



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 WH17183031

Project: Dan Man

P.O. No.: 1006216-Batch 1

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
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 WH17183031

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
W590109		2.42	<0.001	<1	3.54	10	350	<5	<10	0.54	<5	33	83	24	6.38	<50
W590110		2.80	<0.001	<1	0.96	10	90	<5	<10	0.16	<5	9	20	<5	2.21	<50
W590111		2.74	<0.001	1	0.29	<10	<50	<5	<10	<0.05	<5	<5	5	<5	0.79	<50
W590112		2.72	0.009	<1	0.30	20	<50	<5	<10	<0.05	<5	<5	14	<5	1.00	<50
W590113		2.70	0.002	<1	0.35	20	<50	<5	<10	<0.05	<5	<5	6	<5	0.84	<50
W590114		2.88	0.009	<1	0.36	20	<50	<5	<10	<0.05	<5	<5	7	<5	0.69	<50
W590115		3.10	0.033	<1	0.34	30	60	<5	<10	0.06	<5	<5	9	<5	1.13	<50
W590116		2.96	<0.001	<1	0.79	10	70	<5	<10	0.23	<5	<5	24	<5	1.76	<50
W590117		2.74	0.004	<1	0.44	10	50	<5	<10	0.06	<5	<5	16	<5	1.07	<50
W590118		3.46	<0.001	<1	0.38	10	<50	<5	<10	0.05	<5	<5	6	<5	1.00	<50
W590119		3.10	<0.001	<1	0.30	20	<50	<5	<10	<0.05	<5	<5	7	<5	0.91	<50
W590120		2.60	0.005	<1	1.16	<10	120	<5	<10	0.36	<5	14	11	6	3.50	<50
W590121		3.12	<0.001	<1	0.52	10	50	<5	<10	0.06	<5	5	11	<5	1.11	<50
W590122		2.52	0.002	<1	0.51	20	70	<5	<10	0.08	<5	<5	9	<5	1.47	<50
W590123		3.02	<0.001	<1	0.50	<10	<50	<5	<10	0.06	<5	<5	8	<5	1.11	<50
W590124		2.44	0.002	<1	<0.05	<10	<50	<5	<10	20.2	<5	<5	<5	<5	0.42	<50
W590125		3.14	0.004	<1	0.60	20	<50	<5	<10	0.11	<5	<5	8	<5	1.22	<50
W590126		3.36	0.005	<1	0.41	10	50	<5	<10	0.05	<5	<5	9	<5	1.04	<50
W590127		3.14	0.048	<1	0.39	10	80	<5	<10	0.11	<5	<5	8	<5	1.09	<50
W590128		3.00	0.046	<1	0.52	30	160	<5	<10	0.05	<5	6	8	<5	1.49	<50
W590129		3.22	0.002	<1	0.73	10	60	<5	<10	0.08	<5	<5	11	<5	1.50	<50
W590130		2.96	0.021	<1	0.41	20	60	<5	<10	<0.05	<5	<5	9	<5	1.05	<50
W590131		3.18	0.005	<1	0.56	10	<50	<5	<10	<0.05	<5	<5	6	<5	0.95	<50
W590132		0.32	1.190	<1	0.55	240	110	<5	<10	17.25	<5	6	25	68	2.49	<50
W590133		3.20	0.023	<1	0.43	10	50	<5	<10	<0.05	<5	<5	8	<5	1.02	<50
W590134		3.30	0.003	1	0.39	10	<50	<5	<10	<0.05	<5	<5	9	<5	0.81	<50
W590135		3.14	0.024	<1	0.44	20	70	<5	<10	<0.05	<5	<5	7	<5	1.03	<50
W590136		2.82	0.375	<1	0.43	160	420	<5	<10	<0.05	<5	<5	6	6	1.88	<50
W590137		2.88	0.554	<1	0.38	170	210	<5	<10	<0.05	<5	<5	5	<5	0.41	<50
W590138		3.50	0.229	1	0.60	1330	<50	<5	<10	<0.05	<5	<5	17	<5	1.53	<50
W590139		3.54	0.066	1	0.45	100	<50	<5	<10	<0.05	<5	<5	24	<5	1.07	<50
W590140		2.88	0.036	<1	0.40	40	70	<5	<10	<0.05	<5	<5	8	<5	1.27	<50
W590141		3.32	0.118	<1	0.45	90	130	<5	<10	<0.05	<5	<5	9	<5	0.84	<50
W590142		3.04	0.005	<1	2.04	90	110	<5	<10	<0.05	<5	15	50	<5	5.41	<50
W590143		2.92	0.046	<1	0.39	130	<50	<5	<10	<0.05	<5	<5	7	<5	1.04	<50
W590144		3.12	0.477	<1	0.37	110	<50	<5	<10	<0.05	<5	<5	6	<5	0.93	<50



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CERTIFICATE OF ANALYSIS WH17183031

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
W590109		<5	2.26	<50	2.60	1550	<5	<0.05	39	1850	10	<0.05	10	23	36	<100
W590110		<5	0.66	<50	0.58	560	<5	<0.05	14	600	10	<0.05	<10	5	19	<100
W590111		<5	0.21	<50	<0.05	160	<5	<0.05	7	80	10	<0.05	<10	<5	8	<100
W590112		8	0.19	<50	<0.05	140	<5	<0.05	8	130	20	<0.05	10	<5	13	<100
W590113		<5	0.23	<50	<0.05	190	<5	<0.05	5	110	20	<0.05	<10	<5	9	<100
W590114		<5	0.21	<50	<0.05	130	<5	<0.05	<5	150	<10	<0.05	<10	<5	8	<100
W590115		<5	0.23	<50	<0.05	330	<5	<0.05	7	200	10	<0.05	<10	<5	16	<100
W590116		<5	0.39	<50	0.34	310	<5	<0.05	12	330	10	<0.05	20	<5	20	<100
W590117		<5	0.27	<50	0.15	250	<5	<0.05	14	240	10	<0.05	<10	<5	9	<100
W590118		<5	0.23	<50	<0.05	200	<5	0.05	6	190	<10	<0.05	10	<5	6	<100
W590119		<5	0.20	<50	<0.05	200	<5	0.05	9	170	10	<0.05	<10	<5	<5	<100
W590120		5	0.49	60	0.45	650	<5	<0.05	10	1100	10	<0.05	10	<5	37	<100
W590121		<5	0.27	<50	0.08	270	<5	<0.05	14	210	<10	<0.05	10	<5	20	<100
W590122		<5	0.18	60	0.09	340	<5	<0.05	8	220	20	<0.05	<10	<5	21	<100
W590123		<5	0.19	<50	0.11	170	<5	<0.05	<5	140	10	<0.05	<10	<5	12	<100
W590124		<5	<0.05	<50	11.50	190	<5	<0.05	<5	200	<10	<0.05	10	<5	39	<100
W590125		<5	0.21	<50	0.12	200	<5	0.05	5	160	40	<0.05	<10	<5	14	<100
W590126		<5	0.20	<50	0.06	280	<5	<0.05	<5	140	20	<0.05	10	<5	16	<100
W590127		<5	0.20	<50	0.07	420	<5	<0.05	5	150	20	<0.05	<10	<5	13	<100
W590128		<5	0.23	<50	0.10	720	<5	<0.05	<5	150	20	<0.05	<10	<5	15	<100
W590129		<5	0.34	<50	0.21	350	<5	<0.05	5	270	<10	<0.05	<10	<5	16	<100
W590130		<5	0.20	<50	<0.05	350	<5	<0.05	6	130	<10	<0.05	<10	<5	19	<100
W590131		<5	0.24	<50	0.06	200	<5	<0.05	<5	90	10	<0.05	<10	<5	14	<100
W590132		6	0.21	<50	3.02	1700	71	<0.05	82	1080	30	0.88	10	<5	190	<100
W590133		<5	0.20	<50	0.05	250	<5	<0.05	<5	140	20	<0.05	<10	<5	18	<100
W590134		<5	0.19	<50	<0.05	80	<5	<0.05	9	80	<10	<0.05	<10	<5	10	<100
W590135		<5	0.19	<50	<0.05	360	<5	<0.05	5	140	20	<0.05	<10	<5	29	100
W590136		<5	0.22	<50	<0.05	80	5	<0.05	14	180	40	<0.05	10	<5	42	<100
W590137		<5	0.25	<50	<0.05	30	8	<0.05	5	80	20	<0.05	<10	<5	43	<100
W590138		<5	0.42	<50	<0.05	40	12	<0.05	9	<50	20	0.14	<10	<5	41	<100
W590139		<5	0.23	<50	<0.05	40	<5	<0.05	6	<50	10	<0.05	10	<5	10	100
W590140		<5	0.18	<50	<0.05	40	5	<0.05	6	<50	<10	<0.05	<10	<5	5	100
W590141		<5	0.28	<50	<0.05	30	9	<0.05	<5	<50	10	0.07	10	<5	12	<100
W590142		<5	1.02	80	0.76	300	<5	<0.05	8	530	<10	0.07	20	19	144	<100
W590143		<5	0.17	<50	<0.05	600	<5	<0.05	<5	100	30	<0.05	10	<5	15	<100
W590144		<5	0.28	<50	<0.05	50	<5	<0.05	<5	<50	10	<0.05	20	<5	10	<100



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CERTIFICATE OF ANALYSIS WH17183031

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
W590109		0.29	<50	<50	156	<50	80
W590110		0.07	<50	<50	35	<50	10
W590111		<0.05	<50	<50	<5	<50	<10
W590112		<0.05	<50	<50	<5	<50	<10
W590113		<0.05	<50	<50	<5	<50	<10
W590114		<0.05	<50	<50	<5	<50	<10
W590115		<0.05	<50	<50	<5	<50	<10
W590116		0.06	<50	<50	21	<50	<10
W590117		<0.05	<50	<50	10	<50	<10
W590118		<0.05	<50	<50	5	<50	<10
W590119		<0.05	<50	<50	<5	<50	<10
W590120		0.05	<50	<50	65	<50	40
W590121		<0.05	<50	<50	6	<50	<10
W590122		<0.05	<50	<50	7	<50	10
W590123		<0.05	<50	<50	6	<50	<10
W590124		<0.05	<50	<50	<5	<50	<10
W590125		<0.05	<50	<50	6	<50	<10
W590126		<0.05	<50	<50	<5	<50	<10
W590127		<0.05	<50	<50	5	<50	<10
W590128		<0.05	<50	<50	9	<50	10
W590129		<0.05	<50	<50	19	<50	10
W590130		<0.05	<50	<50	6	<50	<10
W590131		<0.05	<50	<50	<5	<50	<10
W590132		<0.05	<50	<50	173	<50	400
W590133		<0.05	<50	<50	<5	<50	<10
W590134		<0.05	<50	<50	<5	<50	<10
W590135		<0.05	<50	<50	<5	<50	<10
W590136		<0.05	<50	<50	<5	<50	10
W590137		<0.05	<50	<50	<5	<50	<10
W590138		<0.05	<50	<50	9	<50	<10
W590139		<0.05	<50	<50	5	<50	<10
W590140		<0.05	<50	<50	<5	<50	<10
W590141		<0.05	<50	<50	<5	<50	<10
W590142		0.09	<50	<50	121	<50	90
W590143		<0.05	<50	<50	6	<50	<10
W590144		<0.05	<50	<50	<5	<50	<10



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CERTIFICATE OF ANALYSIS WH17183031

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