



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: 4-OCT-2017
Account: DEVARC

CERTIFICATE WH17183117

Project: Dan Man

P.O. No.: 1006216-Batch 17

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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CERTIFICATE OF ANALYSIS WH17183117

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
W636077		3.26	0.085	<1	0.55	20	<50	<5	10	<0.05	<5	<5	12	17	0.71	<50
W636078		2.40	0.006	<1	0.51	<10	<50	<5	<10	<0.05	<5	<5	9	<5	0.45	<50
W636079		3.00	0.037	<1	0.71	<10	70	<5	<10	0.06	<5	<5	10	<5	0.62	<50
W636080		3.48	0.003	<1	0.67	10	60	<5	<10	0.12	<5	6	22	5	0.91	<50
W636081		1.98	0.004	<1	0.73	10	<50	<5	<10	0.07	<5	<5	9	<5	0.69	<50
W636082		1.74	0.005	<1	0.64	10	<50	<5	10	0.06	<5	<5	7	<5	0.75	<50
W636083		2.00	<0.001	<1	0.40	10	<50	<5	<10	<0.05	<5	<5	17	5	0.72	<50
W636084		2.32	<0.001	<1	0.39	<10	<50	<5	10	0.06	<5	<5	12	<5	0.59	<50
W636085		1.86	0.002	<1	0.54	10	<50	<5	<10	<0.05	<5	<5	13	<5	0.52	<50
W636086		1.82	0.003	<1	0.57	20	<50	<5	10	<0.05	<5	<5	11	6	0.61	<50
W636087		2.38	0.008	<1	0.44	10	<50	<5	<10	<0.05	<5	<5	12	<5	0.60	<50
W636088		2.02	0.036	<1	0.53	10	<50	<5	10	<0.05	<5	<5	14	<5	0.59	<50
W636089		2.08	0.002	<1	0.45	20	<50	<5	<10	<0.05	<5	<5	11	<5	0.58	<50
W636090		1.58	<0.001	<1	0.50	30	<50	<5	<10	<0.05	<5	<5	16	<5	0.78	<50
W636091		1.64	0.002	<1	0.38	<10	<50	<5	<10	<0.05	<5	<5	12	12	0.58	<50
W636092		1.56	0.010	<1	0.43	20	<50	<5	<10	<0.05	<5	<5	14	7	0.66	<50
W636093		1.94	0.030	<1	0.44	10	<50	<5	<10	<0.05	<5	<5	12	<5	0.61	<50
W636094		1.84	0.008	1	0.42	20	<50	<5	<10	1.14	<5	<5	8	<5	0.55	<50
W636095		1.64	0.007	<1	0.44	<10	<50	<5	<10	1.62	<5	<5	10	<5	0.60	<50
W636096		0.30	1.175	1	0.58	240	110	<5	10	18.10	<5	<5	26	79	2.50	<50
W636097		2.12	0.006	<1	0.41	10	<50	<5	<10	1.62	<5	<5	13	<5	0.63	<50
W636098		2.50	0.042	1	0.34	30	<50	<5	<10	1.05	<5	<5	10	<5	0.70	<50
W636099		2.16	0.029	<1	0.40	30	<50	<5	<10	1.45	<5	<5	9	8	0.64	<50
W636100		2.44	0.014	<1	0.68	30	50	<5	10	0.25	<5	<5	8	<5	1.02	<50
W636101		2.14	0.083	<1	0.54	60	150	<5	10	0.11	<5	<5	9	<5	0.82	<50
W636102		1.92	0.056	<1	0.36	40	<50	<5	10	0.57	<5	<5	8	<5	0.68	<50
W636103		2.44	0.045	<1	0.40	50	<50	<5	10	0.99	<5	<5	8	<5	0.74	<50
W636104		2.22	0.031	<1	0.41	30	<50	<5	<10	1.22	<5	<5	13	<5	0.76	<50
W636105		2.34	0.001	<1	<0.05	<10	<50	<5	<10	21.3	<5	<5	<5	<5	0.46	<50
W636106		1.62	0.020	<1	0.46	40	<50	<5	<10	1.52	<5	<5	9	<5	0.63	<50
W636107		1.90	0.012	<1	0.63	30	<50	<5	<10	0.27	<5	<5	11	<5	0.79	<50
W636108		2.04	0.016	<1	0.42	20	<50	<5	<10	0.31	<5	<5	10	<5	0.64	<50
W636109		1.36	0.059	<1	0.45	120	<50	<5	<10	0.05	<5	<5	11	<5	1.10	<50
W636110		1.64	0.039	1	0.43	30	400	<5	<10	0.05	<5	<5	8	5	0.81	<50
W636111		1.44	0.035	<1	0.42	30	<50	<5	<10	1.08	<5	<5	5	<5	0.62	<50
W636112		1.32	0.022	1	0.38	20	<50	<5	<10	1.11	<5	<5	13	<5	0.51	<50



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Sample Description	Method Analyte Units LOR	ME-ICP41a Hg ppm 5	ME-ICP41a K % 0.05	ME-ICP41a La ppm 50	ME-ICP41a Mg % 0.05	ME-ICP41a Mn ppm 30	ME-ICP41a Mo ppm 5	ME-ICP41a Na % 0.05	ME-ICP41a Ni ppm 5	ME-ICP41a P ppm 50	ME-ICP41a Pb ppm 10	ME-ICP41a S % 0.05	ME-ICP41a Sb ppm 10	ME-ICP41a Sc ppm 5	ME-ICP41a Sr ppm 5	ME-ICP41a Th ppm 100
W636077		<5	0.22	<50	<0.05	110	<5	<0.05	7	110	40	<0.05	<10	<5	6	<100
W636078		<5	0.21	<50	<0.05	180	<5	<0.05	<5	90	10	<0.05	<10	<5	8	<100
W636079		<5	0.18	<50	0.05	360	<5	<0.05	<5	90	10	<0.05	10	<5	18	<100
W636080		<5	0.37	<50	0.06	250	<5	<0.05	6	450	100	<0.05	10	<5	24	<100
W636081		<5	0.17	<50	0.06	220	<5	<0.05	<5	140	20	<0.05	20	<5	8	<100
W636082		<5	0.16	<50	0.05	170	<5	<0.05	<5	100	20	<0.05	10	<5	10	<100
W636083		<5	0.20	<50	<0.05	210	<5	<0.05	<5	80	20	<0.05	<10	<5	<5	<100
W636084		<5	0.17	<50	<0.05	160	<5	<0.05	<5	80	10	<0.05	20	<5	10	<100
W636085		<5	0.21	<50	<0.05	120	<5	<0.05	<5	70	10	<0.05	10	<5	7	<100
W636086		<5	0.19	<50	<0.05	180	<5	<0.05	5	50	10	<0.05	20	<5	<5	<100
W636087		<5	0.19	<50	<0.05	180	<5	<0.05	<5	70	20	<0.05	10	<5	10	<100
W636088		<5	0.20	<50	<0.05	70	<5	<0.05	<5	70	20	<0.05	<10	<5	12	<100
W636089		<5	0.16	<50	<0.05	80	<5	<0.05	5	50	20	<0.05	10	<5	7	<100
W636090		<5	0.17	<50	<0.05	140	<5	<0.05	5	110	20	<0.05	10	<5	18	<100
W636091		<5	0.15	<50	<0.05	150	<5	<0.05	<5	<50	20	<0.05	<10	<5	<5	<100
W636092		<5	0.15	<50	<0.05	190	<5	<0.05	<5	<50	20	<0.05	<10	<5	9	<100
W636093		<5	0.16	<50	<0.05	180	<5	<0.05	<5	<50	20	<0.05	<10	<5	13	<100
W636094		<5	0.15	<50	<0.05	170	<5	<0.05	<5	<50	10	<0.05	<10	<5	22	<100
W636095		<5	0.16	<50	0.08	190	<5	<0.05	5	<50	20	0.22	<10	<5	28	<100
W636096		<5	0.21	<50	3.10	1740	70	<0.05	82	1090	20	0.88	10	<5	183	<100
W636097		<5	0.16	<50	0.08	190	9	<0.05	<5	<50	20	0.28	<10	<5	28	<100
W636098		<5	0.14	<50	<0.05	150	<5	<0.05	<5	<50	20	0.41	<10	<5	17	<100
W636099		<5	0.13	<50	<0.05	190	<5	<0.05	<5	<50	30	0.10	<10	<5	20	<100
W636100		<5	0.27	<50	0.07	340	<5	<0.05	<5	60	20	<0.05	<10	<5	17	100
W636101		<5	0.19	<50	<0.05	290	6	<0.05	<5	70	40	<0.05	10	<5	12	100
W636102		<5	0.17	<50	<0.05	160	<5	<0.05	<5	60	10	0.12	10	<5	18	<100
W636103		<5	0.16	<50	<0.05	150	<5	<0.05	6	60	60	0.51	20	<5	23	<100
W636104		<5	0.17	<50	0.11	210	5	<0.05	<5	<50	30	0.47	10	<5	23	<100
W636105		<5	<0.05	<50	12.30	210	<5	<0.05	<5	200	20	<0.05	10	<5	48	<100
W636106		<5	0.16	<50	0.18	190	<5	0.05	<5	50	20	0.35	10	<5	39	100
W636107		<5	0.19	<50	<0.05	110	<5	<0.05	6	90	30	0.06	20	<5	12	<100
W636108		<5	0.14	<50	0.07	60	<5	<0.05	<5	60	20	<0.05	20	<5	15	<100
W636109		<5	0.16	<50	<0.05	40	13	<0.05	<5	90	30	<0.05	10	<5	6	<100
W636110		<5	0.17	<50	<0.05	270	<5	<0.05	<5	70	50	<0.05	30	<5	23	<100
W636111		<5	0.20	<50	<0.05	130	16	<0.05	<5	60	10	0.39	<10	<5	27	<100
W636112		<5	0.18	<50	<0.05	160	15	<0.05	<5	<50	10	0.21	<10	<5	29	<100



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CERTIFICATE OF ANALYSIS WH17183117

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
W636077		<0.05	<50	<50	<5	<50	10
W636078		<0.05	<50	<50	<5	<50	10
W636079		<0.05	<50	<50	<5	<50	20
W636080		<0.05	<50	<50	5	<50	40
W636081		<0.05	<50	<50	<5	<50	30
W636082		<0.05	<50	<50	<5	<50	20
W636083		<0.05	<50	<50	<5	<50	30
W636084		<0.05	<50	<50	<5	<50	30
W636085		<0.05	<50	<50	<5	<50	20
W636086		<0.05	<50	<50	<5	<50	30
W636087		<0.05	<50	<50	<5	<50	30
W636088		<0.05	<50	<50	<5	<50	20
W636089		<0.05	<50	<50	<5	<50	40
W636090		<0.05	<50	<50	<5	<50	50
W636091		<0.05	<50	<50	<5	<50	30
W636092		<0.05	<50	<50	<5	<50	30
W636093		<0.05	<50	<50	<5	<50	30
W636094		<0.05	<50	<50	<5	<50	30
W636095		<0.05	<50	<50	<5	<50	20
W636096		<0.05	<50	<50	175	<50	430
W636097		<0.05	<50	<50	<5	<50	10
W636098		<0.05	<50	<50	<5	<50	10
W636099		<0.05	<50	<50	<5	<50	20
W636100		<0.05	<50	<50	<5	<50	30
W636101		<0.05	<50	<50	<5	<50	10
W636102		<0.05	<50	<50	<5	<50	10
W636103		<0.05	<50	<50	<5	<50	10
W636104		<0.05	<50	<50	<5	<50	20
W636105		<0.05	<50	<50	5	<50	20
W636106		<0.05	<50	<50	<5	<50	20
W636107		<0.05	<50	<50	<5	<50	10
W636108		<0.05	<50	<50	<5	<50	<10
W636109		<0.05	<50	<50	<5	<50	<10
W636110		<0.05	<50	<50	<5	<50	10
W636111		<0.05	<50	<50	<5	<50	10
W636112		<0.05	<50	<50	<5	<50	<10



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CERTIFICATE OF ANALYSIS WH17183117

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