



ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
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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: 17-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17189971**

Project: Dan Man

P.O. No.: 1006216-Batch 46

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-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**  
**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 WH17189971**

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
K294021		3.78	<0.001	<1	0.49	10	<50	<5	<10	0.13	<5	<5	24	16	1.06	<50
K294022		3.32	<0.001	<1	0.59	10	50	<5	<10	0.10	<5	<5	23	6	1.23	<50
K294023		3.64	<0.001	1	0.62	10	60	<5	<10	0.18	<5	<5	24	7	1.21	<50
K294024		2.92	<0.001	<1	1.93	<10	350	<5	<10	0.30	<5	11	91	12	3.20	<50
K294025		3.04	<0.001	1	0.73	10	120	<5	<10	0.12	<5	<5	22	5	1.50	<50
K294026		3.36	<0.001	<1	1.42	20	160	<5	<10	0.25	<5	7	35	10	2.65	<50
K294027		2.46	<0.001	<1	1.58	10	140	<5	<10	0.34	<5	7	28	9	2.71	<50
K294028		2.84	<0.001	<1	0.44	10	150	<5	<10	0.10	<5	<5	25	7	1.07	<50
K294029		0.34	1.365	31	1.06	500	610	<5	<10	0.25	30	<5	12	134	5.34	<50
K294030		2.84	<0.001	<1	0.37	10	<50	<5	<10	0.07	<5	<5	15	11	0.86	<50
K294031		2.50	<0.001	<1	1.60	10	80	<5	<10	0.64	<5	12	57	13	2.38	<50
K294032		2.84	<0.001	<1	0.33	10	<50	<5	<10	<0.05	<5	<5	11	<5	0.75	<50
K294033		2.92	<0.001	1	2.81	10	770	<5	<10	1.56	<5	24	76	26	4.51	<50
K294034		2.42	<0.001	<1	2.39	<10	680	<5	<10	2.59	<5	28	66	26	3.94	<50
K294035		2.44	<0.001	<1	0.64	10	140	<5	<10	0.50	<5	<5	26	13	1.35	<50
K294036		2.44	<0.001	<1	0.38	<10	<50	<5	<10	0.07	<5	<5	16	5	0.91	<50
K294037		2.54	<0.001	1	0.81	20	70	<5	<10	0.14	<5	6	15	6	1.81	<50
K294038		2.32	<0.001	<1	0.83	10	70	<5	<10	0.10	<5	<5	20	6	1.95	<50
K294039		2.34	<0.001	<1	0.40	10	<50	<5	<10	<0.05	<5	<5	14	5	0.93	<50
K294040		2.92	<0.001	1	0.35	20	<50	<5	<10	<0.05	<5	<5	14	6	1.09	<50
K294041		2.84	<0.001	1	0.35	10	<50	<5	<10	<0.05	<5	<5	14	5	0.78	<50
K294042		2.70	<0.001	<1	0.39	10	<50	<5	<10	<0.05	<5	<5	13	<5	1.02	<50
K294043		2.60	<0.001	<1	0.52	10	60	<5	<10	0.05	<5	<5	12	9	1.16	<50
K294044		2.52	<0.001	<1	1.43	<10	100	<5	<10	0.43	<5	13	114	28	2.20	<50
K294045		2.82	<0.001	1	0.35	<10	<50	<5	<10	<0.05	<5	<5	13	5	0.71	<50
K294046		2.50	<0.001	1	0.54	10	<50	<5	<10	<0.05	<5	<5	8	<5	0.81	<50
K294047		2.62	0.005	1	0.42	30	<50	<5	<10	<0.05	<5	<5	13	8	0.94	<50
K294048		2.46	<0.001	1	0.59	10	<50	<5	<10	<0.05	<5	<5	11	5	0.71	<50
K294049		2.30	0.005	<1	0.66	10	<50	<5	<10	<0.05	<5	<5	8	5	0.83	<50
K294050		2.42	0.008	1	0.58	50	70	<5	<10	<0.05	<5	<5	7	6	0.93	<50
K294051		2.36	<0.001	<1	<0.05	<10	<50	<5	<10	21.9	<5	<5	<5	<5	0.47	<50
K294052		2.64	0.001	<1	0.52	10	<50	<5	<10	0.06	<5	<5	8	<5	0.56	<50
K294053		2.48	0.002	1	0.51	20	<50	<5	<10	<0.05	<5	<5	9	<5	0.71	<50
K294054		2.58	0.001	1	0.63	10	60	<5	<10	0.08	<5	<5	12	6	1.39	<50
K294055		2.24	<0.001	<1	0.79	10	80	<5	<10	0.12	<5	5	12	17	1.38	<50
K294056		2.52	<0.001	1	0.48	<10	<50	<5	<10	0.25	<5	<5	15	15	0.98	<50



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**CERTIFICATE OF ANALYSIS WH17189971**

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
K294021		<5	0.28	<50	0.27	150	5	0.07	20	130	20	<0.05	<10	<5	11	<100
K294022		<5	0.39	<50	0.31	240	<5	0.06	11	260	<10	<0.05	<10	<5	8	<100
K294023		<5	0.34	<50	0.34	200	<5	0.05	5	170	<10	<0.05	<10	<5	9	<100
K294024		<5	1.26	<50	1.59	620	<5	0.05	36	700	10	<0.05	<10	8	11	<100
K294025		<5	0.49	<50	0.41	290	<5	0.05	11	390	<10	<0.05	10	<5	<5	<100
K294026		<5	1.03	<50	1.08	500	<5	0.06	15	630	20	<0.05	10	6	<5	<100
K294027		<5	1.16	<50	1.20	520	<5	0.07	21	800	<10	<0.05	<10	<5	18	<100
K294028		<5	0.29	<50	0.14	160	<5	0.08	10	120	<10	<0.05	<10	<5	9	<100
K294029		<5	0.46	<50	0.09	1010	<5	<0.05	13	1340	3240	0.39	30	<5	143	<100
K294030		<5	0.22	<50	0.09	130	5	0.08	12	80	<10	<0.05	<10	<5	<5	<100
K294031		<5	0.86	<50	1.27	460	<5	0.06	29	570	20	<0.05	<10	5	29	<100
K294032		<5	0.22	<50	0.05	90	<5	0.08	5	60	10	<0.05	<10	<5	<5	<100
K294033		<5	2.01	<50	2.45	910	<5	0.05	46	1380	<10	<0.05	<10	8	42	<100
K294034		5	1.70	<50	2.04	720	<5	0.05	35	1290	<10	0.13	<10	5	59	<100
K294035		<5	0.38	<50	0.36	210	<5	0.07	11	230	10	<0.05	<10	<5	10	<100
K294036		<5	0.21	<50	0.10	100	<5	0.11	9	120	<10	<0.05	10	<5	8	<100
K294037		<5	0.54	<50	0.39	220	<5	0.09	8	380	<10	<0.05	<10	<5	8	<100
K294038		<5	0.60	<50	0.38	250	<5	0.05	7	370	10	<0.05	<10	<5	9	<100
K294039		<5	0.21	<50	0.09	120	<5	0.07	<5	70	<10	<0.05	<10	<5	11	<100
K294040		<5	0.24	<50	0.06	140	<5	0.05	5	80	<10	<0.05	<10	<5	12	<100
K294041		<5	0.15	<50	<0.05	110	<5	0.08	5	70	<10	<0.05	<10	<5	7	<100
K294042		<5	0.25	<50	0.05	130	<5	0.05	7	60	10	<0.05	<10	<5	5	<100
K294043		5	0.35	50	0.11	180	<5	0.07	6	160	20	<0.05	<10	<5	<5	<100
K294044		<5	0.83	<50	1.05	410	<5	0.05	50	450	20	<0.05	<10	7	14	<100
K294045		<5	0.21	<50	<0.05	100	<5	0.09	7	70	<10	<0.05	<10	<5	<5	<100
K294046		<5	0.21	<50	0.05	130	<5	0.05	<5	<50	10	<0.05	10	<5	<5	<100
K294047		<5	0.22	<50	<0.05	130	<5	<0.05	<5	50	<10	<0.05	<10	<5	<5	<100
K294048		<5	0.18	<50	<0.05	130	<5	0.07	7	50	<10	<0.05	<10	<5	<5	<100
K294049		<5	0.16	<50	<0.05	120	<5	<0.05	6	50	<10	<0.05	<10	<5	<5	<100
K294050		<5	0.18	<50	<0.05	300	<5	<0.05	5	100	10	<0.05	<10	<5	<5	<100
K294051		<5	<0.05	<50	12.30	220	<5	<0.05	<5	170	<10	<0.05	<10	<5	30	<100
K294052		<5	0.14	<50	0.05	100	<5	<0.05	5	<50	<10	<0.05	<10	<5	<5	<100
K294053		<5	0.17	<50	<0.05	140	<5	0.05	<5	50	10	<0.05	<10	<5	<5	<100
K294054		<5	0.37	<50	0.22	190	<5	0.06	6	260	<10	<0.05	<10	<5	10	<100
K294055		<5	0.54	<50	0.30	260	<5	0.05	8	280	<10	<0.05	<10	<5	<5	<100
K294056		<5	0.21	<50	0.19	110	5	0.05	7	60	10	<0.05	<10	<5	<5	<100



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**CERTIFICATE OF ANALYSIS WH17189971**

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
K294021		<0.05	<50	<50	9	<50	20
K294022		<0.05	<50	<50	11	<50	20
K294023		0.06	<50	<50	12	<50	10
K294024		0.15	<50	<50	59	<50	50
K294025		<0.05	<50	<50	14	<50	20
K294026		0.12	<50	<50	45	<50	80
K294027		0.15	<50	<50	42	<50	50
K294028		<0.05	<50	<50	6	<50	10
K294029		<0.05	<50	<50	56	<50	2250
K294030		<0.05	<50	<50	<5	<50	10
K294031		0.20	<50	<50	46	<50	40
K294032		<0.05	<50	<50	<5	<50	10
K294033		0.34	<50	<50	89	<50	80
K294034		0.40	<50	<50	82	<50	80
K294035		0.06	<50	<50	16	<50	60
K294036		<0.05	<50	<50	<5	<50	10
K294037		0.06	<50	<50	17	<50	20
K294038		0.06	<50	<50	21	<50	20
K294039		<0.05	<50	<50	<5	<50	10
K294040		<0.05	<50	<50	5	<50	20
K294041		<0.05	<50	<50	<5	<50	10
K294042		<0.05	<50	<50	<5	<50	20
K294043		<0.05	<50	<50	<5	<50	20
K294044		0.11	<50	<50	36	<50	40
K294045		<0.05	<50	<50	<5	<50	20
K294046		<0.05	<50	<50	<5	<50	10
K294047		<0.05	<50	<50	<5	<50	10
K294048		<0.05	<50	<50	<5	<50	10
K294049		<0.05	<50	<50	<5	<50	10
K294050		<0.05	<50	<50	5	<50	20
K294051		<0.05	<50	<50	<5	<50	10
K294052		<0.05	<50	<50	<5	<50	10
K294053		<0.05	<50	<50	<5	<50	10
K294054		<0.05	<50	<50	12	<50	30
K294055		<0.05	<50	<50	10	<50	20
K294056		<0.05	<50	<50	6	<50	10



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**CERTIFICATE OF ANALYSIS WH17189971**

**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	