



Australian Laboratory Services Pty. Ltd.

32 Shand Street
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Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
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Plus Appendix Pages
Finalized Date: 4-NOV-2017
Account: TODRIV

CERTIFICATE AD17205426

This report is for 9 Pan Con samples submitted to our lab in Adelaide, SA, Australia on 25-SEP-2017.

The following have access to data associated with this certificate:

PAUL BURTON
CATH WETHERBY

KIM GREY

GAVIN OTTO

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LOG-22	Sample login - Rcd w/o BarCode
WEI-21g	Received Wet Sample Wt in grams
LEV-01	Waste Disposal Levy
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS89L	Super Trace DL Na2O2 by ICP-MS	ICP-MS
PGM-MS23	Pt, Pd, Au 30g FA ICP-MS	ICP-MS

To: TODD RIVER METALS
ATTN: CATH WETHERBY
LEVEL 1
282 ROKEBY ROAD
SUBIACO WA 6008

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 AD17205426

Sample Description	Method Analyte Units LOR	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L
		Ag	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		5	4	2	0.4	0.1	0.1	0.8	0.2	0.5	0.1	20	0.03	0.02	0.03
SCA01		<5	8	25	1.4	2.5	0.2	<0.8	13.2	28.3	2.1	<20	5.34	2.83	0.39
SCA02		5	5	59	0.7	0.8	0.2	<0.8	29.2	1.6	2.0	<20	8.25	4.30	0.67
SCA03		5	7	20	2.2	3.3	0.2	<0.8	13.6	30.0	2.3	<20	4.90	2.89	0.33
SCA04		<5	27	51	1.8	1.1	0.2	<0.8	34.3	6.9	5.0	<20	12.75	7.11	0.99
SCA05		7	34	40	1.3	1.4	0.2	<0.8	44.3	9.6	2.3	<20	19.25	12.25	1.45
SCA06		10	29	30	2.3	1.5	0.2	<0.8	29.0	10.9	2.7	<20	28.6	14.25	1.77
SCA07		8	87	50	2.7	3.8	0.2	<0.8	33.6	9.6	4.0	<20	7.09	4.48	0.75
SCA08		9	12	23	2.2	3.3	0.2	<0.8	10.5	17.3	2.7	<20	14.45	5.51	0.39
SCA09		<5	<4	45	0.5	0.3	0.3	1.1	18.0	0.9	2.7	<20	3.79	2.87	0.46



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		Ga	Gd	Ge	Ho	In	K	La	Li	Lu	Mn	Mo	Nb	Nd	Ni	Pb
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.03	0.5	0.01	0.3	0.05	0.08	2	0.05	10	2	0.8	0.07	10	0.5
SCA01		5.9	4.52	0.7	1.06	<0.3	0.15	6.08	6	0.46	820	<2	4530	6.44	140	22.0
SCA02		4.6	7.48	2.0	1.71	<0.3	0.47	11.50	11	0.79	100	<2	193.0	13.10	10	3.6
SCA03		6.5	3.76	0.6	1.13	<0.3	0.15	5.52	5	0.44	920	<2	5470	6.32	160	17.1
SCA04		6.6	12.50	1.8	2.29	<0.3	0.41	15.45	23	1.01	350	<2	1730	15.30	30	7.1
SCA05		6.3	19.20	1.3	3.76	<0.3	0.35	19.45	6	1.78	340	<2	1485	19.40	70	17.5
SCA06		6.5	23.6	1.2	4.54	<0.3	0.25	12.90	12	2.37	510	<2	2980	12.60	50	11.5
SCA07		5.6	7.81	1.3	1.49	<0.3	0.34	16.35	16	0.85	520	2	2730	14.25	40	13.7
SCA08		4.8	4.60	0.6	2.58	<0.3	0.14	5.30	3	0.47	520	<2	4290	4.48	80	12.0
SCA09		3.7	4.13	1.6	0.79	<0.3	0.35	8.74	14	0.39	50	2	42.9	8.14	<10	3.3

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		Pr	Rb	Re	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.03	0.5	0.01	0.3	3	0.04	3	20	0.04	0.01	0.5	0.1	0.005	0.02	0.01
SCA01		1.42	6.8	0.01	2.9	<3	1.77	>25000	<20	8510	0.79	1.0	5.2	0.153	0.02	0.49
SCA02		3.20	28.4	0.01	0.4	<3	3.59	7320	30	504	1.25	0.8	9.4	0.095	0.04	0.80
SCA03		1.61	6.2	<0.01	3.9	<3	1.62	>25000	<20	10450	0.73	1.9	4.6	0.153	<0.02	0.45
SCA04		3.90	22.4	<0.01	3.5	<3	5.33	>25000	30	3230	1.98	0.8	10.1	0.139	0.12	0.95
SCA05		5.60	14.6	<0.01	4.6	<3	8.97	>25000	20	3500	2.80	0.9	21.8	0.249	0.15	1.88
SCA06		3.43	11.2	0.01	5.2	<3	6.02	>25000	20	5190	4.27	1.3	18.2	0.184	0.12	2.16
SCA07		3.95	16.9	0.01	7.7	5	4.51	>25000	30	5010	1.14	1.5	10.0	0.141	0.19	0.78
SCA08		1.29	6.8	<0.01	7.7	<3	1.18	>25000	<20	6890	1.53	1.7	4.3	0.153	0.06	0.60
SCA09		2.13	16.2	<0.01	0.7	<3	1.97	2100	20	59.8	0.62	2.2	5.0	0.086	0.09	0.32

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		U	V	W	Y	Yb	Zn	Au	Pt	Pd	Au	Wet Wt.
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
		0.2	1	0.3	0.2	0.02	10	0.001	0.0005	0.001	0.01	0.01
SCA01		17.5	20	413	32.7	3.28	20	0.242	0.0013	0.006	0.16	106.00
SCA02		6.0	15	11.4	52.2	4.93	20					14.20
SCA03		16.5	9	462	29.7	2.87	20					17.90
SCA04		11.1	20	177.5	71.0	7.37	60	0.002	<0.0005	0.001		59.90
SCA05		22.6	46	144.0	110.0	11.70	50					14.40
SCA06		20.8	28	243	149.0	15.00	30					16.00
SCA07		15.3	36	267	46.9	5.13	30	0.743	0.0007	0.012		42.00
SCA08		12.8	14	297	92.9	3.45	20	0.026	0.0009	0.005		56.30
SCA09		2.7	7	4.1	26.2	2.71	30	0.007	<0.0005	0.001		69.20

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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.

LEV-01

LOG-22

PUL-31

WEI-21g

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA25

ME-MS89L

PGM-MS23