



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

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

Page: 1
Finalized Date: 27-OCT-2009
Account: BONDIM

CERTIFICATE TV09112836

Project: Murphy

P.O. No.: 0172

This report is for 181 1/2 Core samples submitted to our lab in Townsville, QLD, Australia on 12-OCT-2009.

The following have access to data associated with this certificate:

DAVE ESSER
DR RICK VALENTA

BONDI MINING

DAVE STEVENSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test
CRU-21	Crush entire sample >70% -6 mm
LOG-22	Sample login - Rcd w/o BarCode
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS62s	Up to 54 elements by ICP-MS	ICP-MS
Au-TL43	Trace Level Au - 25g AR	ICP-MS
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: **BONDI MINING LIMITED**
ATTN: DAVE ESSER
LEVEL 2
32 PARK ROAD
MILTON 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:

Shaun Kenny, Brisbane Laboratory Manager



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Page: 2 - A

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CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Ga ppm	ME-ICP61 K %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
BOM02364		2.50	<0.5	6.41	20	300	1.5	<2	0.75	<0.5	43	8	116	8.74	20	2.27
BOM02365		1.97	<0.5	6.77	11	530	3.3	3	1.27	<0.5	6	24	11	3.67	20	5.14
BOM02366		1.99	<0.5	1.35	<5	190	<0.5	4	0.35	<0.5	1	5	4	0.81	<10	1.26
BOM02367		2.14	<0.5	2.03	<5	290	<0.5	<2	0.52	<0.5	<1	3	2	0.54	<10	1.82
BOM02368		2.05	<0.5	2.47	<5	360	<0.5	3	0.04	<0.5	2	3	2	0.95	10	2.17
BOM02369		2.11	<0.5	2.63	<5	330	0.5	2	0.05	<0.5	3	3	3	0.54	<10	2.20
BOM02370		2.00	<0.5	2.83	<5	380	0.6	<2	0.04	<0.5	1	3	1	0.99	<10	2.48
BOM02371		1.84	<0.5	1.71	<5	230	0.5	2	0.03	<0.5	1	4	2	1.16	10	1.39
BOM02372		2.25	<0.5	2.59	<5	350	1.0	3	0.13	<0.5	3	5	2	1.21	10	1.56
BOM02373		2.16	<0.5	7.51	13	90	2.8	<2	0.36	<0.5	8	40	2	2.24	20	1.62
BOM02374		2.01	<0.5	7.92	23	190	3.7	5	0.63	<0.5	23	53	10	1.87	20	1.99
BOM02375		1.59	<0.5	8.00	<5	350	3.5	4	0.16	<0.5	41	38	11	2.15	30	3.90
BOM02376		1.29	<0.5	8.51	<5	260	3.4	4	0.11	<0.5	8	44	1	2.38	10	2.90
BOM02377		2.25	<0.5	9.21	14	260	3.4	<2	0.08	<0.5	11	53	1	1.50	20	3.32
BOM02378		2.17	<0.5	7.72	<5	200	3.2	2	0.10	<0.5	8	23	2	2.17	20	3.26
BOM02379		2.17	<0.5	7.89	8	370	2.7	<2	0.18	<0.5	13	10	3	4.08	20	3.72
BOM02380		2.13	<0.5	8.70	<5	470	3.1	3	0.42	<0.5	20	8	3	6.05	30	4.73
BOM02381		2.25	<0.5	7.85	<5	540	2.8	<2	0.20	<0.5	19	9	2	7.24	20	4.48
BOM02382		2.17	<0.5	8.19	<5	760	2.9	<2	0.28	<0.5	19	7	5	8.42	30	5.16
BOM02383		2.24	<0.5	7.50	<5	460	2.8	3	0.10	<0.5	18	16	9	4.16	20	5.18
BOM02384		2.28	<0.5	7.78	6	410	2.8	6	0.30	<0.5	30	60	3	4.73	20	5.30
BOM02385		2.33	<0.5	6.94	<5	710	2.1	<2	0.25	<0.5	20	60	4	3.64	20	6.18
BOM02386		2.54	<0.5	7.07	<5	600	1.6	3	0.30	<0.5	11	40	3	3.46	20	4.79
BOM02387		2.47	<0.5	7.00	<5	680	1.5	3	0.51	<0.5	9	37	162	2.97	20	5.63
BOM02388		2.54	<0.5	6.44	<5	850	1.3	2	0.54	<0.5	9	37	91	2.35	20	4.56
BOM02389		2.55	<0.5	6.18	7	630	1.4	2	0.69	<0.5	10	45	81	2.76	20	2.84
BOM02390		2.29	<0.5	7.58	<5	1030	2.4	2	0.40	<0.5	13	63	11	2.69	20	4.15
BOM02391		2.31	<0.5	8.08	<5	1420	2.7	2	0.31	<0.5	10	72	15	2.19	20	6.78
BOM02392		2.48	<0.5	8.56	<5	780	2.4	<2	0.21	<0.5	12	64	8	3.53	20	5.17
BOM02393		2.51	<0.5	7.39	<5	770	1.7	<2	0.41	<0.5	14	51	4	3.71	20	3.59
BOM02394		2.40	<0.5	6.95	<5	500	1.8	<2	0.37	<0.5	14	45	6	3.47	20	3.16
BOM02395		2.33	<0.5	7.42	<5	990	2.1	<2	0.28	<0.5	11	56	3	3.10	20	4.42
BOM02396		2.42	<0.5	8.18	<5	680	2.6	<2	0.40	<0.5	13	59	4	3.49	20	4.09
BOM02397		2.36	<0.5	8.31	<5	790	2.9	<2	0.22	<0.5	13	66	2	3.88	20	4.99
BOM02398		2.71	<0.5	7.61	<5	760	2.1	5	0.39	<0.5	16	61	6	4.01	20	4.42
BOM02399		0.04	<0.5	0.17	<5	10	<0.5	2	0.01	<0.5	1	37	3	0.62	<10	0.02
BOM02400		0.04	0.7	5.14	13	160	6.4	5	1.08	<0.5	42	28	415	10.15	20	2.07
BOM04965		2.46	<0.5	6.51	23	520	3.0	<2	3.47	<0.5	18	1	789	4.32	10	6.14
BOM04966		2.48	<0.5	7.29	30	870	2.2	6	1.54	<0.5	16	1	1510	2.63	20	6.25
BOM04967		2.60	<0.5	8.01	13	1090	2.7	4	1.12	<0.5	33	<1	1370	5.22	20	6.36



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Page: 2 - B

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CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
BOM02364		20	4.34	1835	2	1.73	33	1390	21	0.02	<5	27	56	<20	0.89	<10
BOM02365		50	0.71	433	<1	0.17	11	590	13	0.03	<5	11	311	30	0.33	<10
BOM02366		10	0.08	75	<1	0.04	2	1670	9	0.02	<5	1	296	<20	0.07	<10
BOM02367		10	0.12	317	<1	0.06	2	2400	9	0.02	<5	1	305	<20	0.05	<10
BOM02368		10	0.13	59	<1	0.06	2	100	7	0.01	<5	2	126	<20	0.06	<10
BOM02369		10	0.31	89	<1	0.08	2	180	7	0.01	<5	2	185	<20	0.07	<10
BOM02370		20	0.27	38	<1	0.06	1	190	8	0.01	<5	1	224	<20	0.06	<10
BOM02371		10	0.21	59	<1	0.04	1	80	5	0.01	<5	1	68	<20	0.05	<10
BOM02372		20	0.32	67	<1	0.03	5	160	7	0.08	<5	4	147	<20	0.16	<10
BOM02373		50	1.23	48	<1	0.03	26	370	8	0.24	<5	19	326	20	0.49	<10
BOM02374		40	1.20	106	2	0.04	90	2780	28	0.02	<5	28	423	<20	0.88	<10
BOM02375		50	1.61	137	1	0.04	116	600	17	0.03	<5	29	487	<20	0.93	<10
BOM02376		60	0.90	66	<1	0.03	18	530	7	0.02	<5	17	461	30	0.55	<10
BOM02377		40	1.01	70	<1	0.03	18	340	5	0.01	<5	15	369	20	0.43	<10
BOM02378		30	1.04	84	<1	0.03	15	320	5	0.01	<5	21	242	20	0.66	<10
BOM02379		30	1.13	114	<1	0.04	18	650	9	0.01	<5	31	228	20	0.88	<10
BOM02380		40	1.73	160	<1	0.06	31	1750	9	0.02	<5	34	263	20	1.00	<10
BOM02381		40	1.37	196	<1	0.06	31	650	9	0.02	5	31	241	20	0.86	<10
BOM02382		50	1.35	221	1	0.07	24	1110	13	0.02	9	31	289	20	0.87	<10
BOM02383		30	1.19	137	<1	0.05	30	180	5	0.01	7	27	127	<20	0.73	10
BOM02384		20	2.09	240	<1	0.05	34	1090	5	0.02	<5	14	116	20	0.46	<10
BOM02385		20	1.91	316	<1	0.08	33	910	4	0.02	<5	14	92	20	0.46	<10
BOM02386		40	1.50	320	<1	1.26	27	700	2	0.03	<5	10	83	<20	0.31	<10
BOM02387		50	1.36	357	<1	0.46	21	800	4	0.02	<5	9	62	20	0.29	<10
BOM02388		80	0.94	365	<1	1.71	15	790	4	0.01	5	8	88	20	0.31	<10
BOM02389		80	1.24	563	<1	2.14	19	840	6	0.01	<5	9	88	30	0.35	<10
BOM02390		10	1.59	298	<1	2.72	33	550	5	0.01	<5	12	210	<20	0.37	<10
BOM02391		30	1.73	262	<1	1.96	39	500	32	0.01	<5	15	202	<20	0.38	<10
BOM02392		40	1.76	289	<1	0.81	44	490	32	0.01	<5	15	108	20	0.37	<10
BOM02393		30	1.54	437	1	2.37	27	580	6	0.01	<5	11	187	<20	0.35	10
BOM02394		30	1.50	422	1	1.90	33	550	7	0.01	<5	10	135	<20	0.32	<10
BOM02395		40	1.44	279	1	1.60	28	440	10	0.01	<5	12	159	<20	0.37	<10
BOM02396		40	1.55	314	1	1.55	31	580	11	<0.01	<5	13	145	20	0.35	<10
BOM02397		30	1.53	355	1	0.63	33	440	17	<0.01	<5	14	93	20	0.34	<10
BOM02398		40	1.47	421	1	0.90	32	700	23	<0.01	<5	13	118	20	0.36	<10
BOM02399		10	0.01	107	1	<0.01	12	20	6	<0.01	<5	2	2	<20	0.38	<10
BOM02400		740	1.08	915	18	0.04	6	1150	25	0.09	<5	8	19	50	0.34	10
BOM04965		20	2.22	1230	<1	0.06	21	1730	26	0.13	8	37	41	<20	1.50	<10
BOM04966		30	1.06	377	<1	0.08	18	2240	19	0.25	5	32	77	20	1.68	<10
BOM04967		40	1.71	342	1	0.07	23	2350	17	0.22	<5	38	88	20	1.78	<10



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Page: 2 - C

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CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-MS62s	ME-MS62s	ME-MS62s	PUL-QC	Au-TL43	ME-ICP61
		U	V	W	Zn	U	Th	Zr	Pass75um	Au	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		10	1	10	2	0.1	0.2	0.5	0.01	0.001	5
BOM02364		<10	310	10	82	2.3	12.0	183.5		0.002	
BOM02365		<10	50	10	26	3.3	25.1	196.5		<0.001	
BOM02366		10	6	<10	2	2.3	9.6	178.5		<0.001	
BOM02367		<10	6	<10	7	2.0	7.2	114.0		0.002	
BOM02368		<10	7	<10	2	1.9	11.2	154.5		0.003	
BOM02369		10	12	<10	3	2.8	7.7	138.5		<0.001	
BOM02370		10	8	<10	3	1.6	6.7	66.1		<0.001	
BOM02371		<10	6	<10	4	1.3	5.8	51.1		<0.001	
BOM02372		<10	27	<10	9	2.8	10.8	196.0		0.001	
BOM02373		<10	151	<10	15	5.1	16.5	207		<0.001	
BOM02374		20	195	10	74	37.5	12.6	253		0.010	
BOM02375		<10	178	<10	130	11.3	12.4	228		0.003	
BOM02376		<10	108	<10	21	8.1	37.5	392		0.001	
BOM02377		<10	89	<10	21	5.3	19.2	201		0.001	
BOM02378		<10	130	10	19	4.5	16.4	242		0.001	
BOM02379		<10	174	10	32	5.2	14.0	233		<0.001	
BOM02380		<10	210	<10	56	4.4	12.4	246		0.001	
BOM02381		<10	199	<10	58	4.0	13.4	217		0.001	
BOM02382		<10	226	<10	60	3.9	12.3	221		0.001	
BOM02383		<10	191	<10	58	3.9	13.0	198.5		0.001	
BOM02384		<10	169	<10	57	4.7	21.3	394		0.001	
BOM02385		<10	103	<10	60	3.7	25.3	371		<0.001	
BOM02386		<10	63	<10	36	2.4	13.2	161.5		0.002	
BOM02387		<10	55	<10	32	3.3	17.4	202		0.001	
BOM02388		<10	55	<10	23	4.2	22.2	286		0.002	
BOM02389		<10	64	<10	31	6.4	35.0	397		0.001	
BOM02390		<10	86	<10	57	5.7	13.6	149.5		0.001	
BOM02391		10	100	<10	67	5.0	14.4	130.5		0.001	
BOM02392		<10	86	10	85	5.0	16.8	143.0		0.001	
BOM02393		<10	68	<10	40	4.4	13.9	151.5		0.001	
BOM02394		<10	63	<10	42	4.3	13.7	154.5		0.001	
BOM02395		<10	77	<10	49	4.1	15.2	152.0		<0.001	
BOM02396		<10	82	<10	30	4.6	15.8	158.0		0.001	
BOM02397		<10	87	<10	47	4.9	15.5	135.5		<0.001	
BOM02398		<10	79	<10	61	4.9	17.0	166.5		0.001	
BOM02399		<10	17	10	12	0.8	4.7	133.0		0.001	
BOM02400		340	74	20	18	406	36.9	128.0		0.009	
BOM04965		10	225	<10	97	10.2	11.3	318		0.002	
BOM04966		<10	154	10	81	9.7	12.2	396		0.001	
BOM04967		10	184	10	149	15.1	13.7	381	97.9	0.001	



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Page: 3 - A

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Ga ppm	ME-ICP61 K %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
BOM04968		2.53	<0.5	8.29	18	1090	2.9	8	0.76	<0.5	46	1	791	8.03	30	5.48
BOM04969		2.18	<0.5	8.21	<5	610	2.2	<2	0.41	<0.5	15	62	5	4.36	20	4.63
BOM04970		2.87	<0.5	7.87	<5	570	2.4	2	0.26	<0.5	12	64	4	3.96	20	4.39
BOM04971		2.44	<0.5	8.39	<5	670	2.2	2	0.27	<0.5	11	60	9	4.07	30	4.34
BOM04972		2.32	<0.5	7.71	<5	740	2.1	3	0.44	<0.5	12	59	22	3.62	20	4.74
BOM04973		2.14	<0.5	7.71	<5	470	2.3	<2	0.43	<0.5	12	59	169	3.62	30	4.21
BOM04974		2.38	<0.5	8.87	<5	390	2.5	3	0.37	<0.5	12	67	76	4.15	30	4.03
BOM04975		2.35	<0.5	8.60	5	450	2.5	<2	0.58	<0.5	13	64	33	4.04	20	4.10
BOM04976		2.60	<0.5	8.23	<5	540	2.0	3	0.35	<0.5	11	61	3	4.06	20	3.96
BOM04977		2.56	<0.5	8.13	<5	610	2.1	<2	0.34	<0.5	13	64	3	4.07	20	4.18
BOM04978		2.44	<0.5	8.82	<5	460	2.5	<2	0.20	<0.5	14	68	3	4.46	30	4.11
BOM04979		2.20	<0.5	9.12	<5	510	2.5	3	0.22	<0.5	13	67	12	4.26	30	4.24
BOM04980		2.04	<0.5	8.44	<5	480	2.4	<2	0.55	<0.5	12	63	7	4.34	30	3.81
BOM04981		2.37	<0.5	7.88	<5	580	2.4	<2	0.17	<0.5	15	65	2	3.73	20	4.37
BOM04982		2.39	<0.5	7.12	5	600	2.0	3	0.36	<0.5	10	50	4	3.05	20	3.12
BOM04983		2.37	<0.5	7.01	<5	840	1.8	<2	0.47	<0.5	9	48	3	3.09	20	3.70
BOM04984		2.67	<0.5	7.36	<5	790	2.0	<2	0.39	<0.5	11	55	3	3.41	20	4.05
BOM04985		2.10	<0.5	0.18	<5	30	<0.5	<2	22.9	<0.5	1	1	<1	0.19	<10	0.06
BOM04986		2.46	<0.5	0.24	<5	20	<0.5	<2	29.8	<0.5	1	2	<1	0.10	<10	0.12
BOM04987		2.17	<0.5	0.08	<5	180	<0.5	<2	19.60	<0.5	1	1	<1	0.06	<10	0.04
BOM04988		2.05	<0.5	0.91	<5	1070	<0.5	2	0.29	<0.5	3	2	3	0.60	<10	0.98
BOM04989		2.12	<0.5	4.11	<5	450	0.9	2	0.05	<0.5	3	9	1	1.19	10	2.74
BOM04990		2.08	<0.5	2.88	<5	360	0.5	<2	0.50	<0.5	1	5	1	0.86	10	2.42
BOM04991		2.19	0.6	0.75	<5	120	<0.5	2	1.93	<0.5	<1	4	2	0.86	<10	0.70
BOM04992		2.04	<0.5	1.15	<5	270	<0.5	4	0.46	<0.5	1	2	<1	0.39	<10	1.10
BOM04993		2.21	<0.5	4.13	7	440	1.5	<2	0.09	<0.5	4	9	1	1.21	10	2.81
BOM04994		2.06	<0.5	1.83	<5	260	<0.5	3	0.06	<0.5	1	3	1	0.50	<10	1.69
BOM04995		2.29	<0.5	4.89	<5	470	1.9	<2	0.09	<0.5	3	12	1	2.03	10	3.16
BOM04996		2.16	<0.5	2.73	<5	280	1.1	<2	0.05	<0.5	4	6	13	0.94	10	1.89
BOM04997		2.26	<0.5	5.06	<5	220	1.5	2	0.61	<0.5	3	25	4	2.72	10	2.46
BOM04998		2.26	<0.5	6.83	<5	310	2.0	<2	0.28	<0.5	4	43	6	2.90	20	3.89
BOM04999		0.04	<0.5	0.17	<5	10	<0.5	2	0.01	<0.5	2	36	1	0.61	<10	0.02
BOM05000		0.04	<0.5	6.27	9	330	3.0	<2	1.31	<0.5	35	24	275	4.99	20	3.19
BOM06001		2.45	<0.5	5.00	<5	270	1.1	<2	1.02	<0.5	15	42	63	2.58	10	0.22
BOM06002		2.90	<0.5	1.51	13	90	1.5	<2	24.2	<0.5	21	11	10	3.38	<10	0.11
BOM06003		2.74	<0.5	1.65	7	60	1.5	<2	20.7	<0.5	21	13	7	3.10	<10	0.19
BOM06004		2.60	<0.5	1.22	<5	80	0.8	<2	15.00	<0.5	4	11	4	1.23	<10	0.25
BOM06005		3.01	<0.5	1.96	<5	200	1.1	<2	8.50	<0.5	4	21	12	1.43	10	0.56
BOM06006		3.19	<0.5	0.70	<5	80	0.5	<2	15.80	<0.5	2	5	3	0.44	<10	0.30
BOM06007		2.62	<0.5	0.07	<5	10	<0.5	<2	16.15	<0.5	2	1	1	0.22	<10	0.02



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Page: 3 - B

Total # Pages: 6 (A - C)

Finalized Date: 27-OCT-2009

Account: BONDIM

Project: Murphy

CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
BOM04968		40	2.51	292	1	0.06	27	2520	17	0.19	<5	44	83	20	1.73	<10
BOM04969		30	1.61	458	<1	0.15	32	540	15	0.01	<5	14	50	<20	0.34	<10
BOM04970		20	1.42	291	<1	0.16	32	460	9	<0.01	5	13	42	<20	0.32	<10
BOM04971		30	1.46	356	<1	0.42	30	570	6	<0.01	6	14	59	<20	0.33	<10
BOM04972		30	1.57	413	<1	0.09	30	530	11	0.01	<5	12	54	<20	0.35	<10
BOM04973		30	1.63	385	<1	0.07	29	510	5	0.05	7	13	25	<20	0.33	<10
BOM04974		40	1.67	376	<1	0.09	32	440	5	0.01	<5	15	22	20	0.33	<10
BOM04975		40	1.73	567	<1	0.08	31	510	5	0.03	<5	15	24	20	0.34	<10
BOM04976		30	1.61	385	<1	0.10	32	510	5	<0.01	<5	14	21	20	0.35	<10
BOM04977		20	1.61	347	<1	0.10	37	480	3	0.01	<5	14	28	<20	0.34	<10
BOM04978		30	1.58	295	<1	0.09	35	430	3	0.01	<5	15	29	<20	0.33	<10
BOM04979		40	1.66	310	<1	0.10	35	460	4	0.03	<5	16	29	20	0.34	<10
BOM04980		30	1.73	559	<1	0.10	34	420	6	0.01	<5	15	27	<20	0.29	<10
BOM04981		30	1.47	271	<1	0.13	34	470	4	0.02	<5	13	41	<20	0.34	<10
BOM04982		40	1.23	347	1	1.81	26	570	5	0.01	<5	11	144	20	0.31	<10
BOM04983		30	1.30	407	<1	1.49	25	540	7	0.01	<5	11	135	<20	0.31	<10
BOM04984		30	1.46	380	<1	0.71	28	540	6	0.01	5	12	72	<20	0.33	<10
BOM04985		<10	5.94	225	<1	0.02	2	30	2	<0.01	<5	<1	78	<20	0.01	<10
BOM04986		<10	3.12	89	<1	0.02	1	690	3	0.04	<5	1	131	<20	0.01	<10
BOM04987		<10	5.33	385	<1	0.02	1	20	<2	0.06	<5	<1	62	<20	<0.01	<10
BOM04988		10	0.04	107	<1	0.03	1	20	6	0.02	<5	<1	35	<20	0.02	<10
BOM04989		30	0.18	54	<1	0.08	3	70	11	<0.01	<5	6	59	20	0.17	<10
BOM04990		20	0.18	48	<1	0.07	2	170	7	0.01	<5	3	141	<20	0.11	<10
BOM04991		10	0.07	74	<1	0.02	1	6550	5	0.01	<5	1	126	<20	0.02	<10
BOM04992		10	0.12	53	<1	0.04	1	120	5	0.01	<5	1	147	<20	0.03	<10
BOM04993		30	0.36	86	<1	0.06	6	200	11	0.04	<5	5	222	20	0.17	<10
BOM04994		10	0.15	48	<1	0.05	1	100	6	0.03	<5	1	114	<20	0.05	<10
BOM04995		30	0.66	99	<1	0.06	6	290	10	0.01	5	6	293	20	0.26	<10
BOM04996		20	0.43	75	1	0.04	15	80	17	0.01	<5	2	82	<20	0.10	<10
BOM04997		40	0.34	84	<1	0.03	7	340	10	0.44	7	7	413	<20	0.21	<10
BOM04998		60	0.59	70	<1	0.04	14	1210	11	0.05	5	10	432	20	0.29	<10
BOM04999		10	0.01	104	<1	<0.01	10	20	3	<0.01	<5	2	1	<20	0.37	<10
BOM05000		290	1.21	434	12	0.09	12	560	14	0.08	<5	6	40	50	0.15	<10
BOM06001		30	0.34	882	20	0.07	20	70	21	0.28	<5	10	89	<20	0.43	<10
BOM06002		30	0.97	576	5	0.06	11	80	21	0.01	<5	3	107	20	0.08	<10
BOM06003		30	1.25	358	1	0.06	13	80	29	0.01	<5	3	103	20	0.09	<10
BOM06004		<10	8.00	181	1	0.07	7	210	11	0.01	<5	3	96	<20	0.06	<10
BOM06005		10	5.41	109	1	0.06	19	170	17	0.01	<5	4	94	<20	0.10	<10
BOM06006		<10	10.30	90	1	0.04	5	90	9	0.01	<5	2	87	<20	0.04	<10
BOM06007		<10	10.20	101	33	0.01	1	50	4	<0.01	<5	<1	65	<20	<0.01	<10



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Page: 3 - C

Total # Pages: 6 (A - C)

Finalized Date: 27-OCT-2009

Account: BONDIM

Project: Murphy

CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	ME-MS62s U ppm 0.1	ME-MS62s Th ppm 0.2	ME-MS62s Zr ppm 0.5	PUL-QC Pass75um % 0.01	Au-TL43 Au ppm 0.001	ME-ICP61 Zr ppm 5
BOM04968		<10	171	<10	167	11.7	14.3	404		0.001	
BOM04969		<10	84	<10	73	4.5	14.5	146.5		<0.001	
BOM04970		<10	85	<10	45	4.7	14.3	136.0		<0.001	
BOM04971		<10	82	<10	52	4.5	15.9	153.5		0.001	
BOM04972		<10	81	<10	50	4.8	15.5	156.5		0.001	
BOM04973		<10	84	<10	43	4.5	14.7	146.5		0.005	
BOM04974		<10	95	<10	74	5.5	16.7	124.5		0.009	
BOM04975		10	87	<10	62	10.3	18.0	135.5		0.005	
BOM04976		<10	82	<10	45	5.2	14.9	151.5		<0.001	
BOM04977		<10	87	<10	48	5.3	14.1	139.0		0.001	
BOM04978		<10	90	<10	68	5.7	14.6	130.5		0.002	
BOM04979		<10	91	<10	70	5.7	18.4	128.0		0.001	
BOM04980		<10	85	30	63	7.0	14.5	120.0		0.001	
BOM04981		<10	88	10	44	5.8	14.5	148.5		0.001	
BOM04982		<10	70	10	31	4.6	17.6	178.5		<0.001	
BOM04983		<10	67	10	32	4.3	16.4	166.5		0.001	
BOM04984		<10	76	10	36	4.5	15.9	159.0		0.001	
BOM04985		<10	4	<10	26	0.4	0.3	2.5		0.001	
BOM04986		<10	6	<10	16	2.9	0.5	4.6		0.001	
BOM04987		<10	1	<10	9	1.5	0.2	1.5		0.001	
BOM04988		<10	3	<10	2	0.4	1.9	28.0		<0.001	
BOM04989		<10	26	<10	9	2.8	24.7	>500		0.001	597
BOM04990		<10	10	<10	3	1.9	17.1	351		<0.001	
BOM04991		10	8	<10	<2	4.1	3.4	7.4		<0.001	
BOM04992		<10	2	<10	<2	0.7	4.0	58.1		<0.001	
BOM04993		10	24	<10	19	19.1	16.4	214		<0.001	
BOM04994		<10	3	<10	<2	1.5	7.3	126.0		<0.001	
BOM04995		<10	23	10	21	2.7	23.6	324		<0.001	
BOM04996		<10	13	<10	21	1.8	8.8	92.6		<0.001	
BOM04997		<10	47	<10	14	4.3	14.7	157.0		<0.001	
BOM04998		<10	66	10	50	6.2	16.6	167.0		<0.001	
BOM04999		<10	17	10	10	0.9	4.7	128.0		0.001	
BOM05000		580	29	10	12	>500	40.3	131.5		0.007	
BOM06001		<10	71	10	188	3.4	11.8	154.5		0.001	
BOM06002		<10	123	<10	22	2.1	2.9	34.4		0.001	
BOM06003		<10	96	<10	32	2.1	3.8	39.5		0.001	
BOM06004		<10	23	<10	39	1.8	2.7	25.6		0.001	
BOM06005		<10	33	<10	70	2.6	4.6	36.0		0.001	
BOM06006		10	13	<10	22	1.3	1.5	16.2		0.001	
BOM06007		<10	7	<10	27	1.3	<0.2	1.5	96.7	0.001	



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Page: 4 - A

Total # Pages: 6 (A - C)

Finalized Date: 27-OCT-2009

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Project: Murphy

CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01
BOM06008		2.58	<0.5	0.15	<5	10	<0.5	<2	17.35	<0.5	1	2	<1	0.27	<10	0.04
BOM06009		2.56	<0.5	0.05	<5	10	<0.5	<2	16.25	<0.5	<1	1	<1	0.12	<10	0.01
BOM06010		2.79	<0.5	0.07	<5	10	<0.5	<2	17.85	<0.5	<1	1	<1	0.08	<10	0.02
BOM06011		2.50	<0.5	0.06	<5	<10	<0.5	<2	18.40	<0.5	<1	1	<1	0.06	<10	0.02
BOM06012		3.47	<0.5	0.36	<5	40	<0.5	<2	17.95	<0.5	2	3	1	0.29	<10	0.12
BOM06013		2.37	<0.5	0.19	<5	20	<0.5	<2	19.60	<0.5	2	3	<1	0.15	<10	0.08
BOM06014		3.09	<0.5	0.08	<5	20	<0.5	<2	18.60	<0.5	<1	<1	<1	0.13	<10	0.02
BOM06015		3.04	<0.5	0.03	<5	<10	<0.5	<2	18.45	<0.5	<1	1	<1	0.07	<10	0.01
BOM06016		2.70	<0.5	0.07	<5	50	<0.5	<2	16.15	<0.5	1	2	<1	0.20	<10	0.02
BOM06017		3.27	<0.5	0.05	<5	<10	<0.5	<2	20.7	<0.5	<1	1	<1	0.04	<10	0.01
BOM06018		2.32	<0.5	5.00	<5	270	1.0	2	1.13	<0.5	15	42	17	2.71	10	0.09
BOM06019		2.52	<0.5	6.32	<5	140	0.7	5	0.89	<0.5	3	35	6	1.09	20	0.06
BOM06020		3.22	<0.5	2.99	<5	110	1.1	<2	3.14	<0.5	2	24	3	0.53	10	0.05
BOM06021		3.25	<0.5	2.86	<5	100	1.1	<2	3.33	<0.5	2	26	4	0.65	10	0.05
BOM06022		3.33	<0.5	0.29	<5	20	<0.5	<2	21.9	<0.5	<1	2	<1	0.16	<10	0.04
BOM06023		3.93	<0.5	0.10	<5	10	<0.5	<2	19.50	<0.5	1	1	<1	0.06	<10	0.02
BOM06024		2.57	<0.5	0.12	<5	10	<0.5	<2	18.40	<0.5	1	1	<1	0.10	<10	0.02
BOM06025		2.69	<0.5	0.16	<5	10	<0.5	<2	27.5	<0.5	1	2	<1	0.15	<10	0.01
BOM06026		2.66	<0.5	0.06	<5	<10	<0.5	<2	24.2	<0.5	<1	<1	<1	0.05	<10	0.01
BOM06027		2.68	<0.5	0.19	<5	10	<0.5	<2	17.95	<0.5	1	2	<1	0.20	<10	0.03
BOM06028		2.74	<0.5	0.13	<5	<10	<0.5	<2	24.6	<0.5	4	2	<1	0.20	<10	0.03
BOM06029		2.91	<0.5	0.10	<5	<10	<0.5	<2	25.8	<0.5	3	2	<1	0.14	<10	0.02
BOM06030		3.07	<0.5	0.24	10	60	<0.5	<2	29.1	<0.5	10	6	10	0.52	<10	0.06
BOM06031		2.51	<0.5	0.63	<5	50	<0.5	<2	22.5	<0.5	10	9	8	0.94	<10	0.19
BOM06032		2.63	<0.5	1.39	5	70	0.6	<2	21.2	<0.5	9	12	25	7.72	<10	0.91
BOM06033		2.27	<0.5	2.24	<5	90	0.7	<2	21.6	<0.5	11	17	38	2.06	<10	1.57
BOM06034		2.57	<0.5	5.57	<5	180	1.1	4	4.29	<0.5	32	10	64	6.89	10	2.25
BOM06035		3.22	<0.5	4.75	<5	250	1.0	<2	7.92	<0.5	26	10	47	6.45	10	2.26
BOM06036		3.26	<0.5	6.04	<5	400	1.3	<2	1.65	<0.5	38	8	74	8.65	20	2.60
BOM06037		3.05	<0.5	5.45	<5	220	1.0	2	0.87	<0.5	14	52	18	2.95	10	0.12
BOM06038		3.39	<0.5	5.72	9	90	<0.5	<2	12.50	<0.5	6	37	13	2.97	20	0.09
BOM06039		3.09	<0.5	6.49	<5	40	0.7	<2	10.05	<0.5	4	45	9	2.98	20	0.07
BOM06040		2.86	<0.5	6.91	7	50	0.7	<2	11.20	<0.5	5	42	9	3.58	10	0.19
BOM06041		3.29	<0.5	7.54	6	50	0.7	<2	10.10	<0.5	6	46	9	3.96	10	0.19
BOM06042		3.45	<0.5	2.12	<5	20	0.7	<2	15.70	<0.5	1	13	3	0.41	<10	0.08
BOM06043		3.86	<0.5	0.96	<5	70	1.4	<2	19.30	<0.5	9	8	5	3.15	<10	0.14
BOM06044		2.66	<0.5	2.04	<5	70	0.7	<2	16.70	<0.5	6	13	19	1.49	<10	0.40
BOM06045		3.16	<0.5	4.03	<5	160	1.0	<2	12.40	<0.5	14	16	43	4.07	10	2.02
BOM06046		3.08	<0.5	6.03	<5	200	1.1	<2	2.99	<0.5	36	14	209	7.54	20	1.22
BOM06047		3.46	<0.5	6.98	<5	190	0.7	<2	2.77	<0.5	35	39	66	6.36	20	1.37



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Page: 4 - B

Total # Pages: 6 (A - C)

Finalized Date: 27-OCT-2009

Account: BONDIM

Project: Murphy

CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
BOM06008		<10	10.65	81	1	0.02	2	40	5	<0.01	<5	<1	64	<20	0.01
BOM06009		<10	10.60	90	1	0.02	1	10	4	<0.01	<5	<1	54	<20	<0.01
BOM06010		<10	11.45	66	<1	0.02	1	110	6	<0.01	<5	<1	63	<20	<0.01
BOM06011		<10	11.80	87	<1	0.02	1	320	4	<0.01	<5	<1	69	<20	<0.01
BOM06012		<10	11.30	338	2	0.04	1	660	13	0.08	6	1	76	<20	0.01
BOM06013		<10	9.05	101	3	0.02	2	70	6	0.08	<5	<1	80	<20	0.01
BOM06014		<10	11.00	51	2	0.05	<1	30	4	0.01	<5	<1	91	<20	<0.01
BOM06015		<10	11.95	139	1	0.02	1	120	3	<0.01	<5	<1	39	<20	<0.01
BOM06016		<10	10.25	94	1	0.03	2	320	4	0.01	<5	<1	56	<20	<0.01
BOM06017		<10	10.00	204	<1	0.02	2	560	2	0.02	<5	<1	68	<20	<0.01
BOM06018		30	0.54	822	1	0.07	15	50	16	0.01	<5	10	58	<20	0.43
BOM06019		30	0.64	42	<1	0.07	8	150	11	0.02	<5	8	108	<20	0.46
BOM06020		20	0.40	44	<1	0.03	5	140	21	0.01	<5	6	85	<20	0.21
BOM06021		20	0.58	58	1	0.03	6	190	24	0.01	<5	6	93	<20	0.20
BOM06022		<10	7.78	86	<1	0.02	2	80	2	0.01	<5	1	139	<20	0.02
BOM06023		<10	10.50	82	<1	0.03	2	80	9	<0.01	<5	<1	88	<20	<0.01
BOM06024		<10	10.85	163	<1	0.02	2	310	2	<0.01	<5	<1	67	<20	0.01
BOM06025		<10	2.57	121	1	0.01	2	470	5	<0.01	<5	<1	143	<20	0.01
BOM06026		<10	7.41	292	<1	0.02	<1	860	4	<0.01	<5	<1	85	<20	<0.01
BOM06027		<10	9.87	239	<1	0.02	1	190	4	0.01	<5	<1	58	<20	0.01
BOM06028		<10	6.93	103	2	0.02	5	460	3	0.05	<5	<1	100	<20	0.01
BOM06029		<10	6.36	91	17	0.01	2	320	7	0.12	<5	<1	103	<20	0.01
BOM06030		<10	1.62	125	2	0.03	13	1190	10	0.54	<5	1	279	<20	0.01
BOM06031		<10	1.84	354	1	0.02	14	260	14	0.77	<5	1	104	<20	0.04
BOM06032		<10	0.59	1405	1	0.03	11	150	19	9.31	<5	4	84	<20	0.09
BOM06033		10	0.72	2060	1	0.04	9	240	19	1.90	<5	6	94	<20	0.14
BOM06034		20	3.23	1115	2	0.19	20	580	14	0.19	<5	26	94	<20	0.79
BOM06035		20	2.30	962	2	0.71	17	590	14	1.35	<5	19	90	<20	0.68
BOM06036		20	3.39	839	1	1.33	22	700	9	0.13	<5	26	64	<20	1.02
BOM06037		20	0.35	595	7	0.10	17	80	14	0.07	<5	10	56	<20	0.42
BOM06038		10	0.49	556	2	0.06	8	130	9	0.02	<5	11	40	20	0.32
BOM06039		<10	0.76	239	1	0.06	7	150	9	0.01	<5	11	37	<20	0.35
BOM06040		<10	0.40	183	1	0.07	8	170	9	0.03	<5	15	44	<20	0.31
BOM06041		10	0.48	135	1	0.08	8	170	9	0.01	<5	17	46	<20	0.32
BOM06042		10	9.90	246	1	0.04	3	330	41	0.02	<5	4	44	<20	0.09
BOM06043		<10	5.65	641	1	0.02	20	330	43	0.02	<5	2	65	<20	0.05
BOM06044		10	5.63	682	1	0.03	10	250	28	0.03	<5	5	64	<20	0.13
BOM06045		10	1.69	1180	1	0.05	15	430	6	0.04	5	14	61	<20	0.36
BOM06046		20	3.31	763	1	1.45	24	560	5	<0.01	<5	28	68	<20	0.84
BOM06047		10	4.65	790	1	3.09	38	390	4	0.01	<5	32	112	<20	0.49



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Page: 4 - C

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CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	ME-MS62s U ppm 0.1	ME-MS62s Th ppm 0.2	ME-MS62s Zr ppm 0.5	PUL-QC Pass75um % 0.01	Au-TL43 Au ppm 0.001	ME-ICP61 Zr ppm 5
BOM06008		10	4	<10	13	0.9	0.3	3.1		0.001	
BOM06009		<10	3	<10	16	1.0	<0.2	1.2		0.001	
BOM06010		<10	2	<10	7	0.6	<0.2	1.4		0.001	
BOM06011		<10	2	<10	9	0.8	<0.2	1.5		0.001	
BOM06012		<10	6	<10	14	1.6	0.7	5.4		0.001	
BOM06013		<10	7	<10	8	3.6	0.4	3.5		0.001	
BOM06014		<10	4	<10	25	0.8	0.2	1.3		0.001	
BOM06015		<10	2	<10	19	0.3	<0.2	2.5		0.001	
BOM06016		<10	2	<10	21	0.8	0.2	2.1		0.001	
BOM06017		10	2	<10	47	3.4	<0.2	1.1		0.001	
BOM06018		<10	76	<10	25	1.9	10.9	135.5		0.001	
BOM06019		<10	50	<10	17	1.3	7.9	130.0		<0.001	
BOM06020		<10	28	<10	12	1.6	4.9	71.1		<0.001	
BOM06021		<10	27	<10	13	1.7	5.0	71.5		<0.001	
BOM06022		<10	11	<10	5	1.2	0.6	5.8		0.001	
BOM06023		<10	5	<10	16	0.6	0.2	1.6		0.001	
BOM06024		<10	3	<10	11	0.4	0.2	3.0		0.001	
BOM06025		<10	6	<10	34	1.8	0.3	3.9		0.002	
BOM06026		<10	1	<10	5	0.7	<0.2	2.0		0.001	
BOM06027		<10	5	<10	5	0.8	0.3	4.2		0.001	
BOM06028		<10	5	<10	26	3.5	0.3	6.2		0.001	
BOM06029		<10	3	<10	81	2.4	0.2	2.4		0.001	
BOM06030		10	7	10	60	9.5	0.6	6.8		0.001	
BOM06031		10	11	10	63	2.2	1.6	15.9		0.001	
BOM06032		<10	22	10	25	2.0	3.6	51.3		0.001	
BOM06033		<10	36	10	11	2.1	5.0	69.8		0.001	
BOM06034		<10	330	10	84	1.8	9.4	172.5		0.001	
BOM06035		<10	276	10	44	2.3	9.4	170.5		0.001	
BOM06036		<10	418	20	28	2.0	11.0	205		<0.001	
BOM06037		<10	87	<10	41	1.8	10.5	135.5		0.001	
BOM06038		<10	152	10	29	1.7	10.7	111.5		<0.001	
BOM06039		<10	156	10	27	1.7	10.6	120.0		<0.001	
BOM06040		<10	170	10	42	1.6	9.5	100.5		0.001	
BOM06041		<10	183	10	44	1.6	9.9	101.5		0.001	
BOM06042		<10	21	<10	32	1.2	2.8	34.5		0.001	
BOM06043		<10	38	<10	308	1.1	2.0	22.7		0.001	
BOM06044		<10	37	<10	29	1.4	5.0	78.9		0.001	
BOM06045		<10	168	<10	64	1.6	7.2	127.5		0.001	
BOM06046		<10	371	<10	159	1.5	8.6	166.0		0.001	
BOM06047		<10	223	<10	75	0.8	4.8	105.0	94.5	<0.001	



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Page: 5 - A

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Ga ppm	ME-ICP61 K %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
BOM06048		3.79	<0.5	6.51	<5	320	1.1	<2	3.18	<0.5	35	22	34	7.70	20	2.60
BOM06049		3.00	<0.5	7.15	<5	120	0.7	<2	6.05	<0.5	38	45	28	6.92	20	0.64
BOM06050		0.07	<0.5	6.04	16	320	3.0	<2	1.31	<0.5	36	25	277	4.92	20	3.18
BOM06051		0.06	<0.5	0.17	<5	10	<0.5	<2	0.02	<0.5	1	33	3	0.59	<10	0.02
BOM06052		3.99	<0.5	6.87	<5	120	0.7	<2	5.76	<0.5	35	40	37	6.56	10	0.62
BOM06053		3.14	<0.5	0.87	<5	120	<0.5	<2	0.15	<0.5	1	5	3	0.44	<10	0.82
BOM06054		2.83	<0.5	1.41	<5	220	<0.5	<2	0.30	<0.5	1	5	5	0.77	<10	1.35
BOM06055		2.48	<0.5	2.15	<5	340	<0.5	<2	0.21	<0.5	1	7	3	0.70	<10	1.95
BOM06056		2.91	<0.5	1.90	<5	260	<0.5	<2	0.09	<0.5	1	7	2	0.64	<10	1.69
BOM06057		2.95	<0.5	2.14	<5	250	0.5	<2	0.51	<0.5	2	13	3	1.01	<10	1.65
BOM06058		2.82	<0.5	2.46	<5	360	0.5	<2	0.06	<0.5	1	8	2	1.15	<10	1.95
BOM06059		2.74	<0.5	1.91	<5	260	0.5	<2	0.10	<0.5	1	8	2	0.89	<10	1.68
BOM06060		2.53	<0.5	2.27	<5	340	0.5	<2	0.57	<0.5	3	9	2	0.93	10	2.03
BOM06061		2.61	<0.5	2.17	<5	340	0.5	<2	0.57	<0.5	2	8	3	0.79	<10	1.97
BOM06062		2.89	<0.5	2.10	<5	300	0.5	<2	0.11	<0.5	2	9	3	1.08	<10	1.83
BOM06063		3.01	<0.5	2.35	7	320	1.3	<2	1.51	<0.5	2	14	3	2.08	<10	2.03
BOM06064		1.41	<0.5	2.10	<5	320	0.5	<2	0.10	<0.5	2	8	2	1.74	<10	1.88
BOM06065		3.49	<0.5	4.16	<5	240	0.9	<2	0.42	<0.5	12	42	14	2.40	10	0.45
BOM06066		2.70	<0.5	4.60	10	700	2.9	<2	2.58	<0.5	9	54	14	3.06	10	0.29
BOM06067		3.89	<0.5	0.76	<5	30	0.6	<2	16.65	<0.5	3	7	4	0.46	<10	0.13
BOM06068		3.86	<0.5	0.34	<5	20	0.5	<2	13.05	<0.5	7	7	7	0.48	<10	0.13
BOM06069		3.62	<0.5	0.19	<5	20	<0.5	<2	14.55	<0.5	5	4	2	0.22	<10	0.04
BOM06070		3.27	<0.5	0.19	<5	10	<0.5	<2	19.25	<0.5	1	3	1	0.07	<10	0.02
BOM06071		3.77	<0.5	0.11	<5	10	<0.5	<2	19.15	<0.5	1	2	1	0.08	<10	0.03
BOM06072		3.21	<0.5	0.16	<5	10	<0.5	<2	18.85	<0.5	1	3	1	0.19	<10	0.06
BOM06073		3.07	<0.5	0.15	<5	10	<0.5	<2	17.25	<0.5	2	3	1	0.11	<10	0.03
BOM06074		2.92	<0.5	0.15	<5	10	<0.5	<2	17.60	<0.5	1	2	1	0.11	<10	0.03
BOM06075		3.27	<0.5	0.08	<5	10	<0.5	<2	18.50	<0.5	2	1	<1	0.20	<10	0.02
BOM06076		3.81	<0.5	0.13	<5	10	<0.5	<2	18.35	<0.5	3	2	2	0.28	<10	0.04
BOM06077		3.69	<0.5	0.05	<5	10	<0.5	<2	15.55	<0.5	2	3	1	0.25	<10	0.01
BOM06251		2.27	<0.5	7.34	<5	490	2.1	<2	0.25	<0.5	11	48	7	3.48	20	3.67
BOM06252		2.36	<0.5	6.04	<5	580	1.7	<2	0.17	<0.5	9	40	2	2.74	20	3.74
BOM06253		1.98	<0.5	4.50	<5	410	2.0	<2	0.07	<0.5	5	17	5	3.01	10	2.87
BOM06254		2.28	<0.5	1.63	<5	130	0.8	<2	0.04	<0.5	3	7	7	1.14	<10	0.99
BOM06255		2.51	<0.5	1.34	<5	60	0.6	<2	0.03	<0.5	3	3	3	0.56	<10	0.49
BOM06256		2.56	<0.5	1.02	<5	50	0.5	<2	0.02	<0.5	1	4	4	0.93	<10	0.38
BOM06257		2.45	0.6	0.78	<5	20	<0.5	<2	0.02	<0.5	1	3	4	0.72	<10	0.29
BOM06258		2.55	<0.5	1.10	<5	30	<0.5	<2	0.02	<0.5	1	5	5	0.72	<10	0.40
BOM06259		2.35	<0.5	1.26	<5	60	0.5	<2	0.03	<0.5	1	7	5	1.17	<10	0.49
BOM06260		2.49	<0.5	3.08	38	170	1.4	<2	0.24	<0.5	32	6	6	2.02	10	1.73



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Page: 5 - B

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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
BOM06048		10	2.82	1190	2	2.23	24	580	6	0.02	<5	32	107	<20	0.76
BOM06049		10	3.96	1040	1	1.39	42	390	6	0.01	<5	38	135	<20	0.53
BOM06050		280	1.18	418	12	0.10	12	550	17	0.08	<5	6	40	40	0.15
BOM06051		10	0.02	100	1	0.01	11	20	2	<0.01	<5	2	2	<20	0.34
BOM06052		10	3.54	864	1	1.34	38	370	3	0.01	<5	35	127	<20	0.51
BOM06053		10	0.09	45	1	0.09	1	300	<2	<0.01	<5	1	39	<20	0.03
BOM06054		10	0.12	56	1	0.06	2	1030	5	0.01	<5	1	110	<20	0.04
BOM06055		10	0.16	55	1	0.06	2	800	6	0.01	<5	1	261	<20	0.06
BOM06056		10	0.14	25	1	0.05	1	240	5	0.01	<5	1	220	<20	0.05
BOM06057		10	0.18	76	2	0.06	2	2020	5	0.01	<5	2	256	<20	0.06
BOM06058		10	0.16	58	1	0.05	2	170	6	0.01	5	2	137	<20	0.07
BOM06059		10	0.18	51	1	0.05	2	410	5	0.01	<5	1	158	<20	0.06
BOM06060		10	0.23	82	1	0.06	2	1930	5	0.01	<5	1	80	<20	0.05
BOM06061		10	0.21	63	2	0.06	2	1950	7	0.01	<5	1	82	<20	0.05
BOM06062		10	0.21	48	1	0.05	2	280	6	0.01	<5	1	93	<20	0.06
BOM06063		20	0.25	112	1	0.06	2	6950	10	0.01	<5	2	88	<20	0.07
BOM06064		10	0.22	83	2	0.06	2	330	7	0.01	<5	1	71	<20	0.05
BOM06065		20	0.39	648	17	0.08	13	130	14	0.02	<5	8	54	<20	0.33
BOM06066		110	0.37	60	2	0.08	26	930	18	0.02	<5	9	185	20	0.22
BOM06067		<10	10.75	118	2	0.04	7	80	4	0.01	<5	2	57	<20	0.04
BOM06068		<10	8.53	107	2	0.03	14	50	17	0.01	<5	1	71	<20	0.02
BOM06069		<10	9.22	74	2	0.03	5	20	9	0.01	<5	1	72	<20	0.01
BOM06070		<10	12.60	105	2	0.02	4	160	<2	0.01	<5	<1	52	<20	0.01
BOM06071		<10	12.50	125	1	0.02	4	660	4	0.01	<5	<1	53	<20	0.01
BOM06072		<10	11.75	264	2	0.03	4	1630	7	0.02	7	1	72	<20	0.01
BOM06073		<10	11.05	80	1	0.02	4	60	3	0.02	<5	<1	80	<20	0.01
BOM06074		<10	11.40	57	1	0.03	5	60	15	0.02	6	<1	81	<20	0.01
BOM06075		<10	10.35	70	1	0.03	7	40	4	0.03	<5	<1	75	<20	<0.01
BOM06076		<10	10.90	120	2	0.03	8	60	7	0.02	<5	<1	70	<20	0.01
BOM06077		<10	9.69	134	1	0.02	5	130	5	0.02	<5	<1	46	<20	<0.01
BOM06251		50	1.52	261	1	0.06	28	700	4	0.03	<5	11	347	20	0.31
BOM06252		30	1.49	257	1	0.07	21	590	5	0.02	5	9	168	<20	0.28
BOM06253		20	0.65	127	<1	0.06	6	180	8	0.01	5	5	130	<20	0.18
BOM06254		20	0.18	66	1	0.02	4	120	4	0.01	<5	2	76	<20	0.10
BOM06255		20	0.16	25	1	0.02	3	140	<2	0.01	<5	1	82	<20	0.02
BOM06256		20	0.09	61	1	0.03	2	90	<2	<0.01	<5	1	37	<20	0.02
BOM06257		10	0.06	113	<1	0.02	3	40	<2	<0.01	<5	<1	12	<20	0.02
BOM06258		10	0.08	97	1	0.03	4	30	<2	<0.01	<5	1	3	<20	0.02
BOM06259		30	0.09	444	1	0.03	3	70	<2	0.01	<5	1	21	20	0.05
BOM06260		30	1.11	123	<1	0.05	10	930	4	<0.01	<5	5	16	20	0.32



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Page: 5 - C

Total # Pages: 6 (A - C)

Finalized Date: 27-OCT-2009

Account: BONDIM

Project: Murphy

CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	ME-MS62s U ppm 0.1	ME-MS62s Th ppm 0.2	ME-MS62s Zr ppm 0.5	PUL-QC Pass75um % 0.01	Au-TL43 Au ppm 0.001	ME-ICP61 Zr ppm 5
BOM06048		<10	318	<10	68	1.4	8.5	174.0		<0.001	
BOM06049		<10	251	<10	78	0.8	4.7	106.5		0.001	
BOM06050		560	30	10	15	>500	36.3	145.5		0.007	
BOM06051		<10	16	10	11	2.0	4.4	135.5		<0.001	
BOM06052		<10	236	<10	69	1.5	4.7	106.5		<0.001	
BOM06053		<10	6	<10	3	1.0	3.6	37.0		<0.001	
BOM06054		<10	9	<10	3	1.3	4.7	53.2		<0.001	
BOM06055		<10	7	<10	5	1.3	7.9	132.0		<0.001	
BOM06056		<10	5	<10	6	1.0	7.2	118.0		<0.001	
BOM06057		<10	8	<10	12	2.3	7.7	131.5		<0.001	
BOM06058		<10	7	<10	16	1.2	10.5	184.0		<0.001	
BOM06059		<10	4	<10	9	1.3	10.7	172.0		<0.001	
BOM06060		<10	6	10	15	2.5	6.7	95.7		<0.001	
BOM06061		<10	5	10	15	2.5	6.3	94.3		<0.001	
BOM06062		<10	6	10	13	1.2	7.3	110.0		<0.001	
BOM06063		<10	11	10	9	4.8	8.0	81.3		<0.001	
BOM06064		<10	7	10	12	1.2	5.6	68.8		0.001	
BOM06065		<10	64	<10	286	1.8	9.1	125.0		<0.001	
BOM06066		<10	93	<10	102	2.9	8.8	102.0		0.001	
BOM06067		<10	16	<10	30	1.1	1.4	15.0		0.001	
BOM06068		<10	6	<10	69	0.6	0.6	5.8		0.001	
BOM06069		<10	4	10	66	0.7	0.4	4.3		0.001	
BOM06070		<10	3	<10	70	0.9	0.3	2.8		0.001	
BOM06071		<10	4	<10	35	2.0	0.3	2.2		0.002	
BOM06072		<10	3	<10	30	1.4	0.4	3.0		0.001	
BOM06073		<10	7	<10	45	2.1	0.3	2.5		0.001	
BOM06074		<10	9	<10	35	1.1	0.3	2.4		0.001	
BOM06075		<10	3	<10	52	0.3	0.2	1.7		0.002	
BOM06076		<10	5	<10	65	0.4	0.3	3.7		0.001	
BOM06077		<10	3	<10	70	0.4	<0.2	1.3		0.001	
BOM06251		<10	62	<10	63	2.9	15.1	168.5		0.002	
BOM06252		<10	55	<10	31	2.3	14.6	165.5		0.004	
BOM06253		<10	26	<10	21	3.2	13.0	159.5		0.001	
BOM06254		<10	28	<10	6	3.1	7.8	161.5		0.002	
BOM06255		<10	16	10	3	1.2	4.4	49.8		0.001	
BOM06256		<10	13	<10	2	1.1	6.2	56.8		0.002	
BOM06257		<10	6	<10	2	1.6	6.0	48.0		0.002	
BOM06258		<10	8	<10	2	1.2	6.8	52.2		0.001	
BOM06259		<10	16	30	3	3.3	16.9	125.5		0.001	
BOM06260		<10	42	10	22	2.8	27.2	107.0		0.001	



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Page: 6 - A

Total # Pages: 6 (A - C)

Finalized Date: 27-OCT-2009

Account: BONDIM

Project: Murphy

CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Ga ppm	ME-ICP61 K %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
BOM06261		2.48	<0.5	3.77	6	110	1.0	<2	0.06	<0.5	7	9	7	1.07	10	1.39
BOM06262		2.54	<0.5	3.73	48	110	1.2	<2	0.10	<0.5	31	13	16	1.08	10	1.34
BOM06263		2.49	<0.5	8.24	7	960	1.8	6	1.34	<0.5	30	16	12	9.31	20	5.39
BOM06264		2.47	<0.5	7.55	6	1280	1.8	<2	0.98	<0.5	31	10	141	5.99	20	4.93
BOM06265		2.49	<0.5	7.03	5	690	2.1	2	1.01	<0.5	37	12	135	7.65	20	3.81
BOM06266		2.52	<0.5	7.88	<5	990	2.0	<2	1.85	<0.5	30	10	148	7.31	20	3.86
BOM06267		2.50	<0.5	8.59	23	1100	3.4	<2	1.01	<0.5	34	9	9	9.81	30	6.42
BOM06268		2.69	<0.5	7.05	<5	1000	2.4	3	0.77	<0.5	21	7	23	8.79	20	4.64
BOM06269		2.49	<0.5	7.72	<5	1060	2.2	<2	1.22	<0.5	23	8	24	8.68	20	5.48
BOM06270		1.89	<0.5	0.11	<5	10	<0.5	<2	17.90	<0.5	2	2	3	0.15	<10	0.05
BOM06271		1.80	<0.5	0.11	<5	10	<0.5	<2	18.00	<0.5	3	1	1	0.26	<10	0.06
BOM06272		1.96	<0.5	0.17	<5	10	<0.5	<2	19.55	<0.5	2	1	1	0.23	<10	0.10
BOM06273		1.97	<0.5	2.58	6	90	1.0	<2	11.85	<0.5	11	15	99	2.45	10	1.56
BOM06274		2.17	<0.5	6.58	<5	190	1.0	<2	2.63	<0.5	36	17	161	8.17	20	1.57
BOM06275		2.34	<0.5	7.72	<5	180	0.8	<2	3.81	<0.5	41	42	76	6.93	20	1.37
BOM06276		2.42	<0.5	7.67	<5	230	0.7	<2	4.10	<0.5	40	40	49	7.03	20	1.01
BOM06277		2.11	<0.5	7.39	<5	330	0.7	<2	3.62	<0.5	37	38	54	7.10	20	2.07
BOM06278		2.54	<0.5	7.75	<5	200	0.8	<2	3.37	<0.5	38	30	85	7.19	20	1.49
BOM06279		2.58	<0.5	7.99	<5	140	0.7	<2	5.81	<0.5	40	35	55	7.05	20	0.97
BOM06280		2.20	<0.5	7.75	<5	140	0.8	<2	4.43	<0.5	40	34	92	6.90	20	0.79
BOM06281		2.22	<0.5	8.39	<5	650	2.0	<2	3.58	<0.5	44	41	38	6.54	20	1.87



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Page: 6 - B

Total # Pages: 6 (A - C)

Finalized Date: 27-OCT-2009

Account: BONDIM

Project: Murphy

CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
BOM06261		70	0.39	64	<1	0.06	4	130	4	0.01	<5	2	18	40	0.07
BOM06262		50	0.45	59	1	0.06	15	70	3	0.03	<5	3	15	40	0.08
BOM06263		30	3.54	1085	1	0.18	16	2410	30	0.02	<5	22	153	<20	1.37
BOM06264		40	3.94	511	2	0.31	14	2850	23	0.16	5	16	67	<20	1.09
BOM06265		30	4.97	474	1	0.32	15	3070	19	0.14	5	15	58	<20	1.19
BOM06266		40	4.30	993	1	0.92	11	3070	13	0.10	<5	16	132	<20	1.20
BOM06267		60	3.56	692	1	0.19	12	3850	8	0.01	<5	16	64	20	1.10
BOM06268		50	3.15	315	1	0.27	9	3360	5	0.09	<5	13	69	<20	0.81
BOM06269		60	3.55	779	2	0.17	11	3430	7	0.11	<5	14	83	20	1.04
BOM06270		<10	11.35	134	<1	0.04	2	220	3	0.01	<5	<1	54	<20	0.01
BOM06271		<10	11.75	185	1	0.05	6	110	12	0.01	<5	<1	47	<20	0.01
BOM06272		<10	10.30	139	<1	0.02	4	290	8	0.01	<5	<1	43	<20	0.01
BOM06273		10	7.78	2670	1	0.04	11	290	13	0.06	5	6	65	<20	0.18
BOM06274		10	3.37	886	1	2.97	30	590	7	0.01	<5	31	77	<20	0.80
BOM06275		10	3.91	1220	2	3.42	44	430	17	0.01	<5	38	140	<20	0.56
BOM06276		10	4.20	979	1	3.48	40	420	6	0.01	<5	38	161	<20	0.54
BOM06277		10	3.98	1220	1	3.07	40	420	7	0.01	<5	37	168	<20	0.54
BOM06278		10	4.37	1410	1	3.36	36	460	7	0.01	<5	39	171	<20	0.59
BOM06279		10	4.10	1020	1	1.85	38	390	3	0.07	<5	39	160	<20	0.42
BOM06280		10	4.89	407	2	1.50	38	450	4	0.27	<5	38	182	<20	0.56
BOM06281		10	5.78	321	1	1.38	46	450	17	0.03	5	41	135	<20	0.52



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Page: 6 - C

Total # Pages: 6 (A - C)

Finalized Date: 27-OCT-2009

Account: BONDIM

Project: Murphy

CERTIFICATE OF ANALYSIS TV09112836

Sample Description	Method Analyte Units LOR	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	ME-MS62s U ppm 0.1	ME-MS62s Th ppm 0.2	ME-MS62s Zr ppm 0.5	PUL-QC Pass75um % 0.01	Au-TL43 Au ppm 0.001	ME-ICP61 Zr ppm 5
BOM06261		<10	19	10	3	3.0	46.6	161.5		0.003	
BOM06262		<10	22	10	12	4.8	45.9	147.0		0.001	
BOM06263		<10	231	10	74	3.8	5.9	232		0.001	
BOM06264		<10	123	<10	79	3.4	11.5	429		0.001	
BOM06265		<10	154	<10	64	2.2	6.8	311		0.001	
BOM06266		<10	144	<10	38	2.3	8.3	324		0.002	
BOM06267		<10	101	<10	67	3.5	12.9	453		0.001	
BOM06268		<10	93	<10	50	3.8	13.6	486		0.001	
BOM06269		<10	100	<10	51	3.3	11.9	442		0.001	
BOM06270		<10	5	<10	19	1.2	0.2	4.1		0.001	
BOM06271		<10	4	<10	56	0.3	0.2	4.5		0.001	
BOM06272		<10	7	<10	33	1.1	0.3	6.9		0.001	
BOM06273		<10	39	<10	20	1.1	5.9	79.3		0.001	
BOM06274		<10	344	<10	58	1.3	7.4	152.5		0.001	
BOM06275		<10	261	<10	74	0.9	5.3	109.0		0.001	
BOM06276		<10	250	<10	69	0.8	4.8	103.0		0.001	
BOM06277		<10	252	<10	73	0.8	4.7	104.0		<0.001	
BOM06278		<10	265	<10	90	0.8	5.3	115.0		0.001	
BOM06279		<10	248	<10	66	0.7	4.5	94.3		<0.001	
BOM06280		<10	267	<10	48	0.8	4.9	111.0		<0.001	
BOM06281		<10	273	<10	25	0.8	4.9	105.0		0.001	