



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: 3-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17186545**

Project: Dan Man

P.O. No.: 1006216-Batch 32

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**  
**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 WH17186545**

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
W636617		3.90	<0.001	<1	0.48	<10	70	<5	<10	1.04	<5	<5	10	6	0.54	<50
W636618		2.80	<0.001	<1	0.41	<10	<50	<5	<10	0.84	<5	<5	6	<5	0.31	<50
W636619		3.14	<0.001	<1	0.45	<10	<50	<5	<10	1.17	<5	<5	8	<5	0.34	<50
W636620		2.62	0.004	1	0.32	<10	<50	<5	<10	0.54	<5	<5	12	5	0.53	<50
W636621		2.76	0.006	1	0.34	<10	<50	<5	<10	0.53	<5	<5	9	<5	0.41	<50
W636622		2.92	0.011	<1	0.47	10	<50	<5	<10	1.71	<5	<5	8	<5	0.55	<50
W636623		2.64	<0.001	<1	0.53	<10	<50	<5	<10	1.42	<5	<5	8	<5	0.38	<50
W636624		2.76	<0.001	<1	0.66	<10	<50	<5	<10	1.17	<5	<5	8	<5	0.35	<50
W636625		3.02	0.024	<1	0.63	110	90	<5	<10	2.22	<5	<5	11	<5	1.33	<50
W636626		3.14	0.063	<1	0.44	40	70	<5	<10	1.19	<5	<5	11	<5	0.96	<50
W636627		2.74	0.074	<1	0.50	40	60	<5	<10	1.46	<5	<5	10	<5	1.14	<50
W636628		2.98	0.018	<1	1.16	50	230	<5	<10	5.14	<5	12	36	15	2.99	<50
W636629		2.82	0.003	<1	0.49	10	<50	<5	10	1.34	<5	<5	9	9	0.94	<50
W636630		2.46	0.132	1	0.62	70	<50	<5	10	2.09	<5	19	12	46	0.92	<50
W636631		3.16	1.235	1	0.51	240	<50	<5	10	1.41	<5	<5	8	10	1.13	<50
W636632		2.40	0.003	<1	<0.05	<10	<50	<5	<10	21.0	<5	<5	<5	<5	0.45	<50
W636633		2.94	0.080	<1	0.57	300	<50	<5	<10	2.83	<5	<5	13	5	1.17	<50
W636634		3.32	0.315	<1	0.45	90	<50	<5	<10	3.23	<5	<5	8	5	1.22	<50
W636635		2.70	0.091	<1	1.50	490	150	<5	10	11.80	<5	15	75	8	4.41	<50
W636636		2.88	0.006	<1	1.18	20	90	<5	<10	1.41	<5	<5	21	<5	1.99	<50
W636637		2.80	0.007	<1	2.59	20	150	<5	<10	3.91	<5	21	74	5	3.69	<50
W636638		3.02	0.002	<1	1.97	10	240	<5	<10	6.53	<5	19	78	16	4.56	<50
W636639		2.92	0.002	<1	2.27	<10	400	<5	10	4.51	<5	18	90	<5	4.06	<50
W636640		3.22	<0.001	<1	2.45	10	240	<5	<10	4.05	<5	24	100	12	4.65	<50
W636641		3.30	<0.001	<1	1.84	30	<50	<5	<10	5.38	<5	19	81	<5	4.53	<50
W636642		3.24	<0.001	<1	1.53	<10	50	<5	20	6.07	<5	16	115	<5	4.70	<50
W636643		3.06	<0.001	<1	1.36	10	90	<5	<10	3.32	<5	11	40	<5	3.40	<50
W636644		3.26	<0.001	<1	0.31	10	<50	<5	<10	0.40	<5	<5	9	<5	0.38	<50
W636645		2.90	<0.001	<1	0.31	<10	<50	<5	10	0.75	<5	<5	12	<5	0.38	<50
W636646		3.16	0.005	<1	0.36	<10	<50	<5	10	1.32	<5	<5	10	5	0.38	<50
W636647		0.32	1.160	<1	0.64	260	120	<5	10	18.25	<5	5	29	79	2.60	<50
W636648		2.96	0.001	<1	0.45	<10	<50	<5	<10	1.35	<5	<5	8	<5	0.37	<50
W636649		2.96	0.002	<1	0.48	<10	<50	<5	<10	1.28	<5	<5	8	<5	0.38	<50
W636650		2.96	0.004	<1	0.37	<10	<50	<5	<10	0.58	<5	<5	8	<5	0.31	<50
W636651		2.98	0.014	<1	0.38	10	<50	<5	10	0.62	<5	<5	7	<5	0.51	<50
W636652		3.10	0.009	<1	0.54	<10	<50	<5	<10	1.78	<5	<5	11	<5	0.93	<50



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**CERTIFICATE OF ANALYSIS WH17186545**

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
W636617		<5	0.19	<50	0.10	110	<5	<0.05	<5	110	30	<0.05	10	<5	15	<100
W636618		<5	0.10	<50	<0.05	70	<5	<0.05	<5	<50	10	<0.05	10	<5	13	<100
W636619		<5	0.10	<50	0.08	70	<5	<0.05	<5	<50	10	<0.05	<10	<5	24	<100
W636620		<5	0.14	<50	<0.05	70	5	0.05	<5	<50	10	<0.05	<10	<5	8	<100
W636621		<5	0.14	<50	<0.05	60	<5	0.05	<5	<50	20	<0.05	10	<5	12	<100
W636622		<5	0.13	<50	0.22	110	<5	<0.05	<5	<50	20	<0.05	<10	<5	21	<100
W636623		<5	0.11	<50	<0.05	100	<5	<0.05	5	<50	10	<0.05	10	<5	18	<100
W636624		<5	0.15	<50	<0.05	90	<5	<0.05	<5	<50	40	<0.05	<10	<5	16	<100
W636625		<5	0.21	<50	0.15	430	<5	<0.05	<5	190	30	<0.05	10	<5	27	<100
W636626		<5	0.16	<50	0.06	180	<5	<0.05	<5	70	80	<0.05	<10	<5	8	<100
W636627		<5	0.19	<50	0.06	300	<5	<0.05	<5	250	20	<0.05	10	<5	19	<100
W636628		<5	0.41	<50	1.32	720	<5	<0.05	28	920	30	0.08	20	6	69	<100
W636629		<5	0.17	<50	0.11	210	<5	<0.05	8	120	40	<0.05	10	<5	18	<100
W636630		<5	0.24	<50	0.07	270	27	<0.05	28	80	70	<0.05	20	<5	27	<100
W636631		<5	0.38	<50	0.05	150	<5	<0.05	<5	90	20	<0.05	10	<5	19	<100
W636632		<5	<0.05	<50	11.90	200	<5	<0.05	7	170	10	<0.05	20	<5	44	<100
W636633		<5	0.24	<50	0.10	280	<5	<0.05	11	300	10	<0.05	10	<5	39	<100
W636634		<5	0.24	<50	0.32	270	<5	<0.05	5	70	30	0.07	20	<5	50	<100
W636635		<5	0.37	<50	0.61	870	<5	<0.05	46	290	20	<0.05	30	21	67	<100
W636636		<5	0.25	<50	0.71	330	<5	<0.05	11	310	10	<0.05	20	10	18	<100
W636637		<5	0.61	<50	1.53	690	<5	0.05	38	470	10	<0.05	30	15	29	<100
W636638		<5	0.54	<50	0.88	800	<5	<0.05	47	1250	40	<0.05	20	17	42	<100
W636639		<5	0.64	<50	3.35	750	<5	0.05	41	310	10	<0.05	10	24	84	<100
W636640		<5	0.85	<50	3.13	850	<5	0.07	40	920	10	0.09	20	19	96	<100
W636641		<5	0.37	<50	2.55	850	<5	0.05	40	540	20	0.07	30	22	96	<100
W636642		<5	0.45	<50	2.66	900	<5	<0.05	58	850	190	<0.05	<10	26	142	<100
W636643		<5	0.36	<50	1.59	730	<5	0.05	16	430	10	0.06	10	17	69	<100
W636644		<5	0.07	<50	0.09	80	<5	0.07	<5	<50	250	<0.05	10	<5	7	<100
W636645		<5	0.08	<50	0.08	70	<5	0.08	<5	<50	790	<0.05	20	<5	13	<100
W636646		<5	0.06	<50	<0.05	80	<5	<0.05	<5	<50	50	<0.05	<10	<5	15	<100
W636647		<5	0.22	<50	3.26	1760	72	<0.05	75	1180	80	0.93	10	<5	205	<100
W636648		<5	0.08	<50	<0.05	90	<5	<0.05	<5	50	30	<0.05	10	<5	26	<100
W636649		<5	0.07	<50	<0.05	80	<5	<0.05	<5	<50	20	<0.05	10	<5	24	<100
W636650		<5	0.09	<50	<0.05	50	<5	0.05	<5	<50	10	<0.05	10	<5	15	<100
W636651		<5	0.06	<50	<0.05	70	<5	0.05	<5	<50	10	<0.05	10	<5	7	<100
W636652		<5	0.14	<50	0.39	220	15	<0.05	6	80	10	0.10	<10	<5	45	<100



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**CERTIFICATE OF ANALYSIS WH17186545**

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
W636617		<0.05	<50	<50	<5	<50	10
W636618		<0.05	<50	<50	<5	<50	<10
W636619		<0.05	<50	<50	<5	<50	<10
W636620		<0.05	<50	<50	<5	<50	<10
W636621		<0.05	<50	<50	<5	<50	<10
W636622		<0.05	<50	<50	<5	<50	10
W636623		<0.05	<50	<50	<5	<50	<10
W636624		<0.05	<50	<50	<5	<50	<10
W636625		<0.05	<50	<50	8	<50	30
W636626		<0.05	<50	<50	<5	<50	10
W636627		<0.05	<50	<50	7	<50	20
W636628		<0.05	<50	<50	41	<50	70
W636629		<0.05	<50	<50	<5	<50	20
W636630		<0.05	<50	<50	6	<50	50
W636631		<0.05	<50	<50	<5	<50	10
W636632		<0.05	<50	<50	5	<50	10
W636633		<0.05	<50	<50	5	<50	30
W636634		<0.05	<50	<50	5	<50	30
W636635		<0.05	<50	<50	128	<50	170
W636636		<0.05	<50	<50	26	<50	40
W636637		0.08	<50	<50	85	<50	40
W636638		<0.05	<50	<50	118	<50	50
W636639		0.06	<50	<50	135	<50	30
W636640		0.13	<50	<50	126	<50	40
W636641		<0.05	<50	<50	151	<50	40
W636642		<0.05	<50	<50	157	<50	40
W636643		0.05	<50	<50	108	<50	20
W636644		<0.05	<50	<50	<5	<50	<10
W636645		<0.05	<50	<50	<5	<50	<10
W636646		<0.05	<50	<50	<5	<50	<10
W636647		<0.05	<50	<50	192	<50	440
W636648		<0.05	<50	<50	<5	<50	<10
W636649		<0.05	<50	<50	<5	<50	<10
W636650		<0.05	<50	<50	<5	<50	<10
W636651		<0.05	<50	<50	<5	<50	<10
W636652		<0.05	<50	<50	5	<50	20



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**CERTIFICATE OF ANALYSIS WH17186545**

**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