



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: 20-OCT-2017
Account: DEVARC

CERTIFICATE WH17189975

Project: Dan Man

P.O. No.: 1006216-Batch 47

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 WH17189975

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
K294057		2.48	<0.001	<1	0.33	10	<50	<5	<10	<0.05	<5	<5	12	<5	0.81	<50
K294058		2.52	<0.001	<1	0.59	10	60	<5	<10	0.08	<5	<5	13	<5	1.38	<50
K294059		2.36	<0.001	<1	0.54	10	60	<5	<10	<0.05	<5	<5	9	<5	1.04	<50
K294060		2.58	<0.001	<1	0.69	<10	50	<5	<10	0.12	<5	<5	34	<5	1.47	<50
K294061		2.72	<0.001	<1	0.63	<10	<50	<5	<10	0.09	<5	<5	24	<5	1.25	<50
K294062		2.54	<0.001	1	0.36	10	<50	<5	<10	<0.05	<5	<5	8	<5	0.77	<50
K294063		2.86	0.001	1	1.53	10	80	<5	<10	0.24	<5	<5	70	<5	3.12	<50
K294064		2.68	<0.001	<1	0.35	<10	<50	<5	<10	<0.05	<5	<5	11	<5	0.78	<50
K294065		2.58	<0.001	<1	0.31	<10	<50	<5	<10	<0.05	<5	<5	7	<5	0.66	<50
K294066		2.46	<0.001	<1	0.41	20	<50	<5	<10	<0.05	<5	<5	8	<5	0.90	<50
K294067		2.38	<0.001	1	0.40	<10	<50	<5	<10	<0.05	<5	<5	7	<5	0.84	<50
K294068		2.74	<0.001	<1	0.43	<10	<50	<5	<10	<0.05	<5	<5	20	<5	0.84	<50
K294069		2.66	<0.001	<1	0.37	10	<50	<5	<10	<0.05	<5	<5	7	<5	0.73	<50
K294070		2.48	<0.001	<1	0.43	<10	<50	<5	<10	<0.05	<5	<5	9	<5	0.76	<50
K294071		2.50	<0.001	<1	0.37	<10	<50	<5	<10	<0.05	<5	<5	7	<5	0.56	<50
K294072		2.38	0.001	1	0.52	10	<50	<5	<10	0.05	<5	<5	11	<5	0.63	<50
K294073		2.64	<0.001	<1	0.47	<10	<50	<5	<10	<0.05	<5	<5	7	<5	0.80	<50
K294074		2.92	<0.001	<1	0.32	<10	<50	<5	<10	<0.05	<5	<5	7	<5	0.73	<50
K294075		2.64	<0.001	<1	0.38	<10	<50	<5	<10	<0.05	<5	<5	7	<5	0.86	<50
K294076		2.38	<0.001	<1	<0.05	<10	<50	<5	10	20.3	<5	<5	<5	<5	0.42	<50
K294077		2.76	<0.001	<1	0.33	<10	<50	<5	<10	0.07	<5	<5	7	<5	0.99	<50
K294078		3.06	0.016	<1	0.34	10	<50	<5	<10	<0.05	<5	<5	6	<5	1.00	<50
K294079		3.02	<0.001	<1	0.34	10	<50	<5	<10	<0.05	<5	<5	8	<5	0.78	<50
K294080		3.14	<0.001	<1	0.62	10	<50	<5	<10	0.08	<5	<5	21	<5	1.44	<50
K294081		3.08	<0.001	<1	0.31	<10	<50	<5	<10	<0.05	<5	<5	11	<5	0.87	<50
K294082		3.70	<0.001	<1	0.61	10	50	<5	<10	0.09	<5	<5	20	7	1.15	<50
K294083		3.18	<0.001	<1	1.45	<10	120	<5	<10	0.48	<5	<5	62	<5	2.66	<50
K294084		3.64	<0.001	<1	0.29	<10	<50	<5	<10	<0.05	<5	<5	9	<5	0.92	<50
K294085		3.26	<0.001	<1	0.28	<10	<50	<5	<10	<0.05	<5	<5	8	<5	0.86	<50
K294086		3.46	<0.001	<1	0.32	10	<50	<5	<10	0.05	<5	<5	7	<5	0.82	<50
K294087		3.26	<0.001	<1	0.31	10	<50	<5	<10	<0.05	<5	<5	8	<5	0.77	<50
K294088		0.32	1.160	<1	0.61	250	110	<5	20	17.60	<5	<5	24	68	2.52	<50
K294089		3.56	0.001	<1	0.36	<10	<50	<5	<10	0.07	<5	<5	7	<5	0.77	<50
K294090		3.40	<0.001	<1	0.33	10	<50	<5	<10	<0.05	<5	<5	8	<5	0.88	<50
K294091		3.66	0.002	<1	0.28	<10	<50	<5	10	<0.05	<5	<5	8	<5	1.00	<50
K294092		3.32	0.001	<1	0.30	<10	<50	<5	<10	<0.05	<5	<5	10	<5	1.07	<50



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CERTIFICATE OF ANALYSIS WH17189975

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
K294057		<5	0.19	<50	<0.05	80	<5	0.06	<5	<50	<10	<0.05	10	<5	<5	<100
K294058		<5	0.37	<50	0.22	220	<5	<0.05	<5	260	<10	<0.05	<10	<5	<5	<100
K294059		<5	0.30	<50	0.10	220	<5	0.05	<5	150	<10	<0.05	10	<5	<5	<100
K294060		<5	0.47	<50	0.40	270	<5	0.05	5	410	<10	<0.05	<10	<5	<5	<100
K294061		<5	0.42	<50	0.34	240	<5	0.06	<5	260	<10	<0.05	<10	<5	<5	<100
K294062		<5	0.12	<50	<0.05	140	<5	0.06	<5	60	<10	<0.05	<10	<5	<5	<100
K294063		<5	1.08	<50	1.05	520	<5	<0.05	17	980	<10	<0.05	<10	8	<5	<100
K294064		<5	0.19	<50	<0.05	90	<5	0.05	<5	70	<10	<0.05	10	<5	<5	<100
K294065		<5	0.17	<50	<0.05	70	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100
K294066		<5	0.20	<50	<0.05	170	<5	<0.05	<5	50	<10	<0.05	<10	<5	<5	<100
K294067		<5	0.23	<50	<0.05	120	<5	<0.05	<5	50	<10	<0.05	<10	<5	<5	<100
K294068		<5	0.23	<50	0.07	160	<5	<0.05	<5	60	<10	<0.05	<10	<5	<5	<100
K294069		<5	0.17	<50	<0.05	100	<5	<0.05	<5	60	10	<0.05	<10	<5	<5	<100
K294070		<5	0.15	<50	<0.05	90	<5	<0.05	<5	70	<10	<0.05	10	<5	<5	<100
K294071		<5	0.14	<50	<0.05	80	<5	<0.05	<5	<50	<10	<0.05	10	<5	<5	<100
K294072		<5	0.14	<50	<0.05	100	<5	<0.05	<5	90	<10	<0.05	10	<5	<5	<100
K294073		<5	0.18	<50	<0.05	100	<5	<0.05	<5	60	<10	<0.05	10	<5	<5	<100
K294074		<5	0.15	<50	<0.05	80	<5	<0.05	<5	<50	<10	<0.05	10	<5	<5	<100
K294075		<5	0.16	<50	<0.05	110	<5	<0.05	<5	60	<10	<0.05	10	<5	<5	<100
K294076		5	<0.05	<50	11.35	180	<5	<0.05	<5	170	<10	<0.05	10	<5	37	<100
K294077		<5	0.13	<50	0.05	70	<5	0.05	<5	60	<10	<0.05	10	<5	<5	<100
K294078		<5	0.12	<50	<0.05	140	<5	<0.05	<5	50	<10	<0.05	10	<5	<5	<100
K294079		<5	0.09	<50	<0.05	140	<5	0.05	<5	<50	<10	<0.05	<10	<5	<5	<100
K294080		<5	0.38	<50	0.28	180	<5	<0.05	<5	250	<10	<0.05	<10	<5	<5	<100
K294081		<5	0.15	<50	<0.05	80	<5	0.06	<5	50	<10	<0.05	10	<5	<5	<100
K294082		<5	0.40	<50	0.30	170	<5	0.05	<5	280	<10	<0.05	10	<5	<5	<100
K294083		<5	1.03	<50	1.06	460	<5	<0.05	15	830	<10	<0.05	<10	6	11	<100
K294084		<5	0.19	<50	<0.05	70	<5	<0.05	<5	80	<10	<0.05	<10	<5	<5	<100
K294085		<5	0.18	<50	<0.05	70	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100
K294086		<5	0.16	<50	0.05	80	<5	<0.05	<5	70	<10	<0.05	10	<5	<5	<100
K294087		<5	0.13	<50	<0.05	60	<5	0.06	<5	<50	<10	<0.05	<10	<5	<5	<100
K294088		6	0.22	<50	3.06	1680	64	<0.05	68	1120	10	0.87	20	<5	192	<100
K294089		<5	0.21	<50	0.07	70	<5	<0.05	<5	140	<10	<0.05	<10	<5	<5	<100
K294090		<5	0.17	<50	<0.05	120	<5	<0.05	<5	50	<10	<0.05	10	<5	<5	<100
K294091		<5	0.14	<50	<0.05	110	<5	<0.05	<5	60	<10	<0.05	10	<5	<5	<100
K294092		<5	0.15	<50	<0.05	170	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100



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CERTIFICATE OF ANALYSIS WH17189975

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
K294057		<0.05	<50	<50	<5	<50	<10
K294058		<0.05	<50	<50	10	<50	10
K294059		<0.05	<50	<50	<5	<50	10
K294060		<0.05	<50	<50	13	<50	10
K294061		<0.05	<50	<50	10	<50	10
K294062		<0.05	<50	<50	<5	<50	<10
K294063		0.10	<50	<50	44	<50	50
K294064		<0.05	<50	<50	<5	<50	<10
K294065		<0.05	<50	<50	<5	<50	30
K294066		<0.05	<50	<50	<5	<50	10
K294067		<0.05	<50	<50	<5	<50	10
K294068		<0.05	<50	<50	<5	<50	10
K294069		<0.05	<50	<50	<5	<50	<10
K294070		<0.05	<50	<50	<5	<50	<10
K294071		<0.05	<50	<50	<5	<50	<10
K294072		<0.05	<50	<50	<5	<50	10
K294073		<0.05	<50	<50	<5	<50	<10
K294074		<0.05	<50	<50	<5	<50	<10
K294075		<0.05	<50	<50	<5	<50	<10
K294076		<0.05	<50	<50	<5	<50	10
K294077		<0.05	<50	<50	<5	<50	10
K294078		<0.05	<50	<50	<5	<50	10
K294079		<0.05	<50	<50	<5	<50	<10
K294080		<0.05	<50	<50	11	<50	20
K294081		<0.05	<50	<50	<5	<50	<10
K294082		<0.05	<50	<50	9	<50	10
K294083		0.12	<50	<50	40	<50	30
K294084		<0.05	<50	<50	<5	<50	<10
K294085		<0.05	<50	<50	<5	<50	<10
K294086		<0.05	<50	<50	<5	<50	<10
K294087		<0.05	<50	<50	<5	<50	<10
K294088		<0.05	<50	<50	177	<50	420
K294089		<0.05	<50	<50	<5	<50	10
K294090		<0.05	<50	<50	<5	<50	<10
K294091		<0.05	<50	<50	<5	<50	10
K294092		<0.05	<50	<50	<5	<50	<10



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CERTIFICATE OF ANALYSIS WH17189975

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