



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**

Page: 1  
Total # Pages: 2 (A - C)  
Plus Appendix Pages  
Finalized Date: 10-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17183132**

Project: DAN MAN

P.O. No.: 1006216-Batch 21

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-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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Page: 2 - A  
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**CERTIFICATE OF ANALYSIS WH17183132**

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
W636221		2.50	0.037	1	0.50	30	50	<5	<10	0.09	<5	<5	8	<5	0.97	<50
W636222		2.18	0.011	<1	1.50	20	80	<5	<10	1.51	<5	12	57	15	2.49	<50
W636223		2.82	0.007	<1	0.65	20	<50	<5	10	1.12	<5	<5	29	9	1.23	<50
W636224		2.70	0.001	<1	0.40	20	<50	<5	<10	0.05	<5	<5	9	<5	0.85	<50
W636225		2.58	0.035	<1	0.48	10	<50	<5	10	0.07	<5	<5	10	<5	0.89	<50
W636226		2.64	<0.001	<1	0.33	10	<50	<5	<10	0.96	<5	<5	10	<5	0.54	<50
W636227		2.68	0.010	<1	0.43	20	<50	<5	10	0.05	<5	<5	10	16	0.73	<50
W636228		2.54	0.001	<1	0.29	10	<50	<5	<10	0.13	<5	<5	10	<5	0.56	<50
W636229		2.48	0.003	<1	0.43	20	<50	<5	<10	0.50	<5	5	17	<5	0.94	<50
W636230		3.08	0.001	<1	0.37	10	<50	<5	10	0.10	<5	5	8	<5	0.78	<50
W636231		0.32	1.400	31	1.23	510	650	<5	10	0.26	31	8	13	135	5.37	<50
W636232		2.76	0.001	<1	0.49	10	<50	<5	<10	0.40	<5	<5	11	5	0.81	<50
W636233		2.62	<0.001	<1	0.31	<10	<50	<5	<10	0.58	<5	<5	11	<5	0.53	<50
W636234		3.02	<0.001	<1	1.52	20	80	<5	<10	3.53	<5	17	82	23	2.31	<50
W636235		2.78	<0.001	<1	0.74	10	<50	<5	10	0.74	<5	<5	21	7	1.07	<50
W636236		3.14	0.001	1	0.93	<10	<50	<5	10	0.94	<5	40	23	5	1.47	<50
W636237		2.82	<0.001	<1	0.76	<10	50	<5	<10	0.84	<5	334	25	8	1.58	<50
W636238		2.78	<0.001	<1	3.19	20	150	<5	<10	3.14	<5	30	149	38	3.55	<50
W636239		2.74	<0.001	1	0.41	<10	<50	<5	10	0.68	<5	<5	11	<5	0.61	<50
W636240		2.78	<0.001	<1	0.59	20	60	<5	10	0.43	<5	11	11	<5	0.99	<50
W636241		2.76	<0.001	<1	0.91	10	100	<5	<10	0.86	<5	<5	10	<5	1.43	<50
W636242		2.38	<0.001	1	0.51	<10	<50	<5	<10	1.24	<5	6	10	<5	0.65	<50
W636243		2.70	0.003	1	0.58	50	<50	<5	10	3.53	<5	7	17	<5	1.34	<50
W636244		2.72	<0.001	1	0.45	<10	70	<5	<10	1.23	<5	6	9	<5	0.58	<50
W636245		2.26	0.002	1	2.49	20	270	<5	10	2.86	<5	25	120	36	3.19	<50
W636246		2.52	<0.001	<1	2.90	10	1120	<5	<10	2.45	<5	33	148	47	3.43	<50
W636247		2.38	0.001	<1	<0.05	<10	<50	<5	<10	20.6	<5	5	<5	<5	0.48	<50
W636248		2.38	0.001	<1	0.29	<10	50	<5	10	0.71	<5	<5	9	13	0.62	<50
W636249		2.28	0.003	<1	0.31	<10	50	<5	<10	2.10	<5	<5	10	<5	0.89	<50
W636250		1.94	<0.001	<1	0.29	<10	<50	<5	<10	0.93	<5	<5	12	6	0.86	<50
W636251		2.62	0.001	<1	0.19	<10	<50	<5	<10	0.14	<5	<5	9	7	0.89	<50
W636252		2.66	0.001	<1	0.29	<10	<50	<5	10	4.61	<5	<5	10	<5	1.12	<50
W636253		2.60	<0.001	<1	0.38	<10	<50	<5	<10	0.73	<5	<5	14	7	1.06	<50
W636254		2.32	0.003	<1	0.35	<10	50	<5	10	0.82	<5	<5	14	9	1.08	<50
W636255		2.66	<0.001	<1	0.32	<10	50	<5	10	0.36	<5	<5	9	<5	0.68	<50
W636256		2.60	<0.001	<1	0.35	<10	<50	<5	<10	0.94	<5	<5	9	5	0.59	<50



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Page: 2 - B  
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**CERTIFICATE OF ANALYSIS WH17183132**

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
W636221		<5	0.27	<50	0.05	110	<5	<0.05	<5	140	<10	<0.05	<10	<5	20	<100
W636222		<5	0.76	<50	0.88	360	<5	<0.05	20	370	<10	<0.05	<10	6	43	<100
W636223		<5	0.24	<50	0.28	190	<5	<0.05	10	150	10	<0.05	<10	<5	24	<100
W636224		<5	0.18	<50	<0.05	110	<5	<0.05	<5	50	<10	<0.05	<10	<5	6	<100
W636225		<5	0.23	<50	0.05	190	<5	<0.05	<5	60	<10	<0.05	<10	<5	17	<100
W636226		<5	0.16	<50	<0.05	100	<5	0.05	<5	60	10	<0.05	<10	<5	24	<100
W636227		<5	0.21	<50	<0.05	150	<5	<0.05	<5	90	<10	<0.05	<10	<5	15	<100
W636228		<5	0.15	<50	<0.05	100	<5	0.05	<5	60	<10	<0.05	<10	<5	6	<100
W636229		<5	0.21	<50	0.14	150	<5	<0.05	<5	140	<10	<0.05	<10	<5	12	<100
W636230		<5	0.13	<50	<0.05	70	<5	0.07	<5	80	<10	<0.05	<10	<5	15	<100
W636231		6	0.50	<50	0.09	1040	<5	<0.05	5	1450	3430	0.46	20	5	168	<100
W636232		<5	0.17	<50	0.08	90	<5	0.07	<5	130	10	<0.05	<10	<5	32	<100
W636233		<5	0.11	<50	<0.05	80	<5	0.06	<5	70	<10	<0.05	<10	<5	18	<100
W636234		<5	0.42	<50	1.10	550	<5	0.05	24	440	10	0.16	<10	6	94	<100
W636235		<5	0.24	<50	0.41	190	34	0.06	6	240	<10	<0.05	<10	<5	27	<100
W636236		<5	0.35	<50	0.53	210	421	0.06	<5	310	<10	0.09	<10	<5	48	<100
W636237		5	0.40	<50	0.48	250	36	0.06	10	190	10	0.05	<10	<5	31	<100
W636238		<5	1.76	<50	2.81	730	<5	<0.05	69	660	10	0.08	<10	7	88	<100
W636239		7	0.20	<50	0.09	110	35	0.05	<5	80	<10	0.05	<10	<5	27	<100
W636240		<5	0.34	60	0.13	200	<5	<0.05	<5	110	<10	<0.05	<10	<5	20	<100
W636241		<5	0.64	80	0.28	350	10	<0.05	<5	310	<10	0.09	<10	<5	37	<100
W636242		<5	0.26	60	0.07	270	<5	0.05	<5	120	<10	0.06	<10	<5	30	<100
W636243		<5	0.34	50	0.69	500	<5	<0.05	13	180	<10	0.14	<10	<5	58	<100
W636244		<5	0.28	60	0.05	250	<5	<0.05	<5	110	<10	0.06	<10	<5	25	<100
W636245		<5	1.62	<50	2.51	680	5	<0.05	50	510	<10	0.08	<10	7	82	<100
W636246		<5	1.58	<50	2.65	720	<5	<0.05	75	660	10	0.08	<10	6	151	<100
W636247		<5	<0.05	<50	11.65	230	<5	<0.05	<5	190	<10	0.05	<10	<5	48	<100
W636248		6	0.26	60	0.06	170	<5	0.05	<5	80	<10	<0.05	<10	<5	15	<100
W636249		5	0.21	50	0.09	350	<5	<0.05	<5	90	<10	<0.05	<10	<5	16	<100
W636250		<5	0.21	<50	0.12	160	<5	0.06	<5	110	<10	<0.05	10	<5	17	<100
W636251		5	0.18	60	<0.05	130	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100
W636252		<5	0.24	50	0.32	420	<5	<0.05	<5	80	<10	<0.05	<10	<5	55	<100
W636253		<5	0.25	50	0.13	180	<5	0.05	5	90	<10	<0.05	<10	<5	17	<100
W636254		<5	0.22	50	0.11	250	<5	<0.05	<5	80	<10	<0.05	<10	<5	13	<100
W636255		<5	0.29	60	0.07	140	<5	<0.05	<5	70	<10	<0.05	<10	<5	9	<100
W636256		<5	0.22	<50	0.08	120	<5	0.07	<5	120	<10	<0.05	<10	<5	23	<100



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Page: 2 - C  
Total # Pages: 2 (A - C)  
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**CERTIFICATE OF ANALYSIS WH17183132**

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
W636221		<0.05	<50	<50	<5	<50	10
W636222		0.09	<50	<50	36	50	20
W636223		0.05	<50	<50	17	<50	10
W636224		<0.05	<50	<50	<5	<50	<10
W636225		<0.05	<50	<50	<5	<50	10
W636226		<0.05	<50	<50	<5	<50	10
W636227		<0.05	<50	<50	<5	<50	10
W636228		<0.05	<50	<50	<5	<50	<10
W636229		<0.05	<50	<50	11	<50	10
W636230		<0.05	<50	<50	<5	<50	<10
W636231		<0.05	<50	<50	59	<50	2320
W636232		<0.05	<50	<50	<5	<50	10
W636233		<0.05	<50	<50	<5	<50	<10
W636234		0.13	<50	<50	49	<50	30
W636235		<0.05	<50	<50	11	<50	10
W636236		0.08	<50	<50	14	250	10
W636237		0.06	<50	<50	15	1840	40
W636238		0.44	<50	<50	85	<50	60
W636239		<0.05	<50	<50	<5	<50	10
W636240		<0.05	<50	<50	<5	90	10
W636241		0.06	<50	<50	<5	<50	20
W636242		<0.05	<50	<50	<5	<50	10
W636243		<0.05	<50	<50	8	<50	20
W636244		<0.05	<50	<50	<5	50	10
W636245		0.26	<50	<50	68	<50	50
W636246		0.43	<50	<50	82	<50	60
W636247		<0.05	<50	<50	<5	<50	20
W636248		<0.05	<50	<50	<5	<50	10
W636249		<0.05	<50	<50	<5	<50	10
W636250		<0.05	<50	<50	<5	<50	10
W636251		<0.05	<50	<50	<5	<50	10
W636252		<0.05	<50	<50	8	<50	20
W636253		<0.05	<50	<50	<5	<50	10
W636254		<0.05	<50	<50	7	<50	10
W636255		<0.05	<50	<50	<5	<50	10
W636256		<0.05	<50	<50	<5	<50	<10



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Page: Appendix 1  
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**CERTIFICATE OF ANALYSIS WH17183132**

**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