



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)  
LIMITED  
1016-510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

Page: 1  
Finalized Date: 9-JUL-2010  
Account: F

## CERTIFICATE WH10082497

Project: MOR

P.O. No.:

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 21-JUN-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-01	Bulk Master for Storage
CRU-QC	Crushing QC Test
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Pb-OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Zn-OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au-AA24	Au 50g FA AA finish	AAS

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ATTN: JOAN MARIACHER  
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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:

Colin Ramshaw, Vancouver Laboratory Manager



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## CERTIFICATE OF ANALYSIS WH10082497

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
G0557051		3.40	0.006	0.4	2.95	4	<10	150	<0.5	3	1.34	<0.5	15	12	54
G0557052		3.69	0.088	4.4	3.02	11	<10	30	<0.5	13	1.42	5.6	35	30	2890
G0557053		3.64	0.007	0.4	2.18	4	<10	330	<0.5	<2	1.48	<0.5	14	21	168
G0557054		3.50	0.108	6.0	1.46	5	<10	250	<0.5	<2	1.01	5.5	8	9	131
G0557055		3.04	0.013	1.3	3.23	5	<10	840	<0.5	<2	1.79	<0.5	18	3	74
G0557056		0.16	2.14	13.3	0.95	24	<10	30	<0.5	6	0.28	53.8	10	42	4950
G0557057		1.74	0.290	16.1	1.23	12	<10	180	<0.5	<2	0.60	15.7	7	4	214
G0557058		3.93	0.012	1.1	1.22	5	<10	300	<0.5	<2	0.34	1.4	5	4	36
G0557059		3.62	<0.005	0.3	1.53	7	<10	190	<0.5	<2	0.99	<0.5	6	7	15
G0557060		3.92	<0.005	0.3	2.29	4	<10	170	<0.5	<2	1.77	<0.5	12	9	31
G0557061		3.96	0.007	<0.2	3.87	4	<10	330	<0.5	<2	2.53	<0.5	24	38	14
G0557062		2.48	<0.005	<0.2	1.30	3	<10	350	<0.5	<2	1.52	1.8	7	6	59
G0557063		1.99	0.064	1.1	1.68	7	<10	120	<0.5	<2	0.77	26.4	9	4	351
G0557064		1.83	0.030	1.0	2.36	7	<10	120	<0.5	<2	1.67	0.6	17	23	255
G0557065		1.42	0.425	22.5	2.43	30	<10	30	<0.5	64	1.27	38.7	66	22	3700
G0557066		1.35	0.351	11.4	3.04	26	<10	30	<0.5	31	0.68	18.3	36	28	3820
G0557067		1.64	0.321	28.5	2.24	46	<10	20	<0.5	74	0.79	50.7	78	19	4450
G0557068		2.57	<0.005	<0.2	0.05	4	<10	20	<0.5	<2	19.1	<0.5	<1	1	40
G0557069		1.48	0.448	15.0	2.54	28	<10	40	<0.5	18	0.77	33.1	45	10	>10000
G0557070		1.56	0.033	2.2	1.99	10	<10	120	<0.5	3	1.10	1.7	12	12	1075
G0557071		1.38	0.744	28.6	2.31	26	<10	50	<0.5	38	0.46	12.9	82	14	>10000
G0557072		1.01	0.079	6.0	2.32	13	<10	70	<0.5	16	1.53	9.4	22	20	1680
G0557073		0.31	0.274	99.0	1.21	241	<10	90	<0.5	31	0.60	24.0	10	30	6290
G0557074		1.32	0.323	3.6	0.97	13	<10	30	<0.5	12	1.02	4.0	21	11	5610
G0557075		1.61	0.200	8.4	2.49	30	<10	60	<0.5	22	1.03	9.8	64	9	5250
G0557076		1.61	0.526	34.8	1.08	60	<10	20	<0.5	141	1.03	16.2	204	10	>10000
G0557077		0.74	0.737	41.8	1.05	70	<10	20	<0.5	169	1.06	14.7	266	1	>10000
G0557078		1.43	0.389	17.9	3.45	30	<10	50	<0.5	49	2.04	28.5	78	73	5240
G0557079		1.77	1.130	49.1	1.86	40	<10	30	<0.5	175	0.86	62.1	132	6	>10000
G0557080		2.15	0.014	0.6	3.99	11	<10	240	<0.5	<2	2.17	0.6	25	11	210
G0557081		2.38	<0.005	0.3	3.82	6	<10	220	<0.5	<2	2.38	<0.5	21	27	50
G0557082		1.86	<0.005	<0.2	4.02	5	<10	40	<0.5	<2	2.85	<0.5	23	20	46
G0557083		1.66	0.024	1.7	5.00	16	<10	80	<0.5	4	1.94	<0.5	47	56	5290
G0557084		1.56	0.027	1.6	3.53	10	<10	80	<0.5	5	1.04	<0.5	38	18	4650
G0557085		2.22	<0.005	<0.2	0.05	<2	<10	10	<0.5	<2	19.4	<0.5	2	1	24
G0557086		1.61	0.019	1.2	4.62	8	<10	70	<0.5	7	0.81	<0.5	36	13	2790



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## CERTIFICATE OF ANALYSIS WH10082497

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
G0557051		10	<1	0.21	10	2.80	1005	<1	0.05	6	600	20	0.68	<2	10
G0557052		10	2	0.18	<10	2.90	954	1	0.05	12	470	108	5.03	<2	10
G0557053		10	<1	0.25	10	2.04	743	<1	0.08	10	470	30	0.31	<2	8
G0557054		10	<1	0.58	10	1.08	539	2	0.04	5	360	300	1.00	<2	3
G0557055		10	<1	2.13	<10	2.80	1400	<1	0.04	6	550	17	0.31	<2	12
G0557056		<10	1	0.10	<10	0.96	330	12	0.02	23	110	234	>10.0	<2	2
G0557057		<10	2	0.71	10	0.76	413	<1	0.03	4	240	1500	1.25	3	2
G0557058		<10	<1	0.49	10	0.90	288	1	0.08	3	460	24	0.69	<2	2
G0557059		<10	<1	0.42	10	1.24	525	<1	0.07	5	390	21	0.36	<2	3
G0557060		10	<1	0.49	10	2.03	834	2	0.06	7	450	15	0.36	<2	7
G0557061		10	1	0.45	10	4.18	1185	<1	0.05	19	330	9	0.07	<2	19
G0557062		<10	<1	0.36	10	1.14	646	<1	0.07	5	310	23	0.69	<2	4
G0557063		10	1	0.36	10	1.32	463	<1	0.08	3	430	253	1.70	<2	4
G0557064		10	1	0.56	<10	2.07	748	<1	0.06	11	560	89	1.64	<2	9
G0557065		10	7	0.29	<10	2.18	745	9	0.04	14	410	2270	>10.0	<2	8
G0557066		10	4	0.15	<10	2.88	712	10	0.05	11	390	994	>10.0	<2	7
G0557067		10	9	0.12	<10	2.01	621	11	0.04	10	270	2520	>10.0	<2	4
G0557068		<10	<1	0.02	10	12.05	190	<1	0.02	5	200	11	<0.01	<2	<1
G0557069		10	6	0.22	<10	2.30	656	10	0.04	6	250	922	>10.0	<2	4
G0557070		10	1	0.18	10	1.83	640	<1	0.08	7	420	157	1.30	<2	7
G0557071		10	4	0.28	<10	1.99	526	2	0.05	9	330	1100	>10.0	<2	7
G0557072		10	2	0.41	<10	2.14	769	1	0.06	9	400	643	4.85	<2	9
G0557073		<10	1	0.09	<10	0.74	1600	20	0.05	25	440	>10000	2.38	402	4
G0557074		<10	<1	0.09	10	0.79	458	1	0.11	3	390	246	4.36	3	6
G0557075		10	1	0.23	<10	2.20	759	2	0.04	6	440	486	>10.0	<2	7
G0557076		<10	3	0.15	<10	0.85	436	2	0.04	4	200	2620	>10.0	<2	4
G0557077		<10	1	0.10	<10	0.85	442	2	0.04	3	180	3220	>10.0	<2	4
G0557078		10	4	0.17	<10	3.50	1205	4	0.02	26	470	1390	>10.0	4	13
G0557079		<10	11	0.18	<10	1.60	541	6	0.02	8	290	3970	>10.0	<2	6
G0557080		10	<1	0.18	<10	3.87	1305	<1	0.04	4	820	38	0.49	2	17
G0557081		10	<1	0.10	<10	3.79	1240	<1	0.05	12	600	31	0.06	<2	18
G0557082		10	<1	0.06	<10	4.12	1285	<1	0.04	13	570	15	0.03	<2	22
G0557083		10	<1	0.08	<10	5.19	1405	1	0.02	19	580	26	3.29	<2	16
G0557084		10	<1	0.16	<10	3.41	978	1	0.04	10	520	9	2.21	<2	12
G0557085		<10	<1	0.02	<10	12.50	197	<1	0.01	<1	260	5	<0.01	<2	<1
G0557086		10	<1	0.17	<10	4.51	1180	<1	0.02	4	730	6	3.18	<2	9



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Project: MOR

## CERTIFICATE OF ANALYSIS WH10082497

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46	Pb-OG46	Zn-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu	Pb	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%
		20	0.01	10	10	1	10	2	0.001	0.001	0.001
G0557051		<20	0.05	<10	<10	81	<10	262			
G0557052		<20	0.03	<10	<10	83	<10	1910			
G0557053		<20	0.04	<10	<10	54	<10	246			
G0557054		<20	0.05	<10	<10	20	<10	1050			
G0557055		<20	0.25	<10	<10	111	<10	395			
G0557056		<20	0.02	<10	<10	15	10	>10000			1.370
G0557057		<20	0.04	<10	<10	14	<10	2100			
G0557058		<20	0.02	<10	<10	11	<10	276			
G0557059		<20	0.03	<10	<10	15	<10	89			
G0557060		<20	0.04	<10	<10	47	<10	149			
G0557061		<20	0.05	<10	<10	120	<10	141			
G0557062		<20	0.02	<10	<10	19	<10	263			
G0557063		<20	0.02	<10	<10	29	<10	1880			
G0557064		<20	0.07	<10	<10	76	<10	483			
G0557065		<20	0.04	<10	<10	71	<10	>10000			1.470
G0557066		<20	0.04	<10	<10	62	<10	7360			
G0557067		<20	0.03	<10	<10	47	10	>10000			1.880
G0557068		<20	<0.01	<10	<10	3	<10	73			
G0557069		<20	0.04	<10	<10	47	10	>10000	1.055		1.250
G0557070		<20	0.03	<10	<10	47	<10	1160			
G0557071		<20	0.03	<10	<10	44	<10	4250	2.06		
G0557072		<20	0.05	<10	<10	62	<10	3300			
G0557073		<20	0.08	<10	<10	40	<10	4940		0.956	
G0557074		<20	0.03	<10	<10	23	<10	1390			
G0557075		<20	0.03	<10	<10	69	<10	3310			
G0557076		<20	0.01	<10	<10	32	<10	4860	1.265		
G0557077		<20	0.01	<10	<10	31	<10	4270	1.255		
G0557078		<20	0.01	<10	<10	77	<10	8820			
G0557079		<20	0.01	<10	<10	41	10	>10000	1.425		1.975
G0557080		<20	0.03	<10	<10	159	<10	875			
G0557081		<20	0.02	<10	<10	141	<10	290			
G0557082		<20	0.02	<10	<10	175	<10	92			
G0557083		<20	0.02	<10	<10	121	<10	106			
G0557084		<20	0.02	<10	<10	94	<10	98			
G0557085		<20	<0.01	<10	<10	2	<10	15			
G0557086		<20	0.02	<10	<10	85	<10	106			



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## CERTIFICATE OF ANALYSIS WH10082498

Sample Description	Method	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
G0557087		2.14	<0.2	1.53	<2	<10	40	<0.5	<2	0.39	<0.5	3	4	7	2.61	10
G0557088		2.42	<0.2	1.52	2	<10	30	<0.5	<2	0.34	<0.5	3	3	6	2.91	10
G0557089		3.75	<0.2	1.38	<2	<10	30	<0.5	<2	0.88	<0.5	4	4	11	2.83	<10
G0557090		3.89	<0.2	1.34	<2	<10	50	<0.5	<2	1.10	<0.5	6	3	20	2.72	<10
G0557091		3.48	<0.2	0.92	<2	<10	40	<0.5	<2	0.30	<0.5	1	5	19	1.63	<10
G0557092		4.02	0.3	2.49	4	<10	280	<0.5	<2	1.84	<0.5	15	62	115	3.89	10
G0557093		3.35	<0.2	1.32	12	<10	260	<0.5	<2	0.91	0.5	10	40	83	2.61	<10
G0557094		3.36	0.3	1.41	14	<10	260	0.6	<2	2.56	<0.5	15	42	64	3.16	<10
G0557095		0.31	95.2	1.44	244	<10	110	<0.5	25	0.66	23.6	11	32	6140	5.25	<10
G0557096		3.51	0.3	0.97	196	<10	180	<0.5	<2	2.21	<0.5	14	28	78	2.70	<10
G0557097		3.69	<0.2	1.85	21	<10	320	0.6	2	1.35	<0.5	14	44	76	3.25	<10
G0557098		4.17	0.2	1.79	13	<10	150	0.6	<2	1.63	<0.5	14	52	53	2.92	<10
G0557099		3.68	0.3	1.66	5	<10	350	0.5	<2	1.60	<0.5	13	36	68	2.94	<10
G0557100		3.97	<0.2	1.80	7	<10	270	0.8	<2	2.40	<0.5	15	41	42	3.17	10
G0557101		2.18	<0.2	1.58	5	<10	240	0.6	<2	1.94	<0.5	11	74	40	2.79	10
G0557102		2.25	<0.2	0.04	2	<10	10	<0.5	<2	19.7	<0.5	1	1	2	0.40	<10
G0557103		2.78	<0.2	0.92	5	<10	180	0.5	<2	1.99	<0.5	10	67	21	1.95	<10
G0557104		2.95	<0.2	1.87	2	<10	160	<0.5	<2	2.62	<0.5	18	114	60	2.99	<10
G0557105		4.33	<0.2	0.64	<2	<10	90	<0.5	<2	16.9	0.5	6	40	3	1.31	<10
G0557106		4.12	<0.2	2.22	3	<10	250	0.5	3	2.76	<0.5	12	104	59	3.66	10
G0557107		4.05	0.3	2.17	9	<10	160	<0.5	<2	2.56	<0.5	17	80	66	4.31	10
G0557108		0.16	14.2	1.78	27	<10	40	<0.5	5	0.32	56.1	9	50	5090	9.30	<10
G0557109		4.00	0.4	0.46	118	<10	150	<0.5	<2	2.55	<0.5	18	28	85	4.35	<10
G0557110		3.73	0.5	0.56	256	<10	80	<0.5	<2	2.72	<0.5	15	16	72	3.39	<10
G0557111		4.62	0.2	1.71	34	<10	80	0.5	<2	2.44	<0.5	13	20	48	3.56	10
G0557112		3.98	0.3	1.96	126	<10	40	<0.5	<2	2.03	<0.5	13	40	94	3.68	<10
G0557113		4.07	<0.2	1.33	20	<10	80	<0.5	<2	0.30	<0.5	10	35	77	2.89	10
G0557114		3.62	0.2	1.75	2	<10	70	<0.5	<2	0.74	<0.5	12	36	102	3.34	10
G0557115		1.96	<0.2	0.04	2	<10	10	<0.5	<2	19.3	<0.5	1	1	2	0.37	<10
G0557116		3.86	0.2	1.68	<2	<10	60	<0.5	<2	0.65	<0.5	11	38	59	2.96	10
G0557117		3.41	<0.2	1.52	7	<10	60	<0.5	<2	0.34	<0.5	9	56	73	2.94	10
G0557118		4.02	<0.2	1.64	6	<10	80	0.5	<2	0.57	<0.5	10	66	73	2.98	10
G0557119		3.84	0.2	1.61	<2	<10	120	0.5	<2	0.99	<0.5	13	37	99	3.23	10
G0557120		1.98	0.2	1.57	<2	<10	120	0.5	<2	0.96	<0.5	13	38	104	3.24	10
G0557121		3.87	0.2	1.59	<2	<10	90	<0.5	<2	1.03	<0.5	10	35	78	3.40	10
G0557122		3.88	<0.2	2.08	<2	<10	100	0.7	<2	1.46	<0.5	19	133	91	3.60	10