



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 WH17183067**

Project: Dan Man

P.O. No.: 1006216-Batch 12

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 WH17183067**

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
W590397		3.34	<0.001	<1	0.58	80	140	<5	<10	0.73	<5	6	7	18	1.16	<50
W590398		3.58	<0.001	<1	0.48	10	<50	<5	<10	0.47	<5	<5	11	18	0.58	<50
W590399		2.68	<0.001	<1	0.59	10	<50	<5	<10	0.07	<5	<5	12	37	0.61	<50
W590400		2.74	<0.001	<1	0.46	10	<50	<5	<10	0.16	<5	<5	13	39	0.86	<50
W590401		3.14	<0.001	<1	0.44	20	<50	<5	<10	0.25	<5	<5	10	28	0.71	<50
W590402		2.74	<0.001	<1	0.59	10	<50	<5	10	0.90	<5	<5	8	24	0.74	<50
W590403		3.00	<0.001	<1	0.39	<10	<50	<5	<10	1.28	<5	<5	11	30	0.59	<50
W590404		2.84	<0.001	<1	0.42	10	<50	<5	<10	1.04	<5	<5	9	17	0.57	<50
W590405		2.90	<0.001	<1	0.48	<10	<50	<5	<10	1.42	<5	<5	7	14	0.48	<50
W590406		3.04	0.049	<1	0.42	50	<50	<5	<10	1.33	<5	<5	9	9	0.68	<50
W590407		3.10	0.026	<1	0.54	20	<50	<5	<10	2.30	<5	<5	7	9	0.81	<50
W590408		3.22	0.020	<1	0.90	20	50	<5	<10	0.32	<5	<5	7	16	1.13	<50
W590409		2.90	0.023	1	0.60	20	<50	<5	10	0.06	<5	<5	10	<5	1.14	<50
W590410		2.80	0.019	<1	0.59	20	<50	<5	<10	0.17	<5	<5	10	11	1.16	<50
W590411		2.90	0.025	<1	0.65	<10	<50	<5	<10	0.07	<5	<5	8	<5	1.02	<50
W590412		2.36	<0.001	<1	<0.05	<10	<50	<5	<10	20.7	<5	<5	<5	<5	0.45	<50
W590413		3.06	0.001	<1	0.52	<10	<50	<5	10	0.06	<5	<5	10	<5	0.97	<50
W590414		3.16	<0.001	<1	0.97	<10	50	<5	10	0.06	<5	<5	7	5	1.74	<50
W590415		2.70	<0.001	<1	1.91	<10	60	<5	10	0.53	<5	10	<5	<5	3.13	<50
W590416		3.54	<0.001	<1	1.92	<10	<50	<5	<10	1.85	<5	9	5	8	3.01	<50
W590417		3.02	<0.001	<1	0.71	10	50	<5	<10	0.09	<5	<5	8	8	1.77	<50
W590418		3.42	<0.001	<1	0.42	<10	<50	<5	10	0.05	<5	<5	20	9	1.24	<50
W590419		3.70	<0.001	<1	0.39	<10	<50	<5	<10	0.14	<5	<5	19	8	0.88	<50
W590420		3.36	<0.001	<1	1.16	<10	160	<5	<10	1.57	<5	<5	12	10	1.82	<50
W590421		3.00	<0.001	<1	2.44	<10	120	<5	10	2.34	<5	7	<5	7	2.90	<50
W590422		3.04	<0.001	<1	1.94	<10	220	<5	<10	2.14	<5	<5	6	6	2.70	<50
W590423		2.86	0.004	<1	1.06	10	160	<5	20	0.23	<5	<5	14	12	1.75	<50
W590424		3.10	0.003	<1	1.14	<10	290	<5	10	0.33	<5	9	12	14	3.17	<50
W590425		3.04	0.002	<1	1.31	<10	290	<5	<10	0.64	<5	8	10	14	2.90	<50
W590426		3.12	<0.001	1	1.05	<10	230	<5	10	3.79	<5	11	8	17	2.54	<50
W590427		3.34	<0.001	<1	1.10	<10	360	<5	<10	3.75	<5	10	6	14	3.28	<50
W590428		3.08	<0.001	<1	0.96	<10	190	<5	<10	2.62	<5	11	9	6	2.76	<50
W590429		3.24	<0.001	<1	0.94	<10	320	<5	<10	3.54	<5	11	7	6	2.64	<50
W590430		0.02	1.165	1	0.58	200	100	<5	10	17.20	<5	5	25	71	2.44	<50
W590431		2.46	<0.001	<1	0.92	<10	320	<5	<10	3.32	<5	9	7	12	2.60	<50
W590432		2.86	0.005	<1	1.01	<10	340	<5	<10	1.48	<5	12	9	12	3.01	<50



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**CERTIFICATE OF ANALYSIS WH17183067**

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
W590397		6	0.28	<50	0.10	380	<5	<0.05	<5	140	20	<0.05	10	<5	60	<100
W590398		5	0.18	<50	<0.05	140	<5	<0.05	<5	<50	10	<0.05	10	<5	9	<100
W590399		7	0.14	<50	<0.05	100	<5	<0.05	<5	<50	10	<0.05	<10	<5	9	<100
W590400		<5	0.19	<50	<0.05	150	<5	<0.05	8	50	10	<0.05	10	<5	15	<100
W590401		5	0.17	<50	<0.05	100	<5	<0.05	<5	80	20	<0.05	<10	<5	12	<100
W590402		10	0.19	<50	0.10	160	5	<0.05	6	50	<10	<0.05	<10	<5	22	<100
W590403		8	0.16	<50	0.13	140	8	<0.05	6	<50	10	<0.05	<10	<5	36	<100
W590404		7	0.20	<50	0.12	150	13	<0.05	<5	<50	<10	<0.05	<10	<5	29	<100
W590405		6	0.17	<50	0.13	160	<5	<0.05	<5	<50	10	<0.05	<10	<5	40	<100
W590406		5	0.21	<50	0.10	180	<5	<0.05	<5	50	<10	0.10	<10	<5	37	<100
W590407		<5	0.19	<50	0.10	260	<5	<0.05	<5	80	10	0.09	<10	<5	67	<100
W590408		<5	0.34	<50	0.16	360	<5	<0.05	<5	70	10	<0.05	<10	<5	29	<100
W590409		<5	0.16	50	0.06	370	<5	<0.05	11	130	20	<0.05	10	<5	30	<100
W590410		<5	0.13	<50	<0.05	370	<5	<0.05	<5	100	10	<0.05	10	<5	28	<100
W590411		<5	0.13	<50	0.07	310	<5	<0.05	<5	150	<10	<0.05	10	<5	14	<100
W590412		<5	<0.05	<50	11.50	190	<5	<0.05	<5	130	<10	<0.05	10	<5	30	<100
W590413		<5	0.14	<50	0.06	320	<5	<0.05	<5	130	<10	<0.05	<10	<5	13	<100
W590414		<5	0.40	<50	0.27	530	<5	<0.05	<5	150	20	<0.05	10	<5	16	<100
W590415		<5	0.91	<50	0.70	560	<5	<0.05	<5	360	10	<0.05	10	10	50	<100
W590416		<5	0.81	<50	0.68	560	<5	<0.05	6	430	20	<0.05	20	11	58	<100
W590417		<5	0.17	<50	0.10	360	<5	<0.05	6	130	10	<0.05	10	<5	27	<100
W590418		<5	0.15	<50	0.05	230	<5	<0.05	6	60	<10	<0.05	20	<5	11	<100
W590419		<5	0.19	<50	<0.05	160	6	0.07	<5	<50	10	<0.05	10	<5	12	<100
W590420		<5	0.48	<50	0.40	570	<5	0.08	<5	210	10	<0.05	<10	<5	48	<100
W590421		<5	1.04	<50	1.02	770	<5	0.12	<5	410	10	<0.05	10	8	106	<100
W590422		<5	0.84	<50	0.86	690	<5	0.10	<5	390	<10	<0.05	<10	8	87	<100
W590423		<5	0.26	<50	0.16	500	<5	<0.05	5	330	10	<0.05	<10	<5	31	<100
W590424		<5	0.45	<50	0.16	930	<5	<0.05	<5	740	<10	<0.05	10	6	19	<100
W590425		<5	0.47	<50	0.15	780	<5	<0.05	6	740	20	<0.05	<10	8	22	<100
W590426		<5	0.44	<50	0.28	630	<5	<0.05	11	700	20	<0.05	<10	6	56	<100
W590427		<5	0.45	<50	0.17	1000	<5	<0.05	<5	550	30	<0.05	20	5	37	<100
W590428		<5	0.32	<50	0.40	640	<5	<0.05	<5	600	20	<0.05	<10	8	70	<100
W590429		<5	0.41	<50	0.28	670	<5	<0.05	<5	530	30	<0.05	<10	5	68	<100
W590430		<5	0.20	<50	2.97	1610	68	<0.05	71	1060	<10	0.79	10	<5	175	<100
W590431		<5	0.44	<50	0.24	640	<5	<0.05	<5	660	20	<0.05	<10	<5	86	<100
W590432		<5	0.46	<50	0.08	790	<5	<0.05	<5	720	20	<0.05	<10	5	39	<100



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**CERTIFICATE OF ANALYSIS WH17183067**

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
W590397		<0.05	<50	<50	6	<50	30
W590398		<0.05	<50	<50	<5	<50	30
W590399		<0.05	<50	<50	<5	<50	20
W590400		<0.05	<50	<50	<5	<50	30
W590401		<0.05	<50	<50	<5	<50	20
W590402		<0.05	<50	<50	<5	<50	30
W590403		<0.05	<50	<50	<5	<50	20
W590404		<0.05	<50	<50	<5	<50	10
W590405		<0.05	<50	<50	<5	<50	10
W590406		<0.05	<50	<50	<5	<50	10
W590407		<0.05	<50	<50	<5	<50	10
W590408		<0.05	<50	<50	<5	<50	30
W590409		<0.05	<50	<50	<5	<50	30
W590410		<0.05	<50	<50	<5	<50	40
W590411		<0.05	<50	<50	5	<50	30
W590412		<0.05	<50	<50	5	<50	<10
W590413		<0.05	<50	<50	5	<50	20
W590414		<0.05	<50	<50	23	<50	60
W590415		0.06	<50	<50	64	<50	60
W590416		0.05	<50	<50	48	<50	60
W590417		<0.05	<50	<50	18	<50	40
W590418		<0.05	<50	<50	5	<50	10
W590419		<0.05	<50	<50	<5	<50	<10
W590420		<0.05	<50	<50	28	<50	20
W590421		0.07	<50	<50	65	<50	50
W590422		0.05	<50	<50	59	<50	40
W590423		<0.05	<50	<50	33	<50	50
W590424		<0.05	<50	<50	44	<50	50
W590425		<0.05	<50	<50	51	<50	70
W590426		<0.05	<50	<50	42	<50	110
W590427		<0.05	<50	<50	36	<50	70
W590428		<0.05	<50	<50	53	<50	60
W590429		<0.05	<50	<50	39	<50	90
W590430		<0.05	<50	<50	166	<50	390
W590431		<0.05	<50	<50	36	<50	50
W590432		<0.05	<50	<50	39	<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

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21