



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 WH17186539**

Project: Dan Man

P.O. No.: 1006216-Batch 31

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-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
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**  
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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 WH17186539**

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
W636581		2.26	<0.001	<1	2.78	<10	850	<5	10	4.10	<5	31	258	48	4.43	<50
W636582		2.82	<0.001	<1	0.56	<10	90	<5	10	2.63	<5	10	77	9	2.11	<50
W636583		2.42	<0.001	<1	0.38	10	50	<5	<10	0.29	<5	<5	16	<5	0.77	<50
W636584		2.56	<0.001	<1	2.45	20	110	5	<10	1.90	<5	20	217	26	4.36	<50
W636585		2.64	<0.001	<1	0.57	<10	<50	<5	<10	0.58	<5	5	34	10	1.16	<50
W636586		2.20	<0.001	1	0.43	<10	<50	<5	<10	0.05	<5	<5	8	8	0.70	<50
W636587		2.30	<0.001	<1	0.33	10	<50	<5	<10	0.06	<5	7	12	9	0.80	<50
W636588		2.30	0.017	<1	0.38	20	<50	<5	<10	0.05	<5	<5	10	<5	0.76	<50
W636589		2.20	0.031	<1	3.08	<10	360	<5	<10	3.76	<5	25	101	5	5.28	<50
W636590		2.40	<0.001	<1	2.88	<10	360	<5	<10	4.27	<5	20	127	<5	4.74	<50
W636591		0.30	1.320	31	1.26	540	660	<5	<10	0.27	32	11	13	138	5.50	<50
W636592		2.56	<0.001	<1	2.71	<10	120	<5	<10	3.62	<5	16	116	<5	4.09	<50
W636593		2.52	<0.001	<1	0.96	<10	<50	<5	<10	1.25	<5	10	13	5	2.01	<50
W636594		3.02	<0.001	<1	2.18	<10	230	<5	<10	3.00	<5	18	122	7	3.44	<50
W636595		2.12	<0.001	<1	2.23	<10	240	<5	<10	2.97	<5	18	89	9	3.15	<50
W636596		2.52	<0.001	<1	2.79	<10	110	<5	<10	4.13	<5	24	85	<5	3.85	<50
W636597		3.02	<0.001	<1	2.51	<10	80	<5	10	3.73	<5	25	90	<5	3.55	<50
W636598		3.12	<0.001	<1	2.62	<10	160	<5	<10	2.71	<5	21	86	<5	3.50	<50
W636599		2.72	<0.001	<1	2.03	<10	170	<5	<10	2.22	<5	16	76	<5	2.59	<50
W636600		2.76	<0.001	<1	2.22	<10	100	<5	<10	2.38	<5	18	103	8	3.10	<50
W636601		2.80	0.001	<1	2.26	<10	140	<5	10	3.06	<5	25	123	12	3.11	<50
W636602		2.78	0.001	<1	2.99	10	330	<5	<10	3.17	<5	22	90	18	4.19	<50
W636603		2.60	<0.001	<1	3.27	10	360	<5	<10	3.21	<5	27	83	11	4.20	<50
W636604		2.98	<0.001	1	3.05	<10	190	<5	<10	3.09	<5	25	153	<5	3.99	<50
W636605		3.28	<0.001	<1	2.58	20	190	<5	<10	3.01	<5	26	188	9	3.66	<50
W636606		2.86	<0.001	<1	2.79	<10	360	<5	<10	2.78	<5	19	185	5	3.71	<50
W636607		2.52	<0.001	<1	2.69	<10	480	<5	<10	4.00	<5	19	146	<5	3.83	<50
W636608		2.32	<0.001	<1	<0.05	<10	<50	<5	10	20.8	<5	<5	<5	15	0.84	<50
W636609		2.92	<0.001	<1	1.00	10	120	<5	10	2.22	<5	8	56	7	1.77	<50
W636610		2.86	0.010	<1	0.39	<10	<50	<5	<10	0.41	<5	<5	8	8	0.39	<50
W636611		2.78	<0.001	<1	0.33	<10	<50	<5	<10	0.34	<5	<5	10	7	0.45	<50
W636612		3.12	<0.001	<1	0.39	<10	<50	<5	<10	0.33	<5	<5	11	<5	0.49	<50
W636613		3.16	<0.001	<1	0.51	<10	<50	<5	<10	1.11	<5	<5	8	<5	0.39	<50
W636614		2.58	0.002	<1	0.47	10	<50	<5	<10	0.46	<5	<5	7	<5	0.40	<50
W636615		3.26	0.012	<1	0.38	10	<50	<5	<10	0.29	<5	<5	9	<5	0.36	<50
W636616		2.96	0.021	1	0.76	20	90	<5	10	5.82	<5	13	24	8	2.70	<50



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**CERTIFICATE OF ANALYSIS WH17186539**

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
W636581		<5	1.73	<50	2.38	840	<5	0.05	101	1580	20	<0.05	<10	10	73	<100
W636582		<5	0.20	<50	0.19	480	<5	0.05	31	490	20	<0.05	<10	6	25	<100
W636583		<5	0.15	<50	0.05	120	<5	0.07	6	90	10	<0.05	<10	<5	8	<100
W636584		<5	1.60	<50	1.98	750	<5	<0.05	94	1140	10	<0.05	10	18	13	<100
W636585		<5	0.29	<50	0.23	230	<5	<0.05	14	190	20	<0.05	<10	<5	5	<100
W636586		<5	0.20	<50	0.05	120	<5	0.09	<5	60	20	<0.05	<10	<5	<5	<100
W636587		<5	0.12	<50	<0.05	150	<5	0.07	<5	70	20	<0.05	<10	<5	<5	<100
W636588		<5	0.13	<50	0.05	140	<5	0.06	6	50	10	<0.05	<10	<5	5	<100
W636589		<5	2.01	<50	2.58	910	<5	0.06	49	650	20	0.06	<10	21	39	<100
W636590		<5	1.54	<50	2.89	880	<5	0.13	50	380	10	<0.05	<10	21	53	<100
W636591		8	0.52	<50	0.10	1050	6	<0.05	10	1480	3490	0.45	20	5	170	<100
W636592		<5	1.00	<50	2.48	720	<5	0.14	40	390	20	<0.05	<10	19	39	<100
W636593		<5	0.33	<50	0.65	240	<5	0.12	21	280	10	<0.05	<10	9	14	<100
W636594		5	1.06	<50	2.06	540	<5	0.10	44	450	20	<0.05	<10	14	26	<100
W636595		<5	1.05	<50	2.26	650	5	0.08	35	290	10	<0.05	<10	12	37	<100
W636596		<5	1.02	<50	3.43	760	10	0.09	40	280	10	<0.05	<10	16	59	<100
W636597		<5	0.77	<50	2.67	590	<5	0.09	42	310	10	<0.05	<10	17	38	<100
W636598		<5	1.03	<50	2.86	560	<5	0.12	34	250	20	<0.05	<10	13	30	<100
W636599		<5	0.89	<50	2.20	450	<5	0.15	30	350	20	<0.05	<10	8	34	<100
W636600		<5	0.60	<50	2.22	490	<5	0.14	44	420	10	<0.05	<10	10	30	<100
W636601		<5	0.80	<50	2.20	550	6	0.14	51	720	<10	0.13	<10	8	53	<100
W636602		<5	1.36	<50	2.93	870	<5	0.14	49	940	10	0.06	<10	11	58	<100
W636603		<5	1.55	<50	3.15	850	<5	0.10	50	760	20	0.05	<10	9	65	<100
W636604		<5	1.15	<50	3.04	680	<5	0.18	75	350	20	0.12	<10	11	49	<100
W636605		<5	0.74	<50	2.62	640	6	0.16	77	610	10	0.19	<10	11	58	<100
W636606		<5	1.27	<50	2.87	640	<5	0.14	68	560	20	<0.05	10	11	48	<100
W636607		<5	1.17	<50	2.66	700	<5	0.08	54	320	10	0.06	10	19	51	<100
W636608		<5	<0.05	<50	11.75	250	<5	<0.05	9	190	10	<0.05	<10	<5	28	<100
W636609		<5	0.39	<50	0.56	330	<5	0.06	22	150	<10	<0.05	<10	8	37	<100
W636610		<5	0.11	<50	0.07	50	<5	0.07	6	<50	10	<0.05	<10	<5	14	<100
W636611		<5	0.16	<50	0.05	70	<5	0.07	7	<50	10	<0.05	<10	<5	12	<100
W636612		<5	0.16	<50	<0.05	70	<5	0.07	<5	<50	<10	<0.05	<10	<5	9	<100
W636613		<5	0.13	<50	<0.05	70	<5	<0.05	6	<50	10	<0.05	<10	<5	22	<100
W636614		<5	0.14	<50	<0.05	50	<5	0.06	<5	50	10	<0.05	<10	<5	14	<100
W636615		<5	0.12	<50	<0.05	40	<5	0.07	5	<50	<10	<0.05	<10	<5	7	<100
W636616		<5	0.33	<50	0.41	820	<5	<0.05	30	480	30	<0.05	<10	<5	65	<100



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**CERTIFICATE OF ANALYSIS WH17186539**

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
W636581		0.34	<50	<50	112	<50	80
W636582		<0.05	<50	<50	33	<50	110
W636583		<0.05	<50	<50	<5	<50	20
W636584		0.13	<50	<50	96	<50	80
W636585		<0.05	<50	<50	13	<50	30
W636586		<0.05	<50	<50	<5	<50	20
W636587		<0.05	<50	<50	<5	<50	20
W636588		<0.05	<50	<50	<5	<50	30
W636589		0.32	<50	<50	163	<50	100
W636590		0.22	<50	<50	160	<50	50
W636591		<0.05	<50	<50	62	<50	2340
W636592		0.10	<50	<50	116	<50	50
W636593		<0.05	<50	<50	31	<50	30
W636594		0.11	<50	<50	90	<50	60
W636595		0.11	<50	<50	83	<50	40
W636596		0.13	<50	<50	110	<50	40
W636597		0.11	<50	<50	110	<50	30
W636598		0.18	<50	<50	96	<50	40
W636599		0.20	<50	<50	76	<50	40
W636600		0.27	<50	<50	88	<50	30
W636601		0.41	<50	<50	92	<50	40
W636602		0.32	<50	<50	102	<50	60
W636603		0.31	<50	<50	98	<50	60
W636604		0.18	<50	<50	106	<50	80
W636605		0.15	<50	<50	109	<50	40
W636606		0.19	<50	<50	106	<50	50
W636607		0.11	<50	<50	110	<50	60
W636608		<0.05	<50	<50	<5	<50	20
W636609		<0.05	<50	<50	45	<50	40
W636610		<0.05	<50	<50	<5	<50	10
W636611		<0.05	<50	<50	<5	<50	10
W636612		<0.05	<50	<50	<5	<50	<10
W636613		<0.05	<50	<50	<5	<50	<10
W636614		<0.05	<50	<50	<5	<50	<10
W636615		<0.05	<50	<50	<5	<50	<10
W636616		<0.05	<50	<50	14	<50	70



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**CERTIFICATE OF ANALYSIS WH17186539**

**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