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Finalized Date: 25-OCT-2017

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Account: TODRIV

QC CERTIFICATE AD17205417

P.O. No.: SC17-04

This report is for 59 Rock 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
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
LEV-01	Waste Disposal Levy
CRU-21	Crush entire sample >70% -6 mm
PUL-21	Pulverize entire sample
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS23	Pt, Pd, Au 30g FA ICP-MS	ICP-MS
ME-MS89L	Super Trace DL Na2O2 by ICP-MS	ICP-MS

To: TODD RIVER METALS
ATTN: KIM GREY
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 *****

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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QC CERTIFICATE OF ANALYSIS AD17205417

Sample Description	Method Analyte Units LOR	ME-MS89L Ag ppm 5	ME-MS89L As ppm 4	ME-MS89L Ba ppm 2	ME-MS89L Be ppm 0.4	ME-MS89L Bi ppm 0.1	ME-MS89L Ca % 0.1	ME-MS89L Cd ppm 0.8	ME-MS89L Ce ppm 0.2	ME-MS89L Co ppm 0.5	ME-MS89L Cs ppm 0.1	ME-MS89L Cu ppm 20	ME-MS89L Dy ppm 0.03	ME-MS89L Er ppm 0.02	ME-MS89L Eu ppm 0.03	ME-MS89L Fe % 0.05
STANDARDS																
AMIS0343		7	11	70	230	3.0	0.4	<0.8	1.1	2.5	332	50	0.05	0.07	0.08	0.84
AMIS0343		<5	17	86	230	3.0	0.3	<0.8	1.2	2.7	351	60	0.12	0.11	0.06	0.94
AMIS0343		5	15	79	230	2.9	0.2	<0.8	1.0	3.2	352	60	0.18	<0.02	<0.03	0.90
Target Range - Lower Bound		<5	<4	68	209	2.4	<0.1	<0.8	<0.2	1.5	309	<20	<0.03	<0.02	<0.03	0.65
Upper Bound		10	22	87	257	3.2	0.5	1.6	1.1	3.7	377	90	0.14	0.10	0.09	0.93
GLG912-5																
Target Range - Lower Bound																
Upper Bound																
GTA-01		8	<4	49	176.0	1.5	0.3	<0.8	0.3	0.9	145.0	<20	<0.03	<0.02	0.08	0.51
GTA-01		<5	<4	57	185.5	1.7	0.3	<0.8	0.3	0.6	154.5	<20	0.06	0.02	0.04	0.60
Target Range - Lower Bound		<5	<4	48	165.0	1.4	0.3	<0.8	<0.2	<0.5	132.5	<20	<0.03	<0.02	0.23	0.41
Upper Bound		15	10	64	202	2.0	0.8	2.1	0.7	1.6	162.0	50	0.15	0.07	0.38	0.66
GTA-02		<5	<4	57	184.5	1.2	0.3	<0.8	0.2	0.7	183.5	<20	<0.03	<0.02	<0.03	0.56
Target Range - Lower Bound		<5	<4	48	172.0	1.1	0.4	<0.8	<0.2	<0.5	157.0	<20	<0.03	<0.02	<0.03	0.39
Upper Bound		14	10	63	211	1.7	0.8	2.0	0.6	1.6	192.0	40	0.10	0.07	0.12	0.64
LEA-16																
Target Range - Lower Bound																
Upper Bound																
OREAS 146		<5	7	13900	13.2	3.3	11.6	2.0	4590	35.1	0.6	40	232	85.7	127.0	20.1
Target Range - Lower Bound		<5	<4	11900	11.8	2.3	12.1	<0.8	3910	30.0	0.5	<20	202	78.3	111.0	18.30
Upper Bound		15	22	14600	15.3	3.1	15.1	3.7	4790	37.8	0.9	80	246	95.7	136.0	22.5
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																
SY-4		5	<4	337	3.0	0.1	5.7	<0.8	109.5	2.2	1.6	<20	17.45	14.75	1.79	4.03
SY-4		<5	<4	352	2.8	<0.1	5.7	<0.8	123.5	3.2	1.5	<20	19.05	14.75	2.00	4.56
Target Range - Lower Bound		<5	<4	299	2.1	<0.1	5.1	<0.8	107.5	1.7	1.2	<20	16.35	12.75	1.75	3.91
Upper Bound		15	12	369	4.0	0.4	6.4	1.6	131.5	3.9	1.8	60	20.1	15.65	2.21	4.89

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

***** See Appendix Page for comments regarding this certificate *****



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QC CERTIFICATE OF ANALYSIS AD17205417

Sample Description	Method Analyte Units LOR	ME-MS89L Ga ppm 0.5	ME-MS89L Gd ppm 0.03	ME-MS89L Ge ppm 0.5	ME-MS89L Ho ppm 0.01	ME-MS89L In ppm 0.3	ME-MS89L K % 0.05	ME-MS89L La ppm 0.08	ME-MS89L Li ppm 2	ME-MS89L Lu ppm 0.05	ME-MS89L Mn ppm 10	ME-MS89L Mo ppm 2	ME-MS89L Nb ppm 0.8	ME-MS89L Nd ppm 0.07	ME-MS89L Ni ppm 10	ME-MS89L Pb ppm 0.5
STANDARDS																
AMIS0343		47.2	0.14	7.8	<0.01	<0.3	2.61	0.58	7270	<0.05	950	3	44.9	0.36	10	6.6
AMIS0343		45.6	0.21	6.5	0.02	<0.3	2.46	0.57	6960	<0.05	1060	5	44.1	0.35	10	6.4
AMIS0343		45.2	0.19	8.1	0.05	<0.3	2.50	0.60	6990	<0.05	1010	4	43.8	0.65	10	6.7
Target Range - Lower Bound		39.7	0.09	6.1	<0.01	<0.3	2.16	0.26	6310	<0.05	810	<2	37.0	0.44	<10	4.3
Upper Bound		49.7	0.23	8.9	0.05	0.7	2.76	0.62	7720	0.12	1010	8	47.0	0.78	30	6.9
GLG912-5																
Target Range - Lower Bound																
Upper Bound																
GTA-01		55.1	0.17	7.9	<0.01	<0.3	2.37	0.27	3320	<0.05	870	2	47.1	<0.07	<10	11.2
GTA-01		56.7	0.09	6.5	0.02	<0.3	2.25	0.23	3330	<0.05	950	2	44.9	0.13	<10	12.2
Target Range - Lower Bound		47.5	<0.03	5.7	<0.01	<0.3	1.91	<0.08	3020	<0.05	800	<2	41.5	<0.07	<10	10.2
Upper Bound		59.1	0.13	8.5	0.03	0.7	2.45	0.42	3700	0.13	1000	6	52.5	0.25	40	13.6
GTA-02		55.2	0.07	7.6	0.01	<0.3	2.54	0.20	1760	<0.05	750	2	62.7	<0.07	10	14.0
Target Range - Lower Bound		49.5	<0.03	6.2	<0.01	<0.3	2.19	<0.08	1615	<0.05	630	<2	50.5	<0.07	<10	11.5
Upper Bound		61.7	0.11	9.0	0.02	0.6	2.79	0.28	1975	0.13	790	6	63.5	0.21	40	15.1
LEA-16																
Target Range - Lower Bound																
Upper Bound																
OREAS 146		38.4	370	6.6	36.4	0.3	1.05	2530	29	6.21	19600	65	389	2210	70	743
Target Range - Lower Bound		28.8	309	4.3	31.8	<0.3	0.90	2260	21	5.62	18550	52	348	1935	60	657
Upper Bound		36.4	377	6.9	38.8	1.0	1.22	2760	31	6.98	22700	68	428	2370	110	804
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																
SY-4		37.0	14.90	1.0	4.26	<0.3	1.52	54.4	39	2.06	800	<2	14.2	54.6	<10	8.8
SY-4		39.2	15.20	1.5	4.46	<0.3	1.45	59.2	42	2.21	900	<2	14.3	59.5	<10	9.2
Target Range - Lower Bound		32.7	12.75	<0.5	3.86	<0.3	1.19	52.1	32	1.84	760	<2	11.3	52.0	<10	8.5
Upper Bound		41.1	15.65	2.6	4.74	1.0	1.57	63.9	44	2.36	950	6	15.9	63.8	30	11.5

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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QC CERTIFICATE OF ANALYSIS AD17205417

Sample Description	Method Analyte Units LOR	ME-MS89L Pr ppm 0.03	ME-MS89L Rb ppm 0.5	ME-MS89L Re ppm 0.01	ME-MS89L Sb ppm 0.3	ME-MS89L Se ppm 3	ME-MS89L Sm ppm 0.04	ME-MS89L Sn ppm 3	ME-MS89L Sr ppm 20	ME-MS89L Ta ppm 0.04	ME-MS89L Tb ppm 0.01	ME-MS89L Te ppm 0.5	ME-MS89L Th ppm 0.1	ME-MS89L Ti % 0.005	ME-MS89L Tl ppm 0.02	ME-MS89L Tm ppm 0.01
STANDARDS																
AMIS0343		0.05	3630	<0.01	6.5	6	0.19	80	<20	165.5	0.02	<0.5	2.3	0.005	30.2	<0.01
AMIS0343		0.13	3870	0.01	6.8	<3	0.12	93	20	181.5	0.03	<0.5	3.1	0.006	31.8	0.03
AMIS0343		0.14	3890	<0.01	7.1	<3	<0.04	75	<20	164.0	0.02	<0.5	2.4	0.005	30.2	<0.01
Target Range - Lower Bound		0.04	3280	<0.01	6.0	<3	<0.04	74	<20	160.0	<0.01	<0.5	1.7	<0.005	29.7	<0.01
Upper Bound		0.18	4000	0.03	8.0	8	0.20	97	60	196.0	0.04	1.5	2.3	0.021	36.3	0.03
GLG912-5																
Target Range - Lower Bound																
Upper Bound																
GTA-01		<0.03	3430	<0.01	<0.3	<3	0.09	437	<20	376	0.01	0.5	3.3	<0.005	27.9	<0.01
GTA-01		<0.03	3660	0.02	<0.3	<3	0.06	437	20	427	0.01	<0.5	3.7	<0.005	28.4	<0.01
Target Range - Lower Bound		<0.03	3310	<0.01	<0.3	<3	<0.04	391	<20	373	<0.01	<0.5	3.3	<0.005	24.3	<0.01
Upper Bound		0.09	4040	0.03	1.4	10	0.15	485	70	457	0.04	1.9	4.3	0.010	29.7	0.03
GTA-02		<0.03	4140	<0.01	<0.3	4	0.06	496	30	727	0.01	0.7	3.9	<0.005	32.7	<0.01
Target Range - Lower Bound		<0.03	3510	<0.01	<0.3	<3	<0.04	353	<20	622	<0.01	<0.5	3.1	<0.005	27.4	<0.01
Upper Bound		0.06	4290	0.03	1.0	11	0.12	438	80	760	0.02	2.1	4.0	0.010	33.6	0.02
LEA-16																
Target Range - Lower Bound																
Upper Bound																
OREAS 146		538	27.3	0.01	0.9	14	448	40	3050	4.08	44.4	0.7	903	0.871	0.49	9.86
Target Range - Lower Bound		493	24.6	<0.01	<0.3	<3	390	38	2770	3.10	37.0	<0.5	805	0.752	0.41	8.45
Upper Bound		603	31.2	0.03	1.3	6	476	54	3430	3.88	45.2	1.0	985	1.030	0.55	10.35
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																
SY-4		13.40	52.5	<0.01	<0.3	<3	13.60	6	1060	0.84	2.58	<0.5	1.3	0.177	0.25	2.21
SY-4		14.95	56.1	<0.01	<0.3	5	13.55	8	1230	0.75	2.58	<0.5	1.2	0.179	0.34	2.39
Target Range - Lower Bound		13.05	50.5	<0.01	<0.3	<3	11.40	<3	1050	0.59	2.33	<0.5	1.0	0.140	0.20	2.06
Upper Bound		16.05	62.9	0.02	1.0	9	14.00	15	1330	0.83	2.87	1.0	1.6	0.201	0.30	2.54

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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QC CERTIFICATE OF ANALYSIS AD17205417

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	PGM-MS23 Au ppm 0.001	PGM-MS23 Pt ppm 0.0005	PGM-MS23 Pd ppm 0.001
STANDARDS										
AMIS0343		5.6	6	3.6	1.4	0.11	70			
AMIS0343		6.5	7	3.9	1.4	0.05	90			
AMIS0343		5.7	6	3.8	1.2	0.12	80			
Target Range - Lower Bound		5.5	<1	2.7	0.4	<0.02	60			
Upper Bound		7.1	6	4.3	1.2	0.09	100			
GLG912-5								0.220	<0.0005	0.001
Target Range - Lower Bound								0.210	<0.0005	<0.001
Upper Bound								0.239	0.0010	0.003
GTA-01		5.7	1	4.9	0.3	<0.02	50			
GTA-01		5.9	<1	5.3	0.5	<0.02	70			
Target Range - Lower Bound		5.0	<1	4.5	0.3	<0.02	50			
Upper Bound		6.6	4	6.2	1.2	0.06	90			
GTA-02		6.1	3	6.0	0.4	<0.02	50			
Target Range - Lower Bound		4.8	<1	4.4	<0.2	<0.02	30			
Upper Bound		6.4	5	6.1	0.7	0.06	70			
LEA-16								0.494	0.0008	0.002
Target Range - Lower Bound								0.470		
Upper Bound								0.532		
OREAS 146		2.8	172	29.3	935	53.3	1650			
Target Range - Lower Bound		1.9	144	25.8	814	47.1	1360			
Upper Bound		2.9	178	32.2	996	57.7	1680			
OREAS-45e								0.053	0.1080	0.077
Target Range - Lower Bound								0.049	0.1030	0.070
Upper Bound								0.057	0.1170	0.081
SY-4		0.9	6	<0.3	108.5	14.60	110			
SY-4		1.0	7	<0.3	123.5	14.90	100			
Target Range - Lower Bound		0.4	6	<0.3	107.0	13.65	80			
Upper Bound		1.2	10	0.9	131.0	16.75	130			

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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Method Analyte Units LOR	ME-MS89L Ag ppm 5	ME-MS89L As ppm 4	ME-MS89L Ba ppm 2	ME-MS89L Be ppm 0.4	ME-MS89L Bi ppm 0.1	ME-MS89L Ca % 0.1	ME-MS89L Cd ppm 0.8	ME-MS89L Ce ppm 0.2	ME-MS89L Co ppm 0.5	ME-MS89L Cs ppm 0.1	ME-MS89L Cu ppm 20	ME-MS89L Dy ppm 0.03	ME-MS89L Er ppm 0.02	ME-MS89L Eu ppm 0.03	ME-MS89L Fe % 0.05
Sample Description															
BLANKS															
BLANK	14	<4	<2	<0.4	0.2	0.1	1.1	<0.2	<0.5	0.1	<20	0.05	0.05	0.05	<0.05
BLANK	12	<4	<2	<0.4	0.3	0.1	0.8	0.4	<0.5	0.1	<20	<0.03	0.02	0.08	<0.05
BLANK	7	<4	2	<0.4	0.1	0.1	<0.8	0.3	<0.5	<0.1	<20	0.04	<0.02	<0.03	<0.05
BLANK	<5	<4	<2	<0.4	0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	0.09	<0.02	<0.03	<0.05
BLANK	8	<4	2	<0.4	0.2	<0.1	<0.8	<0.2	0.7	0.1	<20	<0.03	<0.02	<0.03	0.05
BLANK	14	<4	4	<0.4	0.2	<0.1	1.1	0.8	<0.5	0.1	<20	0.04	<0.02	<0.03	0.06
Target Range - Lower Bound	<5	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05
Upper Bound	10	8	4	0.8	0.2	0.2	1.6	0.4	1.0	0.2	40	0.06	0.04	0.06	0.10
BLANK															
Target Range - Lower Bound															
Upper Bound															
DUPLICATES															
SC170278	<5	6	32	2.7	0.3	0.1	<0.8	5.0	0.5	24.2	<20	1.36	0.30	0.06	0.89
DUP	14	8	29	2.6	0.3	0.2	<0.8	4.2	1.1	22.2	<20	1.23	0.41	0.23	0.79
Target Range - Lower Bound	<5	<4	27	2.1	0.2	<0.1	<0.8	4.2	<0.5	21.9	<20	1.20	0.32	0.11	0.75
Upper Bound	10	8	34	3.2	0.4	0.2	1.6	5.0	1.0	24.5	40	1.39	0.39	0.18	0.93
SC170280															
DUP															
Target Range - Lower Bound															
Upper Bound															
SC170206															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL	8	10	68	2.9	0.8	0.1	1.0	64.8	1.0	11.6	<20	2.81	1.23	0.36	1.33
DUP	<5	12	67	3.4	0.3	0.1	<0.8	63.4	0.7	10.5	<20	3.05	1.20	0.36	1.26
Target Range - Lower Bound	<5	6	62	2.5	0.4	<0.1	<0.8	60.7	<0.5	10.4	<20	2.75	1.13	0.31	1.18
Upper Bound	10	16	73	3.8	0.7	0.2	1.6	67.5	1.0	11.7	40	3.11	1.30	0.41	1.41
ORIGINAL	9	11	36	2.9	0.6	0.1	<0.8	10.9	0.7	98.9	<20	0.58	0.11	0.16	1.02
DUP	<5	15	35	4.1	0.3	<0.1	<0.8	11.2	0.7	96.4	<20	0.59	0.08	0.16	1.01
Target Range - Lower Bound	<5	8	32	2.8	0.3	<0.1	<0.8	10.3	<0.5	92.7	<20	0.53	0.07	0.12	0.91
Upper Bound	10	18	39	4.2	0.6	0.2	1.6	11.8	1.0	102.5	40	0.64	0.12	0.20	1.12

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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Method Analyte Units LOR	ME-MS89L Ga ppm 0.5	ME-MS89L Gd ppm 0.03	ME-MS89L Ge ppm 0.5	ME-MS89L Ho ppm 0.01	ME-MS89L In ppm 0.3	ME-MS89L K % 0.05	ME-MS89L La ppm 0.08	ME-MS89L Li ppm 2	ME-MS89L Lu ppm 0.05	ME-MS89L Mn ppm 10	ME-MS89L Mo ppm 2	ME-MS89L Nb ppm 0.8	ME-MS89L Nd ppm 0.07	ME-MS89L Ni ppm 10	ME-MS89L Pb ppm 0.5
Sample Description															
BLANKS															
BLANK	0.5	<0.03	<0.5	<0.01	<0.3	0.07	<0.08	4	<0.05	10	<2	1.5	<0.07	30	0.5
BLANK	<0.5	0.07	<0.5	<0.01	<0.3	0.07	0.72	2	<0.05	10	<2	2.9	0.19	10	0.6
BLANK	0.9	<0.03	0.9	0.01	<0.3	0.05	0.18	<2	<0.05	10	<2	0.8	0.13	<10	<0.5
BLANK	1.1	<0.03	1.9	<0.01	<0.3	<0.05	<0.08	2	<0.05	<10	<2	<0.8	<0.07	<10	<0.5
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	2	<0.05	10	<2	<0.8	<0.07	40	0.5
BLANK	0.5	<0.03	1.5	<0.01	<0.3	0.06	2.64	<2	<0.05	10	<2	1.7	0.74	<10	<0.5
Target Range - Lower Bound	<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
Upper Bound	1.0	0.06	1.0	0.02	0.6	0.10	0.16	4	0.10	20	4	1.6	0.14	20	1.0
BLANK															
Target Range - Lower Bound															
Upper Bound															
DUPLICATES															
SC170278	13.2	1.51	<0.5	0.16	<0.3	2.81	2.81	54	0.08	90	<2	51.0	2.90	<10	7.1
DUP	14.5	1.33	1.7	0.15	<0.3	3.00	2.15	44	<0.05	90	<2	49.8	2.60	10	7.2
Target Range - Lower Bound	12.7	1.32	<0.5	0.14	<0.3	2.71	2.28	45	<0.05	80	<2	47.1	2.54	<10	6.3
Upper Bound	15.0	1.52	1.7	0.17	0.6	3.10	2.68	53	0.10	100	4	53.7	2.96	20	8.0
SC170280															
DUP															
Target Range - Lower Bound															
Upper Bound															
SC170206															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL	11.3	4.97	<0.5	0.56	<0.3	1.93	28.9	55	0.11	120	<2	14.1	25.8	<10	3.6
DUP	11.6	4.23	<0.5	0.42	<0.3	1.88	28.8	57	0.16	130	<2	12.2	25.2	<10	3.4
Target Range - Lower Bound	10.4	4.34	<0.5	0.46	<0.3	1.76	27.3	51	0.08	110	<2	11.7	24.2	<10	2.8
Upper Bound	12.5	4.86	1.0	0.52	0.6	2.05	30.4	61	0.19	140	4	14.6	26.8	20	4.2
ORIGINAL	9.7	0.94	2.4	0.09	<0.3	1.07	8.11	162	<0.05	230	<2	25.1	6.27	<10	5.9
DUP	10.6	1.29	1.7	0.08	<0.3	1.04	8.15	165	<0.05	240	<2	23.8	6.17	<10	5.7
Target Range - Lower Bound	9.1	1.03	1.4	0.07	<0.3	0.95	7.64	153	<0.05	210	<2	22.4	5.84	<10	5.0
Upper Bound	11.2	1.20	2.7	0.10	0.6	1.16	8.62	174	0.10	260	4	26.5	6.60	20	6.6

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

***** See Appendix Page for comments regarding this certificate *****



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 32 Shand Street
 Stafford
 Brisbane QLD 4053
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QC CERTIFICATE OF ANALYSIS AD17205417

Method Analyte Units LOR	ME-MS89L Pr ppm 0.03	ME-MS89L Rb ppm 0.5	ME-MS89L Re ppm 0.01	ME-MS89L Sb ppm 0.3	ME-MS89L Se ppm 3	ME-MS89L Sm ppm 0.04	ME-MS89L Sn ppm 3	ME-MS89L Sr ppm 20	ME-MS89L Ta ppm 0.04	ME-MS89L Tb ppm 0.01	ME-MS89L Te ppm 0.5	ME-MS89L Th ppm 0.1	ME-MS89L Ti % 0.005	ME-MS89L Tl ppm 0.02	ME-MS89L Tm ppm 0.01
Sample Description															
BLANKS															
BLANK	<0.03	<0.5	<0.01	<0.3	7	<0.04	<3	<20	0.75	<0.01	<0.5	<0.1	<0.005	<0.02	<0.01
BLANK	<0.03	<0.5	<0.01	<0.3	10	<0.04	11	<20	1.77	0.01	<0.5	0.2	<0.005	<0.02	0.03
BLANK	<0.03	<0.5	<0.01	<0.3	3	<0.04	<3	<20	<0.04	<0.01	0.7	0.1	<0.005	<0.02	0.01
BLANK	<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
BLANK	<0.03	<0.5	<0.01	<0.3	9	0.06	<3	<20	<0.04	0.01	1.4	<0.1	<0.005	<0.02	<0.01
BLANK	0.04	<0.5	<0.01	<0.3	7	0.18	<3	<20	0.24	0.02	0.8	0.3	<0.005	<0.02	<0.01
Target Range - Lower Bound	<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
Upper Bound	0.06	1.0	0.02	0.6	6	0.08	6	40	0.08	0.02	1.0	0.2	0.010	0.04	0.02
BLANK															
Target Range - Lower Bound															
Upper Bound															
DUPLICATES															
SC170278	0.64	325	0.01	0.3	<3	1.08	371	20	29.9	0.24	<0.5	0.9	<0.005	1.28	0.04
DUP	0.50	311	<0.01	1.0	<3	0.84	271	<20	25.8	0.24	<0.5	0.8	<0.005	1.22	0.03
Target Range - Lower Bound	0.51	302	<0.01	<0.3	<3	0.87	302	<20	26.4	0.22	<0.5	0.7	<0.005	1.17	0.02
Upper Bound	0.63	334	0.02	1.0	6	1.05	340	40	29.3	0.26	1.0	1.0	0.010	1.33	0.05
SC170280															
DUP															
Target Range - Lower Bound															
Upper Bound															
SC170206															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL	7.39	243	<0.01	0.3	<3	5.55	10	<20	0.79	0.45	<0.5	23.3	0.099	1.12	0.20
DUP	7.17	238	<0.01	0.4	4	4.55	9	<20	1.05	0.53	<0.5	24.0	0.099	1.08	0.18
Target Range - Lower Bound	6.89	228	<0.01	<0.3	<3	4.76	6	<20	0.83	0.46	<0.5	22.4	0.087	1.03	0.17
Upper Bound	7.67	253	0.02	0.6	6	5.34	13	40	1.01	0.52	1.0	24.9	0.111	1.18	0.21
ORIGINAL	1.97	398	<0.01	0.5	<3	1.08	447	<20	11.35	0.14	<0.5	0.6	<0.005	1.82	0.01
DUP	1.96	398	<0.01	0.3	3	1.55	453	<20	11.45	0.15	<0.5	0.6	<0.005	1.57	<0.01
Target Range - Lower Bound	1.84	378	<0.01	<0.3	<3	1.21	425	<20	10.80	0.13	<0.5	0.5	<0.005	1.59	<0.01
Upper Bound	2.09	418	0.02	0.6	6	1.42	476	40	12.00	0.16	1.0	0.7	0.010	1.80	0.02

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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QC CERTIFICATE OF ANALYSIS AD17205417

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	PGM-MS23 Au ppm 0.001	PGM-MS23 Pt ppm 0.0005	PGM-MS23 Pd ppm 0.001
BLANKS										
BLANK		0.3	<1	0.3	<0.2	0.02	<10			
BLANK		0.2	2	<0.3	<0.2	0.05	<10			
BLANK		0.3	3	<0.3	0.2	<0.02	<10			
BLANK		<0.2	2	<0.3	<0.2	<0.02	<10			
BLANK		<0.2	<1	<0.3	0.2	<0.02	10			
BLANK		0.4	1	<0.3	<0.2	<0.02	<10			
Target Range - Lower Bound		<0.2	<1	<0.3	<0.2	<0.02	<10			
Upper Bound		0.4	2	0.6	0.4	0.04	20			
BLANK								0.001	<0.0005	<0.001
Target Range - Lower Bound								<0.001	<0.0005	<0.001
Upper Bound								0.002	0.0010	0.002
DUPLICATES										
SC170278		4.0	<1	7.6	5.0	0.27	20			
DUP		4.1	1	6.9	3.8	0.25	30			
Target Range - Lower Bound		3.6	<1	6.6	4.0	0.23	<10			
Upper Bound		4.5	2	7.9	4.8	0.29	40			
SC170280								0.003	<0.0005	0.001
DUP								0.001	<0.0005	<0.001
Target Range - Lower Bound								<0.001	<0.0005	<0.001
Upper Bound								0.003	0.0010	0.002
SC170206								0.002	<0.0005	0.001
DUP								0.001	<0.0005	0.001
Target Range - Lower Bound								<0.001	<0.0005	<0.001
Upper Bound								0.002	0.0010	0.002
ORIGINAL		4.7	9	2.0	15.8	1.27	10			
DUP		4.5	4	1.8	13.8	0.89	10			
Target Range - Lower Bound		4.2	5	1.5	13.9	1.01	<10			
Upper Bound		5.0	8	2.3	15.7	1.15	20			
ORIGINAL		9.2	3	6.5	3.0	0.09	40			
DUP		9.5	1	6.2	2.8	0.09	50			
Target Range - Lower Bound		8.7	<1	5.7	2.6	0.07	30			
Upper Bound		10.0	3	7.0	3.2	0.11	60			

Comments: **Corrected copy for ME-MS89L on samples SC170251 to SC170309**

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QC CERTIFICATE OF ANALYSIS AD17205417

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. NATA Accreditation does not cover the performance of ALS Perth Sample Preparation which is processed at 79 Distinction Road, Wangara, WA, Australia
PGM-MS23

Applies to Method:

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

CRU-21

LEV-01

LOG-22

LOG-24

PUL-21

PUL-QC

WEI-21

Applies to Method:

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

ME-MS89L