



ALS Canada Ltd.

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www.alsglobal.com/geochemistry

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

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Plus Appendix Pages
Finalized Date: 9-OCT-2017
Account: DEVARC

CERTIFICATE WH17183019

Project: Dan Man

P.O. No.: 1006216-Batch 3

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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CERTIFICATE OF ANALYSIS WH17183019

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
W590037		2.06	<0.001	<1	0.70	10	50	<5	10	0.10	<5	<5	18	<5	1.51	<50
W590038		2.00	0.001	<1	0.59	10	80	<5	10	0.07	<5	<5	10	<5	1.32	<50
W590039		1.86	0.001	<1	1.08	10	<50	<5	<10	0.13	<5	5	10	7	1.99	<50
W590040		2.24	0.010	<1	0.56	20	<50	<5	<10	0.07	<5	<5	11	<5	1.05	<50
W590041		2.30	0.002	<1	0.60	20	<50	<5	<10	<0.05	<5	<5	9	<5	1.05	<50
W590042		1.96	0.001	<1	0.45	10	<50	<5	10	<0.05	<5	<5	10	<5	0.78	<50
W590043		2.06	<0.001	<1	0.44	10	<50	<5	10	<0.05	<5	<5	12	<5	0.76	<50
W590044		2.30	0.001	1	0.48	30	60	<5	<10	<0.05	<5	<5	8	7	1.01	<50
W590045		1.92	<0.001	<1	0.66	<10	<50	<5	<10	<0.05	<5	<5	10	<5	1.02	<50
W590046		1.84	0.002	<1	0.62	<10	<50	<5	<10	0.06	<5	<5	8	<5	1.13	<50
W590047		2.38	0.002	<1	<0.05	10	<50	<5	<10	20.6	<5	<5	<5	<5	0.44	<50
W590048		1.98	<0.001	<1	0.56	20	<50	<5	<10	0.08	<5	<5	7	<5	1.00	<50
W590049		2.00	0.001	<1	0.67	20	<50	<5	<10	0.08	<5	<5	27	8	1.19	<50
W590050		0.30	1.345	31	1.23	540	650	<5	10	0.27	31	<5	13	138	5.42	<50
W590051		1.44	0.091	<1	1.29	150	110	<5	10	0.28	<5	15	68	9	3.33	<50
W590052		1.42	0.006	<1	0.50	20	50	<5	<10	0.08	<5	<5	9	5	0.96	<50
W590053		1.40	0.142	<1	0.36	20	<50	<5	<10	<0.05	<5	<5	12	6	0.80	<50
W590054		1.14	0.001	<1	0.34	10	<50	<5	20	<0.05	<5	<5	10	<5	0.72	<50
W590055		1.64	0.002	<1	1.16	30	90	<5	<10	0.27	<5	9	7	7	4.17	<50
W590056		1.84	<0.001	<1	0.35	20	<50	<5	<10	0.06	<5	<5	9	5	0.96	<50
W590057		1.62	0.020	<1	0.33	10	<50	<5	10	<0.05	<5	<5	11	5	0.71	<50
W590058		1.64	0.018	<1	0.78	170	130	<5	10	0.14	<5	8	11	7	1.96	<50
W590059		1.92	<0.001	<1	1.79	<10	120	<5	<10	4.66	<5	24	226	24	3.31	<50
W590060		1.58	<0.001	<1	2.63	<10	260	<5	10	4.00	<5	26	182	28	3.32	<50
W590061		1.78	<0.001	1	0.92	10	<50	<5	<10	0.31	<5	7	40	12	1.82	<50
W590062		2.02	<0.001	<1	0.57	10	<50	<5	10	0.11	<5	<5	12	6	1.31	<50
W590063		1.64	<0.001	<1	1.81	10	80	<5	10	0.65	<5	15	14	10	3.10	<50
W590064		1.72	0.002	<1	2.78	<10	100	<5	<10	1.12	<5	27	8	19	4.71	<50
W590065		2.82	0.002	1	1.04	<10	60	<5	<10	0.33	<5	9	14	13	2.36	<50
W590066		2.24	<0.001	1	0.41	<10	<50	<5	<10	0.31	<5	<5	11	<5	0.95	<50
W590067		2.84	<0.001	<1	0.26	<10	<50	<5	<10	<0.05	<5	<5	15	<5	0.78	<50
W590068		2.30	<0.001	<1	2.64	<10	100	<5	<10	0.78	<5	19	22	21	4.45	<50
W590069		2.80	0.001	1	0.31	<10	<50	<5	<10	<0.05	<5	<5	13	<5	0.72	<50
W590070		2.30	<0.001	<1	0.66	<10	<50	<5	<10	0.11	<5	<5	23	5	1.24	<50
W590071		2.84	<0.001	1	0.38	10	60	<5	<10	0.05	<5	<5	16	<5	1.02	<50
W590072		2.56	0.001	1	1.06	20	50	<5	<10	0.17	<5	9	67	10	2.23	<50



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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
W590037		<5	0.28	<50	0.12	420	<5	<0.05	7	190	20	<0.05	<10	<5	13	<100
W590038		<5	0.19	<50	0.06	600	<5	<0.05	5	110	10	<0.05	<10	<5	13	<100
W590039		<5	0.35	<50	0.21	210	<5	<0.05	8	480	10	<0.05	10	<5	32	<100
W590040		<5	0.20	<50	0.10	240	<5	<0.05	<5	140	<10	<0.05	10	<5	20	<100
W590041		<5	0.23	<50	0.06	250	<5	<0.05	<5	120	10	<0.05	<10	<5	20	<100
W590042		<5	0.20	<50	<0.05	200	<5	<0.05	<5	80	10	<0.05	<10	<5	12	<100
W590043		<5	0.20	<50	<0.05	150	<5	<0.05	<5	70	10	<0.05	20	<5	7	<100
W590044		<5	0.20	<50	<0.05	310	<5	<0.05	<5	110	10	<0.05	10	<5	15	<100
W590045		<5	0.30	<50	0.10	210	<5	<0.05	<5	120	10	<0.05	<10	<5	18	<100
W590046		<5	0.27	<50	0.11	340	<5	<0.05	6	140	20	<0.05	<10	<5	15	<100
W590047		<5	<0.05	<50	12.15	200	<5	<0.05	<5	190	<10	<0.05	10	<5	45	<100
W590048		<5	0.18	<50	0.09	220	<5	<0.05	8	100	10	<0.05	10	<5	13	<100
W590049		<5	0.24	<50	0.12	280	<5	<0.05	11	170	10	<0.05	<10	<5	13	<100
W590050		<5	0.52	<50	0.10	1030	<5	<0.05	5	1500	3430	0.46	30	5	169	<100
W590051		<5	0.46	<50	0.49	990	<5	<0.05	23	690	20	<0.05	20	8	49	<100
W590052		<5	0.19	<50	0.07	390	<5	<0.05	<5	90	20	<0.05	10	<5	12	<100
W590053		<5	0.15	<50	<0.05	160	<5	<0.05	<5	70	20	<0.05	20	<5	10	<100
W590054		<5	0.17	<50	<0.05	120	<5	<0.05	<5	60	<10	<0.05	10	<5	8	<100
W590055		<5	0.47	<50	0.33	490	<5	<0.05	<5	780	20	<0.05	10	5	27	<100
W590056		<5	0.16	<50	<0.05	200	<5	<0.05	<5	130	10	<0.05	10	<5	16	<100
W590057		<5	0.21	<50	<0.05	170	<5	<0.05	6	50	10	<0.05	<10	<5	8	<100
W590058		<5	0.44	<50	0.34	360	<5	<0.05	<5	390	<10	<0.05	10	<5	14	<100
W590059		<5	0.58	<50	1.27	610	<5	<0.05	45	810	10	0.06	<10	10	156	<100
W590060		<5	1.51	<50	2.14	640	<5	<0.05	53	680	<10	0.05	<10	7	71	<100
W590061		<5	0.36	<50	0.35	310	<5	<0.05	12	440	20	<0.05	20	7	22	<100
W590062		<5	0.33	<50	0.22	210	<5	<0.05	6	320	10	<0.05	<10	<5	10	<100
W590063		<5	1.04	<50	1.11	560	<5	<0.05	<5	900	10	<0.05	10	5	50	<100
W590064		<5	1.89	<50	2.07	990	<5	<0.05	6	1510	20	<0.05	<10	5	95	<100
W590065		<5	0.54	<50	0.55	550	<5	<0.05	9	680	30	<0.05	10	<5	41	<100
W590066		<5	0.28	<50	0.11	280	<5	<0.05	<5	180	10	<0.05	<10	<5	16	<100
W590067		<5	0.15	<50	<0.05	220	<5	0.05	5	100	20	<0.05	<10	<5	10	<100
W590068		<5	1.53	<50	1.52	810	<5	<0.05	15	1820	20	<0.05	10	9	67	<100
W590069		<5	0.22	<50	<0.05	210	<5	0.05	<5	80	20	<0.05	10	<5	7	<100
W590070		<5	0.38	<50	0.31	260	<5	<0.05	<5	270	40	<0.05	<10	<5	14	<100
W590071		<5	0.24	<50	0.06	450	<5	<0.05	5	130	30	<0.05	<10	<5	14	<100
W590072		<5	0.59	<50	0.54	520	<5	<0.05	16	450	10	<0.05	10	6	13	<100



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CERTIFICATE OF ANALYSIS WH17183019

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
W590037		<0.05	<50	<50	8	<50	30
W590038		<0.05	<50	<50	5	<50	30
W590039		<0.05	<50	<50	30	<50	40
W590040		<0.05	<50	<50	5	<50	20
W590041		<0.05	<50	<50	<5	<50	20
W590042		<0.05	<50	<50	<5	<50	20
W590043		<0.05	<50	<50	<5	<50	10
W590044		<0.05	<50	<50	<5	<50	30
W590045		<0.05	<50	<50	<5	<50	30
W590046		<0.05	<50	<50	<5	<50	30
W590047		<0.05	<50	<50	<5	<50	10
W590048		<0.05	<50	<50	5	<50	20
W590049		<0.05	<50	<50	7	<50	20
W590050		<0.05	<50	<50	60	<50	2310
W590051		<0.05	<50	<50	52	<50	70
W590052		<0.05	<50	<50	<5	<50	10
W590053		<0.05	<50	<50	<5	<50	10
W590054		<0.05	<50	<50	<5	<50	10
W590055		<0.05	<50	<50	71	<50	50
W590056		<0.05	<50	<50	5	<50	10
W590057		<0.05	<50	<50	<5	<50	10
W590058		<0.05	<50	<50	37	<50	30
W590059		0.27	<50	<50	91	<50	50
W590060		0.35	<50	<50	69	<50	50
W590061		<0.05	<50	<50	41	<50	20
W590062		<0.05	<50	<50	21	<50	20
W590063		0.12	<50	<50	74	<50	50
W590064		0.29	<50	<50	111	<50	100
W590065		0.06	<50	<50	48	<50	40
W590066		<0.05	<50	<50	8	<50	30
W590067		<0.05	<50	<50	<5	<50	20
W590068		0.23	<50	<50	96	<50	100
W590069		<0.05	<50	<50	<5	<50	10
W590070		<0.05	<50	<50	20	<50	20
W590071		<0.05	<50	<50	6	<50	20
W590072		<0.05	<50	<50	39	<50	40



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CERTIFICATE OF ANALYSIS WH17183019

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