



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

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Plus Appendix Pages
Finalized Date: 20-OCT-2017
Account: DEVARC

CERTIFICATE WH17189969

Project: Dan Man

P.O. No.: 1006216-Batch 45

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
LOG-23	Pulp Login - Rcvd with Barcode
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 WH17189969

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
W637085		3.74	0.008	<1	0.88	30	50	<5	<10	3.02	<5	12	78	11	2.85	<50
W637086		2.54	0.168	<1	1.04	810	70	<5	10	4.37	<5	15	32	14	3.12	<50
W637087		2.54	1.765	<1	0.99	880	110	<5	<10	0.85	<5	16	46	20	3.11	<50
W637088		2.24	0.005	<1	<0.05	<10	<50	<5	<10	21.0	<5	<5	<5	<5	0.45	<50
W637089		2.62	0.070	1	0.74	80	<50	<5	<10	0.26	<5	<5	12	12	0.96	<50
W637090		2.78	0.051	<1	1.24	170	90	<5	<10	3.35	<5	7	36	37	2.30	<50
W637091		3.12	0.736	<1	0.80	1910	80	<5	10	0.25	<5	5	13	7	1.96	<50
W637092		2.36	0.707	<1	0.78	640	70	<5	<10	1.34	<5	<5	14	5	1.50	<50
W637093		2.46	0.268	<1	1.11	330	140	<5	10	2.29	<5	8	22	<5	2.14	<50
W637094		2.44	0.205	<1	2.03	250	260	<5	<10	2.76	<5	18	16	11	3.85	<50
W637095		3.02	0.046	<1	1.85	40	120	<5	<10	2.54	<5	10	70	15	2.63	<50
W637096		3.00	0.012	<1	1.70	30	50	<5	<10	2.28	<5	7	60	18	2.58	<50
W637097		2.64	0.008	<1	1.68	20	230	<5	<10	2.64	<5	5	94	11	3.26	<50
W637098		3.16	0.010	<1	1.56	30	180	<5	<10	1.99	<5	6	51	<5	3.03	<50
W637099		2.60	0.009	<1	1.44	20	160	<5	<10	2.80	<5	<5	40	<5	3.43	<50
W637100		2.64	0.004	<1	1.45	10	180	<5	10	3.88	<5	5	45	<5	3.90	<50
K294001		2.64	0.005	<1	1.42	<10	190	<5	<10	3.91	<5	11	54	13	4.23	<50
K294002		2.56	<0.001	<1	3.40	<10	310	<5	<10	0.60	<5	25	43	13	6.22	<50
K294003		3.46	0.001	<1	0.36	<10	70	<5	<10	0.06	<5	<5	6	<5	0.79	<50
K294004		3.02	0.003	<1	0.23	10	<50	<5	10	<0.05	<5	<5	5	<5	0.58	<50
K294005		2.92	<0.001	<1	0.28	<10	<50	<5	<10	<0.05	<5	<5	5	<5	0.77	<50
K294006		2.92	<0.001	<1	0.28	<10	<50	<5	<10	<0.05	<5	<5	<5	<5	0.80	<50
K294007		4.22	<0.001	<1	0.29	<10	<50	<5	<10	<0.05	<5	<5	6	<5	0.76	<50
K294008		3.52	0.001	<1	0.32	<10	<50	<5	<10	<0.05	<5	<5	<5	<5	0.66	<50
K294009		3.16	<0.001	<1	0.30	<10	<50	<5	<10	<0.05	<5	<5	<5	<5	0.65	<50
K294010		4.46	<0.001	<1	0.25	<10	<50	<5	10	<0.05	<5	<5	<5	<5	0.69	<50
K294011		3.68	<0.001	1	0.30	<10	<50	<5	<10	<0.05	<5	<5	5	<5	0.73	<50
K294012		2.38	<0.001	<1	1.81	<10	220	<5	<10	0.28	<5	5	9	<5	3.47	<50
K294013		3.00	<0.001	<1	1.07	<10	160	<5	<10	0.26	<5	<5	8	<5	2.06	<50
K294014		0.32	1.165	<1	0.57	240	110	<5	<10	17.55	<5	<5	23	68	2.51	<50
K294015		2.50	0.002	<1	0.34	<10	<50	<5	<10	0.05	<5	<5	<5	<5	0.61	<50
K294016		2.28	<0.001	<1	0.33	<10	<50	<5	<10	<0.05	<5	<5	6	<5	0.75	<50
K294017		2.56	<0.001	<1	0.38	<10	<50	<5	<10	0.05	<5	<5	8	<5	0.86	<50
K294018		2.56	<0.001	<1	2.48	<10	230	<5	<10	0.59	<5	15	21	<5	3.83	<50
K294019		3.22	0.001	<1	0.36	10	60	<5	<10	0.06	<5	<5	13	<5	1.33	<50
K294020		2.82	<0.001	<1	0.81	<10	80	<5	<10	0.11	<5	<5	21	<5	1.48	<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
W637085		<5	0.24	<50	0.20	400	6	<0.05	32	370	<10	<0.05	10	9	31	<100
W637086		<5	0.45	<50	0.17	620	<5	<0.05	39	460	70	<0.05	30	7	50	<100
W637087		<5	0.39	<50	0.17	690	<5	<0.05	41	240	30	<0.05	40	9	68	<100
W637088		<5	<0.05	<50	11.85	200	<5	<0.05	<5	150	<10	<0.05	<10	<5	37	<100
W637089		<5	0.16	<50	0.09	130	<5	<0.05	5	80	40	<0.05	10	<5	33	<100
W637090		<5	0.45	<50	0.36	540	<5	<0.05	14	270	70	<0.05	30	6	70	<100
W637091		<5	0.39	<50	0.14	240	<5	<0.05	5	220	30	<0.05	20	5	90	<100
W637092		<5	0.26	<50	0.19	230	<5	<0.05	<5	200	10	<0.05	10	<5	41	<100
W637093		<5	0.42	<50	0.41	440	<5	<0.05	9	500	10	<0.05	20	7	48	<100
W637094		<5	0.92	<50	1.23	630	<5	<0.05	<5	1010	10	0.11	10	11	99	<100
W637095		<5	0.76	<50	1.41	560	<5	<0.05	30	490	20	<0.05	20	8	82	<100
W637096		<5	0.63	<50	1.25	660	5	<0.05	20	510	30	<0.05	30	8	80	<100
W637097		<5	1.08	<50	1.63	700	9	<0.05	37	760	10	<0.05	<10	10	42	<100
W637098		<5	0.94	<50	1.30	570	<5	<0.05	13	540	<10	0.05	10	7	34	<100
W637099		<5	0.74	<50	1.23	630	<5	<0.05	12	620	<10	0.05	10	12	41	<100
W637100		<5	0.86	<50	1.19	910	<5	<0.05	10	360	10	0.05	10	16	61	<100
K294001		<5	0.82	<50	1.60	860	<5	<0.05	17	630	<10	0.05	40	17	66	<100
K294002		<5	2.27	<50	2.56	1030	<5	<0.05	29	1700	<10	<0.05	<10	16	22	<100
K294003		<5	0.20	<50	0.10	120	<5	0.05	<5	100	<10	<0.05	<10	<5	<5	<100
K294004		<5	0.09	<50	<0.05	90	<5	0.09	<5	60	<10	<0.05	10	<5	<5	<100
K294005		<5	0.08	<50	<0.05	120	<5	0.08	<5	80	<10	<0.05	<10	<5	<5	<100
K294006		5	0.11	<50	<0.05	90	<5	0.05	<5	60	<10	<0.05	10	<5	<5	<100
K294007		<5	0.14	<50	<0.05	80	<5	0.06	<5	60	<10	<0.05	<10	<5	<5	<100
K294008		<5	0.20	<50	<0.05	70	<5	0.05	<5	80	<10	<0.05	10	<5	<5	<100
K294009		<5	0.15	<50	<0.05	70	<5	0.06	<5	<50	<10	<0.05	10	<5	<5	<100
K294010		<5	0.12	<50	<0.05	50	<5	0.06	<5	<50	<10	<0.05	<10	<5	<5	<100
K294011		<5	0.18	<50	<0.05	40	<5	0.07	<5	<50	<10	<0.05	<10	<5	<5	<100
K294012		<5	1.29	<50	1.25	610	<5	<0.05	<5	800	<10	<0.05	<10	10	<5	<100
K294013		<5	0.74	<50	0.66	440	<5	0.05	<5	490	<10	<0.05	10	6	<5	<100
K294014		6	0.21	<50	3.04	1660	59	<0.05	67	1100	10	0.86	20	<5	190	<100
K294015		<5	0.11	<50	<0.05	50	<5	0.05	<5	<50	<10	<0.05	10	<5	<5	<100
K294016		<5	0.16	<50	<0.05	50	<5	<0.05	<5	<50	<10	<0.05	10	<5	<5	<100
K294017		<5	0.21	<50	0.07	100	<5	<0.05	<5	90	<10	<0.05	10	<5	<5	<100
K294018		<5	1.65	<50	1.92	750	<5	<0.05	<5	770	<10	<0.05	10	7	29	<100
K294019		<5	0.19	<50	0.11	280	<5	0.05	<5	140	10	<0.05	10	<5	<5	<100
K294020		<5	0.53	<50	0.37	250	<5	0.05	<5	290	<10	<0.05	10	<5	<5	<100



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CERTIFICATE OF ANALYSIS WH17189969

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
W637085		<0.05	<50	<50	51	<50	110
W637086		<0.05	<50	<50	51	<50	50
W637087		<0.05	<50	<50	44	<50	330
W637088		<0.05	<50	<50	<5	<50	20
W637089		<0.05	<50	<50	9	<50	50
W637090		<0.05	<50	<50	37	<50	100
W637091		<0.05	<50	<50	18	<50	180
W637092		<0.05	<50	<50	13	<50	70
W637093		<0.05	<50	<50	35	<50	60
W637094		0.14	<50	<50	101	<50	80
W637095		0.10	<50	<50	56	<50	60
W637096		0.06	<50	<50	55	<50	70
W637097		0.11	<50	<50	70	<50	50
W637098		0.09	<50	<50	49	<50	30
W637099		0.08	<50	<50	58	<50	30
W637100		0.07	<50	<50	80	<50	30
K294001		0.07	<50	<50	79	<50	80
K294002		0.34	<50	<50	151	<50	100
K294003		<0.05	<50	<50	6	<50	<10
K294004		<0.05	<50	<50	<5	<50	<10
K294005		<0.05	<50	<50	<5	<50	<10
K294006		<0.05	<50	<50	<5	<50	<10
K294007		<0.05	<50	<50	<5	<50	<10
K294008		<0.05	<50	<50	<5	<50	<10
K294009		<0.05	<50	<50	<5	<50	<10
K294010		<0.05	<50	<50	<5	<50	<10
K294011		<0.05	<50	<50	<5	<50	<10
K294012		0.18	<50	<50	91	<50	40
K294013		0.09	<50	<50	47	<50	20
K294014		<0.05	<50	<50	170	<50	410
K294015		<0.05	<50	<50	<5	<50	<10
K294016		<0.05	<50	<50	<5	<50	<10
K294017		<0.05	<50	<50	6	<50	<10
K294018		0.24	<50	<50	101	<50	50
K294019		<0.05	<50	<50	10	<50	20
K294020		<0.05	<50	<50	13	<50	20



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CERTIFICATE OF ANALYSIS WH17189969

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

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21