



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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Finalized Date: 6-MAR-2009
Account: NUPRES

CERTIFICATE AS09010788

Project: luckycreek p

P.O. No.: 2009/2

This report is for 131 Pulp samples submitted to our lab in Alice Springs, NT, Australia on 27-JAN-2009.

The following have access to data associated with this certificate:

WARRICK RAFFERTY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LEV-01	Waste Disposal Levy
LOG-24	Pulp Login - Rcd w/o Barcode
CMP-23	Pulp Login - Composite Sample
HOM-01	Homogenise Sample

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-XRF12p	Phosphates by XRF	XRF
ME-GRA05	H2O/LOI by TGA furnace	TGA
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS62s	Up to 54 elements by ICP-MS	ICP-MS
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: **NUPOWER RESOURCES LTD**
ATTN: WARRICK RAFFERTY
GPO BOX 2552
DARWIN NT 0801

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.

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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CERTIFICATE OF ANALYSIS AS09010788

Sample Description	Method Analyte Units LOR	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 La ppm 10	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sr ppm 1	ME-ICP61 V ppm 1	ME-ICP61 Zn ppm 2	ME-XRF12p Al2O3 % 0.01
761017 761018 761019 761020 761021		1.0	7	93	129	10	157	2	47	>10000	47	0.21	488	171	153	7.19
761022 761023 761024 761025 761026		0.5	6	70	85	10	144	1	60	>10000	23	0.04	304	95	175	4.01
761027 761028 761029 761030 761031		2.5	14	50	197	10	309	1	91	>10000	7	0.05	143	179	460	2.23
761032 761033 761034 761035 761036		1.2	12	56	144	20	211	1	80	>10000	8	0.02	701	107	372	4.55
761037 761038 761039 761040 761041		1.8	10	58	86	10	312	1	40	>10000	6	0.03	355	94	209	3.19
761042 761043 761044 761045 761046		1.4	13	48	77	20	250	1	36	>10000	9	0.02	380	64	184	4.16
761047 761048 761049 761050 761051		<0.5	11	94	50	20	125	2	61	>10000	14	0.01	383	47	222	6.61
761052 761053 761054 761055 761056		<0.5	26	59	28	20	787	1	90	9320	11	0.01	157	52	267	6.58



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		CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	LOI	Hg	As	Ce	Th	U
		%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm
761017 761018 761019 761020 761021		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.2	0.01	0.2	0.1
761022 761023 761024 761025 761026		2.37	6.90	0.50	0.32	0.02	0.17	2.98	73.9	0.16	4.55	0.046	12.0	24.2	5.5	39.7
761027 761028 761029 761030 761031		9.87	6.64	0.28	0.16	0.03	0.10	8.10	67.4	0.11	2.70	0.023	8.2	17.60	3.7	26.8
761032 761033 761034 761035 761036		31.5	10.90	0.11	0.11	0.05	0.09	24.0	26.1	0.08	3.02	0.075	23.8	11.15	2.5	22.0
761037 761038 761039 761040 761041		14.35	9.87	0.37	0.18	0.03	0.07	12.00	53.8	0.22	3.35	0.068	17.6	33.3	6.8	9.2
761042 761043 761044 761045 761046		28.8	4.96	0.17	0.09	0.05	0.09	21.9	36.5	0.12	2.48	0.090	5.1	18.60	4.3	12.8
761047 761048 761049 761050 761051		19.25	3.45	0.24	0.10	0.04	0.07	14.95	53.6	0.17	2.62	0.086	5.6	31.4	6.7	9.8
761052 761053 761054 761055 761056		2.35	5.54	0.50	0.20	0.02	0.08	2.70	78.1	0.28	3.01	0.036	7.2	47.4	9.7	3.7
		2.64	10.40	0.91	0.42	0.13	0.08	2.36	71.9	0.35	3.54	0.032	50.4	45.3	9.0	4.1



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		Cd	Co	Cr	Cu	La	Mn	Mo	Ni	P	Pb	S	Sr	V	Zn	Al2O3
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
761057 761058 761059 761060 761061		0.5	1	1	1	10	5	1	1	10	2	0.01	1	1	2	0.01
761057 761058 761059 761060 761061		0.8	25	52	86	30	518	1	110	>10000	62	0.03	274	83	371	6.57
761062 761063 761064 761065 761066		0.7	61	46	42	30	3760	1	122	3370	10	0.01	55	55	335	8.84
761067 761068 761069 761070 761071		<0.5	16	119	4	30	2870	2	31	2700	8	0.01	37	29	57	5.33
761123 761124 761125 761126 761127		<0.5	14	84	41	40	657	2	50	7650	15	0.14	389	134	123	7.19
761128 761129 761130 761131 761132		<0.5	11	64	18	20	304	1	41	4630	9	0.07	202	55	53	7.88
761133 761134 761135 761136 761137		<0.5	4	56	11	20	92	<1	15	2860	8	0.14	123	29	23	8.54
761138 761139 761140 761141 761142		<0.5	4	61	21	20	99	1	20	2830	8	0.04	134	36	27	9.19
761143 761144 761145 761146 761147		<0.5	8	67	19	20	97	1	20	1740	8	0.01	90	36	31	8.78



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		CaO	Fe2O3	K2O	MgO	MnO2	Na2O	P2O5	SiO2	TiO2	LOI	Hg	As	Ce	Th	U
		%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm
761057 761058 761059 761060 761061		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.2	0.01	0.2	0.1
761062 761063 761064 761065 761066		14.10	9.50	1.45	0.44	0.09	0.11	10.80	51.7	0.34	3.55	0.060	25.8	72.6	12.6	10.6
761067 761068 761069 761070 761071		0.93	12.85	3.08	0.77	0.65	0.13	0.83	67.2	0.46	3.76	0.034	5.8	79.6	13.8	4.9
761123 761124 761125 761126 761127		0.90	3.96	2.40	0.62	0.48	0.10	0.67	83.5	0.29	1.38	0.016	2.8	82.4	9.7	3.2
761128 761129 761130 761131 761132		0.53	32.4	0.31	0.19	0.10	0.06	1.88	49.0	0.29	6.88	0.021	25.3	86.1	11.0	39.0
761133 761134 761135 761136 761137		0.42	17.65	0.33	0.13	0.04	0.05	1.13	66.1	0.33	5.30	0.006	8.7	56.0	10.2	19.6
761138 761139 761140 761141 761142		0.31	5.55	0.41	0.10	0.01	0.05	0.70	79.5	0.33	3.93	<0.005	4.0	50.8	10.1	8.6
761143 761144 761145 761146 761147		0.29	5.64	0.39	0.12	0.01	0.06	0.67	78.9	0.36	3.79	<0.005	4.4	48.7	9.5	12.5
		0.18	4.31	0.48	0.13	0.01	0.03	0.41	81.5	0.40	3.31	<0.005	3.6	49.2	9.8	13.9



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761148 761149 761150 761151 761152		<0.5	26	45	20	20	133	1	47	1670	8	0.01	97	37	66	7.29
761153 761154 761155 761156 761157		<0.5	14	47	22	20	133	<1	34	2550	21	0.01	238	29	65	8.01
761158 761159 761160 761161 761162		<0.5	26	61	114	30	875	1	114	8410	95	0.02	615	81	227	9.79
761163 761164 761165 761166 761167		<0.5	10	88	25	50	240	1	42	1090	15	0.01	161	69	58	11.00
761168 761169 761170 761171 761256		<0.5	8	79	13	20	324	1	16	340	9	<0.01	57	24	23	6.48
761257 761316 761361 761362 761363		<0.5 <0.5	14 3	45 111	24 30	30 20	239 84	1 1	31 17	4500 5890	20 8	0.09 0.03	325 372	101 69	65 56	7.09 8.67
761364 761365 761366 761367 761368		0.7	30	38	24	20	272	1	13	>10000	47	0.09	432	31	108	4.90
761369 761370 761371 761372 761373		<0.5	49	55	192	40	609	1	81	>10000	34	0.03	404	58	208	8.99



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		CaO %	Fe2O3 %	K2O %	MgO %	MnO2 %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	Hg ppm	As ppm	Ce ppm	Th ppm	U ppm
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.2	0.01	0.2	0.1
761148 761149 761150 761151 761152		0.17	5.30	0.53	0.18	0.02	0.05	0.41	82.2	0.36	2.92	<0.005	6.2	50.3	9.6	13.5
761153 761154 761155 761156 761157		0.21	4.65	0.49	0.19	0.02	0.05	0.63	81.3	0.34	3.29	<0.005	14.4	54.4	10.8	11.0
761158 761159 761160 761161 761162		0.74	11.25	0.96	0.42	0.13	0.07	2.03	68.6	0.49	4.73	0.007	23.8	90.2	15.7	26.8
761163 761164 761165 761166 761167		0.12	5.45	1.20	0.40	0.03	0.08	0.27	76.3	0.66	3.77	<0.005	4.1	132.5	20.7	12.5
761168 761169 761170 761171 761256		0.05	2.02	0.50	0.16	0.05	0.02	0.08	88.0	0.23	2.19	0.008	1.7	43.8	9.3	5.7
761257 761316 761361 761362 761363		6.75	3.13	0.52	0.72	0.01	0.07	1.72	68.0	0.38	8.70	<0.005	3.4	53.1	10.3	4.7
		0.43	12.75	0.47	0.32	0.03	0.10	1.05	72.3	0.30	4.51	0.010	13.0	58.3	8.9	14.9
		0.51	3.21	0.85	0.32	0.01	0.16	1.40	80.3	0.42	3.45	<0.005	2.0	59.1	11.7	16.6
761364 761365 761366 761367 761368		27.7	1.06	0.73	0.31	0.05	0.16	21.3	39.4	0.23	2.38	0.008	<0.2	50.6	7.8	11.7
761369 761370 761371 761372 761373		2.89	7.55	1.15	0.47	0.10	0.19	2.85	70.4	0.46	4.06	<0.005	6.7	87.6	16.0	14.5



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761374 761375 761376 761377 761378		<0.5	36	84	341	40	409	2	185	3420	41	0.03	152	107	339	9.27
761379 761380 761412 761413		<0.5	5	155	349	30	101	1	24	>10000	30	0.11	383	73	98	13.75



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		CaO %	Fe2O3 %	K2O %	MgO %	MnO2 %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	Hg ppm	As ppm	Ce ppm	Th ppm	U ppm
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.2	0.01	0.2	0.1
761374 761375 761376 761377 761378		0.25	15.95	1.52	0.59	0.07	0.21	0.82	64.8	0.50	5.01	0.007	18.5	103.5	16.0	25.6
761379 761380 761412 761413		2.05	5.46	1.00	0.51	0.01	0.34	5.59	63.6	0.42	6.33	0.016	6.6	73.1	12.9	14.7