



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: 10-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17183077**

Project: Dan Man

P.O. No.: 1006216-Batch 13

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
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 WH17183077**

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
W590433		3.12	<0.001	<1	0.65	<10	160	<5	<10	1.95	<5	8	10	13	2.95	<50
W590434		2.66	<0.001	<1	0.58	<10	250	<5	<10	3.16	<5	7	9	12	2.77	<50
W590435		3.46	<0.001	<1	0.68	<10	240	<5	<10	3.35	<5	8	8	11	2.71	<50
W590436		2.66	0.008	<1	0.72	<10	240	<5	<10	1.23	<5	5	12	9	3.06	<50
W590437		3.06	0.001	<1	0.89	<10	200	<5	<10	1.34	<5	6	11	10	2.95	<50
W590438		3.12	<0.001	<1	0.84	10	80	<5	<10	2.46	<5	7	12	8	3.28	<50
W590439		3.22	0.006	<1	0.74	10	110	<5	10	1.24	<5	<5	11	6	2.05	<50
W590440		0.30	1.440	28	1.06	500	630	<5	10	0.26	32	<5	12	134	5.48	<50
W590441		2.72	0.011	<1	0.27	10	<50	<5	<10	<0.05	<5	<5	8	6	0.71	<50
W590442		2.64	0.019	<1	0.26	10	<50	<5	<10	<0.05	<5	<5	8	9	0.63	<50
W590443		2.88	0.042	<1	0.39	10	80	<5	10	0.06	<5	<5	8	8	0.75	<50
W590444		2.88	0.162	<1	0.35	120	180	<5	10	0.08	<5	<5	10	<5	1.48	<50
W590445		2.90	0.089	<1	0.39	90	140	<5	10	0.38	<5	<5	15	5	1.32	<50
W590446		2.68	0.137	<1	0.33	30	50	<5	<10	0.05	<5	<5	10	5	0.96	<50
W590447		2.80	0.017	<1	0.27	<10	<50	<5	<10	<0.05	<5	<5	9	<5	0.71	<50
W590448		3.10	0.029	<1	0.25	20	<50	<5	10	0.23	<5	<5	7	<5	0.57	<50
W590449		2.52	0.007	<1	0.26	<10	<50	<5	10	0.20	<5	<5	8	<5	0.64	<50
W590450		2.24	0.008	<1	0.32	<10	<50	<5	<10	0.07	<5	<5	9	10	0.65	<50
W590451		2.56	0.127	<1	0.31	50	<50	<5	<10	0.06	<5	<5	9	5	0.91	<50
W590452		3.00	0.017	<1	0.51	10	<50	<5	<10	1.61	<5	<5	16	<5	1.47	<50
W590453		2.82	<0.001	<1	0.63	<10	<50	<5	<10	1.64	<5	5	34	6	1.33	<50
W590454		3.18	0.009	<1	0.24	<10	<50	<5	<10	0.34	<5	<5	10	<5	0.59	<50
W590455		3.20	0.034	<1	0.22	<10	<50	<5	<10	0.52	<5	<5	10	5	0.73	<50
W590456		2.80	0.006	<1	0.59	10	100	<5	<10	0.08	<5	<5	49	8	1.38	<50
W590457		2.76	0.007	<1	0.34	10	60	<5	10	<0.05	<5	<5	10	<5	0.88	<50
W590458		3.20	0.025	<1	0.49	10	130	<5	<10	<0.05	<5	<5	12	16	0.93	<50
W590459		3.22	0.015	<1	1.03	20	80	<5	<10	4.79	<5	15	184	14	2.82	<50
W590460		2.56	0.018	<1	0.36	<10	<50	<5	10	0.07	<5	<5	12	17	0.74	<50
W590461		2.84	0.003	<1	0.26	<10	<50	<5	<10	<0.05	<5	<5	9	<5	0.39	<50
W590462		2.48	0.002	<1	0.36	20	<50	<5	<10	<0.05	<5	<5	12	9	0.70	<50
W590463		2.82	0.022	<1	0.27	20	50	<5	<10	0.07	<5	<5	10	5	0.69	<50
W590464		2.20	0.124	<1	0.34	20	110	<5	<10	0.05	<5	<5	9	5	1.10	<50
W590465		2.34	<0.001	<1	<0.05	<10	<50	<5	<10	20.4	<5	<5	<5	<5	0.43	<50
W590466		2.48	0.088	<1	0.37	20	90	<5	<10	0.07	<5	<5	10	<5	1.03	<50
W590467		3.18	0.042	<1	0.21	30	390	<5	10	<0.05	<5	<5	5	<5	0.71	<50
W590468		2.46	0.043	<1	0.30	40	240	<5	<10	0.23	<5	<5	9	<5	0.92	<50



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**CERTIFICATE OF ANALYSIS WH17183077**

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
W590433		8	0.28	<50	0.13	650	<5	<0.05	10	610	10	<0.05	<10	7	45	<100
W590434		<5	0.30	<50	0.30	670	<5	<0.05	<5	630	10	<0.05	<10	6	74	<100
W590435		<5	0.32	<50	0.47	670	<5	<0.05	<5	640	<10	<0.05	<10	6	92	<100
W590436		<5	0.26	<50	0.11	860	<5	<0.05	<5	680	10	<0.05	<10	7	33	<100
W590437		5	0.32	<50	0.15	670	<5	<0.05	<5	670	<10	<0.05	<10	9	40	<100
W590438		<5	0.28	<50	0.29	600	<5	<0.05	<5	690	<10	<0.05	<10	10	54	<100
W590439		<5	0.33	<50	0.18	420	<5	<0.05	<5	360	<10	<0.05	<10	5	45	<100
W590440		8	0.48	<50	0.09	1030	<5	<0.05	<5	1400	3210	0.40	20	<5	141	<100
W590441		<5	0.15	<50	<0.05	110	<5	<0.05	5	50	<10	<0.05	<10	<5	5	<100
W590442		<5	0.17	<50	<0.05	80	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100
W590443		<5	0.13	<50	<0.05	130	<5	<0.05	<5	50	<10	<0.05	<10	<5	7	<100
W590444		<5	0.29	<50	<0.05	410	<5	<0.05	<5	150	40	<0.05	<10	<5	17	<100
W590445		5	0.21	<50	<0.05	660	5	<0.05	11	180	<10	<0.05	<10	<5	41	<100
W590446		<5	0.17	<50	<0.05	240	<5	<0.05	<5	70	<10	<0.05	<10	<5	14	<100
W590447		<5	0.18	<50	<0.05	190	<5	<0.05	<5	50	<10	<0.05	<10	<5	8	<100
W590448		<5	0.20	<50	<0.05	110	<5	<0.05	<5	50	<10	<0.05	<10	<5	5	<100
W590449		<5	0.15	<50	<0.05	160	<5	<0.05	<5	60	<10	<0.05	<10	<5	12	<100
W590450		<5	0.19	<50	<0.05	120	<5	<0.05	<5	50	<10	<0.05	<10	<5	7	<100
W590451		<5	0.16	<50	<0.05	240	<5	<0.05	<5	100	<10	<0.05	<10	<5	16	<100
W590452		5	0.33	<50	0.43	380	<5	<0.05	<5	220	<10	0.06	<10	<5	53	<100
W590453		5	0.42	<50	0.48	330	<5	<0.05	7	170	<10	<0.05	10	<5	32	<100
W590454		<5	0.18	<50	0.05	120	6	<0.05	<5	<50	<10	0.09	<10	<5	10	<100
W590455		<5	0.15	<50	<0.05	120	<5	<0.05	<5	<50	10	<0.05	<10	<5	9	<100
W590456		5	0.36	<50	0.17	520	<5	<0.05	15	210	<10	<0.05	<10	<5	14	<100
W590457		<5	0.16	<50	<0.05	220	<5	<0.05	<5	60	<10	<0.05	<10	<5	12	<100
W590458		8	0.23	<50	<0.05	280	<5	<0.05	<5	<50	10	<0.05	10	<5	17	<100
W590459		<5	0.61	<50	1.50	820	<5	<0.05	65	520	<10	<0.05	<10	11	145	<100
W590460		<5	0.17	<50	<0.05	140	<5	<0.05	6	50	10	<0.05	10	<5	6	<100
W590461		<5	0.12	<50	<0.05	80	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100
W590462		<5	0.14	<50	<0.05	210	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100
W590463		<5	0.15	<50	<0.05	170	<5	<0.05	<5	60	<10	<0.05	<10	<5	<5	<100
W590464		<5	0.19	<50	<0.05	50	<5	<0.05	<5	110	<10	<0.05	<10	<5	18	<100
W590465		<5	<0.05	<50	11.45	190	<5	<0.05	<5	170	<10	<0.05	<10	<5	41	<100
W590466		<5	0.14	<50	<0.05	40	<5	<0.05	<5	50	<10	0.05	<10	<5	14	<100
W590467		<5	0.24	<50	<0.05	<30	<5	<0.05	<5	<50	<10	0.18	<10	<5	10	<100
W590468		<5	0.29	<50	<0.05	40	<5	<0.05	<5	100	20	0.33	<10	<5	51	<100



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**CERTIFICATE OF ANALYSIS WH17183077**

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
W590433		<0.05	<50	<50	52	<50	60
W590434		<0.05	<50	<50	42	<50	50
W590435		<0.05	<50	<50	42	<50	50
W590436		<0.05	<50	<50	44	<50	50
W590437		<0.05	<50	<50	54	<50	50
W590438		<0.05	<50	<50	74	<50	60
W590439		<0.05	<50	<50	38	<50	40
W590440		<0.05	<50	<50	57	<50	2240
W590441		<0.05	<50	<50	<5	<50	10
W590442		<0.05	<50	<50	<5	<50	10
W590443		<0.05	<50	<50	<5	<50	<10
W590444		<0.05	<50	<50	<5	<50	20
W590445		<0.05	<50	<50	<5	<50	20
W590446		<0.05	<50	<50	<5	<50	10
W590447		<0.05	<50	<50	<5	<50	<10
W590448		<0.05	<50	<50	<5	<50	<10
W590449		<0.05	<50	<50	<5	<50	10
W590450		<0.05	<50	<50	<5	<50	<10
W590451		<0.05	<50	<50	<5	<50	10
W590452		<0.05	<50	<50	8	<50	20
W590453		<0.05	<50	<50	16	<50	20
W590454		<0.05	<50	<50	<5	<50	<10
W590455		<0.05	<50	<50	<5	<50	10
W590456		<0.05	<50	<50	9	<50	20
W590457		<0.05	<50	<50	<5	<50	10
W590458		<0.05	<50	<50	<5	<50	10
W590459		<0.05	<50	<50	53	<50	50
W590460		<0.05	<50	<50	<5	<50	10
W590461		<0.05	<50	<50	<5	<50	<10
W590462		<0.05	<50	<50	<5	<50	10
W590463		<0.05	<50	<50	<5	<50	10
W590464		<0.05	<50	<50	<5	<50	30
W590465		<0.05	<50	<50	<5	<50	10
W590466		<0.05	<50	<50	<5	<50	10
W590467		<0.05	<50	<50	<5	<50	<10
W590468		<0.05	<50	<50	<5	<50	10



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**CERTIFICATE OF ANALYSIS WH17183077**

**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