



Australian Laboratory Services Pty. Ltd.

32 Shand Street
Stafford
Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
www.alsglobal.com/geochemistry

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
Accreditation No: 825, Corporate Site No: 818.

CERTIFICATE BR17185476

Project: Georgetown

P.O. No.: ALS SSF278760

This report is for 13 Rock samples submitted to our lab in Brisbane, QLD, Australia
on 30-AUG-2017.

The following have access to data associated with this certificate:

JIM MCGREGOR-DAWSON

LEE SPENCER

To: ISMINS PTY LTD
ATTN: JIM MCGREGOR-DAWSON
C/- R.D. PERKES
P.O. BOX 386
CROWS NEST NSW 1585

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 *****

Page: 1

Total # Pages: 2 (A - C)

Plus Appendix Pages

Finalized Date: 18-SEP-2017

Account: ISMINS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-XRF05	Trace Level XRF Analysis	XRF
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

Signature:

Shaun Kenny, Brisbane Laboratory Manager



Australian Laboratory Services Pty. Ltd.

32 Shand Street
Stafford
Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
www.alsglobal.com/geochemistry

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
Accreditation No: 825, Corporate Site No: 818.

Project: Georgetown

Page: 2 - A
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 18-SEP-2017
Account: ISMINS

CERTIFICATE OF ANALYSIS BR17185476

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA26	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
646813		0.63	<0.01	<0.5	5.52	20	480	2.4	4	0.03	<0.5	11	34	10	3.33	10
646814		0.72	0.01	<0.5	3.00	4100	510	1.2	119	0.11	0.7	1	168	25	9.25	10
646815		0.66	<0.01	<0.5	3.12	42	440	2.5	3	0.08	<0.5	6	20	62	13.80	10
646816		1.08	<0.01	<0.5	2.49	366	320	2.2	36	0.05	<0.5	8	16	183	16.65	10
646817		0.64	<0.01	<0.5	1.68	181	340	2.3	16	0.08	<0.5	10	17	98	6.90	10
646818		0.93	<0.01	0.5	4.04	2760	260	1.2	64	0.03	2.4	5	35	85	9.91	10
646819		1.04	0.03	0.9	3.21	6790	220	1.5	26	0.04	7.0	8	25	103	15.40	10
646820		0.47	<0.01	<0.5	8.87	41	860	2.8	2	0.03	<0.5	9	57	36	4.99	20
646821		0.57	0.01	<0.5	3.20	5050	560	1.3	27	0.16	<0.5	3	144	27	9.12	10
646822		0.53	0.08	<0.5	1.94	46800	650	1.2	57	0.05	1.0	2	411	30	21.9	30
646823		0.76	0.44	1.0	1.51	545	40	1.1	4	0.02	<0.5	11	13	282	26.0	<10
646824		2.56	0.03	<0.5	2.52	3240	510	1.1	28	0.03	0.9	1	175	37	11.80	10
646825		2.03	0.01	<0.5	3.24	2800	400	1.2	20	0.04	0.5	<1	169	16	5.55	10



Australian Laboratory Services Pty. Ltd.

32 Shand Street
Stafford
Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
www.alsglobal.com/geochemistry

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
Accreditation No: 825, Corporate Site No: 818.

Project: Georgetown

Page: 2 - B
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 18-SEP-2017
Account: ISMINS

CERTIFICATE OF ANALYSIS BR17185476

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
646813		2.22	50	0.90	165	1	0.06	12	310	9	0.01	<5	9	31	20
646814		0.82	70	0.41	95	2	0.15	3	2520	696	0.64	47	13	103	20
646815		0.45	70	0.04	290	1	0.02	19	1050	12	0.02	<5	6	79	<20
646816		0.31	80	0.28	167	2	0.12	20	1000	72	0.07	<5	4	109	<20
646817		0.31	50	0.07	171	4	0.02	16	1790	18	0.04	<5	4	84	<20
646818		1.08	40	0.46	164	<1	0.17	7	1120	4550	0.12	224	7	67	<20
646819		0.54	40	0.45	172	4	0.17	15	1460	2470	0.10	229	7	55	<20
646820		3.14	30	0.29	358	1	0.05	16	230	8	0.01	<5	15	34	20
646821		0.86	70	0.30	200	2	0.10	4	6500	299	0.35	37	12	279	20
646822		0.98	70	0.20	108	3	0.07	2	8820	2270	1.10	108	33	104	20
646823		0.11	10	0.18	104	2	0.07	24	2210	216	0.09	22	2	25	<20
646824		0.69	90	0.42	43	2	0.14	1	1590	217	0.26	30	13	57	20
646825		0.78	100	0.51	60	1	0.16	3	1300	373	0.07	32	16	88	30



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218

www.alsglobal.com/geochemistry

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
Accreditation No: 825, Corporate Site No: 818.

Project: Georgetown

Page: 2 - C
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 18-SEP-2017
Account: ISMINS

CERTIFICATE OF ANALYSIS BR17185476

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PUL-QC	ME-XRF05
		Ti	U	V	W	Zn	Pass75um	Sn
		ppm	ppm	ppm	ppm	ppm	%	ppm
		10	10	1	10	2	0.01	5
646813		<10	<10	61	<10	24		<5
646814		<10	<10	47	10	16		239
646815		<10	<10	42	<10	29		7
646816		<10	<10	25	<10	19		20
646817		<10	<10	22	<10	10		<5
646818		<10	<10	42	<10	62		95
646819		<10	<10	33	<10	161		81
646820		<10	<10	71	<10	18		7
646821		<10	<10	48	10	26		191
646822		<10	<10	75	<10	17	99.0	206
646823		<10	<10	26	<10	22		7
646824		<10	<10	55	10	8		387
646825		<10	<10	63	10	13		215



Australian Laboratory Services Pty. Ltd.

32 Shand Street
Stafford
Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
www.alsglobal.com/geochemistry

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
Accreditation No: 825, Corporate Site No: 818.

Project: Georgetown

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 18-SEP-2017
Account: ISMINS

CERTIFICATE OF ANALYSIS BR17185476

CERTIFICATE COMMENTS

ACCREDITATION COMMENTS

Applies to Method:

NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is James Lo, XRF Supervising Chemist.
ME-XRF05

Applies to Method:

NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is Samantha Profke, ICPAES Supervising Chemist
ME-ICP61

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia.
Au-AA26

Applies to Method:

Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. NATA Accreditation does not cover the performance of ALS Brisbane Sample Preparation which is processed at 116 Delta Street, Geebung, QLD 4034, Australia

CRU-21	LEV-01	LOG-22	ME-ICP61
ME-XRF05	PUL-23	PUL-QC	WEI-21