



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Australian Laboratory Services Pty Ltd

32 Shand Street

Stafford

Brisbane QLD 4053

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

QC CERTIFICATE TV07092993

Project: Westwood

P.O. No.: WW-als-001

This report is for 8 Rock samples submitted to our lab in Townsville, QLD, Australia on 24-AUG-2007.

The following have access to data associated with this certificate:

JULI HUGENHOLTZ

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-23	Pulv Sample - Split/Retain
CRU-21	Crush entire sample >70% -6 mm

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA21	Au 30g FA Ext-AA finish	AAS
ME-ICP61s	Up to 27 Element 4 Acid ICPAES	ICP-AES
ME-MS62s	Up to 54 elements by ICP-MS	ICP-MS

To: **ACTIVEX LIMITED**
ATTN: JULI HUGENHOLTZ
PO BOX 217
PADDINGTON
BRISBANE QLD 4064

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:

John Alexandrou, North Queensland Manager



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Method Analyte Units	Au-AA21	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	ME-ICP61s
Sample Description	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	
LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	
	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01	0.01	
STANDARDS																
BL-4		0.7	7.16	8	330	73.7	<2	2.44	<0.5	60	19	86	65	4.67	0.56	
Target Range - Lower Bound		<0.5	6.51	<5	290	65.4	<2	2.16	<0.5	<50	18	76	57	4.19	0.52	
Upper Bound		1.0	7.97	10	370	81.0	4	2.66	1.0	100	24	95	71	5.15	0.66	
GBM999-5		60.6	4.83	<5	180	1.2	<2	0.10	<0.5	<50	3	5	480	3.07	3.48	
Target Range - Lower Bound		53.0	4.26	<5	150	0.7	<2	0.08	<0.5		2	4	428	2.67	3.10	
Upper Bound		65.8	5.22	10	210	1.9	4	0.12	1.0		4	8	526	3.29	3.81	
GEOMS-03		0.8	5.15	642	2430	1.4	<2	0.39	<0.5	50	10	114	132	4.05	1.06	
Target Range - Lower Bound		<0.5	4.61	565	2180	0.8	<2	0.35	<0.5	<50	10	101	120	3.64	1.03	
Upper Bound		1.0	5.65	701	2690	2.1	4	0.45	1.0	100	14	125	148	4.48	1.29	
ST-195	0.027															
Target Range - Lower Bound	0.026															
Upper Bound	0.032															
ST-344	0.094															
Target Range - Lower Bound	0.091															
Upper Bound	0.107															
BLANKS																
BLANK	<0.001															
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<50	<1	<1	<1	<0.01	<0.01	
Target Range - Lower Bound	<0.001	<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<50	<1	<1	<1	<0.01	<0.01	
Upper Bound	0.002	1.0	0.02	10	20	1.0	4	0.02	1.0	100	2	2	2	0.02	0.02	
DUPLICATES																
RC7725		<0.5	8.47	<5	230	1.3	<2	0.01	<0.5	50	1	32	3	0.35	0.17	
DUP		<0.5	8.71	<5	240	1.4	<2	0.01	<0.5	50	1	34	3	0.37	0.18	
Target Range - Lower Bound		<0.5	8.14	<5	200	<0.5	<2	<0.01	<0.5	<50	<1	29	<1	0.32	0.15	
Upper Bound		1.0	9.04	10	270	2.4	4	0.02	1.0	100	2	37	5	0.40	0.20	
ORIGINAL		2.5	6.39	110	250	3.7	2	0.29	5.8	80	21	50	52	3.46	3.02	
DUP		2.4	6.42	110	260	3.7	2	0.30	7.1	80	20	51	55	3.46	3.05	
Target Range - Lower Bound		1.3	6.06	95	220	2.5	<2	0.26	5.1	<50	17	46	49	3.27	2.86	
Upper Bound		3.6	6.75	126	290	4.9	4	0.33	7.8	100	24	55	58	3.65	3.21	



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Method Analyte Units	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	ME-ICP61s	
Sample Description	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	
LOR	10	0.01	5	1	0.01	1	10	2	0.01	5	1	0.01	10	1	10	
STANDARDS																
BL-4	30	1.21	519	36	3.96	165	640	485	0.18	<5	193	0.33	1570	637	<10	
Target Range - Lower Bound	20	1.12	470	35	3.56	160	550	442	0.15	<5	171	0.29	1550	599	<10	
Upper Bound	40	1.39	586	45	4.38	198	690	544	0.21	10	211	0.37	1910	735	20	
GBM999-5	10	0.05	68	3	0.94	3	60	557	0.31	8	21	0.02	<10	7	<10	
Target Range - Lower Bound		0.03	54	3	0.85	3	40	486	0.26	<5	16	<0.01		5	<10	
Upper Bound		0.05	78	6	1.07	6	70	598	0.34	10	22	0.03		9	20	
GEOMS-03	30	0.49	534	3	0.08	50	1130	7	0.03	23	175	0.47	10	111	20	
Target Range - Lower Bound	20	0.48	483	2	0.06	47	1000	4	0.03	12	153	0.40	<10	107	<10	
Upper Bound	40	0.60	601	5	0.10	60	1240	9	0.05	26	190	0.52	20	133	30	
ST-195																
Target Range - Lower Bound																
Upper Bound																
ST-344																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK	<10	0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	1	<0.01	<10	<1	<10	
Target Range - Lower Bound	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<0.01	<10	<1	<10	
Upper Bound	20	0.02	10	2	0.02	2	20	4	0.02	10	2	0.02	20	2	20	
DUPLICATES																
RC7725	20	0.03	25	<1	0.02	<1	290	21	<0.01	5	84	0.42	<10	103	<10	
DUP	20	0.03	27	<1	0.02	1	300	22	0.01	<5	88	0.45	10	107	<10	
Target Range - Lower Bound	<10	<0.01	15	<1	<0.01	<1	260	16	<0.01	<5	80	0.39	<10	98	<10	
Upper Bound	40	0.05	37	2	0.04	2	330	27	0.02	10	92	0.48	20	112	20	
ORIGINAL	40	0.63	206	14	0.04	47	1320	388	2.51	21	44	0.32	20	120	<10	
DUP	40	0.64	214	14	0.04	47	1350	361	2.54	20	44	0.32	20	122	<10	
Target Range - Lower Bound	20	0.58	190	11	0.02	43	1250	352	2.38	9	40	0.28	<10	113	<10	
Upper Bound	60	0.69	231	17	0.06	51	1420	397	2.67	32	48	0.36	40	129	20	



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Method	ME-ICP61s	ME-MS62s	ME-MS62s	ME-MS62s	ME-MS62s
Sample Description	Zn	Se	Te	Th	U
Method Analyte	ppm	ppm	ppm	ppm	ppm
Units					
LOR	2	0.5	0.05	0.2	0.1
STANDARDS					
BL-4	82	4.2	0.11	13.7	>500
Target Range - Lower Bound	69			12.4	1555
Upper Bound	89			15.6	>500
GBM999-5	121	1.4	0.34	5.5	2.1
Target Range - Lower Bound	102	1.3		4.4	1.8
Upper Bound	129	2.7		5.8	2.4
GEOMS-03	48	3.0	0.14	7.0	3.6
Target Range - Lower Bound	40	2.2	0.07	6.2	3.1
Upper Bound	54	3.8	0.19	8.0	4.0
ST-195					
Target Range - Lower Bound					
Upper Bound					
ST-344					
Target Range - Lower Bound					
Upper Bound					
BLANKS					
BLANK	<2	<0.5	<0.05	<0.2	<0.1
BLANK	<2	<0.5	<0.05	<0.2	<0.1
Target Range - Lower Bound	<2	<0.5	<0.05	<0.2	<0.1
Upper Bound	4	1.0	0.10	0.4	0.2
DUPLICATES					
RC7725	3	0.8	<0.05	9.3	1.6
DUP	3	0.8	<0.05	9.6	1.6
Target Range - Lower Bound	<2	<0.5	<0.05	8.6	1.3
Upper Bound	4	1.0	0.10	10.3	1.9
ORIGINAL	2480	3.0	0.38	17.4	15.5
DUP	2730	3.1	0.40	18.4	16.4
Target Range - Lower Bound	2470	1.9	0.27	16.6	15.0
Upper Bound	2740	4.2	0.51	19.2	16.9



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Method	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	ME-ICP61s	ME-ICP61s
Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	U	V	W	
Units	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
Sample Description	10	0.01	5	1	0.01	1	10	2	0.01	5	1	0.01	10	1	10	
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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Method	ME-ICP61s	ME-MS62s	ME-MS62s	ME-MS62s	ME-MS62s
Analyte	Zn	Se	Te	Th	U
Units	ppm	ppm	ppm	ppm	ppm
Sample Description	2	0.5	0.05	0.2	0.1
Method	LOR				
ORIGINAL	DUPLICATES				
DUP					
Target Range - Lower Bound					
Upper Bound					
ORIGINAL					
DUP					
Target Range - Lower Bound					
Upper Bound					
ORIGINAL					
DUP					
Target Range - Lower Bound					
Upper Bound					