



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**

Page: 1  
Total # Pages: 2 (A - C)  
Plus Appendix Pages  
Finalized Date: 7-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17183016**

Project: Dan Man

P.O. No.: 1006216-Batch 1

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
LOG-23	Pulp Login - Rcvd with Barcode
BAG-01	Bulk Master for Storage
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 WH17183016**

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
W590001		2.78	0.002	<1	0.42	20	50	<5	10	0.11	<5	<5	13	14	0.82	<50
W590002		2.14	0.022	<1	0.44	60	60	<5	<10	0.13	<5	6	20	11	1.27	<50
W590003		1.92	0.043	<1	0.34	30	<50	<5	10	0.53	<5	<5	10	<5	0.75	<50
W590004		1.78	0.042	<1	1.72	40	130	<5	<10	0.61	<5	19	16	17	4.18	<50
W590005		1.84	0.012	<1	0.81	20	80	<5	20	0.26	<5	9	10	16	2.02	<50
W590006		2.20	0.005	<1	0.63	10	<50	<5	10	0.48	<5	7	9	5	1.73	<50
W590007		2.00	0.123	<1	1.67	90	80	<5	10	1.84	<5	20	10	15	4.65	<50
W590008		1.60	0.003	<1	0.28	<10	<50	<5	10	0.11	<5	6	8	<5	0.68	<50
W590009		2.22	0.008	<1	0.25	<10	<50	<5	10	0.05	<5	<5	9	<5	0.72	<50
W590010		1.72	<0.001	<1	0.31	10	<50	<5	<10	0.12	<5	<5	11	9	0.77	<50
W590011		2.08	0.001	<1	2.59	<10	650	<5	10	3.90	<5	28	234	25	4.36	<50
W590012		1.86	0.023	1	2.30	30	300	<5	<10	3.85	<5	28	123	15	4.81	<50
W590013		2.34	0.029	<1	0.25	20	<50	<5	<10	0.21	<5	<5	10	<5	0.59	<50
W590014		2.60	<0.001	<1	0.26	10	<50	<5	<10	0.05	<5	<5	8	<5	0.56	<50
W590015		2.26	<0.001	<1	0.31	<10	<50	<5	<10	<0.05	<5	<5	10	<5	0.62	<50
W590016		1.88	0.020	<1	0.37	30	<50	<5	<10	0.22	<5	<5	12	<5	1.18	<50
W590017		2.44	<0.001	<1	<0.05	<10	<50	<5	<10	20.7	<5	5	<5	<5	0.45	<50
W590018		2.52	0.018	<1	1.85	20	110	<5	<10	2.11	<5	20	15	14	3.93	<50
W590019		3.08	<0.001	<1	1.25	<10	420	<5	<10	1.86	<5	18	194	18	2.28	<50
W590020		2.52	0.003	<1	0.46	<10	<50	<5	10	0.40	<5	<5	29	7	0.99	<50
W590021		2.16	0.006	<1	0.56	10	<50	<5	<10	0.34	<5	5	14	8	1.32	<50
W590022		2.44	0.052	<1	0.84	100	120	<5	10	0.97	<5	9	14	9	2.15	<50
W590023		2.22	0.002	<1	0.30	<10	<50	<5	<10	<0.05	<5	<5	10	<5	0.63	<50
W590024		2.38	0.075	<1	0.28	30	<50	<5	<10	<0.05	<5	<5	11	<5	0.85	<50
W590025		2.26	0.048	<1	1.05	80	90	<5	10	1.42	<5	11	19	6	2.48	<50
W590026		3.14	<0.001	<1	2.51	20	390	<5	10	3.01	<5	31	53	12	4.24	<50
W590027		2.34	0.023	<1	1.74	30	130	<5	<10	2.34	<5	20	70	15	3.09	<50
W590028		1.90	0.030	<1	1.56	80	150	<5	<10	4.92	<5	23	23	20	4.45	<50
W590029		0.30	1.210	<1	0.63	270	110	<5	10	17.80	<5	<5	29	83	2.59	<50
W590030		2.60	0.038	<1	0.69	40	<50	<5	<10	1.21	<5	7	10	<5	1.82	<50
W590031		2.16	0.006	<1	0.47	10	<50	<5	10	0.11	<5	<5	9	<5	0.49	<50
W590032		2.28	0.236	<1	0.31	170	<50	<5	10	0.27	<5	<5	9	<5	1.11	<50
W590033		2.20	0.008	<1	1.58	40	90	<5	20	3.67	<5	25	18	17	5.35	<50
W590034		1.90	0.009	<1	0.40	10	<50	<5	<10	1.78	<5	5	6	<5	0.95	<50
W590035		2.36	0.026	<1	1.60	50	70	<5	<10	2.93	<5	12	64	13	3.57	<50
W590036		2.06	<0.001	<1	0.65	<10	<50	<5	<10	1.04	<5	7	12	<5	1.29	<50



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Page: 2 - B  
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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
W590001		<5	0.16	<50	0.07	140	<5	0.05	8	150	10	<0.05	10	<5	11	<100
W590002		<5	0.21	<50	0.07	280	<5	<0.05	16	380	10	<0.05	10	<5	12	<100
W590003		<5	0.16	<50	<0.05	200	<5	<0.05	5	160	10	<0.05	<10	<5	16	<100
W590004		<5	1.06	60	0.98	800	<5	<0.05	15	1810	20	<0.05	20	7	50	<100
W590005		<5	0.46	<50	0.35	430	<5	<0.05	13	610	10	<0.05	<10	<5	40	<100
W590006		<5	0.45	<50	0.26	380	<5	<0.05	<5	350	20	<0.05	20	<5	12	<100
W590007		<5	1.35	<50	1.04	1110	<5	<0.05	<5	1030	10	0.05	<10	11	38	<100
W590008		<5	0.21	<50	<0.05	180	<5	<0.05	<5	120	10	<0.05	10	<5	8	<100
W590009		<5	0.19	<50	<0.05	120	<5	0.05	5	70	10	<0.05	10	<5	<5	<100
W590010		<5	0.21	<50	<0.05	150	<5	0.07	<5	80	10	0.05	20	<5	8	<100
W590011		<5	1.95	<50	2.22	1030	<5	<0.05	72	1280	10	0.09	20	11	76	<100
W590012		<5	1.87	<50	2.21	1080	<5	<0.05	30	930	20	0.07	10	12	62	<100
W590013		<5	0.19	<50	<0.05	150	<5	0.05	<5	60	10	<0.05	10	<5	9	<100
W590014		<5	0.19	<50	<0.05	140	<5	0.05	<5	<50	10	<0.05	10	<5	6	<100
W590015		<5	0.20	<50	<0.05	140	<5	0.05	<5	60	10	<0.05	<10	<5	6	<100
W590016		<5	0.22	<50	<0.05	520	<5	<0.05	<5	160	30	<0.05	10	<5	12	<100
W590017		<5	<0.05	<50	12.35	190	<5	<0.05	<5	210	<10	0.06	20	<5	52	<100
W590018		<5	1.46	<50	1.44	720	<5	<0.05	5	940	<10	0.16	30	13	40	<100
W590019		<5	0.98	<50	1.18	490	<5	<0.05	38	550	10	0.14	20	<5	47	<100
W590020		<5	0.32	<50	0.16	240	<5	0.06	6	150	20	0.06	10	<5	14	<100
W590021		<5	0.38	<50	0.25	340	<5	0.05	9	290	20	0.06	10	<5	13	<100
W590022		<5	0.58	<50	0.44	520	<5	0.05	12	650	20	0.10	10	<5	47	<100
W590023		<5	0.19	<50	<0.05	80	<5	0.06	<5	60	<10	0.05	20	<5	6	<100
W590024		<5	0.18	<50	<0.05	200	<5	<0.05	<5	70	10	<0.05	10	<5	14	<100
W590025		<5	0.63	<50	0.61	630	<5	0.06	6	510	10	0.11	10	5	46	<100
W590026		<5	1.56	<50	2.26	840	<5	0.05	16	1370	10	0.22	20	10	104	<100
W590027		<5	1.07	<50	1.59	680	<5	0.06	18	770	20	0.13	30	7	86	<100
W590028		<5	1.00	<50	1.92	960	<5	<0.05	8	980	30	0.35	30	9	112	<100
W590029		<5	0.22	<50	3.22	1730	72	<0.05	80	1160	30	0.93	30	<5	208	<100
W590030		<5	0.40	<50	0.45	340	<5	<0.05	<5	460	<10	0.14	<10	<5	47	<100
W590031		<5	0.23	<50	0.05	60	<5	<0.05	<5	<50	<10	<0.05	10	<5	10	<100
W590032		<5	0.13	<50	<0.05	230	<5	<0.05	<5	130	30	<0.05	<10	<5	24	<100
W590033		<5	0.81	50	1.11	1060	<5	<0.05	17	1680	20	0.16	10	13	96	<100
W590034		<5	0.19	<50	0.31	180	<5	0.05	<5	130	<10	0.06	<10	<5	34	<100
W590035		<5	0.56	<50	0.50	740	<5	<0.05	15	1030	30	0.06	10	12	70	<100
W590036		5	0.27	<50	0.26	220	<5	<0.05	<5	190	10	0.21	<10	<5	27	<100



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Page: 2 - C  
Total # Pages: 2 (A - C)  
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**CERTIFICATE OF ANALYSIS WH17183016**

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
W590001		<0.05	<50	<50	9	<50	10
W590002		<0.05	<50	<50	11	<50	10
W590003		<0.05	<50	<50	<5	<50	10
W590004		0.12	<50	<50	81	<50	70
W590005		<0.05	<50	<50	35	<50	30
W590006		<0.05	<50	<50	24	<50	30
W590007		0.17	<50	<50	107	<50	70
W590008		<0.05	<50	<50	<5	<50	10
W590009		<0.05	<50	<50	<5	<50	10
W590010		<0.05	<50	<50	<5	<50	10
W590011		0.24	<50	<50	90	<50	80
W590012		0.23	<50	<50	95	<50	80
W590013		<0.05	<50	<50	<5	<50	<10
W590014		<0.05	<50	<50	<5	<50	10
W590015		<0.05	<50	<50	<5	<50	10
W590016		<0.05	<50	<50	<5	<50	10
W590017		<0.05	<50	<50	<5	<50	10
W590018		0.14	<50	<50	118	<50	60
W590019		0.15	<50	<50	51	<50	30
W590020		<0.05	<50	<50	9	<50	10
W590021		<0.05	<50	<50	18	<50	20
W590022		0.07	<50	<50	36	<50	40
W590023		<0.05	<50	<50	<5	<50	10
W590024		<0.05	<50	<50	<5	<50	10
W590025		<0.05	<50	<50	43	<50	40
W590026		0.27	<50	<50	109	<50	70
W590027		0.17	<50	<50	67	<50	60
W590028		0.07	<50	<50	79	<50	80
W590029		<0.05	<50	<50	182	<50	440
W590030		<0.05	<50	<50	26	<50	20
W590031		<0.05	<50	<50	<5	<50	<10
W590032		<0.05	<50	<50	5	<50	10
W590033		0.07	<50	<50	131	<50	90
W590034		<0.05	<50	<50	<5	<50	10
W590035		<0.05	<50	<50	68	<50	80
W590036		<0.05	<50	<50	9	<50	20



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Page: Appendix 1  
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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