



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

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Plus Appendix Pages
Finalized Date: 18-OCT-2017
Account: DEVARC

CERTIFICATE WH17189955

Project: Dan Man

P.O. No.: 1006216-Batch 40

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
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 WH17189955

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
W636905		2.80	<0.001	<1	0.59	<10	50	<5	<10	0.15	<5	<5	17	10	1.18	<50
W636906		3.24	<0.001	<1	0.42	<10	<50	<5	<10	0.13	<5	5	16	6	0.95	<50
W636907		3.26	<0.001	<1	0.24	<10	<50	<5	10	0.29	<5	<5	8	9	0.66	<50
W636908		2.92	<0.001	<1	0.25	<10	<50	<5	<10	0.62	<5	<5	8	<5	0.60	<50
W636909		2.40	<0.001	<1	0.32	<10	<50	<5	10	1.67	<5	<5	9	<5	0.78	<50
W636910		2.36	0.001	<1	<0.05	<10	<50	<5	10	20.2	<5	<5	<5	<5	0.44	<50
W636911		2.52	<0.001	<1	0.45	<10	50	<5	10	1.60	<5	8	18	6	1.47	<50
W636912		2.74	<0.001	<1	0.41	<10	60	<5	10	2.43	<5	7	16	9	1.52	<50
W636913		2.60	0.012	<1	0.56	10	130	<5	10	2.62	<5	12	13	6	1.86	<50
W636914		3.24	0.001	<1	0.31	10	<50	<5	<10	1.55	<5	5	16	14	1.03	<50
W636915		2.80	<0.001	<1	1.60	<10	130	<5	<10	2.45	<5	19	84	12	3.39	<50
W636916		3.04	<0.001	<1	0.50	<10	<50	<5	<10	1.53	<5	5	13	5	1.05	<50
W636917		3.00	<0.001	<1	1.44	<10	330	<5	<10	2.24	<5	12	55	20	2.24	<50
W636918		2.84	<0.001	<1	1.44	<10	120	<5	<10	2.03	<5	7	57	11	2.36	<50
W636919		2.68	<0.001	<1	0.51	<10	<50	<5	<10	1.54	<5	7	16	6	1.26	<50
W636920		2.60	<0.001	<1	1.71	<10	60	<5	<10	3.16	<5	15	30	13	3.30	<50
W636921		3.10	<0.001	<1	0.42	<10	<50	<5	<10	1.37	<5	<5	8	7	0.78	<50
W636922		2.94	<0.001	<1	1.75	<10	70	<5	<10	1.94	<5	17	8	11	3.07	<50
W636923		3.10	<0.001	<1	0.49	<10	<50	<5	<10	0.51	<5	5	10	9	0.79	<50
W636924		0.30	1.400	33	1.18	530	640	<5	10	0.28	32	9	13	140	5.45	<50
W636925		3.22	<0.001	<1	0.40	<10	<50	<5	<10	0.83	<5	<5	12	<5	0.76	<50
W636926		2.76	<0.001	<1	2.44	<10	60	<5	10	2.26	<5	19	25	18	3.60	<50
W636927		3.16	<0.001	<1	0.57	<10	<50	<5	<10	1.03	<5	5	15	<5	0.91	<50
W636928		3.06	<0.001	<1	1.51	<10	<50	<5	10	1.68	<5	17	68	15	2.14	<50
W636929		3.08	<0.001	<1	1.54	<10	70	<5	<10	1.90	<5	19	83	17	2.09	<50
W636930		2.78	<0.001	<1	3.04	<10	700	<5	10	3.74	<5	33	116	35	4.11	<50
W636931		2.90	<0.001	<1	2.77	<10	190	<5	<10	3.15	<5	29	135	32	3.64	<50
W636932		3.00	<0.001	<1	1.84	<10	70	<5	10	1.94	<5	17	65	21	2.43	<50
W636933		2.80	<0.001	<1	0.49	<10	<50	<5	10	0.27	<5	<5	13	7	0.88	<50
W636934		2.88	<0.001	<1	0.64	<10	<50	<5	<10	0.73	<5	<5	16	6	1.13	<50
W636935		3.30	<0.001	1	1.49	<10	50	<5	<10	1.22	<5	16	48	13	2.38	<50
W636936		3.30	<0.001	1	0.40	<10	<50	<5	10	0.59	<5	5	14	7	0.78	<50
W636937		3.08	<0.001	<1	0.72	<10	<50	<5	10	0.79	<5	6	24	6	1.14	<50
W636938		2.88	<0.001	<1	2.09	<10	270	<5	<10	2.71	<5	16	46	16	3.20	<50
W636939		3.16	<0.001	<1	1.85	<10	190	<5	10	1.57	<5	14	37	16	2.56	<50
W636940		3.22	<0.001	<1	0.30	<10	<50	<5	10	0.79	<5	<5	12	5	0.78	<50



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CERTIFICATE OF ANALYSIS WH17189955

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	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		5	0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100
W636905		<5	0.26	<50	0.22	160	<5	<0.05	10	250	<10	<0.05	<10	<5	<5	<100
W636906		<5	0.22	<50	0.10	110	<5	<0.05	10	200	10	<0.05	10	<5	5	<100
W636907		<5	0.11	<50	<0.05	100	<5	0.07	7	50	<10	<0.05	<10	<5	<5	<100
W636908		<5	0.13	<50	<0.05	120	<5	<0.05	8	<50	10	<0.05	<10	<5	6	<100
W636909		<5	0.19	<50	<0.05	180	<5	0.05	8	120	10	<0.05	<10	<5	12	<100
W636910		<5	<0.05	<50	11.35	200	<5	<0.05	<5	180	<10	<0.05	10	<5	36	<100
W636911		<5	0.22	<50	0.13	260	<5	<0.05	10	290	<10	<0.05	10	<5	16	<100
W636912		<5	0.22	<50	0.10	360	<5	<0.05	13	370	<10	<0.05	10	<5	17	<100
W636913		<5	0.25	<50	0.10	560	<5	<0.05	16	440	10	<0.05	<10	<5	29	<100
W636914		<5	0.12	<50	0.06	220	<5	0.07	20	150	10	<0.05	10	<5	19	<100
W636915		<5	0.75	<50	1.09	610	<5	<0.05	33	510	<10	<0.05	20	10	32	<100
W636916		<5	0.16	<50	0.23	210	<5	0.07	8	170	<10	<0.05	<10	<5	23	<100
W636917		<5	0.65	<50	0.99	360	<5	<0.05	24	430	<10	<0.05	10	6	47	<100
W636918		<5	0.85	<50	1.10	410	<5	0.06	25	400	<10	<0.05	10	7	25	<100
W636919		<5	0.29	<50	0.17	230	<5	0.05	9	200	<10	<0.05	20	<5	15	<100
W636920		<5	0.38	<50	1.13	630	<5	<0.05	14	790	10	<0.05	<10	9	57	<100
W636921		<5	0.29	<50	0.07	190	<5	0.05	<5	210	20	<0.05	10	<5	39	<100
W636922		<5	1.35	<50	1.12	550	<5	0.05	15	1050	10	<0.05	10	<5	47	<100
W636923		<5	0.28	<50	0.09	140	<5	0.08	8	120	10	<0.05	10	<5	19	<100
W636924		6	0.52	<50	0.10	1060	7	<0.05	7	1450	3410	0.43	20	5	164	<100
W636925		<5	0.19	<50	0.06	130	<5	0.08	<5	100	10	<0.05	10	<5	18	<100
W636926		<5	0.67	<50	1.97	710	<5	<0.05	17	1010	10	<0.05	10	6	60	<100
W636927		<5	0.29	<50	0.20	220	<5	0.07	6	180	<10	<0.05	10	<5	21	<100
W636928		<5	0.37	<50	1.26	410	<5	0.05	36	240	20	<0.05	10	<5	38	<100
W636929		<5	0.54	<50	1.33	410	<5	0.07	45	340	<10	<0.05	10	<5	49	<100
W636930		<5	2.07	<50	2.76	870	<5	<0.05	47	1330	20	<0.05	20	5	91	<100
W636931		5	1.33	<50	2.55	760	<5	0.05	59	650	<10	<0.05	<10	7	68	<100
W636932		<5	1.17	<50	1.55	520	<5	0.05	40	530	<10	<0.05	<10	<5	33	<100
W636933		<5	0.24	<50	0.11	140	<5	0.09	8	100	<10	<0.05	10	<5	20	<100
W636934		<5	0.33	<50	0.26	210	<5	0.08	8	260	10	<0.05	<10	<5	23	<100
W636935		<5	0.41	<50	1.04	410	<5	0.06	21	440	<10	<0.05	<10	<5	47	<100
W636936		<5	0.14	<50	0.11	140	<5	0.10	9	110	<10	<0.05	10	<5	14	<100
W636937		<5	0.29	<50	0.36	190	<5	0.08	15	150	<10	<0.05	10	<5	19	<100
W636938		<5	1.30	<50	1.62	610	<5	<0.05	23	820	10	<0.05	10	7	50	<100
W636939		<5	1.04	<50	1.41	500	<5	0.06	15	560	20	<0.05	10	<5	72	<100
W636940		<5	0.13	<50	<0.05	150	<5	0.10	6	110	<10	<0.05	10	<5	11	<100



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CERTIFICATE OF ANALYSIS WH17189955

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
W636905		<0.05	<50	<50	13	<50	20
W636906		<0.05	<50	<50	8	<50	10
W636907		<0.05	<50	<50	<5	<50	10
W636908		<0.05	<50	<50	<5	<50	10
W636909		<0.05	<50	<50	5	<50	10
W636910		<0.05	<50	<50	<5	<50	10
W636911		<0.05	<50	<50	17	<50	20
W636912		<0.05	<50	<50	14	<50	30
W636913		<0.05	<50	<50	17	<50	30
W636914		<0.05	<50	<50	8	<50	20
W636915		0.07	<50	<50	66	<50	50
W636916		<0.05	<50	<50	11	<50	10
W636917		0.12	<50	<50	39	<50	30
W636918		0.08	<50	<50	42	<50	30
W636919		<0.05	<50	<50	10	<50	10
W636920		<0.05	<50	<50	57	<50	60
W636921		<0.05	<50	<50	<5	<50	60
W636922		0.19	<50	<50	62	<50	50
W636923		<0.05	<50	<50	<5	<50	20
W636924		<0.05	<50	<50	58	<50	2350
W636925		<0.05	<50	<50	<5	<50	10
W636926		0.16	<50	<50	76	<50	60
W636927		<0.05	<50	<50	8	<50	10
W636928		<0.05	<50	<50	33	<50	80
W636929		0.16	<50	<50	42	<50	40
W636930		0.35	<50	<50	110	<50	110
W636931		0.34	<50	<50	84	<50	60
W636932		0.18	<50	<50	47	<50	40
W636933		<0.05	<50	<50	<5	<50	10
W636934		<0.05	<50	<50	9	<50	10
W636935		0.07	<50	<50	36	<50	40
W636936		<0.05	<50	<50	5	<50	10
W636937		<0.05	<50	<50	12	<50	10
W636938		0.14	<50	<50	72	<50	50
W636939		0.17	<50	<50	50	<50	50
W636940		<0.05	<50	<50	<5	<50	30



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CERTIFICATE OF ANALYSIS WH17189955

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