



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

Australian Laboratory Services Pty Ltd

32 Shand Street

Stafford

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Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218 www.alschemex.com

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Finalized Date: 19-DEC-2008  
Account: NUPRES

## QC CERTIFICATE AS08155782

Project: Phoeppates

P.O. No.: 2008/24

This report is for 42 Soil samples submitted to our lab in Alice Springs, NT, Australia on 3-NOV-2008.

The following have access to data associated with this certificate:

WARRICK RAFFERTY

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
WSH-22	"Wash" pulverizers
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test
LEV-02	Remote Lab Surcharge
PUL-23	Pulv Sample - Split/Retain

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-ICP81x	Peroxide fusion	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:**

Wayne Abbott, Operations Manager, Western Australia



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Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm
	LOR	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10
STANDARDS																
G2000		3.3	4.52	459	2260	1.3	<2	0.57	6.8	23	99	289	3.73	10	1.17	20
G2000		3.6	5.07	500	2510	1.4	2	0.63	7.4	25	111	322	4.08	10	1.29	30
Target Range - Lower Bound		2.7	4.52	431	2110	0.8	<2	0.51	6.0	21	90	272	3.46	<10	1.14	20
Upper Bound		4.4	5.54	637	2610	2.0	4	0.65	8.4	27	112	334	4.26	20	1.41	40
GBM303-1																
Target Range - Lower Bound																
Upper Bound																
GBM3961c		8.0	3.82	705	190	0.8	22	2.80	19.1	147	595	2740	7.89	10	0.72	20
GBM3961c		8.6	4.13	785	80	0.8	24	3.10	21.1	159	673	3090	8.77	10	0.80	20
Target Range - Lower Bound		6.8	3.75	664	160	<0.5	16	2.77	18.9	143	594	2580	7.83	<10	0.68	<10
Upper Bound		9.4	4.60	822	210	1.0	24	3.40	24.2	177	728	3160	9.60	20	0.85	40
MoB																
Target Range - Lower Bound																
Upper Bound																
NCSDC70018																
Target Range - Lower Bound																
Upper Bound																
SARM-3																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	1	2	<1	0.01	<10	<0.01	<10
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	1	1	<1	0.01	<10	<0.01	<10
BLANK																
Target Range - Lower Bound		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01	<10
Upper Bound		1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02	20	0.02	20



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Project: Phosphates

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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	U
		%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
STANDARDS															
G2000		0.70	531	6	0.13	263	960	649	0.26	34	10	113	<20	0.33	10
G2000		0.78	581	6	0.14	302	1060	711	0.29	40	12	125	<20	0.37	<10
Target Range - Lower Bound		0.67	506	5	0.13	246	870	601	0.23	26	10	103		0.31	<10
Upper Bound		0.85	630	8	0.18	302	1080	739	0.30	43	14	129		0.40	20
GBM303-1															
Target Range - Lower Bound															
Upper Bound															
GBM3961c		2.38	785	10	0.57	1970	350	1770	3.42	32	12	87	<20	0.24	<10
GBM3961c		2.66	873	10	0.64	2180	310	1960	3.82	32	13	96	<20	0.27	<10
Target Range - Lower Bound		2.32	780	8	0.56	1925	250	1720	3.33	22	11	83	<20	0.21	<10
Upper Bound		2.85	964	12	0.71	2360	330	2110	4.10	38	18	104	40	0.28	20
MoB															
Target Range - Lower Bound															
Upper Bound															
NCSDC70018															
Target Range - Lower Bound															
Upper Bound															
SARM-3															
Target Range - Lower Bound															
Upper Bound															
BLANKS															
BLANK		<0.01	<5	<1	<0.01	1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10
BLANK		<0.01	<5	<1	<0.01	<1	10	<2	<0.01	<5	<1	<1	<20	<0.01	<10
BLANK															
Target Range - Lower Bound		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10
Upper Bound		0.02	10	2	0.02	2	20	4	0.02	10	2	2	40	0.02	20



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## QC CERTIFICATE OF ANALYSIS AS08155782

Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	ME-ICP81x P2O5 % 0.02
Sample Description				
STANDARDS				
G2000	101	20	1260	
G2000	110	20	1380	
Target Range - Lower Bound	94	<10	1160	
Upper Bound	117	20	1420	
GBM303-1				0.15
Target Range - Lower Bound				
Upper Bound				
GBM3961c	100	10	6190	
GBM3961c	112	10	6800	
Target Range - Lower Bound	97	<10	6290	
Upper Bound	120	20	7690	
MoB				0.05
Target Range - Lower Bound				<0.02
Upper Bound				0.04
NCSDC70018				0.22
Target Range - Lower Bound				
Upper Bound				
SARM-3				0.05
Target Range - Lower Bound				0.04
Upper Bound				0.08
BLANKS				
BLANK	<1	<10	<2	
BLANK	<1	<10	<2	
BLANK				<0.02
Target Range - Lower Bound	<1	<10	<2	<0.02
Upper Bound	2	20	4	0.04



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Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	ME-ICP81x P2O5 % 0.02
Sample Description				
	DUPLICATES			
12807	86	<10	115	
DUP	89	<10	119	
Target Range - Lower Bound	82	<10	109	
Upper Bound	93	20	125	
12827	460	<10	168	
DUP	498	<10	177	
Target Range - Lower Bound	454	<10	162	
Upper Bound	504	20	183	
12839	89	<10	13	
DUP	87	<10	13	
Target Range - Lower Bound	83	<10	10	
Upper Bound	93	20	16	
ORIGINAL				0.24
DUP				0.23
Target Range - Lower Bound				0.21
Upper Bound				0.26
ORIGINAL				0.16
DUP				0.17
Target Range - Lower Bound				0.14
Upper Bound				0.19