



ALS Canada Ltd.

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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 WH17183120

Project: Dan Man

P.O. No.: 1006216-Batch 18

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28-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 WH17183120

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
W636113		3.40	<0.001	<1	0.38	20	<50	<5	10	0.08	<5	<5	14	7	1.16	<50
W636114		3.72	0.001	<1	0.47	<10	<50	<5	10	0.11	<5	7	16	7	1.13	<50
W636115		3.64	<0.001	<1	0.29	10	<50	<5	<10	<0.05	<5	<5	9	8	0.83	<50
W636116		3.34	0.008	<1	1.06	60	<50	<5	<10	0.08	<5	<5	34	9	2.60	<50
W636117		0.32	1.135	<1	0.64	240	110	<5	10	18.10	<5	5	27	79	2.56	<50
W636118		2.94	0.019	<1	2.75	90	150	7	<10	0.17	<5	19	99	14	4.45	<50
W636119		3.32	0.002	<1	0.56	10	<50	<5	<10	0.05	<5	<5	14	20	1.01	<50
W636120		3.72	<0.001	<1	0.34	10	<50	<5	<10	<0.05	<5	5	12	6	0.62	<50
W636121		3.98	<0.001	<1	0.39	10	<50	<5	<10	0.09	<5	<5	9	<5	0.66	<50
W636122		3.76	<0.001	<1	0.41	10	<50	<5	<10	<0.05	<5	5	9	<5	0.63	<50
W636123		3.68	<0.001	<1	0.37	30	<50	<5	<10	<0.05	<5	5	9	<5	0.57	<50
W636124		3.02	0.002	<1	0.61	80	80	<5	<10	<0.05	<5	<5	9	<5	0.76	<50
W636125		3.92	0.001	<1	0.38	10	<50	<5	10	<0.05	<5	<5	8	7	0.49	<50
W636126		3.60	<0.001	<1	0.45	10	<50	<5	<10	0.06	<5	<5	9	<5	0.65	<50
W636127		3.50	0.023	1	0.64	10	<50	<5	10	0.05	<5	<5	10	8	1.03	<50
W636128		3.30	<0.001	<1	0.65	10	140	<5	<10	0.08	<5	6	13	10	0.76	<50
W636129		4.04	<0.001	<1	0.38	<10	<50	<5	<10	<0.05	<5	<5	10	<5	0.65	<50
W636130		3.76	0.002	<1	0.36	30	<50	<5	<10	0.05	<5	<5	13	<5	0.91	<50
W636131		3.50	<0.001	<1	0.50	<10	<50	<5	<10	0.08	<5	<5	7	<5	0.52	<50
W636132		3.04	0.003	<1	0.77	20	50	<5	10	0.08	<5	<5	17	5	1.40	<50
W636133		2.42	<0.001	<1	<0.05	<10	<50	<5	10	21.1	<5	<5	<5	<5	0.47	<50
W636134		3.38	<0.001	<1	0.45	<10	<50	<5	<10	0.07	<5	<5	11	5	0.53	<50
W636135		3.42	<0.001	<1	0.45	20	<50	<5	<10	<0.05	<5	<5	7	<5	0.50	<50
W636136		4.32	0.001	<1	0.31	10	<50	<5	<10	<0.05	<5	<5	17	5	0.86	<50
W636137		3.68	<0.001	<1	0.44	<10	<50	<5	<10	0.36	<5	<5	9	<5	0.79	<50
W636138		3.66	<0.001	<1	0.43	<10	<50	<5	<10	0.22	<5	<5	9	<5	0.70	<50
W636139		2.92	<0.001	<1	0.61	40	<50	<5	10	2.56	<5	12	26	12	1.22	<50
W636140		3.34	<0.001	<1	0.44	<10	<50	<5	<10	0.74	<5	6	19	9	0.85	<50
W636141		3.80	<0.001	<1	0.32	10	<50	<5	<10	0.05	<5	<5	11	<5	0.73	<50
W636142		3.52	<0.001	<1	0.34	10	<50	<5	<10	0.36	<5	<5	11	5	0.55	<50
W636143		3.68	<0.001	<1	0.35	<10	<50	<5	<10	0.48	<5	<5	9	<5	0.52	<50
W636144		2.30	0.003	<1	0.35	<10	<50	<5	10	0.05	<5	<5	9	<5	0.69	<50
W636145		2.36	<0.001	<1	0.33	20	<50	<5	<10	0.59	<5	5	10	<5	0.70	<50
W636146		2.28	<0.001	<1	0.37	<10	<50	<5	<10	0.23	<5	<5	11	6	0.54	<50
W636147		2.58	<0.001	<1	0.39	<10	<50	<5	10	0.16	<5	<5	9	<5	0.69	<50
W636148		2.54	0.007	<1	0.46	30	<50	<5	10	1.41	<5	<5	11	6	0.85	<50



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CERTIFICATE OF ANALYSIS WH17183120

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
W636113		<5	0.13	<50	0.07	150	<5	<0.05	8	110	20	<0.05	<10	<5	<5	<100
W636114		<5	0.17	<50	0.07	170	<5	0.05	9	140	10	<0.05	<10	<5	8	<100
W636115		<5	0.14	<50	<0.05	110	<5	<0.05	<5	90	20	<0.05	<10	<5	7	<100
W636116		<5	0.40	<50	0.35	180	<5	<0.05	28	150	30	<0.05	<10	6	51	<100
W636117		<5	0.22	<50	3.13	1740	69	<0.05	81	1110	30	0.92	<10	<5	182	<100
W636118		<5	0.97	<50	1.03	800	<5	<0.05	80	460	30	<0.05	<10	16	188	<100
W636119		<5	0.25	<50	0.14	180	<5	<0.05	11	150	10	<0.05	<10	<5	14	<100
W636120		<5	0.18	<50	<0.05	100	<5	0.05	6	70	10	<0.05	<10	<5	6	<100
W636121		<5	0.25	<50	0.05	110	<5	<0.05	5	130	10	<0.05	<10	<5	<5	<100
W636122		<5	0.25	<50	<0.05	130	<5	0.05	6	90	<10	<0.05	<10	<5	7	<100
W636123		<5	0.25	<50	<0.05	110	<5	<0.05	<5	110	20	<0.05	<10	<5	<5	<100
W636124		<5	0.40	<50	<0.05	210	<5	<0.05	7	100	20	<0.05	<10	<5	10	<100
W636125		<5	0.23	<50	<0.05	100	<5	<0.05	<5	80	20	<0.05	<10	<5	7	<100
W636126		<5	0.23	<50	<0.05	100	<5	<0.05	<5	70	<10	<0.05	<10	<5	12	<100
W636127		<5	0.21	<50	<0.05	230	<5	<0.05	7	100	20	<0.05	<10	<5	5	<100
W636128		<5	0.41	<50	0.07	330	<5	<0.05	12	230	20	<0.05	<10	<5	8	<100
W636129		<5	0.22	<50	<0.05	120	<5	<0.05	<5	80	20	<0.05	<10	<5	10	<100
W636130		<5	0.14	<50	<0.05	140	<5	<0.05	8	120	20	<0.05	<10	<5	16	<100
W636131		<5	0.26	<50	<0.05	100	<5	<0.05	<5	60	10	<0.05	<10	<5	10	<100
W636132		<5	0.24	<50	0.07	480	<5	<0.05	12	120	50	<0.05	<10	<5	20	<100
W636133		<5	<0.05	<50	11.90	200	<5	<0.05	<5	150	10	<0.05	<10	<5	34	<100
W636134		<5	0.27	<50	0.06	90	<5	<0.05	<5	60	<10	<0.05	<10	<5	<5	<100
W636135		<5	0.26	<50	<0.05	100	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100
W636136		<5	0.15	<50	<0.05	160	<5	<0.05	5	<50	10	<0.05	<10	<5	<5	<100
W636137		<5	0.21	<50	<0.05	160	<5	<0.05	6	60	10	<0.05	<10	<5	17	<100
W636138		<5	0.17	<50	<0.05	140	<5	<0.05	5	70	10	<0.05	10	<5	15	<100
W636139		<5	0.40	<50	0.08	420	<5	<0.05	11	330	10	<0.05	<10	5	63	<100
W636140		<5	0.21	<50	<0.05	230	<5	<0.05	12	200	10	<0.05	<10	<5	29	<100
W636141		<5	0.15	<50	<0.05	120	<5	0.07	5	60	10	<0.05	<10	<5	11	<100
W636142		<5	0.24	<50	<0.05	110	<5	<0.05	5	60	20	<0.05	<10	<5	16	<100
W636143		<5	0.21	<50	<0.05	100	<5	<0.05	<5	70	10	<0.05	<10	<5	13	<100
W636144		<5	0.22	<50	<0.05	120	<5	<0.05	<5	80	20	<0.05	<10	<5	10	<100
W636145		<5	0.17	<50	<0.05	140	<5	<0.05	<5	50	30	<0.05	<10	<5	12	<100
W636146		<5	0.29	<50	<0.05	100	<5	<0.05	8	<50	10	<0.05	<10	<5	8	<100
W636147		<5	0.24	<50	<0.05	130	<5	0.06	<5	60	20	<0.05	<10	<5	10	<100
W636148		<5	0.27	<50	<0.05	210	<5	<0.05	6	90	20	<0.05	<10	<5	31	<100



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CERTIFICATE OF ANALYSIS WH17183120

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
W636113		<0.05	<50	<50	11	<50	10
W636114		<0.05	<50	<50	11	<50	20
W636115		<0.05	<50	<50	5	<50	20
W636116		<0.05	<50	<50	36	<50	90
W636117		<0.05	<50	<50	186	<50	430
W636118		<0.05	<50	<50	94	<50	180
W636119		<0.05	<50	<50	12	<50	40
W636120		<0.05	<50	<50	<5	<50	10
W636121		<0.05	<50	<50	<5	<50	10
W636122		<0.05	<50	<50	<5	<50	20
W636123		<0.05	<50	<50	<5	<50	10
W636124		<0.05	<50	<50	<5	<50	20
W636125		<0.05	<50	<50	<5	<50	10
W636126		<0.05	<50	<50	<5	<50	10
W636127		<0.05	<50	<50	5	<50	10
W636128		<0.05	<50	<50	6	<50	20
W636129		<0.05	<50	<50	<5	<50	<10
W636130		<0.05	<50	<50	6	<50	10
W636131		<0.05	<50	<50	<5	<50	10
W636132		<0.05	<50	<50	14	<50	100
W636133		<0.05	<50	<50	<5	<50	10
W636134		<0.05	<50	<50	<5	<50	10
W636135		<0.05	<50	<50	<5	<50	10
W636136		<0.05	<50	<50	<5	<50	10
W636137		<0.05	<50	<50	<5	<50	20
W636138		<0.05	<50	<50	<5	<50	10
W636139		<0.05	<50	<50	18	<50	30
W636140		<0.05	<50	<50	10	<50	30
W636141		<0.05	<50	<50	<5	<50	20
W636142		<0.05	<50	<50	<5	<50	10
W636143		<0.05	<50	<50	<5	<50	10
W636144		<0.05	<50	<50	<5	<50	20
W636145		<0.05	<50	<50	<5	<50	20
W636146		<0.05	<50	<50	<5	<50	30
W636147		<0.05	<50	<50	<5	<50	40
W636148		<0.05	<50	<50	6	<50	20



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CERTIFICATE OF ANALYSIS WH17183120

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