



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Australian Laboratory Services Pty. Ltd.

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Page: 1
Finalized Date: 25-MAY-2010
Account: WEDES

QC CERTIFICATE PH10063982

Project: SPRING HILL

P.O. No.:

This report is for 21 Soil samples submitted to our lab in Perth, WA, Australia on 19-MAY-2010.

The following have access to data associated with this certificate:

GRAHAM BUBNER

JOHN FABRAY

BRETT SANDO

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

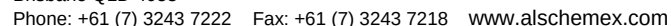
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS23	IONIC Leach - Complete PKG.	ICP-MS
pH-MS23	MS23 Leach pH	

To: **WESTERN DESERT RESOURCES**
ATTN: BRETT SANDO
LEVEL 1, 26 GREENHILL ROAD
WAYVILLE SA 5034

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



Account: WESDES

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Ag	As	Au	Ba	Be	Bi	Br	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy
	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOR	0.1	2	0.02	10	0.2	3	0.05	0.2	1	0.1	0.3	1	0.1	1	0.1
		STANDARDS														
ION-SRM18		18.2	7	8.26	190	0.2	<3	1.45	164.5	69	15.9	66.6	5	7.8	806	1.3
ION-SRM18		15.8	7	7.00	150	<0.2	<3	1.35	142.5	59	14.8	55.4	3	7.0	702	1.3
Target Range - Lower Bound		15.7	5	6.83	180	<0.2	<3	1.23	139.5	58	13.6	54.6	4	6.6	693	1.1
Upper Bound		19.4	11	8.39	240	0.4	6	1.61	171.0	73	16.8	67.3	7	8.2	849	1.5
		BLANKS														
BLANK		<0.1	<2	0.02	20	<0.2	<3	<0.05	0.2	<1	<0.1	<0.3	1	<0.1	<1	<0.1
Target Range - Lower Bound		<0.1	<2	<0.02	<10	<0.2	<3	<0.05	<0.2	<1	<0.1	<0.3	<1	<0.1	<1	<0.1
Upper Bound		0.2	4	0.04	20	0.4	6	0.10	0.4	2	0.2	0.6	2	0.2	2	0.2
		DUPLICATES														
S7851		3.8	10	0.19	2030	25.0	<3	0.10	90.8	14	1575	197.5	10	5.3	1250	119.0
DUP		3.6	10	0.17	1890	25.4	<3	0.10	79.9	15	1460	241	8	5.1	1220	116.0
Target Range - Lower Bound		3.4	8	0.15	1850	23.7	<3	<0.05	80.9	13	1440	208	8	4.8	1170	111.5
Upper Bound		4.0	13	0.21	2070	26.7	6	0.16	89.8	16	1595	231	10	5.6	1300	123.5
S7861		3.3	11	0.14	1030	6.4	<3	0.10	140.5	7	895	243	5	2.8	479	62.1
DUP		4.1	14	0.17	820	7.4	<3	0.10	127.5	7	891	241	7	3.5	679	66.8
Target Range - Lower Bound		3.4	10	0.13	870	6.4	<3	<0.05	127.0	6	848	230	5	2.9	549	61.1
Upper Bound		4.0	15	0.18	980	7.4	6	0.16	141.0	8	938	254	7	3.4	609	67.8



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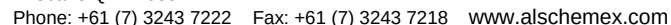
Finalized Date: 25-MAY-2010

Account: WESEDES

Project: SPRING HILL

QC CERTIFICATE OF ANALYSIS PH10063982

Method Analyte Units Sample Description	ME-MS23 Er ppb 0.1	ME-MS23 Eu ppb 0.1	ME-MS23 Fe ppm 0.1	ME-MS23 Ga ppb 0.5	ME-MS23 Gd ppb 0.1	ME-MS23 Ge ppb 0.1	ME-MS23 Hf ppb 0.5	ME-MS23 Hg ppb 0.1	ME-MS23 Ho ppb 0.1	ME-MS23 I ppm 0.01	ME-MS23 In ppb 0.1	ME-MS23 La ppb 0.1	ME-MS23 Li ppb 0.2	ME-MS23 Lu ppb 0.1	ME-MS23 Mg ppm 0.01
STANDARDS															
ION-SRM18	0.8	1.0	2.6	5.0	3.1	0.1	<0.5	4.1	0.4	0.16	<0.1	5.2	0.2	0.1	77.0
ION-SRM18	0.8	0.9	1.9	3.4	3.0	0.1	<0.5	4.0	0.4	0.13	<0.1	4.9	<0.2	0.1	70.1
Target Range - Lower Bound	0.5	0.6	2.0	4.6	2.5	<0.1	<0.5	3.7	<0.1	0.13	<0.1	4.4	<0.2	<0.1	66.4
Upper Bound	0.9	1.0	2.7	6.7	3.3	0.2	1.0	4.8	0.3	0.18	0.2	5.6	0.4	0.2	81.2
BLANKS															
BLANK	<0.1	<0.1	<0.1	0.8	<0.1	0.1	<0.5	<0.1	<0.1	<0.01	<0.1	<0.1	0.2	<0.1	<0.01
Target Range - Lower Bound	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.5	<0.1	<0.1	<0.01		<0.1	<0.2	<0.1	<0.01
Upper Bound	0.2	0.2	0.2	1.0	0.2	0.2	1.0	0.2	0.2	0.02		0.2	0.4	0.2	0.02
DUPLICATES															
S7851	111.5	40.9	41.2	65.9	231	4.2	4.8	<0.1	41.2	0.09	0.1	487	1.9	12.0	74.6
DUP	113.5	36.3	40.2	54.8	205	3.6	4.8	<0.1	40.9	0.08	0.1	409	1.7	12.0	73.7
Target Range - Lower Bound	107.0	36.6	38.6	56.8	207	3.6	4.1	<0.1	38.9	0.07	<0.1	426	1.5	11.3	70.4
Upper Bound	118.0	40.6	42.8	63.9	229	4.2	5.5	0.2	43.2	0.10	0.2	471	2.1	12.7	77.9
S7861	55.4	21.3	8.5	29.4	122.0	2.2	2.7	<0.1	20.5	0.08	<0.1	347	1.1	5.3	81.4
DUP	59.9	22.8	11.4	25.5	137.0	2.4	3.5	<0.1	22.8	0.09	<0.1	345	1.9	5.9	62.9
Target Range - Lower Bound	54.7	20.8	9.4	25.6	123.0	2.1	2.4	<0.1	20.5	0.07	<0.1	329	1.2	5.2	68.5
Upper Bound	60.6	23.3	10.5	29.3	136.0	2.5	3.8	0.2	22.8	0.10	0.2	363	1.8	6.0	75.8



Project: SPRING HILL

Sample Description	Method	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23	ME-MS23
	Analyte	Mn	Mo	Nb	Nd	Ni	Pb	Pb 206	Pb 207	Pb 208	Pd	Pr	Rb	Re	Sb	Sc
	Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	LOR	0.01	0.5	0.1	0.1	1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.5
		STANDARDS														
ION-SRM18		0.50	32.2	0.1	12.9	579	92	22	23	47	12.6	2.2	178.0	<0.1	<0.5	1
ION-SRM18		0.43	26.4	0.1	12.6	483	83	19	20	45	11.0	2.0	162.0	<0.1	<0.5	1
Target Range - Lower Bound		0.41	26.3	<0.1	11.4	495	77	17	17		10.6	1.7	156.5	<0.1	<0.5	2
Upper Bound		0.53	33.3	0.2	14.2	607	97	23	23		13.2	2.3	191.5	0.2	1.0	4
		BLANKS														
BLANK		<0.01	<0.5	0.1	<0.1	1	<1	<1	1	1	<0.1	<0.1	0.1	<0.1	<0.5	<1
Target Range - Lower Bound		<0.01	<0.5	<0.1	<0.1	<1	<1	<1	<1		<0.1	<0.1	<0.1	<0.1	<0.5	<1
Upper Bound		0.02	1.0	0.2	0.2	2	2	2	2		0.2	0.2	0.2	0.2	1.0	2
		DUPLICATES														
S7851		19.05	3.2	0.4	960	929	1650	395	372	867	6.4	187.0	368	<0.1	<0.5	69
DUP		17.75	4.1	0.3	870	906	1660	398	373	872	5.9	162.5	362	<0.1	<0.5	58
Target Range - Lower Bound		17.45	3.0	0.2	869	871	1570	376	353	825	5.7	166.0	347	<0.1	<0.5	59
Upper Bound		19.35	4.3	0.5	961	964	1740	417	392	914	6.6	183.5	383	0.2	1.0	68
S7861		27.9	2.9	0.2	587	385	546	130	132	279	2.9	111.0	499	<0.1	<0.5	26
DUP		26.4	4.8	0.4	629	402	637	149	145	337	3.5	113.0	508	<0.1	<0.5	33
Target Range - Lower Bound		25.8	3.2	0.2	578	373	561	132	131	292	2.9	106.5	478	<0.1	<0.5	27
Upper Bound		28.5	4.5	0.4	639	414	622	147	146	324	3.5	117.5	529	0.2	1.0	32



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Sample Description	Method Analyte Units LOR	ME-MS23 Se ppb 2	ME-MS23 Sm ppb 0.1	ME-MS23 Sn ppb 0.2	ME-MS23 Sr ppb 1	ME-MS23 Ta ppb 1	ME-MS23 Tb ppb 0.1	ME-MS23 Te ppb 1	ME-MS23 Th ppb 0.02	ME-MS23 Ti ppb 5	ME-MS23 Tl ppb 0.5	ME-MS23 Tm ppb 0.1	ME-MS23 U ppb 0.1	ME-MS23 W ppb 1	ME-MS23 Y ppb 0.1	ME-MS23 Yb ppb 0.1
STANDARDS																
ION-SRM18		16	3.2	<0.2	1140	<1	0.5	<1	3.73	23	<0.5	0.1	10.4	<1	9.8	0.4
ION-SRM18		14	3.2	<0.2	1020	<1	0.5	<1	3.31	15	<0.5	0.1	9.2	<1	9.4	0.5
Target Range - Lower Bound		13	2.5	<0.2	1010	<1	0.3	<1	3.11	24	<0.5	<0.1	8.7	<1	8.1	0.2
Upper Bound		21	3.3	0.4	1235	2	0.5	2	3.85	41	1.0	0.2	10.8	2	10.1	0.4
BLANKS																
BLANK		<2	<0.1	<0.2	1	<1	<0.1	1	<0.02	<5	<0.5	<0.1	<0.1	<1	<0.1	<0.1
Target Range - Lower Bound		<2	<0.1	<0.2	<1	<1	<0.1	<1	<0.02	<5	<0.5	<0.1	<0.1	<1	<0.1	<0.1
Upper Bound		4	0.2	0.4	2	2	0.2	2	0.04	10	1.0	0.2	0.2	2	0.2	0.2
DUPLICATES																
S7851		24	232	0.4	408	<1	40.9	<1	167.5	96	0.5	13.4	103.0	1	729	80.1
DUP		25	206	0.4	398	<1	38.1	<1	144.0	87	<0.5	13.9	95.2	1	722	81.4
Target Range - Lower Bound		21	208	<0.2	382	<1	37.4	<1	148.0	82	<0.5	12.9	94.0	<1	689	76.6
Upper Bound		28	230	0.6	424	2	41.6	2	163.5	101	1.0	14.4	104.0	2	762	84.9
S7861		13	124.0	<0.2	492	<1	21.6	<1	86.4	60	<0.5	6.6	91.1	1	329	36.6
DUP		15	135.5	0.4	369	<1	23.0	<1	110.0	109	<0.5	7.3	104.5	1	368	41.9
Target Range - Lower Bound		11	123.0	<0.2	408	<1	21.1	<1	93.3	75	<0.5	6.5	92.8	<1	331	37.2
Upper Bound		17	136.5	0.4	453	2	23.5	2	103.0	94	1.0	7.4	103.0	2	366	41.3



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Sample Description	Method Analyte Units LOR	ME-MS23 Zn ppb 10	ME-MS23 Zr ppb 0.1	pH-MS23 Final pH Unity 0.1
STANDARDS				
ION-SRM18		650	5.5	9.0
ION-SRM18		530	4.3	9.0
Target Range - Lower Bound		530	4.3	
Upper Bound		670	5.5	
BLANKS				
BLANK		<10	<0.1	9.0
Target Range - Lower Bound		<10	<0.1	8.8
Upper Bound		20	0.2	9.2
DUPLICATES				
S7851		700	57.3	9.0
DUP		610	56.8	9.0
Target Range - Lower Bound		610	54.1	8.5
Upper Bound		700	60.0	9.6
S7861		30	27.3	9.0
DUP		20	35.0	9.0
Target Range - Lower Bound		<10	29.5	8.5
Upper Bound		40	32.8	9.6