



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

Australian Laboratory Services Pty Ltd

32 Shand Street

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

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Finalized Date: 26-MAR-2007  
This copy reported on: 27-MAR-2007  
Account: PANRES

## CERTIFICATE BR07022253

Project: NITAS

P.O. No.: SSF PRS2

This report is for 31 Rock samples submitted to our lab in Brisbane, QLD, Australia on 7-MAR-2007.

The following have access to data associated with this certificate:

DARYL NUNN

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
TRA-21	Transfer sample
BAG-01	Bulk Master for Storage
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
PUL-21	Pulverize entire sample

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP61s	Up to 27 Element 4 Acid ICPAES	ICP-AES

To: PANGEAN RESOURCES  
ATTN: DARYL NUNN  
90 GREGORY STREET  
AUCHENFLOWER QLD 4066

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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Project: NITAS

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Finalized Date: 26-MAR-2007

Account: PANRES

## CERTIFICATE OF ANALYSIS BR07022253

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA25	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01
R00201		2.29	<0.01	<0.5	2.35	7	70	1.0	<2	0.01	<0.5	70	4	170	13	8.48
R00202		1.63	0.64	<0.5	0.60	7	40	<0.5	<2	0.01	<0.5	<50	<1	7	3	1.92
R00203		2.15	<0.01	<0.5	1.49	<5	80	0.5	<2	<0.01	<0.5	<50	1	274	11	2.49
R00204		3.10	0.01	<0.5	0.71	<5	20	<0.5	<2	<0.01	<0.5	<50	<1	75	3	1.04
R00205		2.04	<0.01	<0.5	1.24	<5	40	<0.5	<2	0.01	<0.5	<50	<1	62	2	2.86
R00206		2.84	<0.01	<0.5	1.18	5	90	<0.5	<2	<0.01	<0.5	<50	1	11	1	2.83
R00207		1.94	<0.01	<0.5	0.45	<5	20	<0.5	<2	<0.01	<0.5	<50	<1	4	2	1.10
R00208		2.54	<0.01	<0.5	1.14	15	40	<0.5	5	<0.01	<0.5	<50	<1	29	3	3.39
R00209		2.50	<0.01	<0.5	0.72	<5	30	<0.5	<2	<0.01	<0.5	<50	1	27	3	2.23
R00211		2.01	<0.01	<0.5	0.99	<5	10	<0.5	<2	<0.01	<0.5	<50	<1	6	2	0.74
R00212		2.42	<0.01	<0.5	1.28	<5	10	<0.5	<2	<0.01	<0.5	<50	<1	6	1	1.19
R00213		2.63	<0.01	<0.5	0.92	<5	<10	<0.5	<2	<0.01	<0.5	<50	<1	7	1	1.53
R00214		1.68	<0.01	<0.5	1.34	<5	80	<0.5	<2	<0.01	<0.5	<50	1	9	5	0.85
R00215		1.68	<0.01	<0.5	1.30	<5	100	<0.5	<2	<0.01	<0.5	<50	1	9	2	0.95



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## CERTIFICATE OF ANALYSIS BR07022253

Sample Description	Method Analyte Units LOR	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	U
		% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 10
R00201		1.02	20	0.15	63	<1	0.01	19	640	9	<0.01	<5	19	0.17	<10
R00202		0.32	<10	0.03	111	<1	0.01	3	20	9	<0.01	<5	3	0.03	<10
R00203		0.80	10	0.10	82	<1	0.01	6	110	5	<0.01	<5	6	0.11	<10
R00204		0.26	10	0.01	83	<1	0.01	2	60	4	<0.01	<5	8	0.04	<10
R00205		0.55	10	0.02	77	<1	0.01	4	40	4	<0.01	<5	10	0.06	<10
R00206		0.61	<10	0.06	83	<1	0.01	4	20	3	<0.01	<5	5	0.05	<10
R00207		0.21	<10	0.01	81	<1	0.01	1	10	2	<0.01	<5	2	0.02	<10
R00208		0.51	10	0.02	69	<1	0.02	4	190	31	<0.01	<5	244	0.06	<10
R00209		0.33	<10	0.01	74	<1	0.01	2	20	3	<0.01	<5	4	0.03	<10
R00211		0.44	10	0.01	74	<1	0.01	1	30	2	<0.01	<5	6	0.02	<10
R00212		0.27	10	0.01	69	<1	0.01	2	60	2	<0.01	<5	46	0.03	<10
R00213		0.07	10	<0.01	101	<1	<0.01	2	30	5	<0.01	<5	28	0.02	<10
R00214		0.65	10	0.09	77	<1	0.01	4	20	5	<0.01	<5	6	0.06	<10
R00215		0.75	10	0.10	71	<1	0.01	4	20	5	<0.01	<5	4	0.05	<10



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Account: PANRES

Project: NITAS

## CERTIFICATE OF ANALYSIS BR07022253

Sample Description	Method	ME-ICP61s	ME-ICP61s
	Analyte	W	Zn
	Units	ppm	ppm
	LOR	10	2
R00201		<10	10
R00202		<10	2
R00203		<10	23
R00204		<10	2
R00205		<10	3
R00206		<10	2
R00207		<10	<2
R00208		<10	<2
R00209		<10	<2
R00211		<10	<2
R00212		<10	<2
R00213		<10	<2
R00214		<10	3
R00215		<10	4

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Finalized Date: 4-APR-2007

This copy reported on: 20-APR-2007

Account: PANRES

**CERTIFICATE PH07028072**

Project: NITAS,

P.O. No.: PRS3

This report is for 12 Stream Sediment samples submitted to our lab in Perth, WA, Australia on 21-MAR-2007.

The following have access to data associated with this certificate:

DARYL NUNN

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
LOG-22	Sample login - Red w/o BarCode
LEV-01	Waste Disposal Levy

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-CN11	BLEG on 500g - bottle roll	ICP-MS

To: PANGEAN RESOURCES  
ATTN: DARYL NUNN  
90 GREGORY STREET  
AUCHENFLOWER QLD 4066

**Signature:**

Wayne Abbott, Operations Manager, Western Australia





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Finalized Date: 4-APR-2007

Account: PANRES

Project: NITAS

## CERTIFICATE OF ANALYSIS PH07028072

Sample Description	Method	Au-CN11
	Analyte	Au
	Units	ppm
	LOR	0.001
S101		0.001
S102		0.001



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Finalized Date: 29-MAR-2007  
This copy reported on: 30-MAR-2007  
Account: PANRES

## CERTIFICATE BR07022251

Project: NITAS

P.O. No.: SSF PRS1

This report is for 12 Stream Sediment samples submitted to our lab in Brisbane, QLD, Australia on 7-MAR-2007.

The following have access to data associated with this certificate:

DARYL NUNN

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
BAG-01	Bulk Master for Storage
TRA-21	Transfer sample
LEV-01	Waste Disposal Levy
SCR-42	Screen to -180 um, discard plus

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP61s	Up to 27 Element 4 Acid ICPAES	ICP-AES

To: PANGEAN RESOURCES  
ATTN: DARYL NUNN  
90 GREGORY STREET  
AUCHENFLOWER QLD 4066

**Signature:**

Shaun Kenny, Brisbane Laboratory Manager

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**CERTIFICATE OF ANALYSIS BR07022251**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s
		Recvd Wt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01
S00126		1.45	0.010	<0.5	0.50	<5	40	<0.5	<2	0.01	<0.5	<50	1	28	6	0.95
S00127		1.41	0.013	<0.5	0.43	<5	20	<0.5	<2	0.01	<0.5	<50	9	5370	11	1.16





**CERTIFICATE OF ANALYSIS BR07022251**

Sample Description	Method Analyte Units LOR	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s	ME-ICP61s
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	U
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	0.01	10
S00126		0.23	<10	0.04	88	<1	0.02	4	30	9	<0.01	<5	10	0.04	<10
S00127		0.15	10	0.09	151	<1	0.01	11	20	8	<0.01	<5	10	0.06	<10



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## CERTIFICATE OF ANALYSIS BR07022251

Sample Description	Method Analyte Units LOR	ME-ICP61s	ME-ICP61s
		W	Zn
		ppm	ppm
S00126		<10	4
S00127		<10	143