



Australian Laboratory Services Pty. Ltd.
 32 Shand Street
 Stafford
 Brisbane QLD 4053
 Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
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CERTIFICATE BR10174550

Project: Dove River
 P.O. No.: 1/1
 This report is for 11 Rock samples submitted to our lab in Brisbane, QLD, Australia on 25-NOV-2010.
 The following have access to data associated with this certificate:
 JOHN MCDUGALL

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
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	
ME-MS61	48 element four acid ICP-MS	
ME-MS82	Complete rare earth package	ICP-MS
Au-AA21	Au 30g FA Ext-AA finish	AAS
ME-XRF11b	Iron Ore by Fusion XRF	XRF
ME-GRA05	H2O/LOI by TGA furnace	TGA
ME-CON02	Various Elements in Concs.	

To: **PLUTON RESOURCES**
ATTN: JOHN MCDUGALL
PO BOX 426
ROSNY PARK TAS 7019

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:

Shaun Kenny, Brisbane Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
152816		0.34	0.06	7.37	2.2	2120	2.17	0.16	0.05	0.02	120.0	1.1	22	2.28	21.5	2.09
152817		0.42	0.09	7.02	5.7	2320	1.55	0.99	0.11	0.04	108.5	3.7	46	2.87	32.3	4.30
152818		0.93	0.17	6.83	4.5	720	3.62	0.21	0.10	0.05	327	3.3	75	5.07	90.1	7.78
152819		0.48	0.17	7.47	5.2	1000	2.61	0.12	0.08	0.02	63.6	8.9	69	6.31	231	3.57
152820		0.56	0.04	7.54	2.4	1040	2.88	0.06	0.68	0.11	126.0	14.4	74	4.54	43.4	3.03
152821		0.31	0.06	7.97	2.5	1030	2.41	0.19	0.63	0.03	122.0	21.6	129	7.75	129.5	5.02
152822		0.30	0.07	8.20	2.7	1320	2.71	0.07	2.03	0.04	99.3	17.4	116	5.57	35.3	4.68
153867		0.68	0.46	0.61	62.7	70	1.72	4.29	0.03	0.04	70.0	1.4	4	0.86	17.1	49.5
152836		1.52	0.18	1.31	6.2	100	0.98	11.20	0.03	<0.02	27.2	3.4	21	1.02	49.4	22.9
152866		2.24	0.20	2.01	3.3	70	0.79	17.75	0.02	<0.02	9.07	1.5	7	0.53	6.6	33.5
152868		0.48	0.16	7.93	1.4	1490	2.57	0.48	1.79	0.05	77.8	13.4	88	2.40	20.1	4.76



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Sample Description	Method Analyte Units LOR	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
152816		17.25	0.25	3.2	0.117	5.11	69.4	5.4	0.42	151	2.34	0.11	10.4	19.3	280	26.6
152817		19.35	0.28	3.8	0.102	5.56	55.9	5.4	0.44	476	8.92	0.18	13.1	36.2	340	12.1
152818		19.60	0.46	3.3	0.214	2.59	177.5	9.8	0.74	262	0.59	0.09	7.2	14.5	930	36.9
152819		17.65	0.19	3.4	0.071	4.34	31.3	12.2	1.02	628	0.57	0.11	15.0	30.2	320	37.6
152820		18.80	0.30	3.6	0.046	3.82	60.6	15.0	1.22	718	0.93	1.40	15.6	39.4	500	8.3
152821		22.0	0.31	4.7	0.101	3.64	57.6	20.2	1.93	1570	1.95	0.83	16.4	41.5	730	6.3
152822		20.7	0.31	3.5	0.057	3.55	45.6	23.0	2.35	676	2.76	0.95	16.1	54.5	770	14.8
153867		3.86	1.35	0.2	0.848	0.29	26.5	1.2	0.07	138	19.15	0.02	1.2	13.2	100	78.0
152836		8.19	0.39	0.4	0.095	0.34	16.5	3.6	0.22	395	18.75	0.07	3.2	10.8	140	8.1
152866		8.90	0.55	0.6	0.164	0.46	5.2	2.7	0.20	81	6.46	0.12	8.7	5.1	70	8.5
152868		19.60	0.26	3.4	0.037	3.13	37.5	11.2	1.70	519	1.70	1.44	14.4	38.0	740	10.8

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Sample Description	Method Analyte Units LOR	ME-MS61														
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	%	ppm	ppm	ppm							
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
152816		267	0.004	0.01	0.66	9.8	1	5.8	47.6	0.82	0.05	16.9	0.164	1.27	3.6	49
152817		275	0.003	0.01	1.06	10.0	1	3.5	72.7	1.06	0.07	26.0	0.211	1.34	7.1	55
152818		217	0.003	0.01	1.07	17.9	1	19.8	50.5	0.69	0.15	23.7	0.172	0.82	6.4	116
152819		274	0.002	<0.01	1.22	11.9	1	3.6	53.2	1.25	<0.05	27.5	0.247	1.03	6.0	70
152820		195.0	0.002	0.01	0.39	12.6	1	2.7	154.0	1.14	<0.05	28.5	0.269	0.83	3.5	69
152821		221	0.003	0.01	0.53	22.9	2	3.6	129.5	1.03	0.05	16.0	0.459	0.71	3.1	148
152822		199.5	0.003	0.02	0.36	22.6	2	3.1	231	1.11	<0.05	18.9	0.430	0.69	4.2	137
153867		20.6	0.002	<0.01	14.05	4.0	2	0.5	5.9	0.05	0.08	0.9	0.012	0.08	33.8	43
152836		26.0	0.003	<0.01	8.68	8.1	3	141.5	10.4	0.14	5.20	2.1	0.041	0.13	6.8	112
152866		35.0	0.004	<0.01	2.18	7.8	<1	>500	12.7	0.29	9.08	3.8	0.053	0.19	3.2	196
152868		137.0	0.002	0.02	0.51	19.2	1	8.8	248	0.97	0.17	18.2	0.391	0.47	3.5	124

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS82											
		W	Y	Zn	Zr	Ce	Dy	Er	Eu	Gd	Ho	La	Lu	Nd	Pr	Sm	
		ppm	ppm														
		0.1	0.1	2	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.5	0.1	0.1
152816		19.3	16.6	20	79.2	120.0	5.1	3.1	2.3	5.7	1.0	69.4	0.4	42.7	12.6	7.6	
152817		5.6	26.2	26	97.4	100.0	4.6	2.8	1.7	5.6	0.9	51.3	0.4	39.7	11.3	7.2	
152818		35.4	21.2	44	80.3	317	7.5	3.5	3.8	11.6	1.3	180.5	0.4	110.5	34.2	18.0	
152819		6.9	18.6	52	82.8	67.3	4.8	3.2	1.3	4.5	1.0	33.7	0.5	26.6	7.5	5.3	
152820		1.9	28.7	45	88.5	125.5	6.0	3.5	1.7	7.1	1.2	60.8	0.5	50.7	14.2	9.4	
152821		7.2	30.4	64	134.5	118.0	6.3	3.8	2.0	8.1	1.2	55.3	0.6	53.9	14.4	10.2	
152822		0.8	40.8	43	90.6	96.8	7.9	4.8	1.9	8.7	1.6	44.3	0.7	47.0	12.3	9.7	
153867		36.0	42.5	<2	3.6												
152836		274	80.8	8	7.2												
152866		490	7.3	3	15.3												
152868		7.0	34.5	51	90.9	91.1	7.5	4.6	1.9	8.0	1.5	45.6	0.7	44.5	11.4	9.2	

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 32 Shand Street
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Sample Description	Method Analyte Units LOR	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	ME-MS82	Au-AA21	ME-XRF11b							
		Tb	Th	Tm	U	Y	Yb	Au	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu
		ppm	%	%	%	%	%	%	%	%						
		0.1	1	0.1	0.5	0.5	0.1	0.002	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001
152816		0.8	16	0.4	3.6	27.8	2.8	0.002	13.40	<0.001	0.209	0.06	0.011	<0.001	0.010	0.002
152817		0.9	23	0.4	6.2	27.8	2.4	0.004	13.05	<0.001	0.236	0.18	0.015	0.002	0.005	0.004
152818		1.5	23	0.4	6.1	29.0	2.8	0.003	12.25	<0.001	0.070	0.14	0.013	<0.001	0.010	0.009
152819		0.8	28	0.5	6.0	26.8	3.2	<0.002	14.25	<0.001	0.104	0.12	0.015	0.001	0.011	0.025
152820		1.1	28	0.5	3.4	31.2	3.3	0.003	13.60	<0.001	0.106	0.92	0.039	0.002	0.009	0.005
152821		1.1	16	0.5	3.2	31.9	3.4	<0.002	14.35	<0.001	0.106	0.84	0.022	0.002	0.017	0.013
152822		1.3	19	0.7	4.3	43.3	4.4	<0.002	14.40	<0.001	0.135	2.77	0.064	0.002	0.018	0.004
153867								0.008	1.06	0.009	0.003	0.04	0.013	<0.001	<0.001	0.003
152836								0.037	2.46	0.002	0.007	0.05	0.020	<0.001	0.007	0.006
152866								0.017	3.60	0.002	0.004	0.04	0.012	<0.001	0.015	0.003
152868		1.2	21	0.6	3.8	42.0	4.1	0.002	14.65	<0.001	0.155	2.51	0.043	0.002	0.015	0.003

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Sample Description	Method Analyte Units LOR	ME-XRF11b														
		Fe %	K2O %	MgO %	MnO %	Mn %	Na2O %	Ni %	P %	Pb %	S %	SiO2 %	Sn %	Sr %	TiO2 %	V %
152816		2.00	>6.3	0.72	0.019	0.015	0.160	0.004	0.029	<0.001	0.003	73.5	<0.001	0.003	0.37	0.006
152817		4.28	>6.3	0.79	0.061	0.047	0.266	0.002	0.037	<0.001	<0.001	70.2	<0.001	0.008	0.37	0.007
152818		7.93	3.31	1.26	0.032	0.025	0.130	<0.001	0.094	<0.001	0.008	67.3	0.002	0.003	0.44	0.012
152819		3.69	5.79	1.83	0.083	0.064	0.166	<0.001	0.035	<0.001	0.002	68.5	<0.001	0.003	0.45	0.007
152820		2.92	4.88	2.11	0.092	0.071	2.11	<0.001	0.051	<0.001	0.006	69.3	<0.001	0.013	0.46	0.007
152821		5.01	4.64	3.30	0.200	0.155	1.250	<0.001	0.074	<0.001	0.020	63.6	<0.001	0.010	0.78	0.015
152822		4.59	4.41	3.92	0.085	0.066	1.405	0.003	0.076	<0.001	0.017	62.7	<0.001	0.019	0.72	0.014
153867		64.16	0.35	0.11	0.021	0.016	0.035	<0.001	0.014	0.006	0.002	6.21	<0.001	<0.001	0.02	0.004
152836		24.74	0.44	0.39	0.020	0.016	0.094	0.003	0.020	<0.001	0.004	60.4	0.016	<0.001	0.07	0.012
152866		38.11	0.58	0.36	0.008	0.006	0.174	0.010	0.008	<0.001	0.003	39.7	0.150	<0.001	0.10	0.021
152868		4.94	3.90	3.00	0.069	0.053	2.18	0.002	0.075	<0.001	0.020	63.4	<0.001	0.022	0.67	0.013

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Sample Description	Method Analyte Units LOR	ME-XRF11b	ME-XRF11b	ME-XRF11b	ME-GRA05	ME-CON02
		Zn %	Zr %	Total %	LOI %	K2O %
		0.001	0.001	0.01	0.01	0.01
152816		0.002	0.022	99.98	2.04	6.49
152817		0.004	0.024	100.00	1.31	7.23
152818		0.004	0.023	99.98	3.40	
152819		0.006	0.023	100.00	3.25	
152820		0.005	0.024	100.05	2.06	
152821		0.007	0.033	99.99	3.41	
152822		0.005	0.033	100.05	2.60	
153867		<0.001	0.001	100.00	0.35	
152836		0.001	0.007	99.97	0.54	
152866		<0.001	0.007	100.05	0.68	
152868		0.006	0.030	100.05	2.08	



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Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.