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NORTHERN TERRITORY ENVIRONMENTAL LABORATORIES

CHEMICAL ANALYSIS REPORT

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REPORT CODE: NT34923
Report Date: 22/01/2013
Samples Received: 31/12/2012
Number of Samples: 12

Report Distribution:

Seamus May

Purchase Order: SS 316654
Project: SS 316654
Cost Code: _____

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Report Details:

Test results only apply to samples received
Samples were analysed between 31/12/12 and 22/01/13

Comments:

Authorisation:

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Methodology:

Analysis	Analytical Method	Technique	Accuracy/ Precision +/-%	Detection Data	
				Limit	Units
Ag	AR05	ICPMS	10	0.05	ppm
Al	AR05I	ICPOES	10	5	ppm
As	AR05	ICPMS	10	0.5	ppm
Au	AR05	ICPMS	10	5	ppb
B	AR05	ICPMS	10	5	ppm
Ba	AR05	ICPMS	10	1	ppm
Be	AR05	ICPMS	10	0.1	ppm
Bi	AR05	ICPMS	10	0.01	ppm
Ca	AR05I	ICPOES	10	10	ppm
Cd	AR05	ICPMS	10	0.05	ppm
Ce	AR05	ICPMS	10	0.01	ppm
Co	AR05	ICPMS	10	0.01	ppm
Cr	AR05	ICPMS	10	1	ppm
Cs	AR05	ICPMS	10	0.01	ppm
Cu	AR05	ICPMS	10	0.5	ppm
Fe	AR05I	ICPOES	10	5	ppm
Ga	AR05	ICPMS	10	0.05	ppm
Hf	AR05	ICPMS	10	0.01	ppm
Hg	AR05	ICPMS	10	0.05	ppm
In	AR05	ICPMS	10	0.05	ppm
K	AR05I	ICPOES	10	10	ppm
La	AR05	ICPMS	10	0.01	ppm
Li	AR05	ICPMS	10	0.05	ppm
Mg	AR05I	ICPOES	10	10	ppm
Mn	AR05	ICPMS	10	1	ppm
Mo	AR05	ICPMS	10	0.05	ppm
Na	AR05I	ICPOES	10	10	ppm
Nb	AR05	ICPMS	10	0.01	ppm
Ni	AR05	ICPMS	10	0.1	ppm
P	AR05I	ICPOES	10	10	ppm
Pb	AR05	ICPMS	10	0.5	ppm
Pd	AR05	ICPMS	10	5	ppb
Pt	AR05	ICPMS	10	5	ppb
Rb	AR05	ICPMS	10	0.05	ppm
Re	AR05	ICPMS	10	0.05	ppm
S	AR05I	ICPOES	10	20	ppm
Sb	AR05	ICPMS	10	0.05	ppm
Sc	AR05	ICPMS	10	0.1	ppm
Se	AR05	ICPMS	10	2	ppm
Sn	AR05	ICPMS	10	0.1	ppm
Sr	AR05	ICPMS	10	0.1	ppm
Ta	AR05	ICPMS	10	0.01	ppm
Te	AR05	ICPMS	10	0.05	ppm
Th	AR05	ICPMS	10	0.01	ppm
Ti	AR05	ICPMS	10	0.5	ppm
Tl	AR05	ICPMS	10	0.01	ppm
U	AR05	ICPMS	10	0.01	ppm
V	AR05	ICPMS	10	1	ppm
W	AR05	ICPMS	10	0.05	ppm
Y	AR05	ICPMS	10	0.05	ppm

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Methodology:

	Analytical Method	Technique	Accuracy/ Precision +/-%	Detection Data	
Analysis				Limit	Units
Zn	AR05	ICPMS	10	0.5	ppm
Zr	AR05	ICPMS	10	0.5	ppm

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Element:	Ag	Al	As	Au	B	Ba	Be	Bi	Ca
Method:	AR05	AR05I	AR05	AR05	AR05	AR05	AR05	AR05	AR05I
Units:	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Sample ID									
127769	0.10	2550	7.1	10	<5	1	0.3	0.13	70
127770	<0.05	1040	2.2	10	<5	1	<0.1	0.09	30
127771	<0.05	2320	10.6	<5	<5	1	0.2	1.71	30
127772	<0.05	2390	40.7	5	<5	1	0.3	0.21	40
127773	<0.05	1.50%	133	235	<5	1	0.8	3.65	70
127774	<0.05	1.78%	119	20	<5	1	1.0	0.78	60
127775	0.05	2850	30.3	20	5	1	0.2	0.69	20
127776	0.05	4390	478	55	5	1	0.5	1.19	30
127777	<0.05	1650	13.2	<5	<5	1	0.2	0.05	40
127778	<0.05	1640	17.1	<5	<5	1	0.1	0.48	30
127779	<0.05	1470	14.5	<5	<5	1	0.1	0.24	40
127780	<0.05	3230	132	<5	<5	1	0.2	0.05	20

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Element:	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Hf
Method:	AR05	AR05	AR05	AR05	AR05	AR05	AR05I	AR05	AR05
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID									
127769	<0.05	37.2	0.49	49	0.76	28.5	2490	0.65	0.39
127770	<0.05	15.0	0.35	65	0.21	16.5	4300	0.25	0.08
127771	<0.05	20.9	1.08	71	0.29	6.0	5550	0.50	0.12
127772	<0.05	14.2	0.43	75	1.01	13.5	7430	0.60	0.06
127773	<0.05	79.0	7.60	52	6.86	3.0	2.85%	3.65	0.30
127774	<0.05	78.5	12.4	36	2.81	28.0	3.82%	4.50	0.21
127775	<0.05	27.3	0.32	33	0.67	25.0	5680	0.80	0.23
127776	<0.05	38.7	0.69	68	0.45	12.5	4.60%	2.30	0.43
127777	<0.05	9.69	0.42	76	0.47	2.5	5230	0.70	0.07
127778	<0.05	10.7	1.11	77	0.23	2.5	3080	0.40	0.17
127779	<0.05	4.42	0.46	83	0.37	1.0	2440	0.40	0.12
127780	<0.05	9.70	2.16	56	0.22	4.0	3.13%	1.70	0.21

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Element:	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Method:	AR05	AR05	AR05I	AR05	AR05	AR05I	AR05	AR05	AR05I
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID									
127769	<0.05	<0.05	1240	16.6	0.70	150	16	4.90	30
127770	<0.05	<0.05	550	7.57	0.45	40	9	10.9	30
127771	<0.05	<0.05	790	10.1	0.60	70	15	7.35	40
127772	<0.05	<0.05	630	7.07	0.90	130	11	13.2	20
127773	<0.05	<0.05	4650	49.1	15.7	2100	72	2.80	160
127774	<0.05	<0.05	3100	39.3	24.0	2440	316	1.75	140
127775	<0.05	<0.05	1280	12.6	1.30	110	6	2.95	70
127776	<0.05	<0.05	1540	19.2	0.75	110	12	9.10	90
127777	<0.05	<0.05	850	4.67	0.50	80	9	7.40	50
127778	<0.05	<0.05	830	5.07	0.50	80	10	14.1	10
127779	<0.05	<0.05	780	2.10	0.45	80	10	8.40	10
127780	<0.05	<0.05	450	4.02	0.55	50	12	9.50	20

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Element:	Nb	Ni	P	Pb	Pd	Pt	Rb	Re	S
Method:	AR05	AR05	AR05I	AR05	AR05	AR05	AR05	AR05	AR05I
Units:	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm
Sample ID									
127769	0.32	1.8	110	4.5	<5	<5	14.9	<0.05	20
127770	0.15	3.8	120	2.0	<5	<5	4.75	<0.05	<20
127771	0.08	4.0	100	2.0	<5	<5	7.60	<0.05	<20
127772	0.11	4.8	80	1.5	<5	<5	10.0	<0.05	<20
127773	1.25	23.3	210	5.0	<5	<5	77.2	<0.05	20
127774	0.95	33.3	220	6.5	<5	<5	43.5	<0.05	20
127775	0.19	4.9	50	4.0	<5	<5	9.05	<0.05	20
127776	0.36	4.2	130	3.5	<5	<5	10.0	<0.05	100
127777	0.06	2.0	70	1.0	<5	<5	9.55	<0.05	<20
127778	0.08	4.5	50	2.0	<5	<5	7.40	<0.05	<20
127779	0.05	2.6	40	1.0	<5	<5	7.85	<0.05	<20
127780	0.10	4.5	190	2.0	<5	<5	5.90	<0.05	60

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Element:	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
Method:	AR05	AR05	AR05	AR05	AR05	AR05	AR05	AR05	AR05
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID									
127769	0.05	0.2	<2	0.4	4.5	<0.01	<0.05	13.5	18.5
127770	0.05	0.1	<2	0.3	1.9	<0.01	<0.05	4.14	31.5
127771	0.05	0.2	<2	0.3	1.1	<0.01	<0.05	4.53	15.0
127772	0.10	0.1	<2	0.5	1.1	<0.01	0.05	2.92	22.0
127773	<0.05	1.4	<2	0.8	4.2	<0.01	0.35	17.3	564
127774	0.05	1.7	<2	0.6	3.2	<0.01	0.05	16.6	272
127775	0.10	0.5	<2	0.8	2.2	<0.01	0.05	6.06	38.5
127776	0.15	0.9	<2	0.7	1.8	0.02	0.10	12.3	82.0
127777	0.05	0.2	<2	0.8	2.5	<0.01	<0.05	3.54	15.5
127778	0.05	<0.1	<2	0.4	2.3	<0.01	<0.05	5.38	16.0
127779	0.05	<0.1	<2	0.3	2.7	<0.01	<0.05	2.08	9.0
127780	0.30	0.3	<2	3.5	2.3	<0.01	<0.05	8.76	25.0

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Element:	Tl	U	V	W	Y	Zn	Zr
Method:	AR05						
Units:	ppm						
Sample ID							
127769	0.09	0.84	5	0.20	3.20	4.5	7.0
127770	0.03	0.79	4	0.45	1.15	1.5	2.5
127771	0.04	1.98	5	0.20	1.75	1.5	4.5
127772	0.05	0.54	4	0.60	0.95	2.0	2.5
127773	0.48	2.95	16	0.35	4.25	37.0	12.0
127774	0.28	1.80	19	0.65	3.45	49.5	9.0
127775	0.03	0.54	5	1.10	2.05	1.0	10.5
127776	0.04	1.12	19	2.15	1.65	2.5	11.0
127777	0.05	0.45	5	0.20	1.65	1.0	2.5
127778	0.03	1.12	4	0.30	1.35	1.5	6.0
127779	0.04	0.63	5	0.35	0.85	1.0	5.0
127780	0.03	1.29	17	0.40	1.05	3.5	7.0