



Australian Laboratory Services Pty. Ltd.

32 Shand Street
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Plus Appendix Pages
Finalized Date: 25-OCT-2017
Account: TODRIV

CERTIFICATE AD17205406

P.O. No.: SC17-05

This report is for 13 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
ME-MS89L	Super Trace DL Na2O2 by 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 AD17205406

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	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
SCA010		8	<4	258	5.5	20.2	0.2	<0.8	956	8.5	11.4	<20	56.5	25.5	1.47
SCA011		8	42	201	5.7	17.2	0.2	<0.8	1425	12.8	4.9	<20	100.0	52.3	2.08
SCA012		7	57	197	5.4	0.8	0.2	<0.8	721	1.3	11.5	<20	29.8	10.90	1.00
SCA013		5	4	152	4.6	3.3	0.4	<0.8	6420	3.9	7.5	<20	312	151.5	7.76
SCA014		5	95	129	3.9	1.1	0.2	<0.8	1285	4.2	10.6	<20	60.3	27.4	1.67
SCA015		6	881	135	5.3	1.6	0.2	<0.8	3740	10.0	10.8	<20	173.0	78.6	4.66
SCA016		<5	997	183	5.4	4.2	0.2	<0.8	7350	3.4	10.8	<20	323	136.5	10.60
SCA017		7	154	276	6.1	1.5	0.2	<0.8	450	1.2	15.0	<20	21.4	10.50	0.80
SCA018		<5	211	241	5.1	1.6	0.4	<0.8	1920	1.2	8.9	<20	109.0	57.5	2.69
SCA019		9	303	111	4.9	1.8	0.2	<0.8	3370	10.8	7.2	<20	149.5	66.1	5.14
SCA020		<5	10	132	14.9	86.4	0.2	<0.8	12200	3.2	8.7	<20	984	514	14.85
SCA021		7	164	79	46.3	3.7	0.2	<0.8	8510	18.5	2.4	90	417	183.5	9.52
SCA022		6	67	101	2.0	1.4	0.2	<0.8	1595	11.4	0.8	30	76.5	35.0	2.11



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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
		Ga	Gd	Ge	Ho	In	K	La	Li	Lu	Mn	Mo	Nb	Nd	Ni
		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
SCA010		15.8	75.2	3.5	8.79	<0.3	2.33	517	36	2.43	310	<2	2120	356	30
SCA011		15.9	116.5	3.0	17.80	<0.3	0.91	680	19	6.19	210	<2	3440	497	60
SCA012		15.3	52.0	2.8	4.30	<0.3	3.53	325	27	1.02	90	<2	66.7	294	<10
SCA013		36.7	493	6.8	52.0	<0.3	2.20	2990	23	14.55	180	<2	973	2480	20
SCA014		18.8	102.5	2.4	9.57	<0.3	2.39	573	31	2.89	160	<2	1170	518	10
SCA015		28.8	268	4.7	28.6	<0.3	2.28	1750	28	8.44	210	<2	2780	1405	50
SCA016		41.2	535	8.4	50.4	<0.3	1.54	3480	54	13.95	320	<2	875	2750	10
SCA017		11.3	33.3	1.8	3.29	<0.3	3.20	213	36	1.04	90	<2	49.3	174.5	<10
SCA018		14.0	143.0	2.7	18.80	<0.3	2.38	842	15	6.48	140	<2	171.0	718	<10
SCA019		24.0	248	4.9	24.0	<0.3	1.48	1480	23	6.18	290	2	4020	1260	50
SCA020		64.4	1170	12.4	175.5	<0.3	2.64	6070	20	62.8	150	<2	479	4870	<10
SCA021		46.8	661	7.9	67.1	<0.3	0.60	3880	20	19.65	840	2	1695	3290	40
SCA022		16.2	124.0	3.2	12.50	<0.3	0.57	753	6	3.81	380	2	46.2	606	10



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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
		Pr	Rb	Re	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tm
		ppm 0.03	ppm 0.5	ppm 0.01	ppm 0.3	ppm 3	ppm 0.04	ppm 3	ppm 20	ppm 0.04	ppm 0.01	ppm 0.5	ppm 0.1	% 0.005	ppm 0.02
SCA010		102.0	141.0	0.05	2.2	<3	77.7	>25000	100	2860	9.58	0.9	303	0.101	3.29
SCA011		148.0	46.2	<0.01	4.2	<3	115.5	>25000	20	6080	15.75	1.2	406	0.227	7.77
SCA012		84.6	195.5	0.02	0.7	5	59.5	4490	20	68.8	5.86	1.6	229	0.178	1.46
SCA013		714	117.5	<0.01	1.9	11	551	>25000	30	927	58.4	0.5	2010	0.435	18.75
SCA014		148.0	145.5	0.01	1.5	14	112.0	>25000	30	1340	11.40	1.1	404	0.288	3.68
SCA015		409	154.0	0.02	5.9	<3	307	>25000	120	2370	30.8	0.9	1090	0.593	10.60
SCA016		789	98.8	<0.01	2.0	<3	600	>25000	140	984	61.4	1.1	2200	1.440	18.35
SCA017		50.9	179.0	<0.01	0.8	<3	31.1	2280	40	30.1	3.81	0.5	124.0	0.195	1.44
SCA018		201	106.5	<0.01	0.5	6	150.5	7080	50	133.0	18.00	0.5	520	0.246	8.12
SCA019		369	86.5	0.04	4.4	3	275	>25000	50	4540	27.7	0.9	930	0.408	8.56
SCA020		1385	164.0	0.05	2.5	<3	1135	>25000	20	733	157.0	1.2	4340	0.660	74.8
SCA021		944	31.7	0.05	3.3	<3	732	>25000	30	3090	76.9	2.0	2690	2.36	24.1
SCA022		168.5	30.3	0.01	1.3	<3	128.0	1330	240	30.4	13.85	1.2	435	0.729	4.60



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Sample Description	Method Analyte Units LOR	ME-MS89L U ppm 0.2	ME-MS89L V ppm 1	ME-MS89L W ppm 0.3	ME-MS89L Y ppm 0.2	ME-MS89L Yb ppm 0.02	ME-MS89L Zn ppm 10	WEI-21g Wet Wt. g 0.01
SCA010		65.0	11	87.3	288	18.50	80	16.30
SCA011		94.0	28	119.5	571	45.0	60	3.30
SCA012		35.9	10	5.1	132.0	8.41	50	9.90
SCA013		270	17	28.9	1625	110.5	70	27.70
SCA014		66.8	13	32.8	290	24.5	70	11.50
SCA015		152.0	25	55.3	870	61.7	50	9.70
SCA016		296	34	40.9	1575	107.5	110	6.20
SCA017		19.4	14	4.9	109.5	8.34	60	19.50
SCA018		90.9	15	12.0	604	49.6	30	33.60
SCA019		146.0	16	109.0	740	49.0	70	2.10
SCA020		814	51	41.9	5930	481	80	10.20
SCA021		414	434	102.5	2100	148.5	140	4.70
SCA022		66.6	247	3.6	380	27.1	60	1.40



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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.

ME-MS89L