



Australian Laboratory Services Pty. Ltd.
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CERTIFICATE AD11212464

Project: Oonah
P.O. No.: 111004
This report is for 137 Drill Core samples submitted to our lab in Adelaide, SA, Australia on 17-OCT-2011.

The following have access to data associated with this certificate:

RUSSELL FULTON

MICHAEL HANNINGTON

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
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
CRU-21	Crush entire sample >70% -6 mm
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-MS62s	Up to 54 elements by ICP-MS	ICP-MS
ME-XRF15b	Various elements in ores by fusion XRF	XRF
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: TNT MINES LTD
ATTN: RUSSELL FULTON
2/34 COLIN STREET
WEST PERTH WA 6005

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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 Total # Pages: 5 (A - C)
 Finalized Date: 9-NOV-2011
 Account: TNTMIN

Project: Oonah

CERTIFICATE OF ANALYSIS AD11212464

Sample Description	Method Analyte Units LOR	WEI-21	PUL-QC	ME-ICP61												
		Recvd Wt. kg	Pass75um %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
22500		3.88		11.3	6.68	234	70	2.2	12	0.47	13.6	39	158	77	16.00	20
22501		3.36		2.6	7.93	26	170	3.5	12	0.59	10.5	28	210	39	11.55	20
22502		3.43		3.2	7.65	17	150	3.1	11	0.55	6.2	29	202	72	10.10	20
22503		2.47		3.8	6.75	46	160	3.6	13	0.54	1.0	44	168	42	12.05	20
22504		2.22	87.0	1.7	8.48	16	190	4.7	14	0.64	3.6	33	223	52	8.90	30
22505		2.13		2.8	6.71	38	130	2.9	12	0.68	2.9	23	173	37	10.40	30
22506		2.30		0.8	6.61	29	120	2.9	6	0.57	2.1	34	168	32	9.42	30
22507		1.01		<0.5	6.62	17	130	5.2	7	0.53	<0.5	31	188	38	7.50	30
22508		3.39		1.3	7.21	21	90	3.2	8	0.64	1.2	21	192	29	11.95	20
22509		3.46		3.4	5.53	34	110	3.0	8	0.50	1.2	33	166	45	12.95	20
22510		3.89		3.9	6.46	34	60	2.6	10	0.66	3.7	27	175	38	15.55	20
22511		3.88		6.6	6.68	16	90	2.8	9	0.67	1.2	24	171	40	13.80	20
22512		2.36		0.9	8.25	10	170	5.9	11	0.66	0.8	48	262	64	7.65	20
22513		3.42		2.2	6.51	96	100	3.7	12	0.72	3.2	29	165	43	11.45	20
22514		2.73		2.2	5.63	66	90	2.6	12	0.53	1.3	30	172	44	12.20	20
22515		3.10		<0.5	8.42	8	240	5.1	8	1.01	<0.5	36	223	52	9.14	20
22516		2.61		0.5	7.34	7	320	3.8	8	0.97	<0.5	36	213	56	9.49	20
22517		3.69		0.5	7.53	11	250	4.4	10	0.98	<0.5	38	193	42	12.10	20
22518		3.05		0.9	7.21	5	180	4.7	18	0.94	<0.5	32	184	35	11.75	20
22519		3.47		1.6	6.63	25	110	4.4	6	0.86	2.4	36	179	47	10.55	20
22520		3.63		0.7	6.53	<5	110	3.5	9	1.41	<0.5	33	169	34	11.15	20
22521		4.08		1.4	5.83	<5	60	3.5	8	0.86	2.1	23	141	17	14.80	20
22522		4.63		10.7	5.26	2530	80	3.2	17	0.79	1.7	24	109	173	16.30	20
22523		6.04		4.0	6.33	68	70	2.8	11	0.77	2.6	16	129	37	15.20	20
22524		4.56		9.1	4.56	2440	110	1.6	18	0.42	1.3	25	102	280	19.65	10
22525		4.19		3.0	6.04	78	70	2.0	12	0.66	0.5	26	157	58	15.75	20
22526		4.39		12.8	5.57	110	80	1.6	5	0.54	<0.5	31	134	100	15.55	20
22527		4.13		5.0	5.78	181	70	1.5	12	0.61	<0.5	21	148	87	13.80	20
22528		4.17		7.4	7.19	217	90	2.1	23	0.84	<0.5	19	173	406	14.20	20
22529		4.10		2.6	6.28	72	110	1.8	13	0.77	<0.5	19	159	59	13.90	20
22530		4.44		2.2	7.24	63	180	2.1	12	0.72	<0.5	21	181	76	13.20	20
22531		4.16		5.9	5.77	218	60	1.8	16	0.55	<0.5	31	176	224	16.10	20
22532		4.27		4.2	4.26	3610	90	1.2	13	0.37	<0.5	39	117	186	20.6	20
22533		4.30		0.9	6.11	52	40	1.9	13	0.62	<0.5	23	160	16	16.05	20
22534		3.71		1.0	5.52	60	40	1.6	11	0.57	<0.5	20	152	22	14.20	20
22535		4.13		0.6	6.98	36	40	2.3	9	0.70	<0.5	15	196	15	17.90	20
22536		4.11		1.9	6.50	129	50	2.4	8	0.63	<0.5	33	152	54	18.00	20
22537		3.98		1.1	6.63	70	40	3.4	7	0.69	<0.5	39	195	32	17.45	20
22538		4.54		2.0	6.16	1090	60	3.9	11	0.71	<0.5	20	173	56	16.60	20
22539		4.11		2.1	5.07	268	50	2.4	9	0.45	<0.5	61	101	40	19.25	20



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CERTIFICATE OF ANALYSIS AD11212464

Sample Description	Method Analyte Units LOR	ME-ICP61														
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
22500		0.68	50	1.75	1770	<1	0.01	162	2510	3910	4.19	35	15	52	<20	1.64
22501		1.42	70	2.51	2070	<1	0.01	160	3160	1530	0.41	20	20	113	<20	2.20
22502		1.45	60	3.66	1770	<1	0.01	174	2680	1860	0.58	9	21	79	<20	2.12
22503		1.45	50	2.60	572	<1	0.01	209	2560	548	7.07	14	19	61	<20	1.87
22504		1.76	70	3.48	1110	<1	0.01	183	3170	790	0.87	13	23	75	<20	2.41
22505		1.28	50	3.20	2100	<1	0.01	142	3130	772	1.57	16	18	45	<20	1.87
22506		1.13	50	3.78	1500	<1	0.01	199	2650	448	0.95	8	18	41	<20	1.86
22507		1.01	50	3.26	335	<1	0.01	176	2520	61	0.23	<5	16	47	<20	1.99
22508		0.97	50	2.95	2110	<1	0.01	134	2950	756	0.44	11	19	43	<20	1.98
22509		0.64	40	2.83	1435	<1	0.01	151	2360	899	1.92	26	12	53	<20	1.74
22510		0.09	50	3.16	1895	<1	0.01	148	3020	1800	1.13	8	15	63	<20	1.66
22511		0.73	50	2.72	2060	<1	0.01	134	3070	4550	1.59	18	16	53	<20	1.78
22512		1.76	50	4.59	488	<1	0.01	217	3150	161	0.18	8	22	48	<20	2.51
22513		0.96	50	3.41	1755	<1	0.01	154	3280	1020	1.66	7	16	52	<20	1.83
22514		0.76	40	3.08	2470	<1	0.02	156	2360	993	1.81	13	12	34	<20	1.78
22515		1.89	60	3.75	3240	<1	0.23	192	4270	22	0.10	<5	24	72	<20	2.37
22516		2.06	50	3.14	3330	<1	0.02	183	4060	22	0.12	<5	17	57	<20	2.22
22517		1.94	60	3.40	5630	<1	0.02	174	3780	70	0.13	<5	20	58	<20	2.08
22518		1.92	50	3.19	6670	<1	0.02	168	3700	342	0.30	7	19	54	<20	2.06
22519		1.26	50	3.38	5040	<1	0.27	160	3490	1210	0.44	6	16	61	<20	2.02
22520		1.29	50	3.52	4850	<1	0.45	168	3190	210	0.63	5	17	67	<20	1.81
22521		0.82	50	3.11	8430	<1	0.01	144	2980	785	0.45	6	14	38	<20	1.61
22522		1.22	40	1.65	10100	<1	0.02	135	3120	1700	4.59	80	14	43	<20	1.33
22523		1.05	40	1.52	6510	<1	0.02	151	3140	1560	0.59	16	14	56	<20	1.58
22524		1.40	30	0.53	3010	<1	0.02	93	1880	1740	>10.0	71	11	112	<20	1.16
22525		1.04	40	1.74	3260	<1	0.01	154	3030	492	4.89	9	14	124	<20	1.66
22526		1.52	40	0.83	2320	<1	0.02	165	2520	3640	8.25	18	13	120	<20	1.27
22527		1.53	40	1.03	1670	<1	0.02	129	2660	1130	6.98	32	14	125	<20	1.56
22528		1.76	50	1.21	3010	<1	0.02	154	3490	248	3.68	11	17	186	<20	1.89
22529		1.48	40	1.18	1805	<1	0.02	142	3660	194	6.07	7	14	180	<20	1.79
22530		2.32	50	0.65	1620	<1	0.04	147	3430	230	6.87	5	17	220	<20	2.03
22531		2.09	30	0.34	1600	<1	0.05	193	2720	339	>10.0	32	13	244	<20	1.57
22532		0.90	30	0.57	2910	<1	0.06	100	1640	275	>10.0	50	11	90	<20	1.08
22533		0.08	50	2.59	2170	<1	0.01	128	2840	143	1.87	5	14	128	<20	1.71
22534		0.26	40	2.13	1945	<1	0.01	128	2620	155	1.29	<5	11	119	<20	1.65
22535		0.08	50	2.64	2200	<1	0.01	136	3230	184	0.37	<5	14	135	<20	1.98
22536		0.21	50	2.72	2240	<1	0.02	138	2900	215	2.88	12	15	107	<20	1.78
22537		0.06	50	3.06	2120	<1	0.01	178	3150	213	1.37	11	14	123	<20	1.90
22538		0.43	40	1.82	2890	<1	0.05	161	2850	199	2.10	24	13	88	<20	1.63
22539		0.33	30	1.60	2500	<1	0.06	213	1830	237	7.48	30	12	48	<20	1.10



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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ag-OG62	ME-MS62s	ME-XRF15b	ME-XRF15b	ME-XRF15b	ME-XRF15b	ME-ICP61
		Tl	U	V	W	Zn	Ag	In	Cu	Pb	Sn	Zn	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	ppm
		10	10	1	10	2	1	0.005	0.001	0.005	0.005	0.001	10
22500		10	<10	158	20	3000		12.45				0.057	70
22501		10	<10	191	10	1965		3.69				0.012	50
22502		10	<10	185	10	1560		4.15				0.014	70
22503		10	<10	165	<10	654		1.900				0.033	80
22504		<10	<10	215	10	1215		2.04				0.015	90
22505		10	<10	159	10	940		2.49				0.024	120
22506		10	<10	157	10	765		2.94				0.010	50
22507		<10	<10	196	10	338		0.205				<0.005	10
22508		10	<10	174	10	614		2.91				0.010	50
22509		<10	<10	152	10	557		2.55				0.032	30
22510		<10	<10	153	10	1045		4.99				0.033	40
22511		10	<10	161	20	545		2.89				0.012	50
22512		10	<10	227	<10	620		0.662				0.008	30
22513		10	<10	162	10	1060		4.76				0.025	40
22514		10	<10	159	10	653		3.38				0.052	50
22515		10	<10	194	10	180		0.221				0.006	10
22516		10	<10	200	10	210		0.168				0.005	10
22517		<10	<10	188	10	195		0.216				0.005	10
22518		10	<10	194	10	353		0.836				0.011	30
22519		10	<10	181	10	924		1.625				0.009	30
22520		10	<10	171	<10	306		0.505				0.046	30
22521		<10	<10	149	10	762		1.985				0.019	50
22522		<10	<10	127	10	567		17.20				0.454	70
22523		10	<10	159	10	832		7.03				0.047	70
22524		10	<10	104	10	482		10.75				0.053	100
22525		<10	<10	160	<10	310		3.14				0.075	90
22526		<10	<10	135	10	182		4.04				0.153	120
22527		10	<10	142	<10	175		5.53				0.136	110
22528		10	<10	180	10	90		5.83				0.186	260
22529		<10	<10	169	<10	102		1.885				0.073	70
22530		10	<10	184	10	62		1.785				0.057	90
22531		10	<10	142	<10	45		3.54				0.181	110
22532		10	<10	106	10	62		4.93				0.153	100
22533		10	<10	160	<10	107		1.825				0.015	30
22534		10	<10	148	<10	112		1.935				0.022	40
22535		10	<10	177	<10	116		1.735				0.028	30
22536		10	<10	167	10	178		3.57				0.054	40
22537		10	<10	172	10	144		3.09				0.067	40
22538		10	<10	149	20	162		4.18				0.086	60
22539		<10	<10	133	20	89		4.50				0.157	70



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	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
		0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
22540		3.94		8.5	5.83	594	130	2.0	14	0.56	<0.5	26	132	100	17.15	20
22541		4.50		15.3	5.63	1280	70	2.9	10	0.57	<0.5	37	135	66	17.30	20
22542		4.41		2.7	5.42	321	80	3.2	16	0.50	<0.5	19	124	126	16.75	30
22543		2.89		68.8	2.64	>10000	60	1.0	318	0.11	<0.5	64	72	1530	18.35	20
22544		4.41	95.0	36.0	5.19	4930	100	2.1	152	0.43	<0.5	21	136	3210	10.60	30
22545		3.64		11.4	5.07	3310	160	1.7	24	0.33	<0.5	29	133	189	12.75	30
22546		3.36		88.7	3.04	2190	90	2.2	109	0.18	105.5	27	13	857	22.0	10
22547		2.23		42.0	1.89	3130	70	1.2	85	0.05	6.6	22	15	3000	15.85	10
22548		3.23		9.1	5.21	5690	120	3.1	18	0.09	4.4	35	34	527	14.00	20
22549		3.14		>100	3.37	1350	60	2.8	97	0.20	257	32	10	3090	21.8	10
22550		3.29		7.0	5.77	2140	140	1.9	16	0.01	1.3	14	39	338	10.00	20
22551		4.25		6.9	6.25	2570	300	2.1	21	0.02	2.9	16	42	1280	9.29	30
22552		0.08		1.8	5.52	788	210	6.1	320	1.93	1.1	20	94	2380	13.45	30
22553		3.93		71.5	1.82	2400	70	0.7	54	0.01	0.8	17	31	1820	22.9	10
22554		2.00		18.3	2.24	1430	90	0.9	21	0.01	1.7	12	43	588	13.60	10
22555		1.66		8.1	4.94	3050	80	2.4	44	0.03	0.5	17	56	525	13.80	20
22556		3.11		6.7	6.54	1615	90	2.8	46	0.01	<0.5	17	64	153	11.80	20
22557		3.63		4.2	5.72	1115	130	2.7	39	0.01	<0.5	13	55	34	15.15	20
22558		2.48		69.2	0.90	5900	30	1.2	200	0.06	5.9	33	8	3590	24.7	<10
22559		2.79		4.8	6.70	1910	340	2.9	36	0.03	<0.5	15	53	66	9.59	20
22560		3.74		1.9	6.68	800	160	2.5	13	0.04	<0.5	9	45	41	8.02	20
22561		3.76		1.8	6.49	752	340	2.4	12	0.04	<0.5	10	44	40	7.78	20
22562		3.18		1.1	5.09	581	280	2.2	7	0.02	<0.5	11	36	32	5.98	20
22563		4.23		0.7	5.02	573	270	2.1	7	0.02	<0.5	9	33	30	5.96	20
22564		3.59		2.5	3.01	1290	150	1.0	5	0.01	<0.5	10	21	133	7.08	10
22565		3.48		<0.5	3.69	84	190	1.2	5	0.03	<0.5	5	23	11	3.51	10
22566		0.08		1.2	7.96	167	400	3.7	350	5.36	<0.5	18	84	1550	7.25	20
22567		3.74		<0.5	2.86	60	150	0.9	4	0.02	<0.5	4	20	11	3.06	10
22568		3.32		<0.5	5.14	47	290	2.1	<2	0.06	<0.5	4	31	14	2.69	10
22569		2.98		<0.5	2.06	63	70	1.1	3	0.06	<0.5	3	12	33	4.96	10
22570		2.15		1.5	5.31	57	290	2.0	<2	0.02	<0.5	11	40	30	3.36	20
22571		1.16		1.3	5.16	223	260	2.0	4	0.01	<0.5	11	37	17	4.16	20
22572		1.64		57.4	1.40	>10000	60	0.5	92	0.01	2.0	8	14	5840	16.95	10
22573		3.71		0.7	3.71	211	180	1.2	6	0.02	<0.5	4	26	29	4.95	20
22574		3.82		4.2	6.55	1185	120	2.3	14	0.04	1.6	8	47	483	8.25	20
22575		2.93		0.7	7.53	863	440	2.4	6	0.04	<0.5	8	51	28	5.47	20
22576		2.94		0.8	7.69	74	480	2.8	6	0.04	<0.5	10	54	39	3.20	30
22577		1.73		1.0	7.96	174	500	2.8	7	0.05	<0.5	7	55	87	3.35	20
22578		1.78		13.0	1.50	4840	70	0.5	18	0.02	<0.5	14	11	1810	23.8	10
22579		0.08		1.2	5.34	607	360	10.3	249	1.92	2.3	24	95	1480	15.65	30



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CERTIFICATE OF ANALYSIS AD11212464

Sample Description	Method Analyte Units LOR	ME-ICP61														
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
22540		1.61	40	0.70	1555	<1	0.12	147	2430	2080	6.86	39	13	107	<20	1.46
22541		0.61	40	1.09	1645	<1	0.06	155	2400	4780	3.93	43	13	68	<20	1.45
22542		1.31	30	0.65	3540	<1	0.06	134	1980	108	5.59	19	14	68	<20	1.37
22543		1.02	20	0.13	398	<1	0.03	115	520	272	>10.0	185	7	17	<20	0.73
22544		2.11	40	0.40	1740	<1	0.04	128	1820	165	5.96	57	13	77	<20	1.39
22545		1.97	20	0.19	217	12	0.10	141	1500	128	>10.0	71	10	24	<20	1.33
22546		0.84	10	0.97	4780	<1	0.05	8	80	>10000	>10.0	67	4	23	<20	0.08
22547		0.66	10	0.31	1495	<1	0.03	6	50	2140	>10.0	101	3	16	<20	0.05
22548		2.17	20	0.27	2890	<1	0.07	16	210	856	>10.0	73	8	49	<20	0.16
22549		0.52	10	0.98	5690	<1	0.04	7	70	>10000	>10.0	100	3	11	<20	0.05
22550		2.65	30	0.27	475	<1	0.07	14	100	342	>10.0	45	8	27	<20	0.20
22551		2.81	30	0.30	470	<1	0.07	19	120	427	9.01	23	8	26	<20	0.21
22552		0.44	30	0.29	866	2	0.36	45	410	57	0.05	42	11	95	<20	0.43
22553		0.75	10	0.12	334	1	0.02	10	40	1120	>10.0	224	3	10	<20	0.05
22554		0.85	10	0.11	262	3	0.03	21	50	1010	>10.0	71	3	15	<20	0.08
22555		1.78	30	0.30	1240	2	0.07	30	110	217	>10.0	34	7	34	<20	0.16
22556		2.75	40	0.27	425	3	0.08	40	120	354	>10.0	32	10	38	<20	0.25
22557		2.37	30	0.22	419	2	0.07	39	110	203	>10.0	21	9	36	<20	0.22
22558		0.23	<10	0.21	2000	<1	0.02	14	40	1370	>10.0	96	2	7	<20	0.02
22559		2.81	30	0.33	825	1	0.09	36	110	142	8.75	32	10	30	<20	0.24
22560		2.80	40	0.28	546	<1	0.09	13	230	49	7.26	6	10	32	<20	0.29
22561		2.71	30	0.27	526	<1	0.09	13	220	44	7.02	<5	10	31	<20	0.29
22562		2.09	30	0.20	722	<1	0.07	14	120	43	5.13	10	8	31	<20	0.26
22563		2.05	30	0.20	743	<1	0.07	14	110	42	5.06	6	8	31	<20	0.26
22564		1.23	20	0.11	159	<1	0.04	11	80	165	6.76	22	5	25	<20	0.15
22565		1.53	30	0.15	228	<1	0.05	12	150	16	2.67	<5	6	24	<20	0.24
22566		1.98	70	0.58	862	1	0.47	45	440	28	0.05	28	14	231	20	0.51
22567		1.17	20	0.11	181	<1	0.04	9	90	31	2.29	<5	4	25	<20	0.19
22568		2.13	30	0.26	602	<1	0.08	8	240	10	0.64	<5	8	33	<20	0.28
22569		0.63	20	0.23	1660	<1	0.06	7	130	13	1.29	<5	3	23	<20	0.12
22570		2.22	30	0.25	553	<1	0.08	30	110	52	1.98	8	9	29	<20	0.25
22571		2.08	30	0.18	149	1	0.09	24	110	33	3.53	5	8	33	<20	0.28
22572		0.53	10	0.05	175	<1	0.03	8	50	647	>10.0	273	3	10	<20	0.06
22573		1.47	30	0.12	155	<1	0.06	11	130	21	4.47	<5	6	28	<20	0.25
22574		3.07	30	0.29	321	2	0.10	12	210	224	7.92	10	10	30	<20	0.28
22575		3.48	40	0.29	136	2	0.10	16	260	18	5.44	6	12	27	20	0.36
22576		3.66	40	0.29	69	2	0.11	20	300	19	3.06	6	13	35	20	0.37
22577		3.91	40	0.30	77	2	0.11	16	340	22	3.25	<5	13	34	20	0.36
22578		0.61	10	0.10	250	<1	0.03	10	30	391	>10.0	62	3	6	<20	0.04
22579		0.52	10	0.19	2630	2	0.34	44	430	53	0.06	47	11	96	<20	0.42



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CERTIFICATE OF ANALYSIS AD11212464

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ag-OG62	ME-MS62s	ME-XRF15b	ME-XRF15b	ME-XRF15b	ME-XRF15b	ME-ICP61	
		Tl	U	V	W	Zn	Ag	In	Cu	Pb	Sn	Zn	Sn	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	ppm	
		10	10	1	10	2	1	0.005	0.001	0.005	0.005	0.001	10	
22540		10	<10	135	20	57		5.90				0.220	90	
22541		10	<10	136	10	102		23.3				0.051	50	
22542		10	<10	132	20	87		8.96				0.508	110	
22543		10	<10	65	30	113		10.15				0.507	710	
22544		10	<10	131	40	167		15.50				0.903	960	
22545		10	<10	106	40	81		2.21				0.790	130	
22546		<10	<10	21	40	>10000		44.8		3.73		0.023	2.21	50
22547		<10	<10	17	<10	1365		15.20				0.536	320	
22548		<10	<10	53	10	1075		12.00				0.045	190	
22549		<10	<10	19	<10	>10000	109	99.3		4.20		0.018	5.03	50
22550		<10	<10	59	10	279		7.01				0.033	100	
22551		<10	<10	61	10	669		11.75				0.024	50	
22552		<10	<10	151	50	3390		32.3				0.610	3820	
22553		<10	<10	40	<10	200		27.5				0.204	420	
22554		<10	<10	55	10	270		12.65				0.123	180	
22555		<10	<10	80	10	171		6.84				0.034	50	
22556		<10	<10	117	10	53		1.645				0.318	40	
22557		<10	<10	94	10	35		2.11				0.025	30	
22558		<10	<10	10	10	1400		23.5				0.087	160	
22559		<10	<10	88	10	51		1.200				0.100	40	
22560		<10	<10	67	10	24		0.958				0.032	30	
22561		<10	<10	65	10	24		0.940				0.028	40	
22562		<10	<10	59	10	29		1.770				0.013	30	
22563		<10	<10	56	10	29		1.765				0.009	30	
22564		<10	<10	27	<10	38		2.76				0.098	90	
22565		<10	<10	32	10	11		0.789				0.068	50	
22566		<10	<10	81	20	1700		10.60				0.170	1500	
22567		<10	<10	24	<10	14		0.538				0.074	60	
22568		<10	<10	47	10	15		1.215				0.028	20	
22569		<10	<10	17	<10	36		2.04				0.025	20	
22570		<10	<10	54	10	27		0.995				0.012	20	
22571		<10	<10	57	10	12		0.668				0.026	30	
22572		<10	<10	14	190	194		95.2				0.553	2020	
22573		<10	<10	34	10	6		0.859				0.015	30	
22574		<10	<10	70	10	380		6.54				0.129	60	
22575		<10	<10	84	10	19		1.270				0.036	40	
22576		<10	<10	85	10	13		1.010				0.071	40	
22577		<10	<10	87	10	18		1.430				0.063	50	
22578		<10	<10	16	10	113		37.0				0.267	310	
22579		<10	<10	153	60	2380		42.7				1.050	5930	



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Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	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
Sample Description	0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
22580	4.70		0.9	5.09	146	250	2.0	10	0.04	<0.5	13	36	31	4.96	10
22581	3.38		<0.5	5.25	41	240	2.3	12	0.08	<0.5	7	34	26	4.49	10
22582	3.07		2.0	6.56	1065	340	2.4	13	0.03	<0.5	13	43	40	5.52	20
22583	3.66		3.7	5.01	3270	140	1.8	15	0.03	<0.5	12	36	170	8.46	20
22584	3.73	99.0	1.5	5.23	247	270	1.8	10	0.03	<0.5	10	38	15	4.67	20
22585	3.84		0.6	3.28	847	150	1.0	7	0.03	<0.5	4	21	5	3.43	10
22586	3.67		11.6	3.28	2180	140	1.0	23	0.02	<0.5	13	23	330	6.14	10
22587	4.20		1.3	6.38	310	340	2.1	8	0.02	<0.5	10	46	21	4.50	20
22588	1.65		11.6	1.03	>10000	40	<0.5	52	0.01	<0.5	17	12	1140	22.1	10
22589	3.29		4.3	3.38	696	160	1.1	7	0.01	<0.5	8	22	28	4.20	10
22590	2.62		<0.5	4.67	318	240	1.4	7	0.01	<0.5	4	30	4	3.30	20
22591	3.97		0.8	6.16	998	310	2.0	3	0.03	<0.5	11	41	14	4.48	20
22592	1.99		7.0	6.28	289	40	2.0	10	0.85	3.1	66	151	43	16.45	20
22593	3.84		5.4	7.31	150	80	2.4	10	0.88	9.2	31	190	30	13.15	20
22594	3.69		3.8	7.54	96	70	2.7	10	0.78	7.0	25	197	31	12.75	30
22595	3.15		3.6	7.14	26	130	3.8	10	0.85	9.2	23	213	31	9.45	20
22596	0.73		12.1	7.51	62	170	3.0	11	0.76	12.4	28	186	40	5.65	20
22597	3.34		15.0	7.02	819	120	2.7	7	0.77	13.5	25	190	82	10.05	30
22598	1.88		9.7	5.54	130	100	2.1	7	0.51	<0.5	42	128	66	15.80	20
22599	0.08		1.3	4.99	571	350	9.9	242	1.83	1.9	21	88	1420	15.10	30
22600	3.92		6.1	7.03	44	100	3.9	11	0.70	12.1	37	213	31	11.50	20
22601	4.25		6.4	7.18	66	140	3.8	13	0.78	1.6	36	178	38	13.20	20
22602	3.93		8.1	7.13	70	140	4.1	18	0.79	1.6	40	190	43	12.90	20
22603	3.02		8.4	6.96	80	160	2.9	11	0.71	<0.5	36	169	70	12.10	30
22604	4.10		12.7	6.40	77	180	3.0	11	0.65	<0.5	27	161	72	15.55	20
22605	3.05		6.9	7.32	61	230	3.2	13	0.65	1.1	28	191	36	12.40	20
22606	4.13		20.5	5.60	2050	120	2.5	16	0.51	1.8	30	133	163	17.85	20
22607	4.28		10.5	6.07	41	180	2.9	7	0.54	3.3	33	142	61	16.40	20
22608	3.11		5.2	6.83	53	220	3.3	12	0.52	<0.5	25	169	54	15.05	20
22609	2.95		9.5	6.08	558	170	2.7	17	0.51	0.5	25	152	169	17.40	20
22610	2.14		3.2	4.43	102	110	1.8	4	0.04	<0.5	10	42	21	9.48	10
22611	2.24		4.6	6.59	73	150	2.2	5	0.02	<0.5	17	105	38	6.92	20
22612	3.56		3.6	5.65	156	130	2.1	7	0.03	<0.5	11	115	37	10.50	20
22613	0.08		1.6	5.44	777	210	6.1	317	1.94	1.2	18	94	2350	13.35	20
22614	3.49		27.0	4.32	2180	70	1.6	106	0.01	0.9	17	107	1700	20.5	10
22615	4.41		>100	3.87	4250	40	1.1	337	0.02	5.9	18	111	>10000	18.75	10
22616	1.67		>100	3.59	4140	70	1.0	323	0.02	5.6	18	106	>10000	18.05	10
22617	3.40		>100	4.25	1895	100	1.1	484	0.02	4.7	10	37	9380	10.70	10
22618	3.66		3.7	6.80	525	70	1.8	25	0.02	<0.5	11	56	84	11.75	20
22619	2.00		3.4	5.42	156	260	1.8	6	0.03	<0.5	11	62	124	6.07	20



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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	ME-ICP61
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	20	0.01	
22580		2.04	30	0.28	626	<1	0.09	23	130	25	2.72	7	8	26	<20	0.25
22581		1.96	30	0.33	1020	<1	0.10	13	260	16	0.80	<5	8	25	<20	0.28
22582		2.76	30	0.26	152	<1	0.10	21	210	201	5.31	9	10	37	<20	0.29
22583		2.14	30	0.22	445	<1	0.07	24	140	104	7.92	42	8	26	<20	0.20
22584		2.28	30	0.21	212	<1	0.07	24	170	29	4.27	12	8	28	<20	0.25
22585		1.41	20	0.11	167	<1	0.04	9	180	12	2.97	<5	5	22	<20	0.20
22586		1.34	20	0.15	521	<1	0.05	12	80	227	5.15	29	5	24	<20	0.16
22587		2.81	30	0.24	188	<1	0.09	21	160	48	4.13	9	10	32	<20	0.28
22588		0.39	10	0.04	96	<1	0.02	7	40	554	>10.0	759	2	11	<20	0.03
22589		1.36	20	0.14	195	<1	0.06	17	90	1750	3.88	17	5	27	<20	0.18
22590		1.99	30	0.18	115	<1	0.07	9	90	19	2.94	<5	7	28	<20	0.24
22591		2.71	30	0.23	239	<1	0.08	20	200	38	3.69	15	10	34	<20	0.27
22592		0.51	60	2.55	1810	<1	0.01	230	3830	2470	6.56	28	18	33	<20	1.68
22593		1.64	60	1.18	3190	<1	0.01	157	3920	2550	1.85	12	17	39	<20	2.03
22594		1.08	50	2.47	2790	<1	0.01	163	3540	2130	0.83	11	19	35	<20	2.09
22595		1.65	50	2.82	1450	<1	0.01	165	3930	1980	0.51	16	17	55	<20	2.26
22596		2.77	40	1.03	486	<1	0.02	128	3440	5790	2.42	43	16	68	<20	1.90
22597		2.32	50	1.46	988	<1	0.01	167	3540	3010	4.21	39	16	51	<20	2.06
22598		1.80	40	0.94	745	<1	0.02	130	2320	1500	>10.0	41	12	59	<20	1.12
22599		0.50	10	0.18	2490	1	0.32	40	420	51	0.05	39	9	92	<20	0.40
22600		1.37	50	2.94	1420	<1	0.01	162	3330	2450	1.49	17	17	113	<20	2.03
22601		1.84	60	2.22	1510	<1	0.01	154	3620	2080	5.07	33	18	117	<20	1.95
22602		1.91	50	2.30	1865	<1	0.02	175	3660	2370	4.52	32	18	113	<20	1.95
22603		3.18	40	0.51	1150	<1	0.02	146	3200	1650	9.96	26	16	83	<20	1.75
22604		2.86	40	0.68	2720	<1	0.02	154	2850	2850	8.03	40	16	83	<20	1.62
22605		3.21	50	0.63	1825	<1	0.03	184	2940	2080	7.15	50	18	86	<20	1.79
22606		2.55	30	0.41	2450	<1	0.03	147	2220	7100	>10.0	77	13	56	<20	1.18
22607		2.70	40	0.57	3420	<1	0.03	166	2410	2700	7.82	34	14	81	<20	1.25
22608		2.89	50	0.65	3420	<1	0.03	185	2310	852	5.86	22	18	95	<20	1.67
22609		2.73	30	0.36	1255	<1	0.03	149	2280	1260	>10.0	42	16	57	<20	1.39
22610		1.86	30	0.20	164	<1	0.04	22	260	322	9.29	20	7	23	<20	0.20
22611		2.98	30	0.39	585	1	0.04	68	180	142	6.57	25	11	19	<20	0.22
22612		2.53	30	0.34	850	6	0.04	62	180	236	>10.0	25	9	20	<20	0.19
22613		0.42	20	0.28	864	1	0.35	48	390	51	0.05	42	12	97	<20	0.42
22614		1.83	20	0.23	1210	7	0.03	56	120	299	>10.0	84	7	16	<20	0.14
22615		1.60	20	0.18	229	9	0.03	52	150	593	>10.0	212	6	15	<20	0.09
22616		1.50	20	0.17	220	9	0.03	50	150	570	>10.0	195	6	13	<20	0.10
22617		1.68	20	0.20	411	<1	0.05	20	90	384	>10.0	190	6	16	<20	0.12
22618		2.90	30	0.27	202	<1	0.07	25	180	77	>10.0	22	9	22	<20	0.25
22619		2.26	30	0.33	559	2	0.05	36	170	51	5.09	16	10	24	<20	0.24



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CERTIFICATE OF ANALYSIS AD11212464

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ag-OG62	ME-MS62s	ME-XRF15b	ME-XRF15b	ME-XRF15b	ME-XRF15b	ME-ICP61
		Tl	U	V	W	Zn	Ag	In	Cu	Pb	Sn	Zn	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	ppm
		10	10	1	10	2	1	0.005	0.001	0.005	0.005	0.001	10
22580		<10	<10	57	10	18		1.425			0.089		50
22581		<10	<10	49	10	35		2.05			0.015		20
22582		<10	<10	67	10	15		3.25			0.156		60
22583		<10	<10	52	10	44		3.74			0.236		50
22584		<10	<10	55	10	6		0.677			0.021		20
22585		<10	<10	31	10	4		0.311			0.007		30
22586		<10	<10	29	30	70		3.24			0.052		40
22587		<10	<10	66	10	9		1.140			0.161		50
22588		<10	<10	14	10	37		22.3			0.088		120
22589		<10	<10	32	10	7		0.625			0.187		70
22590		<10	<10	45	10	5		0.345			0.181		30
22591		<10	<10	61	10	6		1.130			0.285		70
22592		10	<10	182	20	876		6.99			0.074		60
22593		10	<10	218	20	2490		18.75			0.048		140
22594		10	<10	202	20	1865		9.64			0.030		110
22595		10	<10	203	20	2360		4.59			0.010		60
22596		10	<10	172	20	2740		9.54			0.026		150
22597		10	<10	186	20	3150		35.0			0.043		140
22598		<10	<10	124	10	192		8.57			0.134		120
22599		<10	<10	146	60	2260		40.3			1.045		5710
22600		10	<10	190	10	2890		21.5			0.022		110
22601		10	<10	176	20	638		5.40			0.054		120
22602		10	<10	177	10	576		6.71			0.061		110
22603		10	<10	154	20	163		5.08			0.185		160
22604		10	<10	156	20	189		4.86			0.109		130
22605		10	<10	163	20	390		6.62			0.093		120
22606		10	<10	122	10	548		7.38			0.155		100
22607		10	<10	134	10	903		8.06			0.165		90
22608		10	<10	169	10	350		4.89			0.158		100
22609		10	<10	146	10	312		8.25			0.072		150
22610		<10	<10	54	<10	130		3.04			0.034		30
22611		<10	<10	111	10	42		2.95			0.040		20
22612		<10	<10	119	10	75		4.48			0.066		30
22613		<10	<10	152	50	3330		33.5			0.619		3760
22614		<10	10	117	10	76		18.70			0.260		490
22615		<10	<10	190	50	393	120	88.3	1.165		1.260		6220
22616		<10	<10	184	40	379	117	91.1	1.155		1.255		5990
22617		<10	<10	46	50	350	115	74.5			0.918		6300
22618		<10	<10	76	10	10		0.621			0.015		50
22619		<10	<10	79	10	12		1.290			0.015		60



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CERTIFICATE OF ANALYSIS AD11212464

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	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
		0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
22620		3.39		3.5	7.40	48	500	2.7	5	0.03	<0.5	14	63	92	4.20	20
22621		3.51		2.3	7.39	34	520	3.1	3	0.03	<0.5	10	66	41	3.17	20
22622		3.86		1.0	7.95	25	540	3.4	8	0.09	3.7	5	57	38	4.02	20
22623		3.83		1.4	8.03	49	400	2.9	7	0.08	<0.5	6	53	19	5.77	20
22624		3.76	99.0	3.9	6.53	80	400	2.2	5	0.09	<0.5	11	44	28	3.79	20
22625		0.08		1.2	7.58	158	390	3.7	340	5.29	<0.5	16	85	1540	7.09	20
22626		3.65		37.9	7.33	261	240	2.4	7	0.05	<0.5	8	52	120	6.02	20
22627		3.72		6.6	6.76	109	290	2.3	3	0.02	<0.5	11	49	41	5.60	20
22628		3.06		5.9	5.73	150	190	2.0	3	0.01	3.1	10	43	29	6.59	20
22629		3.46		2.2	7.06	33	550	3.0	6	0.04	0.9	10	54	25	2.96	20
22630		1.42		1.1	3.69	18	230	1.3	3	0.04	1.3	6	23	17	4.88	10
22631		1.87		1.0	3.20	15	170	1.3	4	0.05	3.8	5	21	22	3.72	10
22632		5.71		0.5	2.85	5	160	1.1	3	0.04	1.4	3	18	12	2.76	10
22633		3.64		<0.5	3.00	13	180	1.2	<2	0.04	0.5	4	19	10	3.27	10
22634		0.97		1.1	2.00	95	80	0.7	4	0.07	2.5	6	21	21	6.32	10
22635		1.71		2.5	7.62	73	440	3.4	3	0.04	0.5	11	65	29	4.75	20
22636		3.59		2.4	8.36	47	500	3.7	3	0.07	1.7	13	61	32	5.13	20



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CERTIFICATE OF ANALYSIS AD11212464

Sample Description	Method Analyte Units LOR	ME-ICP61														
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
22620		3.45	30	0.49	2220	1	0.11	30	190	103	2.67	22	13	37	20	0.34
22621		3.68	30	0.40	1015	2	0.12	23	240	135	2.27	19	12	41	<20	0.35
22622		3.99	30	0.42	972	<1	0.11	10	520	334	2.56	<5	13	56	20	0.40
22623		3.50	40	0.39	730	<1	0.09	15	400	157	4.52	<5	14	45	20	0.36
22624		2.98	30	0.26	145	<1	0.09	26	480	288	3.58	9	10	40	<20	0.32
22625		1.94	70	0.56	845	1	0.46	45	430	27	0.04	29	14	221	20	0.50
22626		3.25	30	0.28	152	<1	0.09	13	320	762	5.99	72	11	49	<20	0.34
22627		2.92	30	0.27	208	<1	0.09	30	150	367	5.36	24	11	36	<20	0.30
22628		2.45	30	0.25	338	1	0.08	31	130	344	6.44	28	9	37	<20	0.26
22629		3.56	30	0.47	1120	<1	0.11	21	260	138	1.44	13	12	45	<20	0.39
22630		1.51	20	0.25	1180	<1	0.05	12	160	292	2.67	<5	6	29	<20	0.18
22631		1.26	20	0.27	1135	<1	0.05	10	160	392	1.15	<5	5	28	<20	0.22
22632		1.15	20	0.35	1105	<1	0.04	7	130	269	0.47	<5	4	33	<20	0.22
22633		1.20	20	0.34	1380	<1	0.05	8	130	123	0.82	<5	5	34	<20	0.23
22634		0.75	10	0.31	1275	<1	0.03	14	170	223	3.86	8	4	16	<20	0.10
22635		3.25	30	0.43	1655	1	0.11	28	190	189	3.33	21	13	47	<20	0.30
22636		3.64	30	0.63	4800	<1	0.12	29	210	215	2.32	13	14	45	20	0.33



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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ag-OG62	ME-MS62s	ME-XRF15b	ME-XRF15b	ME-XRF15b	ME-XRF15b	ME-ICP61
		Tl	U	V	W	Zn	Ag	In	Cu	Pb	Sn	Zn	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	ppm
		10	10	1	10	2	1	0.005	0.001	0.005	0.005	0.001	10
22620		<10	<10	100	10	40		0.748				0.014	40
22621		<10	<10	120	10	101		0.613				0.007	10
22622		<10	<10	93	10	783		7.40				0.012	20
22623		<10	<10	84	10	77		5.82				0.012	20
22624		<10	<10	66	10	69		2.19				0.027	30
22625		10	<10	80	20	1685		10.50				0.183	1470
22626		<10	<10	76	10	64		4.97				0.081	60
22627		<10	<10	85	10	89		10.65				0.029	30
22628		<10	<10	76	10	645		8.62				0.024	20
22629		<10	<10	92	10	269		1.135				0.007	10
22630		<10	<10	33	<10	322		3.24				0.007	10
22631		<10	<10	29	10	858		4.21				0.005	10
22632		<10	<10	25	<10	331		0.563				<0.005	10
22633		<10	<10	27	10	132		1.010				<0.005	10
22634		<10	<10	25	<10	697		2.59				0.013	20
22635		<10	<10	90	10	195		0.817				0.008	10
22636		10	<10	90	10	512		0.661				0.007	10