch 6

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-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
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
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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Page: 2 - A
Total # Pages: 2 (A - C)
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CERTIFICATE OF ANALYSIS WH17183035

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
W590181		3.94	0.005	<1	0.36	30	<50	<5	<10	<0.05	<5	<5	8	7	0.79	<50
W590182		4.10	<0.001	<1	0.28	10	<50	<5	20	<0.05	<5	<5	8	11	0.65	<50
W590183		3.64	<0.001	<1	0.30	10	<50	<5	<10	<0.05	<5	<5	10	5	0.64	<50
W590184		3.86	<0.001	<1	0.36	20	<50	<5	<10	<0.05	<5	<5	8	8	0.68	<50
W590185		3.54	<0.001	<1	0.29	10	<50	<5	<10	<0.05	<5	<5	8	<5	0.46	<50
W590186		3.46	<0.001	<1	0.61	10	<50	<5	<10	0.06	<5	<5	11	<5	1.35	<50
W590187		3.68	<0.001	<1	0.33	10	<50	<5	<10	<0.05	<5	<5	10	<5	0.82	<50
W590188		3.52	<0.001	<1	0.27	10	<50	<5	10	<0.05	<5	<5	10	<5	0.59	<50
W590189		3.58	0.002	<1	0.35	10	<50	<5	<10	<0.05	<5	<5	12	<5	0.54	<50
W590190		3.74	0.004	<1	0.39	30	<50	<5	10	<0.05	<5	<5	8	<5	0.68	<50
W590191		3.64	0.009	<1	0.31	50	<50	<5	<10	<0.05	<5	<5	10	<5	0.73	<50
W590192		3.70	0.513	<1	0.46	170	<50	<5	<10	<0.05	<5	<5	9	<5	0.90	<50
W590193		3.20	0.007	<1	0.88	90	70	<5	10	0.13	<5	6	46	7	2.36	<50
W590194		3.86	0.065	<1	0.31	40	<50	<5	10	<0.05	<5	<5	11	8	0.89	<50
W590195		3.88	0.009	<1	0.42	20	<50	<5	<10	<0.05	<5	<5	10	<5	0.81	<50
W590196		3.76	0.016	<1	0.34	30	<50	<5	<10	<0.05	<5	<5	11	<5	0.61	<50
W590197		3.74	0.009	<1	0.39	10	<50	<5	10	<0.05	<5	<5	10	<5	0.62	<50
W590198		0.32	1.465	28	1.22	540	650	<5	<10	0.26	31	10	13	135	5.39	<50
W590199		3.52	0.004	<1	0.36	10	<50	<5	10	<0.05	<5	<5	10	7	0.68	<50
W590200		3.52	0.004	<1	0.35	10	<50	<5	<10	<0.05	<5	<5	9	5	0.61	<50
W590201		2.68	0.010	<1	0.42	50	<50	<5	10	<0.05	<5	<5	12	16	1.09	<50
W590202		2.92	0.003	1	0.39	10	<50	<5	<10	<0.05	<5	<5	10	6	0.83	<50
W590203		3.26	0.011	<1	0.33	20	<50	<5	10	<0.05	<5	<5	9	<5	0.66	<50
W590204		3.58	0.005	<1	0.33	<10	<50	<5	<10	<0.05	<5	<5	9	<5	0.57	<50
W590205		2.54	0.004	<1	1.04	30	60	<5	<10	0.08	<5	<5	7	<5	1.66	<50
W590206		3.02	0.051	<1	0.59	80	50	<5	10	<0.05	<5	<5	11	8	1.01	<50
W590207		2.58	0.064	<1	0.37	30	<50	<5	<10	<0.05	<5	<5	8	6	0.89	<50
W590208		2.80	0.020	<1	0.39	20	<50	<5	10	<0.05	<5	<5	6	14	1.00	<50
W590209		2.98	0.010	<1	0.40	30	80	<5	10	<0.05	<5	<5	20	33	1.23	<50
W590210		2.68	0.002	<1	0.35	40	60	<5	10	<0.05	<5	6	11	11	0.99	<50
W590211		2.40	0.003	<1	<0.05	30	<50	<5	<10	20.3	<5	<5	<5	<5	0.41	<50
W590212		2.34	0.003	<1	0.58	30	100	<5	10	0.11	<5	7	27	29	1.74	<50
W590213		2.76	0.004	<1	0.33	20	<50	<5	<10	<0.05	<5	<5	9	27	0.66	<50
W590214		2.80	0.002	<1	0.41	20	60	<5	<10	0.11	<5	<5	10	34	1.25	<50
W590215		3.12	0.001	<1	0.44	20	60	<5	<10	0.06	<5	<5	8	41	0.90	<50
W590216		2.58	0.038	<1	0.44	40	60	<5	10	<0.05	<5	<5	7	11	0.83	<50



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Page: 2 - B
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CERTIFICATE OF ANALYSIS WH17183035

Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5	ppm 100
W590181		<5	0.18	<50	<0.05	170	<5	<0.05	<5	<50	10	<0.05	10	<5	11	<100
W590182		<5	0.17	<50	<0.05	40	19	<0.05	<5	<50	40	<0.05	10	<5	5	<100
W590183		<5	0.17	<50	<0.05	90	15	<0.05	<5	<50	10	<0.05	<10	<5	<5	<100
W590184		<5	0.18	<50	<0.05	100	9	<0.05	<5	<50	10	<0.05	<10	<5	<5	<100
W590185		<5	0.15	<50	<0.05	40	7	<0.05	<5	<50	<10	<0.05	10	<5	<5	<100
W590186		<5	0.24	<50	0.13	180	<5	<0.05	<5	140	10	<0.05	30	<5	28	<100
W590187		<5	0.21	<50	<0.05	80	<5	0.05	<5	<50	<10	<0.05	10	<5	<5	<100
W590188		<5	0.19	<50	<0.05	50	<5	<0.05	<5	<50	<10	<0.05	10	<5	5	<100
W590189		<5	0.19	<50	<0.05	90	<5	0.05	<5	<50	10	<0.05	<10	<5	7	<100
W590190		<5	0.20	<50	<0.05	200	<5	<0.05	<5	50	10	<0.05	10	<5	10	<100
W590191		<5	0.17	<50	<0.05	200	<5	<0.05	<5	50	10	<0.05	10	<5	9	<100
W590192		<5	0.30	<50	<0.05	130	<5	<0.05	<5	60	50	<0.05	10	<5	14	<100
W590193		<5	0.37	<50	0.28	380	<5	<0.05	9	430	20	<0.05	20	8	37	<100
W590194		<5	0.16	<50	<0.05	100	<5	<0.05	7	60	10	<0.05	10	<5	13	<100
W590195		<5	0.24	<50	<0.05	110	<5	0.05	<5	60	10	<0.05	10	<5	10	<100
W590196		<5	0.21	<50	<0.05	50	<5	<0.05	5	50	<10	<0.05	10	<5	9	<100
W590197		<5	0.19	<50	<0.05	70	<5	<0.05	<5	50	10	<0.05	10	<5	9	<100
W590198		<5	0.51	<50	0.10	1030	<5	<0.05	<5	1450	3420	0.42	20	5	167	<100
W590199		<5	0.19	<50	<0.05	80	<5	0.06	<5	<50	10	<0.05	<10	<5	<5	<100
W590200		<5	0.18	<50	<0.05	60	<5	<0.05	<5	<50	20	<0.05	10	<5	7	<100
W590201		<5	0.23	<50	0.05	200	<5	<0.05	<5	80	10	<0.05	10	<5	24	<100
W590202		<5	0.20	<50	<0.05	190	<5	<0.05	<5	50	10	<0.05	<10	<5	9	<100
W590203		<5	0.17	<50	<0.05	100	<5	<0.05	<5	<50	10	<0.05	10	<5	7	<100
W590204		<5	0.16	<50	<0.05	70	<5	<0.05	<5	<50	10	<0.05	<10	<5	7	<100
W590205		<5	0.42	<50	0.12	280	<5	<0.05	<5	110	10	<0.05	20	<5	15	<100
W590206		<5	0.17	<50	<0.05	200	<5	<0.05	<5	100	30	<0.05	<10	<5	28	<100
W590207		<5	0.15	<50	<0.05	170	<5	<0.05	<5	90	10	<0.05	30	<5	13	<100
W590208		<5	0.15	<50	<0.05	220	<5	<0.05	5	120	10	<0.05	20	<5	11	<100
W590209		<5	0.18	<50	<0.05	360	<5	<0.05	12	140	20	<0.05	10	<5	14	<100
W590210		<5	0.15	<50	<0.05	320	<5	<0.05	14	150	10	<0.05	10	<5	12	<100
W590211		<5	<0.05	<50	12.10	190	<5	<0.05	<5	190	10	<0.05	20	<5	48	<100
W590212		<5	0.20	<50	0.09	480	<5	<0.05	27	220	20	<0.05	20	<5	20	<100
W590213		<5	0.17	<50	<0.05	120	<5	<0.05	6	80	10	<0.05	20	<5	16	<100
W590214		<5	0.21	<50	0.07	270	<5	<0.05	7	180	10	<0.05	10	<5	16	<100
W590215		<5	0.24	<50	0.05	200	<5	<0.05	5	180	<10	<0.05	<10	<5	14	<100
W590216		<5	0.14	<50	<0.05	210	<5	<0.05	<5	110	10	<0.05	10	<5	18	<100



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Page: 2 - C
Total # Pages: 2 (A - C)
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CERTIFICATE OF ANALYSIS WH17183035

Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
W590181		<0.05	<50	<50	<5	<50	10
W590182		<0.05	<50	<50	<5	<50	10
W590183		<0.05	<50	<50	<5	<50	10
W590184		<0.05	<50	<50	<5	<50	10
W590185		<0.05	<50	<50	<5	<50	10
W590186		<0.05	<50	<50	11	<50	20
W590187		<0.05	<50	<50	<5	<50	10
W590188		<0.05	<50	<50	<5	<50	10
W590189		<0.05	<50	<50	<5	<50	10
W590190		<0.05	<50	<50	<5	<50	10
W590191		<0.05	<50	<50	<5	<50	10
W590192		<0.05	<50	<50	<5	<50	10
W590193		<0.05	<50	<50	49	<50	30
W590194		<0.05	<50	<50	<5	<50	10
W590195		<0.05	<50	<50	<5	<50	10
W590196		<0.05	<50	<50	<5	<50	10
W590197		<0.05	<50	<50	<5	<50	10
W590198		<0.05	<50	<50	57	<50	2310
W590199		<0.05	<50	<50	<5	<50	10
W590200		<0.05	<50	<50	<5	<50	10
W590201		<0.05	<50	<50	<5	<50	10
W590202		<0.05	<50	<50	<5	<50	10
W590203		<0.05	<50	<50	<5	<50	10
W590204		<0.05	<50	<50	<5	<50	<10
W590205		<0.05	<50	<50	7	<50	20
W590206		<0.05	<50	<50	<5	<50	30
W590207		<0.05	<50	<50	<5	<50	10
W590208		<0.05	<50	<50	<5	<50	10
W590209		<0.05	<50	<50	5	<50	10
W590210		<0.05	<50	<50	<5	<50	10
W590211		<0.05	<50	<50	<5	<50	10
W590212		<0.05	<50	<50	13	<50	30
W590213		<0.05	<50	<50	<5	<50	10
W590214		<0.05	<50	<50	<5	<50	10
W590215		<0.05	<50	<50	<5	<50	10
W590216		<0.05	<50	<50	<5	<50	10



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Page: Appendix 1
Total # Appendix Pages: 1
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CERTIFICATE OF ANALYSIS WH17183035

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

CRU-QC

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21