



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: 7-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17186548**

Project: Dan Man

P.O. No.: 1006216-Batch 33

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-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**  
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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 WH17186548**

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
W636653		3.32	0.001	<1	0.44	30	<50	<5	<10	1.61	<5	<5	11	12	1.28	<50
W636654		3.32	<0.001	<1	0.55	10	<50	<5	<10	1.59	<5	6	9	<5	1.58	<50
W636655		3.24	<0.001	<1	0.40	20	70	<5	<10	0.71	<5	<5	9	5	0.65	<50
W636656		3.82	<0.001	<1	0.33	20	<50	<5	<10	0.70	<5	<5	9	9	0.51	<50
W636657		3.06	0.023	<1	0.35	<10	<50	<5	<10	1.19	<5	<5	8	5	0.44	<50
W636658		3.36	<0.001	<1	0.44	30	<50	<5	<10	0.70	<5	<5	9	6	0.71	<50
W636659		2.78	<0.001	<1	0.29	10	<50	<5	10	0.43	<5	<5	13	6	0.60	<50
W636660		2.10	0.003	<1	0.48	10	<50	<5	<10	0.84	<5	<5	11	8	0.73	<50
W636661		2.82	0.006	<1	0.43	20	<50	<5	10	0.46	<5	<5	12	7	0.84	<50
W636662		2.34	0.001	<1	<0.05	<10	<50	<5	<10	20.9	<5	<5	<5	<5	0.47	<50
W636663		3.26	<0.001	<1	0.37	20	<50	<5	<10	1.00	<5	<5	10	7	0.90	<50
W636664		3.10	<0.001	<1	0.69	20	<50	<5	<10	1.52	<5	<5	10	5	2.01	<50
W636665		3.26	<0.001	<1	0.28	20	<50	<5	<10	0.61	<5	<5	10	12	0.70	<50
W636666		3.20	<0.001	<1	1.33	20	310	<5	<10	4.72	<5	16	94	20	3.63	<50
W636667		3.56	<0.001	<1	1.89	10	1100	<5	<10	2.97	<5	18	61	17	3.83	<50
W636668		3.42	0.006	<1	0.32	20	<50	<5	10	0.69	<5	<5	8	6	0.47	<50
W636669		2.94	<0.001	<1	0.44	10	<50	<5	<10	0.99	<5	<5	7	<5	0.46	<50
W636670		3.20	0.006	<1	1.03	20	80	<5	10	3.49	<5	11	64	13	2.13	<50
W636671		3.22	0.033	<1	0.55	10	<50	<5	10	0.93	<5	<5	7	6	0.61	<50
W636672		3.58	0.001	<1	0.55	10	<50	<5	<10	0.92	<5	<5	14	<5	0.97	<50
W636673		2.62	<0.001	<1	0.46	10	<50	<5	<10	0.88	<5	<5	19	7	1.24	<50
W636674		3.04	0.019	<1	1.09	10	130	<5	<10	4.07	<5	12	15	6	2.95	<50
W636675		2.72	<0.001	<1	0.48	10	150	<5	<10	1.20	<5	<5	9	5	0.65	<50
W636676		3.06	0.001	<1	0.44	20	70	<5	<10	1.41	<5	<5	8	<5	0.59	<50
W636677		3.40	<0.001	<1	0.35	30	<50	<5	<10	1.02	<5	<5	9	<5	0.70	<50
W636678		3.20	<0.001	<1	0.70	10	60	<5	<10	2.11	<5	6	19	<5	1.76	<50
W636679		2.60	<0.001	<1	0.51	10	<50	<5	<10	1.78	<5	<5	15	5	1.05	<50
W636680		2.98	0.009	<1	0.45	10	<50	<5	<10	2.55	<5	<5	10	9	0.89	<50
W636681		3.14	0.005	<1	0.67	20	140	<5	10	2.17	<5	<5	13	7	1.89	<50
W636682		3.06	<0.001	33	0.68	<10	80	<5	10	3.08	<5	5	15	6	3.00	<50
W636683		3.18	<0.001	<1	0.90	10	170	<5	<10	2.85	<5	11	17	8	3.80	<50
W636684		3.12	<0.001	<1	1.80	30	820	<5	10	3.41	<5	19	44	13	4.27	<50
W636685		3.08	<0.001	<1	0.90	20	60	<5	<10	1.85	<5	5	24	11	2.67	<50
W636686		0.28	1.480	31	1.21	540	650	<5	<10	0.27	31	6	13	138	5.43	<50
W636687		2.88	<0.001	<1	0.43	<10	<50	<5	<10	1.08	<5	<5	12	6	1.67	<50
W636688		3.36	<0.001	<1	0.57	10	<50	<5	10	1.27	<5	<5	12	6	2.17	<50



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**CERTIFICATE OF ANALYSIS WH17186548**

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
W636653		<5	0.18	<50	0.21	290	<5	<0.05	9	140	10	<0.05	<10	<5	31	<100
W636654		<5	0.26	<50	0.39	300	<5	0.05	<5	140	<10	0.09	20	6	38	<100
W636655		<5	0.23	<50	0.05	170	<5	0.05	<5	80	<10	<0.05	10	<5	20	<100
W636656		<5	0.19	<50	<0.05	110	<5	0.06	5	<50	<10	<0.05	<10	<5	19	<100
W636657		<5	0.16	<50	<0.05	90	<5	<0.05	<5	<50	10	<0.05	<10	<5	21	<100
W636658		<5	0.20	<50	0.05	150	<5	0.07	<5	<50	<10	<0.05	10	<5	16	<100
W636659		<5	0.13	<50	0.06	90	<5	0.05	<5	<50	10	<0.05	<10	<5	11	<100
W636660		<5	0.14	<50	0.10	140	<5	<0.05	5	<50	<10	<0.05	10	<5	15	<100
W636661		<5	0.21	<50	0.06	160	<5	0.07	5	<50	<10	<0.05	10	<5	12	<100
W636662		<5	<0.05	<50	12.30	220	<5	<0.05	<5	190	<10	<0.05	10	<5	47	<100
W636663		<5	0.16	<50	0.07	130	<5	0.06	<5	150	10	<0.05	10	<5	16	<100
W636664		<5	0.34	<50	0.37	280	<5	0.05	6	120	<10	<0.05	10	9	30	<100
W636665		<5	0.13	<50	0.12	90	<5	0.07	<5	<50	<10	<0.05	20	<5	15	<100
W636666		<5	0.76	<50	1.76	760	<5	0.06	33	390	20	<0.05	<10	11	98	<100
W636667		<5	1.40	<50	1.84	650	<5	<0.05	22	840	10	0.08	10	10	102	<100
W636668		<5	0.15	<50	<0.05	80	<5	0.06	<5	<50	10	<0.05	20	<5	16	<100
W636669		<5	0.15	<50	<0.05	80	<5	<0.05	<5	<50	10	<0.05	<10	<5	17	<100
W636670		<5	0.59	<50	1.04	470	<5	<0.05	20	230	10	<0.05	20	7	61	<100
W636671		<5	0.14	<50	<0.05	110	<5	<0.05	5	<50	10	<0.05	10	<5	17	<100
W636672		<5	0.21	<50	0.14	150	<5	0.06	<5	110	10	<0.05	<10	<5	16	<100
W636673		<5	0.16	<50	0.15	180	<5	0.05	<5	120	10	<0.05	10	<5	18	<100
W636674		<5	0.54	<50	1.40	770	<5	0.05	<5	540	20	0.12	20	7	75	<100
W636675		<5	0.23	<50	0.09	170	<5	0.05	<5	60	10	0.05	<10	<5	28	<100
W636676		<5	0.19	50	0.14	150	<5	0.05	<5	60	10	<0.05	10	<5	29	<100
W636677		<5	0.14	50	0.07	110	<5	0.07	<5	70	<10	<0.05	20	<5	22	<100
W636678		<5	0.35	<50	0.45	360	<5	0.05	5	270	10	0.18	20	<5	38	<100
W636679		<5	0.31	<50	0.38	230	<5	<0.05	<5	160	<10	<0.05	<10	<5	25	<100
W636680		<5	0.22	<50	0.26	230	<5	<0.05	8	160	10	0.23	10	<5	48	<100
W636681		<5	0.25	<50	0.45	330	<5	0.06	<5	170	<10	0.15	10	8	51	<100
W636682		<5	0.30	<50	0.91	490	<5	0.06	9	240	10	0.11	10	16	65	<100
W636683		<5	0.51	<50	1.05	590	<5	0.06	7	310	<10	0.65	10	16	60	<100
W636684		<5	1.02	<50	1.64	790	<5	0.07	14	870	<10	0.24	10	14	103	<100
W636685		<5	0.41	<50	0.63	440	<5	0.05	12	340	<10	0.06	30	13	40	<100
W636686		<5	0.51	<50	0.10	1050	<5	<0.05	5	1470	3440	0.43	20	5	167	<100
W636687		<5	0.14	<50	0.23	210	<5	0.07	<5	210	10	0.07	10	8	24	<100
W636688		<5	0.21	<50	0.31	260	<5	0.09	<5	330	<10	0.11	10	9	23	<100



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**CERTIFICATE OF ANALYSIS WH17186548**

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
W636653		<0.05	<50	<50	9	<50	20
W636654		<0.05	<50	<50	16	<50	20
W636655		<0.05	<50	<50	<5	<50	<10
W636656		<0.05	<50	<50	<5	<50	10
W636657		<0.05	<50	<50	<5	<50	<10
W636658		<0.05	<50	<50	<5	<50	10
W636659		<0.05	<50	<50	<5	<50	<10
W636660		<0.05	<50	<50	5	<50	10
W636661		<0.05	<50	<50	<5	<50	10
W636662		<0.05	<50	<50	<5	<50	20
W636663		<0.05	<50	<50	<5	<50	10
W636664		<0.05	<50	<50	27	<50	20
W636665		<0.05	<50	<50	<5	<50	10
W636666		0.07	<50	<50	69	<50	70
W636667		0.17	<50	<50	86	<50	60
W636668		<0.05	<50	<50	<5	<50	<10
W636669		<0.05	<50	<50	<5	<50	<10
W636670		<0.05	<50	<50	43	<50	40
W636671		<0.05	<50	<50	<5	<50	<10
W636672		<0.05	<50	<50	7	<50	10
W636673		<0.05	<50	<50	11	<50	10
W636674		<0.05	<50	<50	48	<50	80
W636675		<0.05	<50	<50	<5	<50	10
W636676		<0.05	<50	<50	<5	<50	10
W636677		<0.05	<50	<50	<5	<50	10
W636678		<0.05	<50	<50	20	<50	20
W636679		<0.05	<50	<50	12	<50	20
W636680		<0.05	<50	<50	<5	<50	20
W636681		<0.05	<50	<50	24	<50	30
W636682		<0.05	<50	<50	56	<50	30
W636683		0.06	<50	<50	69	<50	40
W636684		0.13	<50	<50	85	<50	60
W636685		0.05	<50	<50	44	<50	30
W636686		<0.05	<50	<50	59	<50	2330
W636687		<0.05	<50	<50	6	<50	10
W636688		<0.05	<50	<50	<5	<50	60



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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

CRU-QC

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21