



# 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

Page: 1  
Finalized Date: 5-OCT-2008  
This copy reported on 8-OCT-2008  
Account: ADERES

## CERTIFICATE AD08120641

Project:

P.O. No.: 0405

This report is for 295 Drill Core samples submitted to our lab in Adelaide, SA, Australia on 27-AUG-2008.

The following have access to data associated with this certificate:

BARBARA ANDERSON  
B ANDERSON  
CHRIS DROWN

B ANDERSON  
BARBARA ANDERSON

BARBARA ANDERSON  
B ANDERSON

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	VARIABLE
Au-AA25	Ore Grade Au 30g FA AA finish	AAS

To: **ADELAIDE RESOURCES NL**  
**ATTN: BARBARA ANDERSON**  
**PO BOX 1210**  
**UNLEY BC SA 5061**

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.

Comments: Reports reissued to include Co instead of Ca per client request.

Signature:

Wayne Abbott, Operations Manager, Western Australia



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## CERTIFICATE OF ANALYSIS AD08120641

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-AA25 Au ppm	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Bi ppm	ME-ICP61 Co ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 U ppm	ME-ICP61 Zn ppm	Cu-OG62 Cu %
		0.02	0.01	0.01	0.5	5	2	1	1	0.01	2	0.01	10	2	0.001
R3907		1.34		<0.01	<0.5	7	<2	52	54	14.25	3	0.08	<10	139	
R3908		1.10		0.06	<0.5	54	9	60	33	15.35	7	1.32	<10	140	
R3909		1.28		0.02	<0.5	50	3	53	46	13.65	5	0.42	<10	128	
R3910		1.38		<0.01	<0.5	<5	<2	34	577	10.40	2	0.09	<10	98	
R3911		1.26	95.0	0.03	<0.5	5	3	32	2570	8.93	4	0.37	<10	84	
R3912		1.17		<0.01	<0.5	7	2	49	133	12.05	2	0.06	<10	116	
R3913		1.23		<0.01	<0.5	<5	2	56	66	13.80	3	0.01	<10	131	
R3914		1.35		<0.01	<0.5	<5	<2	55	179	13.45	3	0.03	<10	128	
R3915		1.34		<0.01	<0.5	<5	<2	55	33	13.85	5	0.02	<10	132	
R3916		1.32		0.01	<0.5	<5	3	49	316	12.20	2	0.07	<10	116	
R3917		1.25		<0.01	<0.5	<5	<2	51	39	12.85	<2	0.02	<10	127	
R3918		1.18		0.01	<0.5	<5	<2	50	102	13.35	<2	0.02	<10	141	
R3919		1.38		0.01	<0.5	<5	<2	49	534	13.00	3	0.07	10	128	
R3920		0.10		0.85	2.1	5	2	12	7140	5.12	14	0.80	<10	72	
R3921		1.18		<0.01	<0.5	<5	<2	47	178	12.15	3	0.03	<10	123	
R3922		1.30		0.08	<0.5	<5	<2	45	300	11.95	<2	0.04	<10	120	
R3923		1.34		<0.01	<0.5	<5	<2	44	361	11.75	3	0.05	<10	124	
R3924		1.40		<0.01	<0.5	<5	3	43	430	11.95	3	0.05	<10	129	
R3925		1.28		<0.01	<0.5	<5	5	41	135	10.65	<2	0.03	<10	122	
R3926		1.31		0.56	<0.5	<5	9	39	1280	10.50	5	0.17	<10	116	
R3927		1.43		0.04	<0.5	<5	20	38	228	10.15	7	0.04	<10	111	
R3928		1.42		0.01	<0.5	<5	2	35	128	10.45	4	0.04	<10	116	
R3929		1.37		0.05	<0.5	<5	5	40	1030	11.35	<2	0.13	<10	121	
R3930		1.35		0.01	<0.5	<5	3	42	602	11.05	<2	0.13	<10	111	
R3931		1.33		<0.01	<0.5	<5	2	29	766	8.48	3	0.09	<10	90	
R3932		1.33		0.01	<0.5	<5	3	35	1280	9.66	<2	0.19	<10	105	
R3933		1.28		<0.01	<0.5	<5	3	30	85	8.52	<2	0.02	<10	101	
R3934		1.47		<0.01	<0.5	<5	22	36	1270	10.10	6	0.16	<10	126	
R3935		1.29		<0.01	<0.5	<5	<2	31	157	8.76	<2	0.04	<10	109	
R3936		1.20		0.01	<0.5	<5	2	35	887	9.95	<2	0.10	<10	122	
R3937		1.22		0.04	<0.5	<5	4	41	4100	11.55	3	0.43	<10	143	
R3938		1.34		<0.01	<0.5	<5	<2	43	1190	10.65	3	0.15	<10	127	
R3939		1.27		<0.01	<0.5	<5	3	50	1110	12.35	2	0.12	<10	152	
R3940		0.10		0.62	1.6	7	4	10	5210	5.08	9	0.63	<10	58	
R3941		1.29		<0.01	<0.5	<5	<2	52	1370	12.30	<2	0.15	<10	142	
R3942		1.28		0.03	<0.5	5	2	48	1730	11.75	<2	0.22	<10	129	
R3943		1.24		<0.01	<0.5	<5	3	43	793	10.40	2	0.16	<10	118	
R3944		1.25		0.01	<0.5	6	2	45	1410	11.00	2	0.26	10	124	
R3945		1.20		<0.01	<0.5	<5	<2	11	62	5.18	<2	0.03	<10	152	
R3946		1.26		<0.01	<0.5	<5	<2	19	23	8.88	2	0.01	<10	250	

Comments: Reports reissued to include Co instead of Ca per client request.



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-AA25 Au ppm	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Bi ppm	ME-ICP61 Co ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 U ppm	ME-ICP61 Zn ppm	Cu-OG62 Cu %
		0.02	0.01	0.01	0.5	5	2	1	1	0.01	2	0.01	10	2	0.001
R3947		1.22		<0.01	<0.5	6	<2	24	32	11.70	4	0.03	<10	326	
R3948		1.38		<0.01	<0.5	<5	2	20	7	10.55	3	0.01	<10	262	
R3949		2.56		<0.01	<0.5	<5	2	8	6	3.52	12	0.01	<10	28	
R3950		2.55		<0.01	<0.5	<5	<2	9	9	3.24	7	0.02	<10	48	
R3951		2.56	93.0	<0.01	<0.5	<5	<2	5	4	2.90	5	0.04	<10	44	
R3952		2.53		<0.01	<0.5	<5	<2	4	2	3.50	3	0.05	<10	43	
R3953		2.57		<0.01	<0.5	<5	<2	8	3	4.10	3	0.03	<10	73	
R3954		2.40		<0.01	<0.5	<5	<2	11	2	5.45	<2	0.20	<10	88	
R3955		2.59		<0.01	0.5	7	<2	10	1	5.83	3	0.04	<10	111	
R3956		2.52		<0.01	<0.5	<5	<2	8	4	6.69	5	0.02	<10	120	
R3957		2.53		0.03	<0.5	<5	2	4	3	4.89	4	0.09	<10	81	
R3958		2.53		0.03	<0.5	5	<2	6	2	4.79	4	0.11	<10	78	
R3959		2.41		<0.01	<0.5	<5	2	6	3	6.06	3	0.11	<10	97	
R3960		0.09		0.82	2.5	6	5	12	7070	5.12	14	0.79	<10	72	
R3961		2.62		<0.01	<0.5	<5	3	3	5	6.46	3	0.01	<10	101	
R3962		2.55		0.01	<0.5	<5	3	5	4	6.08	2	0.10	<10	88	
R3963		2.62		<0.01	<0.5	<5	3	6	16	5.68	8	0.07	<10	91	
R3964		2.63		<0.01	<0.5	<5	2	5	4	3.33	3	0.23	<10	79	
R3965		2.59		<0.01	<0.5	<5	3	6	13	3.29	9	0.23	<10	96	
R3966		2.60		0.01	<0.5	<5	10	6	144	3.33	5	0.26	<10	85	
R3967		2.64		<0.01	<0.5	<5	<2	10	25	4.69	3	0.13	<10	109	
R3968		2.54		<0.01	<0.5	<5	<2	12	7	5.23	3	0.12	<10	130	
R3969		2.30		<0.01	<0.5	<5	<2	12	1	5.91	3	0.14	<10	142	
R3970		2.90		<0.01	<0.5	5	<2	11	1	6.69	7	0.20	<10	139	
R3971		2.49		<0.01	<0.5	8	<2	6	2	7.00	14	0.06	<10	114	
R3972		2.54		0.01	<0.5	5	<2	7	1	10.80	9	0.12	<10	198	
R3973		2.30		<0.01	<0.5	5	<2	6	2	10.85	3	0.03	<10	191	
R3974		2.84		<0.01	<0.5	14	2	10	13	12.60	7	0.10	<10	211	
R3975		2.71		<0.01	<0.5	41	5	29	199	13.40	22	0.68	10	209	
R3976		2.73		0.01	0.6	80	11	39	1090	7.28	59	1.76	<10	71	
R3977		2.74		0.02	<0.5	11	3	8	1130	7.17	28	0.44	<10	65	
R3978		2.96		<0.01	2.0	715	7	65	2720	19.70	123	8.92	10	222	
R3979		2.62		<0.01	<0.5	206	<2	18	289	6.28	105	0.85	<10	122	
R3980		0.09		0.83	2.2	8	4	13	7350	5.28	20	0.83	10	73	
R3981		2.49		<0.01	0.9	100	2	46	224	6.18	147	0.95	<10	119	
R3982		2.67		<0.01	1.6	597	4	103	902	10.50	940	5.07	<10	179	
R3983		2.63		0.01	1.0	218	2	50	518	7.17	138	1.67	10	112	
R3984		2.41		0.03	<0.5	39	2	18	1170	6.26	7	0.45	<10	95	
R3985		2.57		<0.01	<0.5	25	<2	15	152	5.08	4	0.16	<10	73	
R3986		2.50		<0.01	<0.5	6	<2	13	21	4.91	2	0.19	<10	66	

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		0.02	0.01	0.01	0.5	5	2	1	1	0.01	2	0.01	10	2	0.001
R3987		2.60		<0.01	<0.5	<5	<2	11	5	4.70	4	0.03	<10	56	
R3988		2.08		0.02	<0.5	7	3	13	10	5.06	2	0.13	<10	58	
R3989		2.52		<0.01	<0.5	15	<2	10	3	4.76	<2	0.03	<10	50	
R3990		2.56		<0.01	<0.5	7	<2	13	5	4.83	4	0.03	<10	48	
R3991		2.55	87.0	<0.01	<0.5	5	2	11	15	5.08	5	0.13	<10	51	
R3992		2.49		<0.01	<0.5	8	2	19	6	4.97	4	0.41	<10	51	
R3993		2.47		<0.01	<0.5	<5	<2	12	4	5.11	6	0.01	<10	54	
R3994		2.67		<0.01	<0.5	5	<2	14	1	5.49	4	0.01	<10	57	
R3995		2.40		<0.01	<0.5	9	<2	11	4	5.05	6	0.02	<10	53	
R3996		2.29		0.02	<0.5	5	<2	12	2	5.02	5	0.02	<10	52	
R3997		2.41		<0.01	<0.5	<5	<2	13	2	5.00	4	0.02	<10	59	
R3998		2.47		<0.01	<0.5	5	<2	12	<1	4.58	3	0.01	<10	65	
R3999		2.40		<0.01	<0.5	<5	<2	17	3	5.20	3	0.05	<10	66	
R4000		0.10		0.29	1.0	<5	<2	6	3350	3.65	24	0.38	<10	61	
R4001		2.57		<0.01	<0.5	<5	<2	15	3	5.27	4	<0.01	<10	72	
R4002		2.52		<0.01	<0.5	11	<2	18	31	4.90	5	0.14	<10	74	
R4003		2.49		<0.01	<0.5	<5	2	21	73	5.61	4	0.13	<10	81	
R4004		2.45		<0.01	<0.5	<5	3	14	17	4.45	4	0.01	<10	64	
R4005		2.48		<0.01	<0.5	5	<2	19	48	5.38	<2	0.14	<10	78	
R4006		2.36		<0.01	<0.5	<5	4	27	288	6.29	4	0.36	<10	96	
R4007		2.51		0.13	<0.5	<5	27	31	3870	8.25	2	0.50	<10	123	
R4008		2.61		0.02	<0.5	6	2	36	1680	9.06	3	0.30	<10	135	
R4009		2.57		0.01	<0.5	6	<2	33	992	8.26	4	0.26	<10	117	
R4010		2.55		<0.01	<0.5	<5	2	29	382	8.38	<2	0.04	<10	120	
R4011		2.54		<0.01	<0.5	<5	<2	38	2480	10.30	2	0.27	10	145	
R4012		2.59		0.01	<0.5	9	<2	38	1270	9.35	3	0.21	<10	138	
R4013		2.55		<0.01	<0.5	8	<2	35	756	8.49	6	0.24	<10	129	
R4014		2.49		<0.01	<0.5	<5	<2	34	1720	8.58	5	0.27	<10	135	
R4015		2.40		<0.01	<0.5	6	<2	24	77	6.65	7	0.07	<10	103	
R4016		2.59		0.01	<0.5	9	<2	30	104	7.98	5	0.13	<10	124	
R4017		2.46		0.03	<0.5	12	4	33	33	9.20	5	0.18	<10	140	
R4018		2.53		0.17	<0.5	11	81	41	1250	10.95	7	0.30	10	160	
R4019		2.60		0.03	<0.5	<5	<2	30	61	9.34	5	0.02	<10	144	
R4020		0.10		0.64	1.6	9	<2	12	5290	5.06	12	0.65	10	59	
R4021		2.56		0.03	<0.5	7	10	27	119	7.98	5	0.02	<10	124	
R4022		2.57		<0.01	0.5	<5	<2	23	51	6.79	3	0.01	<10	105	
R4023		2.56		0.02	<0.5	5	27	26	1230	8.20	5	0.15	<10	115	
R4024		2.70		0.30	<0.5	<5	40	27	337	8.46	7	0.05	<10	113	
R4025		2.54		0.22	<0.5	6	148	26	400	7.66	7	0.10	<10	104	
R4026		2.36		0.03	<0.5	5	<2	23	12	7.82	5	0.01	<10	95	

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		0.02	0.01	0.01	0.5	5	2	1	1	0.01	2	0.01	10	2	0.001
R4027		2.45		0.02	<0.5	5	19	26	42	8.11	6	0.01	<10	99	
R4028		2.42		<0.01	<0.5	<5	<2	23	5	7.84	5	0.01	<10	88	
R4029		2.54		<0.01	0.7	20	4	23	15	6.97	4	0.07	<10	86	
R4030		2.39		0.01	<0.5	<5	<2	38	44	9.89	6	0.02	10	122	
R4031		2.39	81.0	0.57	<0.5	12	550	26	3050	6.37	7	0.48	<10	79	
R4032		2.16		0.07	<0.5	<5	4	17	336	4.73	6	0.05	<10	59	
R4033		2.47		0.02	<0.5	<5	<2	14	99	3.92	3	0.02	<10	48	
R4034		2.55		<0.01	<0.5	6	3	23	52	6.08	6	0.02	10	70	
R4035		2.58		0.08	<0.5	6	<2	23	56	7.04	5	0.08	<10	81	
R4036		2.64		<0.01	<0.5	<5	<2	21	1310	6.83	6	0.17	<10	72	
R4037		2.66		<0.01	<0.5	9	<2	22	525	7.24	6	0.11	<10	71	
R4038		2.58		<0.01	<0.5	19	<2	23	29	6.19	7	0.58	<10	58	
R4039		2.58		0.02	<0.5	12	<2	20	7	5.73	11	0.68	<10	56	
R4040		0.10		0.83	2.1	10	3	12	7380	5.25	36	0.85	10	83	
R4041		2.67		<0.01	<0.5	76	3	26	45	7.16	12	1.31	<10	61	
R4042		2.18		0.02	<0.5	117	3	30	80	7.40	11	1.37	<10	59	
R4043		2.55		<0.01	<0.5	7	<2	19	10	6.75	6	0.06	<10	58	
R4044		2.70		<0.01	<0.5	6	<2	20	10	7.00	3	0.03	<10	60	
R4045		2.55		<0.01	<0.5	31	<2	26	308	6.40	5	0.57	<10	55	
R4046		2.75		0.01	<0.5	17	2	23	265	6.62	6	0.33	<10	54	
R4047		2.62		<0.01	<0.5	14	<2	24	140	6.43	6	0.32	<10	53	
R4048		2.51		<0.01	<0.5	11	<2	21	95	6.12	8	0.19	<10	51	
R4049		2.49		0.11	<0.5	<5	<2	18	34	5.26	5	0.07	<10	43	
R4050		2.51		<0.01	<0.5	5	<2	18	2	5.39	4	<0.01	<10	44	
R4051		2.60		<0.01	<0.5	7	<2	23	22	6.38	4	0.02	<10	50	
R4052		2.49		0.42	<0.5	15	22	30	2170	7.53	8	0.48	<10	52	
R4053		2.49		0.04	<0.5	8	<2	25	817	6.64	4	0.20	<10	47	
R4054		2.51		<0.01	<0.5	<5	<2	17	201	5.08	4	0.05	<10	37	
R4055		2.53		<0.01	<0.5	<5	<2	21	35	6.29	4	0.01	<10	48	
R4056		2.55		<0.01	<0.5	7	<2	22	104	6.65	3	0.03	<10	47	
R4057		2.38		0.02	<0.5	93	2	28	432	6.40	5	0.41	<10	45	
R4058		2.61		<0.01	<0.5	26	<2	21	163	6.02	4	0.13	<10	44	
R4059		2.56		<0.01	<0.5	<5	<2	19	9	6.22	5	0.03	<10	43	
R4060		0.09		0.31	0.9	5	<2	5	3340	3.57	26	0.38	<10	62	
R4061		2.57		<0.01	<0.5	9	<2	19	22	6.17	6	0.02	<10	41	
R4062		2.55		<0.01	<0.5	5	<2	17	3	5.81	3	0.01	<10	41	
R4063		2.62		<0.01	<0.5	<5	<2	15	2	6.11	7	<0.01	<10	37	
R4064		2.56		<0.01	<0.5	<5	<2	12	4	5.72	6	<0.01	<10	37	
R4065		2.55		0.04	<0.5	12	2	16	35	5.68	7	0.24	<10	45	
R4066		2.53		<0.01	<0.5	6	<2	20	15	6.11	6	0.03	<10	54	

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## CERTIFICATE OF ANALYSIS AD08120641

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-AA25 Au ppm	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Bi ppm	ME-ICP61 Co ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 U ppm	ME-ICP61 Zn ppm	Cu-OG62 Cu %
		0.02	0.01	0.01	0.5	5	2	1	1	0.01	2	0.01	10	2	0.001
R4067		2.53		<0.01	<0.5	6	3	21	150	6.37	9	0.16	<10	52	
R4068		2.51		<0.01	<0.5	5	<2	19	2	6.05	6	<0.01	<10	47	
R4069		2.47		<0.01	<0.5	<5	<2	18	3	5.87	6	<0.01	<10	47	
R4070		2.54		0.06	<0.5	6	<2	14	2	5.33	7	<0.01	<10	39	
R4071		2.55	87.0	<0.01	<0.5	5	<2	11	3	5.75	8	<0.01	<10	34	
R4072		2.55		<0.01	<0.5	<5	2	14	1	5.93	7	<0.01	<10	37	
R4073		2.52		<0.01	<0.5	5	<2	11	2	5.29	10	0.01	<10	34	
R4074		2.52		<0.01	<0.5	5	<2	14	2	5.80	7	<0.01	<10	39	
R4075		2.57		<0.01	<0.5	5	<2	12	1	4.97	7	<0.01	<10	31	
R4076		2.54		<0.01	<0.5	8	<2	13	3	5.20	7	<0.01	<10	36	
R4077		2.44		<0.01	<0.5	5	<2	14	8	5.60	6	<0.01	<10	42	
R4078		2.53		0.01	<0.5	<5	<2	13	10	5.64	5	<0.01	<10	44	
R4079		2.53		0.02	<0.5	<5	<2	13	21	5.80	10	<0.01	<10	46	
R4080		0.10		0.30	1.0	<5	<2	6	3340	3.65	28	0.39	<10	63	
R4081		2.50		<0.01	<0.5	6	<2	16	21	6.07	5	0.01	10	52	
R4082		2.51		<0.01	<0.5	6	<2	15	35	5.70	7	0.01	<10	52	
R4083		2.46		<0.01	<0.5	<5	<2	15	15	5.62	6	0.01	<10	52	
R4084		2.52		<0.01	<0.5	6	<2	13	3	5.61	7	<0.01	<10	49	
R4085		2.54		<0.01	<0.5	6	<2	13	42	5.77	6	0.01	<10	54	
R4086		2.55		<0.01	<0.5	<5	<2	17	3	5.35	5	0.02	<10	60	
R4087		2.49		0.02	<0.5	<5	<2	11	6	4.02	5	0.01	<10	46	
R4088		2.57		0.02	<0.5	<5	<2	21	39	7.55	5	0.01	<10	111	
R4089		2.51		0.02	<0.5	<5	<2	18	3	6.63	3	0.01	<10	93	
R4090		2.56		0.01	<0.5	<5	<2	17	64	5.84	4	0.01	<10	69	
R4091		2.52		<0.01	<0.5	<5	<2	19	2310	6.34	4	0.25	<10	66	
R4092		2.60		<0.01	<0.5	<5	<2	18	236	6.12	6	0.04	<10	58	
R4093		2.60		<0.01	<0.5	5	<2	16	1460	5.53	3	0.15	<10	50	
R4094		2.61		0.02	<0.5	6	16	19	4760	5.58	5	0.51	<10	51	
R4095		2.49		0.12	<0.5	8	21	17	2370	5.27	7	0.36	<10	45	
R4096		2.49		<0.01	<0.5	8	<2	16	69	5.56	6	0.01	<10	41	
R4097		2.55		<0.01	<0.5	7	<2	14	25	5.57	8	0.01	<10	35	
R4098		2.53		<0.01	<0.5	<5	<2	14	52	5.83	5	0.01	<10	39	
R4099		2.49		<0.01	<0.5	5	<2	13	6	5.49	5	<0.01	<10	37	
R4100		0.10		0.83	2.0	10	2	12	7060	5.01	19	0.81	<10	80	
R4101		2.51		<0.01	<0.5	<5	<2	17	11	6.00	4	<0.01	<10	50	
R4102		2.54		<0.01	<0.5	<5	<2	16	8	5.63	8	<0.01	<10	43	
R4103		2.59		<0.01	<0.5	6	9	15	75	5.88	16	0.01	<10	42	
R4104		2.57		0.06	<0.5	<5	<2	17	55	6.00	9	0.01	<10	45	
R4105		2.56		<0.01	<0.5	5	<2	15	11	5.75	5	<0.01	<10	41	
R4106		1.08		<0.01	<0.5	5	<2	15	5	5.35	5	<0.01	<10	38	

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## CERTIFICATE OF ANALYSIS AD08120641

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		0.02	0.01	0.01	0.5	5	2	1	1	0.01	2	0.01	10	2	0.001
R4107		2.53		<0.01	<0.5	<5	<2	20	444	6.27	6	0.05	<10	63	
R4108		2.58		0.05	<0.5	<5	<2	17	90	5.71	5	0.01	<10	56	
R4109		2.55		<0.01	<0.5	<5	<2	17	141	5.51	6	0.02	<10	57	
R4110		2.57		<0.01	<0.5	6	<2	19	271	6.04	4	0.04	<10	60	
R4111		2.46	94.0	<0.01	<0.5	5	6	14	9	5.31	10	0.01	<10	50	
R4112		2.44		<0.01	<0.5	<5	<2	14	4	5.65	7	0.01	<10	49	
R4113		2.42		<0.01	<0.5	<5	<2	12	27	4.60	4	0.02	<10	45	
R4114		2.47		<0.01	<0.5	<5	<2	16	53	5.86	7	0.02	<10	56	
R4115		2.18		<0.01	<0.5	<5	<2	14	6	5.66	6	0.01	<10	47	
R4116		1.12		<0.01	<0.5	<5	<2	42	90	10.70	6	0.04	<10	131	
R4117		1.25		0.06	<0.5	<5	4	34	594	7.98	7	0.08	<10	102	
R4118		1.28		0.08	<0.5	<5	7	34	2090	8.00	10	0.23	<10	102	
R4119		1.30		<0.01	<0.5	<5	5	33	332	7.89	6	0.04	<10	98	
R4120		0.10		0.30	1.0	<5	<2	7	3250	3.44	29	0.39	<10	64	
R4121		1.26		<0.01	<0.5	<5	<2	32	684	7.63	4	0.08	<10	93	
R4122		1.22		0.01	<0.5	<5	3	34	621	8.31	5	0.07	<10	99	
R4123		1.22		0.02	<0.5	<5	<2	37	195	9.65	6	0.03	<10	111	
R4124		1.27		0.15	<0.5	<5	6	38	2090	9.31	8	0.24	<10	103	
R4125		1.17		0.21	<0.5	<5	3	21	707	5.93	3	0.08	<10	64	
R4126		1.28		0.15	<0.5	<5	16	32	2620	8.51	8	0.32	<10	97	
R4127		1.19		0.05	<0.5	<5	63	25	1560	6.89	9	0.18	<10	75	
R4128		1.25		0.57	<0.5	<5	6	23	1960	6.52	6	0.25	<10	72	
R4129		1.20		4.57	1.0	6	115	30	>10000	9.17	15	1.75	<10	87	1.550
R4130		1.28		0.59	<0.5	<5	45	24	4360	6.36	12	0.51	<10	67	
R4131		1.18		0.78	<0.5	<5	5	22	1810	6.16	6	0.26	<10	67	
R4132		1.29		0.89	<0.5	<5	11	20	3430	6.11	7	0.42	<10	63	
R4133		1.23		0.91	<0.5	<5	3	23	3560	6.61	7	0.46	<10	70	
R4134		1.24		0.42	<0.5	<5	<2	29	576	7.49	4	0.06	<10	78	
R4135		1.22		0.14	<0.5	<5	<2	27	748	7.35	5	0.09	<10	80	
R4136		1.17		0.36	<0.5	<5	2	25	2860	6.87	5	0.33	<10	74	
R4137		1.23		0.03	<0.5	<5	<2	30	1440	7.48	3	0.16	<10	82	
R4138		1.27		0.01	<0.5	<5	<2	41	1210	9.46	5	0.14	<10	112	
R4139		1.15		0.04	<0.5	<5	<2	47	1620	10.30	4	0.18	<10	122	
R4140		0.10		0.30	1.0	<5	<2	7	3310	3.46	27	0.39	<10	66	
R4141		1.26		<0.01	<0.5	<5	<2	36	579	8.22	5	0.06	<10	102	
R4142		1.21		0.01	<0.5	<5	<2	41	1630	9.60	4	0.18	<10	116	
R4143		1.25		0.02	<0.5	<5	<2	36	782	8.27	5	0.09	<10	104	
R4144		1.21		0.02	<0.5	<5	<2	24	402	6.37	5	0.05	<10	76	
R4145		1.19		0.06	<0.5	<5	<2	24	2460	6.19	3	0.27	<10	76	
R4146		1.18		0.01	<0.5	<5	<2	27	419	6.71	3	0.05	<10	88	

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		0.02	0.01	0.01	0.5	5	2	1	1	0.01	2	0.01	10	2	0.001
R4147		1.21		0.01	<0.5	<5	<2	31	747	7.76	4	0.14	<10	99	
R4148		1.21		0.03	<0.5	<5	4	24	409	5.86	5	0.05	<10	76	
R4149		1.23		<0.01	<0.5	<5	<2	25	3420	6.43	5	0.40	<10	80	
R4150		1.26		0.04	<0.5	<5	<2	28	527	7.04	2	0.07	<10	87	
R4151		1.26	98.0	0.09	<0.5	<5	<2	31	927	7.93	5	0.11	<10	95	
R4152		1.33		0.05	<0.5	<5	<2	29	369	8.33	3	0.05	<10	96	
R4153		1.26		0.01	<0.5	<5	<2	32	663	8.88	2	0.07	<10	102	
R4154		1.32		0.04	<0.5	<5	<2	30	>10000	9.74	3	1.33	<10	97	1.345
R4155		1.29		0.08	<0.5	<5	<2	31	3640	9.03	3	0.40	<10	101	
R4156		1.24		<0.01	<0.5	<5	<2	28	717	7.93	2	0.08	<10	86	
R4157		1.30		0.02	<0.5	<5	<2	28	1740	7.80	4	0.19	<10	92	
R4158		1.31		<0.01	<0.5	<5	<2	40	796	11.40	6	0.09	<10	144	
R4159		1.35		0.01	0.6	<5	<2	38	222	10.50	5	0.03	<10	153	
R4160		0.09		0.59	1.8	<5	<2	12	5230	5.31	11	0.61	<10	101	
R4161		1.26		0.01	<0.5	<5	<2	30	412	8.74	4	0.05	<10	132	
R4162		1.15		0.01	<0.5	<5	<2	26	379	7.52	3	0.05	<10	106	
R4163		1.29		<0.01	<0.5	<5	<2	31	1080	8.56	3	0.12	<10	126	
R4164		1.24		0.03	<0.5	<5	<2	31	631	8.88	3	0.08	<10	133	
R4165		1.35		<0.01	<0.5	<5	<2	24	339	7.11	3	0.07	<10	107	
R4166		1.25		0.02	<0.5	<5	<2	23	653	6.95	3	0.07	<10	97	
R4167		1.30		0.01	<0.5	<5	<2	24	1660	6.88	2	0.18	<10	100	
R4168		1.21		0.05	<0.5	<5	<2	21	664	6.51	5	0.08	<10	92	
R4169		1.22		<0.01	<0.5	<5	<2	24	484	6.75	3	0.06	<10	88	
R4170		1.29		0.01	<0.5	<5	<2	16	519	5.27	3	0.06	<10	64	
R4171		1.29		0.01	<0.5	<5	<2	17	451	5.49	4	0.05	<10	70	
R4172		1.25		0.04	<0.5	<5	<2	17	1570	5.82	2	0.17	<10	76	
R4173		1.21		<0.01	<0.5	<5	<2	12	253	4.29	3	0.03	<10	58	
R4174		1.29		<0.01	<0.5	<5	4	19	957	5.68	3	0.12	<10	71	
R4175		1.22		0.32	<0.5	<5	4	20	1880	5.85	5	0.40	10	68	
R4176		1.32		0.38	<0.5	<5	<2	36	75	11.55	6	0.03	<10	152	
R4177		1.28		2.48	<0.5	<5	6	35	337	9.81	8	0.09	<10	144	
R4178		1.24		<0.01	<0.5	<5	<2	<1	1	0.06	<2	<0.01	<10	<2	
R4179		1.22		0.18	<0.5	<5	<2	34	32	10.85	3	0.02	<10	133	
R4180		0.10		0.30	1.3	<5	2	6	3310	3.57	27	0.36	<10	60	
R4181		1.31		0.08	0.5	<5	<2	21	80	6.54	3	0.03	<10	83	
R4182		1.26		0.04	<0.5	<5	2	28	414	9.01	4	0.06	<10	105	
R4183		1.34		0.19	<0.5	<5	<2	32	349	10.10	4	0.10	<10	114	
R4184		1.28		<0.01	0.6	<5	<2	31	16	10.20	4	0.01	<10	112	
R4185		1.27		<0.01	0.6	<5	<2	36	26	11.70	3	<0.01	<10	129	
R4186		1.29		0.20	0.5	<5	<2	37	372	11.45	5	0.08	<10	127	

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		0.02	0.01	0.01	0.5	5	2	1	1	0.01	2	0.01	10	2	0.001
R4187		1.33		0.24	<0.5	<5	<2	37	923	11.60	5	0.12	<10	132	
R4188		1.23		0.52	0.5	<5	55	30	592	9.25	13	0.06	<10	111	
R4189		1.22		0.05	<0.5	<5	<2	26	375	7.49	4	0.13	<10	97	
R4190		1.18		0.01	<0.5	<5	<2	25	638	7.20	3	0.11	<10	99	
R4191		1.31	87.0	0.02	<0.5	<5	<2	23	454	6.74	3	0.05	<10	84	
R4192		1.34		0.01	<0.5	<5	<2	26	3460	8.14	3	0.40	<10	96	
R4193		1.20		<0.01	<0.5	<5	<2	23	972	7.47	3	0.11	<10	86	
R4194		1.27		<0.01	<0.5	<5	<2	22	460	6.83	2	0.05	<10	78	
R4195		1.24		<0.01	<0.5	<5	<2	21	898	6.66	5	0.10	<10	98	
R4196		1.24		<0.01	<0.5	<5	3	22	1610	6.55	3	0.16	<10	85	
R4197		1.40		0.12	<0.5	<5	46	27	541	7.94	4	0.06	<10	105	
R4198		1.25		<0.01	<0.5	<5	<2	21	146	5.90	4	0.02	<10	88	
R4199		1.10		<0.01	<0.5	<5	<2	32	760	8.25	3	0.08	<10	126	
R4200		0.10		0.86	2.3	7	4	15	7030	5.37	19	0.79	10	74	
R4201		0.95		<0.01	<0.5	<5	4	13	44	6.08	3	0.17	<10	136	

Comments: Reports reissued to include Co instead of Ca per client request.