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No: 825, Corporate Site No: 818.

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31 BENNETTS ROAD

CAMP HILL QLD 4152

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Total # Pages: 3 (A – D)

Plus Appendix Pages

Finalized Date: 14-DEC-2023

This copy reported on 5-JAN-2024

Account: TINONEAUS

## CERTIFICATE AD23319164

Project: Aberfoyle

This report is for 64 samples of Soil submitted to our lab in Burnie, TAS, Australia on 2-NOV-2023.

The following have access to data associated with this certificate:

KELLY DAVIS  
ALISON RAOS

TINONE\_QUEST EARTHSQL  
STUART SMITH

RUSSELL FULTON

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login – Rcd w/o BarCode
SCR-41	Screen to –180um and save both
LOG-24	Pulp Login – Rcd w/o Barcode

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-MS85	Lithium Borate Fusion – Select Elements	ICP-MS
ME-XRF15b	Various elements in ores by fusion XRF	XRF
W-XRF15b	Overlimit W by XRF	

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.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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**CERTIFICATE OF ANALYSIS AD23319164**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
TS10720		0.90	0.20	5.11	43.7	710	1.30	0.77	0.03	0.04	74.2	0.9	54	8.91	33.5	2.16
TS10721		0.73	0.06	5.07	72.8	260	2.41	0.45	0.02	0.03	38.1	0.5	53	20.1	33.9	2.92
TS10722		0.69	0.27	9.61	20.7	160	7.60	11.25	0.03	0.13	58.1	2.2	23	39.8	8.1	2.63
TS10723		1.30	0.12	6.85	94.8	390	2.91	0.94	0.01	0.02	101.5	1.1	73	24.4	36.1	2.48
TS10724		0.46	0.02	6.33	2.7	250	0.82	0.12	0.53	0.05	25.1	56.8	30	3.17	89.3	6.73
TS10725		<0.02	0.95	7.46	157.0	430	3.79	349	5.48	0.56	110.0	18.7	81	4.46	1530	7.20
TS10726		0.87	0.47	9.48	19.5	270	3.79	2.06	0.05	0.19	137.5	2.2	12	26.7	8.9	2.44
TS10727		1.08	1.17	9.07	10.2	80	9.84	6.91	0.07	0.17	78.3	1.1	6	32.3	3.1	1.61
TS10728		0.77	0.19	3.64	2.2	250	2.33	0.37	0.02	0.19	32.7	0.5	33	24.8	8.3	0.75
TS10729		0.91	0.18	6.75	3.9	380	3.80	0.51	0.01	<0.02	80.8	0.6	53	24.1	4.0	0.87
TS10730		0.60	0.09	5.91	55.7	1130	1.24	0.54	0.02	0.02	61.3	0.6	74	14.65	19.9	2.65
TS10731		0.52	0.16	3.18	10.0	260	1.07	0.20	0.02	<0.02	33.4	0.4	37	12.85	9.0	0.82
TS10732		0.52	0.13	8.23	174.0	1050	3.82	0.31	0.62	0.14	152.5	33.9	167	27.9	39.3	4.53
TS10733		0.58	0.81	4.55	6.4	670	1.85	0.50	0.63	0.07	65.0	4.4	60	13.35	45.9	3.81
TS10734		0.76	0.50	8.39	17.8	860	3.05	0.72	0.02	0.02	82.7	3.2	94	35.1	94.0	5.07
TS10735		0.60	0.06	6.55	4.2	400	1.65	0.34	0.03	<0.02	65.8	3.4	56	10.80	24.7	2.93
TS10736		0.59	0.20	6.09	11.0	640	2.21	0.41	0.03	<0.02	82.0	8.8	61	17.25	43.5	3.08
TS10737		0.41	0.07	5.22	5.6	450	1.33	0.32	0.03	<0.02	84.9	1.4	50	12.60	16.8	2.36
TS10738		0.67	0.03	2.61	1.2	350	0.91	0.12	0.01	<0.02	69.4	0.4	28	6.96	8.2	0.44
TS10739		0.62	0.17	4.87	10.6	730	1.25	0.20	0.02	<0.02	67.8	0.4	46	33.1	6.8	0.72
TS10740		0.61	0.08	5.09	20.8	770	2.41	0.46	0.02	0.03	72.4	1.0	70	14.30	43.8	2.79
TS10741		0.59	1.66	4.75	18.4	1500	2.18	0.70	0.48	0.24	66.0	10.0	65	15.15	70.6	2.79
TS10742		1.00	0.08	4.50	10.1	440	1.26	0.47	0.09	0.06	76.7	0.5	95	18.35	33.5	1.50
TS10743		0.75	0.32	9.39	17.4	210	25.0	5.28	0.06	0.07	35.3	0.7	10	46.1	7.3	1.51
TS10744		0.81	0.22	7.33	21.2	340	6.60	0.52	0.01	0.10	111.0	1.6	76	29.8	4.8	3.38
TS10745		0.80	0.88	6.91	21.6	370	4.63	1.92	0.05	0.10	86.9	0.9	37	35.9	24.3	1.22
TS10746		0.69	1.28	10.20	14.6	160	7.81	5.53	0.04	0.17	86.8	1.5	12	27.5	12.6	1.54
TS10747		0.88	8.44	10.10	9.6	120	8.52	7.62	0.08	<0.02	139.0	1.6	16	42.5	18.1	1.45
TS10748		0.77	0.20	6.93	90.2	590	1.69	0.91	0.02	<0.02	47.7	1.2	85	17.85	26.9	2.94
TS10749		0.82	0.11	4.23	21.3	780	1.53	0.56	0.04	0.02	95.1	0.5	54	11.55	19.4	1.02
TS10750		0.55	<0.01	8.56	1.9	280	0.85	0.08	0.60	0.06	36.6	58.6	30	3.26	85.7	7.05
TS10751		<0.02	0.04	8.35	2.8	300	1.30	0.09	0.24	0.46	77.8	802	1740	0.89	515	32.2
TS10752		<0.02	0.13	6.93	9.5	400	97.3	1.73	0.69	0.92	29.9	3.8	32	49.8	31.5	1.54
TS10753		1.16	0.07	3.73	18.7	730	1.09	0.42	0.01	<0.02	56.7	0.4	56	9.78	8.5	0.91
TS10754		0.78	0.54	9.93	22.0	940	2.62	0.68	0.14	0.05	57.1	8.0	69	20.5	95.8	6.54
TS10755		0.96	0.24	5.22	15.9	420	1.95	0.45	0.03	0.02	50.5	1.0	46	14.30	44.9	2.58
TS10756		0.73	0.91	8.22	81.6	750	3.33	0.62	0.09	0.07	58.3	4.6	169	27.6	90.3	4.13
TS10757		0.88	0.17	6.49	32.5	980	1.65	0.38	0.03	0.04	57.3	2.0	70	18.05	61.8	2.96
TS10758		0.84	0.10	7.66	67.0	610	2.58	0.49	0.02	<0.02	82.4	0.4	228	27.4	34.7	1.91
TS10759		0.81	0.09	9.34	21.8	990	2.68	0.63	0.02	0.03	41.5	2.7	103	19.90	47.6	3.88



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## CERTIFICATE OF ANALYSIS AD23319164

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
TS10720		14.65	0.12	2.3	0.095	1.13	40.2	33.0	0.19	55	8.00	0.09	9.3	9.8	190
TS10721		19.25	0.08	2.2	0.052	1.46	20.5	40.1	0.22	109	10.30	0.02	4.2	5.9	230
TS10722		47.9	0.22	3.7	0.281	2.63	25.2	228	0.12	171	4.00	0.89	34.7	8.9	250
TS10723		21.4	0.16	2.0	0.106	1.38	55.2	64.7	0.27	60	11.55	0.06	7.4	13.0	330
TS10724		17.65	0.31	3.8	0.064	0.73	9.9	16.5	0.34	987	0.55	0.39	9.9	52.0	80
TS10725		20.8	0.29	4.5	10.15	2.00	83.0	23.9	0.56	861	1.54	0.46	17.9	49.2	460
TS10726		31.6	0.20	5.2	0.208	3.09	66.0	44.1	0.19	189	2.66	0.26	21.9	7.6	390
TS10727		48.3	0.20	4.3	0.235	3.40	31.3	146.5	0.11	216	1.32	1.69	48.2	3.3	280
TS10728		11.70	0.10	2.1	0.044	1.37	16.2	33.8	0.20	44	0.53	0.06	11.7	2.2	170
TS10729		18.30	0.14	3.8	0.054	2.65	36.9	51.5	0.32	18	0.67	0.04	12.0	2.3	240
TS10730		20.0	0.13	2.2	0.049	2.01	34.8	20.2	0.26	37	11.60	0.10	12.9	9.4	220
TS10731		12.35	0.08	1.8	0.028	1.10	16.5	38.5	0.17	24	0.69	0.03	9.1	2.8	200
TS10732		20.2	0.22	2.6	0.075	1.66	39.8	142.0	2.47	720	2.79	0.07	11.9	230	430
TS10733		13.85	0.12	1.4	0.052	1.39	35.8	15.7	0.35	1715	1.17	0.08	9.7	23.3	1970
TS10734		29.1	0.23	2.4	0.092	2.03	41.2	85.9	0.38	66	3.20	0.09	14.6	15.4	630
TS10735		15.35	0.15	3.1	0.054	1.17	32.5	43.8	0.48	159	0.83	0.06	12.1	14.5	230
TS10736		16.45	0.20	2.5	0.054	1.47	41.6	73.8	0.56	284	0.56	0.13	14.0	22.0	260
TS10737		18.45	0.16	1.6	0.043	1.08	42.8	30.5	0.25	63	0.93	0.08	15.4	9.6	220
TS10738		10.95	0.11	2.1	0.027	0.89	36.6	35.0	0.12	33	0.74	0.05	15.2	2.8	140
TS10739		15.70	0.11	1.8	0.041	1.85	35.2	32.6	0.23	30	1.30	0.08	16.5	3.5	110
TS10740		15.25	0.13	2.8	0.095	1.42	39.2	41.1	0.24	49	11.75	0.09	10.1	9.7	290
TS10741		14.05	0.11	1.7	0.108	1.52	36.5	47.0	0.38	4000	5.79	0.08	8.3	58.6	1390
TS10742		12.95	0.12	2.6	0.043	1.07	42.1	33.0	0.25	141	6.52	0.03	10.4	14.4	790
TS10743		38.1	0.11	2.3	0.166	4.08	16.0	121.5	0.31	558	2.37	0.81	20.0	2.6	540
TS10744		21.1	0.21	3.2	0.091	2.34	55.1	59.7	0.30	42	11.75	0.04	12.8	9.1	400
TS10745		30.1	0.15	2.9	0.131	2.26	43.7	62.7	0.22	133	5.76	0.47	24.5	7.7	230
TS10746		46.8	0.21	4.3	0.247	3.02	37.8	133.0	0.14	163	2.03	0.69	35.7	7.1	240
TS10747		55.0	0.27	6.6	0.374	3.34	56.2	264	0.15	199	1.54	1.56	54.4	7.1	240
TS10748		21.5	0.11	2.4	0.111	1.36	25.3	40.6	0.23	38	9.13	0.07	10.7	13.2	200
TS10749		13.20	0.14	2.8	0.037	1.08	50.0	24.9	0.16	46	6.96	0.07	12.4	8.2	420
TS10750		17.65	0.15	4.0	0.062	0.81	15.8	16.6	0.41	1030	0.44	0.41	10.0	51.4	90
TS10751		22.3	2.56	1.7	0.162	0.08	10.6	22.0	0.43	11100	0.83	0.12	4.3	697	700
TS10752		18.75	0.10	2.0	0.012	2.40	13.8	4680	0.25	630	3.12	2.53	43.0	13.1	1230
TS10753		13.70	0.09	2.3	0.035	1.33	30.0	19.9	0.15	31	3.26	0.09	12.1	2.8	120
TS10754		25.6	0.17	2.7	0.118	1.55	15.3	67.9	0.31	141	24.2	0.05	11.4	72.2	470
TS10755		15.80	0.09	2.0	0.060	0.73	26.7	44.1	0.17	55	11.60	0.04	10.3	25.8	310
TS10756		20.2	0.13	3.2	0.089	1.60	31.1	75.2	0.62	184	15.00	0.07	9.9	46.7	340
TS10757		17.60	0.12	2.7	0.065	1.50	30.3	57.3	0.29	116	13.85	0.09	12.8	29.6	220
TS10758		22.4	0.14	3.1	0.055	2.04	44.7	195.0	0.38	32	9.82	0.06	12.4	16.2	250
TS10759		22.9	0.14	3.8	0.092	1.96	25.5	39.1	0.35	107	15.70	0.07	23.9	38.0	310



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		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
TS10720		98.1	<0.002	0.01	0.58	8.3	2	5.9	26.6	0.82	0.05	12.85	0.311	1.02	3.3
TS10721		258	<0.002	0.01	1.18	7.5	3	3.5	13.8	0.35	0.07	14.95	0.175	2.11	5.6
TS10722		481	<0.002	0.01	0.43	7.4	1	32.4	25.7	8.69	<0.05	24.7	0.165	3.50	8.4
TS10723		212	<0.002	0.01	0.93	9.7	2	4.8	29.0	1.30	0.06	17.50	0.216	1.78	7.0
TS10724		46.5	<0.002	0.01	0.23	33.7	1	1.5	41.9	0.59	<0.05	4.80	0.570	0.28	1.3
TS10725		112.0	<0.002	0.03	34.5	15.0	1	>500	230	1.35	0.97	17.00	0.485	1.40	4.1
TS10726		466	<0.002	0.02	0.57	7.0	1	28.7	65.1	2.78	<0.05	49.3	0.171	4.23	15.8
TS10727		560	<0.002	0.01	0.24	5.0	1	40.2	28.0	12.10	<0.05	37.0	0.123	3.74	9.8
TS10728		177.5	<0.002	0.01	0.63	5.1	<1	3.6	29.4	1.25	<0.05	5.87	0.313	0.84	2.6
TS10729		180.0	<0.002	0.01	0.73	8.6	1	4.7	97.8	1.00	<0.05	15.65	0.323	1.00	2.1
TS10730		169.5	<0.002	0.01	0.53	12.6	2	5.4	31.8	1.06	0.07	12.40	0.401	1.44	3.9
TS10731		101.5	<0.002	0.01	0.85	5.1	<1	2.7	42.5	0.67	<0.05	6.04	0.278	0.42	1.2
TS10732		158.5	<0.002	0.01	0.95	16.6	1	17.2	67.2	0.89	<0.05	20.2	0.381	1.43	3.7
TS10733		144.5	<0.002	0.08	0.62	8.0	1	2.9	62.4	0.76	0.06	14.30	0.277	0.47	2.3
TS10734		153.0	<0.002	0.03	1.16	15.4	2	5.3	35.9	1.07	0.07	30.3	0.383	1.53	3.8
TS10735		100.5	<0.002	0.01	0.48	8.4	1	3.4	24.4	0.88	<0.05	20.4	0.319	0.50	2.6
TS10736		148.5	<0.002	0.01	0.81	9.9	1	3.7	35.9	1.03	0.05	14.40	0.353	1.25	2.2
TS10737		140.0	<0.002	0.02	0.54	9.5	1	3.7	32.4	1.13	<0.05	12.85	0.395	0.50	2.1
TS10738		62.7	<0.002	0.01	0.34	5.3	<1	5.6	37.0	1.30	<0.05	10.45	0.386	0.29	2.1
TS10739		220	<0.002	0.01	0.37	9.6	<1	5.7	38.8	1.31	<0.05	8.19	0.466	0.85	2.3
TS10740		129.0	<0.002	0.01	0.44	10.4	3	7.1	36.0	0.76	0.07	12.05	0.369	1.29	4.8
TS10741		115.0	<0.002	0.04	0.51	6.8	2	6.7	128.5	0.70	0.07	13.30	0.271	1.23	4.6
TS10742		121.0	<0.002	0.01	0.29	7.0	2	3.7	55.9	0.90	0.07	11.60	0.415	1.10	6.9
TS10743		702	<0.002	0.01	0.33	4.5	<1	58.1	57.8	3.78	<0.05	12.30	0.122	5.72	9.4
TS10744		209	<0.002	0.02	0.94	8.1	2	13.3	133.0	0.99	<0.05	17.75	0.235	1.40	8.2
TS10745		380	<0.002	0.01	0.72	8.5	1	21.8	43.1	4.21	<0.05	21.7	0.320	2.42	8.3
TS10746		531	<0.002	0.01	0.50	6.4	1	31.9	28.2	7.40	<0.05	29.3	0.169	3.21	8.8
TS10747		636	<0.002	0.03	0.32	7.2	3	54.8	30.1	11.05	<0.05	57.2	0.253	3.79	14.3
TS10748		165.5	<0.002	0.01	1.10	9.2	2	8.1	34.8	0.88	0.05	17.25	0.351	1.37	3.0
TS10749		94.9	<0.002	0.02	0.61	8.1	1	9.6	57.4	1.00	0.07	13.10	0.378	0.83	4.1
TS10750		57.7	<0.002	0.01	0.28	39.1	1	1.5	42.7	0.61	<0.05	6.54	0.636	0.29	1.4
TS10751		7.8	<0.002	0.03	1.11	412	1	1.5	68.6	0.28	<0.05	3.13	0.785	0.35	1.2
TS10752		498	<0.002	0.06	0.60	3.5	<1	52.2	77.5	29.1	0.09	5.97	0.148	2.83	7.2
TS10753		123.0	<0.002	0.01	0.35	8.0	1	6.2	40.5	0.96	<0.05	8.12	0.412	0.80	2.3
TS10754		136.0	<0.002	0.02	0.60	14.8	2	10.3	97.8	0.86	0.08	20.8	0.374	2.75	9.4
TS10755		71.0	<0.002	0.02	0.59	7.6	2	5.8	29.3	0.86	<0.05	8.68	0.326	0.86	4.9
TS10756		153.5	<0.002	0.02	0.78	11.1	5	8.0	40.2	0.93	0.07	21.5	0.335	1.94	7.1
TS10757		143.0	<0.002	0.01	0.69	10.1	2	5.0	29.3	0.96	0.06	13.25	0.385	1.46	5.7
TS10758		236	<0.002	0.01	0.79	13.6	3	6.0	40.2	0.91	0.05	13.70	0.559	2.08	6.0
TS10759		181.5	<0.002	0.01	0.73	15.9	1	15.3	48.7	1.81	<0.05	16.70	0.699	1.60	7.0



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS85	ME-MS85	W-XRF15b
		W	Y	Zn	Zr	Sn	W	W
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	2	0.5	0.5	0.5	0.001
TS10720		5.3	8.6	38	81.0	8.8	8.1	
TS10721		2.4	5.7	27	77.9	5.4	4.0	
TS10722		14.4	11.1	48	97.9	34.8	26.3	
TS10723		4.7	11.0	44	70.3	6.9	7.7	
TS10724		0.8	12.7	73	141.5	1.6	1.0	
TS10725		15.0	71.6	1735	156.5	1795	15.5	
TS10726		11.8	24.2	56	152.5	33.6	15.0	
TS10727		12.6	15.4	60	95.1	42.8	15.1	
TS10728		6.5	8.7	21	76.1	5.7	7.8	
TS10729		7.4	16.3	10	129.5	6.0	8.4	
TS10730		4.8	11.2	42	80.2	6.7	6.9	
TS10731		3.6	8.3	9	65.4	4.0	4.8	
TS10732		2.2	19.8	263	90.9	18.3	2.5	
TS10733		2.2	9.3	45	48.6	4.3	2.8	
TS10734		4.9	16.1	66	85.7	6.4	5.6	
TS10735		2.3	10.8	39	101.5	3.8	2.3	
TS10736		3.3	9.5	73	88.0	4.2	4.4	
TS10737		3.5	9.8	26	57.5	4.2	4.0	
TS10738		3.9	9.3	8	69.9	11.8	6.2	
TS10739		12.0	9.8	12	66.2	6.5	13.8	
TS10740		10.2	9.8	42	104.0	9.8	14.9	
TS10741		6.2	11.6	195	59.9	8.4	8.0	
TS10742		5.6	11.0	23	94.4	5.0	8.7	
TS10743		9.7	9.2	31	62.4	59.8	10.6	
TS10744		10.4	14.8	38	111.0	15.1	11.7	
TS10745		15.4	14.7	24	91.1	24.0	20.4	
TS10746		12.3	18.6	63	115.0	39.4	16.1	
TS10747		18.2	31.1	94	170.0	62.3	20.2	
TS10748		9.1	8.4	19	85.0	10.8	11.8	
TS10749		5.2	11.7	11	100.5	13.4	7.9	
TS10750		0.8	16.4	73	154.5	2.3	6.1	
TS10751		1.0	16.8	211	53.1	1.5	6.1	
TS10752		6.7	6.7	93	38.4	169.0	7.8	
TS10753		6.2	8.1	13	83.8	8.6	9.5	
TS10754		3.7	10.5	252	93.7	11.2	4.8	
TS10755		4.4	9.3	54	74.6	6.3	5.1	
TS10756		5.8	12.6	153	108.0	8.9	6.8	
TS10757		4.4	8.5	102	94.0	6.1	6.7	
TS10758		7.0	11.4	12	110.0	7.1	8.4	
TS10759		8.8	15.4	94	132.0	16.9	9.4	



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## CERTIFICATE OF ANALYSIS AD23319164

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
TS10760		0.92	0.23	4.81	14.0	410	2.35	0.28	0.16	0.08	73.5	1.5	55	16.55	45.6	1.89
TS10761		0.63	0.03	6.16	5.7	310	3.06	0.33	0.04	<0.02	54.5	0.7	40	33.4	7.1	1.27
TS10762		1.05	0.16	5.44	8.1	370	4.68	0.37	0.03	<0.02	50.0	2.6	50	30.0	8.1	1.52
TS10763		0.41	0.01	7.96	2.1	280	0.86	0.07	0.60	0.05	36.1	55.2	29	3.29	86.6	6.95
TS10764		<0.02	0.49	5.80	3.6	160	2.33	6.73	5.75	<0.02	63.7	16.4	50	115.0	2060	16.35
TS10765		<0.02	0.04	5.55	13.4	440	38.7	0.94	0.87	0.53	33.7	3.9	27	23.6	20.4	1.70
TS10766		0.65	0.05	8.41	1.2	160	20.3	2.06	0.12	<0.02	351	1.4	7	35.9	6.0	1.04
TS10767		0.58	<0.01	7.94	1.9	130	16.65	2.34	0.17	<0.02	382	1.0	6	32.3	2.8	1.29
TS10768		0.41	<0.01	7.72	0.5	80	23.0	1.40	0.15	<0.02	383	0.6	8	29.7	1.9	0.59
TS10769		0.49	0.44	14.00	14.4	40	8.73	14.45	0.01	<0.02	16.75	1.0	7	39.1	6.2	3.13
TS10770		0.53	0.05	7.24	1.9	60	10.35	1.06	0.09	<0.02	20.3	0.4	7	20.5	4.0	0.41
TS10771		0.45	<0.01	6.67	0.8	70	5.78	0.78	0.07	<0.02	26.2	0.4	3	23.3	2.4	0.31
TS10772		0.73	0.01	7.86	0.9	90	36.0	2.20	0.06	<0.02	26.4	0.5	4	34.9	2.3	0.57
TS10773		0.61	0.08	8.59	8.4	70	11.85	2.19	0.07	<0.02	37.0	0.7	6	43.7	2.5	1.08
TS10774		0.51	<0.01	8.25	0.8	60	5.29	1.73	0.08	<0.02	24.4	0.4	3	39.9	3.4	0.60
TS10775		0.67	<0.01	7.61	<0.2	150	9.38	1.09	0.12	<0.02	502	0.4	5	24.9	1.5	0.40
TS10776		0.65	0.09	9.62	4.0	120	5.94	6.52	0.02	<0.02	127.5	0.7	7	67.7	1.6	1.99
TS10777		0.78	0.01	9.27	1.1	160	13.00	2.31	0.17	<0.02	421	0.9	4	30.4	3.1	1.40
TS10778		0.84	0.04	7.45	1.5	200	7.68	0.80	0.08	<0.02	221	0.5	4	29.0	2.5	0.45
TS10779		0.67	0.04	6.95	0.8	100	4.38	2.28	0.10	<0.02	43.5	0.4	2	23.1	3.6	0.48
TS10780		0.64	0.01	7.94	0.9	160	10.40	2.46	0.30	<0.02	240	1.2	4	24.6	3.9	1.14
TS10781		0.74	<0.01	8.74	1.5	110	9.54	1.60	0.09	<0.02	172.0	1.0	6	27.1	2.5	1.03
TS10782		0.76	<0.01	8.36	<0.2	150	13.20	1.32	0.23	<0.02	425	0.7	5	22.0	1.6	0.94
TS10783		0.73	0.01	7.24	<0.2	120	15.00	1.63	0.19	0.25	437	0.5	6	26.8	2.2	0.47



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
TS10760		13.90	0.12	2.1	0.057	0.75	39.2	34.0	0.18	1590	9.44	0.04	7.3	16.6	830
TS10761		16.65	0.11	3.1	0.056	1.99	25.6	164.5	0.25	96	1.20	0.04	15.9	3.6	210
TS10762		15.35	0.10	2.6	0.057	1.72	24.4	51.7	0.26	51	2.04	0.06	14.2	9.1	230
TS10763		17.20	0.21	3.9	0.063	0.78	15.3	16.5	0.40	1020	0.49	0.41	9.3	51.4	90
TS10764		129.5	1.97	1.4	2.08	1.64	34.7	251	0.98	3190	81.6	1.27	24.8	26.8	3680
TS10765		12.85	0.10	1.3	0.023	1.77	16.4	2420	0.31	401	2.23	1.58	23.1	11.8	720
TS10766		38.4	0.44	12.8	0.226	4.07	160.5	146.0	0.08	91	1.12	2.33	76.1	2.0	240
TS10767		37.7	0.42	12.7	0.148	3.56	163.5	183.0	0.08	107	1.34	2.85	75.9	1.7	260
TS10768		35.6	0.45	15.3	0.066	3.89	159.0	118.0	0.04	89	0.66	3.39	62.1	0.8	240
TS10769		87.6	0.42	11.2	0.450	1.73	5.8	402	0.09	214	6.48	0.62	96.3	4.4	70
TS10770		35.6	0.13	7.1	0.059	3.93	10.2	70.7	0.03	83	0.33	3.22	38.9	1.1	110
TS10771		29.6	0.12	6.2	0.043	3.89	12.4	50.9	0.02	67	0.30	2.65	34.5	0.7	40
TS10772		36.6	0.12	8.6	0.059	3.87	12.2	177.0	0.06	89	0.82	2.21	53.1	0.7	60
TS10773		44.2	0.16	8.5	0.079	3.84	17.1	217	0.06	153	1.98	2.64	47.4	1.8	60
TS10774		40.3	0.19	7.4	0.053	3.85	11.7	114.5	0.05	111	0.60	2.83	45.3	1.1	110
TS10775		35.0	0.63	16.7	0.067	4.45	211	69.9	0.05	44	0.74	2.46	84.4	1.0	300
TS10776		54.5	0.23	7.3	0.153	3.99	56.3	258	0.24	49	2.83	0.28	26.4	1.7	170
TS10777		44.6	0.52	19.4	0.173	3.74	183.5	215	0.15	147	2.21	2.37	97.7	1.3	300
TS10778		30.2	0.32	10.5	0.059	4.57	100.5	118.5	0.08	82	0.67	1.17	65.0	0.9	190
TS10779		29.6	0.21	7.4	0.068	4.25	20.6	125.0	0.08	137	0.60	0.56	50.6	0.8	90
TS10780		32.0	0.41	8.8	0.093	4.32	107.0	151.0	0.08	494	1.56	2.28	50.2	2.1	180
TS10781		36.7	0.34	10.5	0.114	4.06	77.2	137.0	0.06	89	1.18	2.16	59.7	2.0	140
TS10782		33.5	0.55	15.6	0.068	3.87	178.0	83.4	0.07	599	1.50	2.99	83.7	1.1	290
TS10783		26.7	0.51	11.3	0.072	3.93	188.0	72.4	0.04	67	0.84	2.88	46.3	0.9	290



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
TS10760		99.7	<0.002	0.02	0.45	7.1	1	3.7	40.0	0.63	0.06	13.10	0.323	1.21	6.3
TS10761		193.5	<0.002	0.01	0.60	6.4	1	7.6	68.6	1.58	<0.05	12.25	0.363	1.10	2.2
TS10762		177.0	<0.002	0.02	0.53	6.9	1	6.0	63.6	1.08	<0.05	8.53	0.336	1.14	2.9
TS10763		58.5	<0.002	0.01	0.24	38.4	<1	1.4	43.5	0.57	<0.05	6.31	0.594	0.28	1.3
TS10764		427	0.121	0.30	0.74	9.8	2	133.0	131.0	0.47	0.18	7.85	0.186	2.59	5.0
TS10765		249	<0.002	0.08	0.42	3.6	<1	23.8	74.3	10.65	<0.05	6.46	0.166	1.44	4.4
TS10766		583	0.002	0.01	0.25	8.4	1	26.4	43.1	10.70	<0.05	63.4	0.339	3.52	24.5
TS10767		489	0.002	0.01	0.28	7.4	1	23.0	38.2	10.50	<0.05	76.4	0.359	2.80	14.8
TS10768		631	0.003	0.01	0.28	6.0	<1	17.7	24.0	8.50	<0.05	88.8	0.249	3.41	18.9
TS10769		500	0.003	0.03	0.42	11.3	1	47.1	8.4	25.5	<0.05	44.1	0.110	3.15	22.9
TS10770		745	0.002	0.01	0.22	3.8	<1	10.8	16.8	8.08	<0.05	14.25	0.125	3.86	5.8
TS10771		671	0.002	<0.01	0.25	2.9	<1	10.1	12.2	6.23	<0.05	12.60	0.188	3.86	4.4
TS10772		710	0.002	0.01	0.21	5.1	<1	18.5	13.2	10.50	<0.05	13.40	0.178	3.86	8.0
TS10773		792	0.002	0.01	0.27	6.8	<1	25.0	13.5	9.26	<0.05	18.60	0.164	4.52	8.7
TS10774		754	0.002	0.01	0.14	5.2	<1	18.7	10.8	9.38	<0.05	17.50	0.157	3.89	7.3
TS10775		586	0.003	0.01	0.25	8.0	<1	22.0	33.1	13.05	<0.05	99.2	0.379	3.30	17.0
TS10776		699	<0.002	0.01	0.31	7.7	1	30.4	35.7	4.18	<0.05	28.5	0.105	3.48	9.2
TS10777		553	0.004	0.01	0.24	9.7	<1	41.5	52.4	16.20	<0.05	111.0	0.350	3.68	23.6
TS10778		680	0.002	0.01	0.26	5.8	<1	21.2	45.6	9.46	<0.05	50.1	0.289	3.90	12.6
TS10779		832	0.002	0.01	0.21	4.8	<1	19.0	18.0	9.90	<0.05	21.3	0.116	4.38	11.3
TS10780		625	0.002	0.01	0.23	5.2	<1	17.4	37.1	7.78	<0.05	62.1	0.208	3.68	14.9
TS10781		617	<0.002	0.01	0.24	6.0	<1	24.0	24.5	9.69	<0.05	45.5	0.273	3.62	11.1
TS10782		531	0.002	0.01	0.23	8.3	1	18.8	51.1	13.80	<0.05	95.5	0.348	3.01	21.2
TS10783		615	0.003	0.01	0.19	5.2	<1	13.0	31.4	6.92	<0.05	92.4	0.203	3.27	16.2





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Account: TINONEAUS

## CERTIFICATE OF ANALYSIS AD23319164

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS85	ME-MS85	W-XRF15b
		W	Y	Zn	Zr	Sn	W	W
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	2	0.5	0.5	0.5	0.001
TS10760		5.4	10.6	53	78.2	5.6	7.5	
TS10761		12.0	13.0	18	104.0	8.7	13.0	
TS10762		9.2	11.6	31	89.3	7.0	9.6	
TS10763		0.8	17.2	71	148.0	2.0	1.1	
TS10764		>10000	14.3	237	49.2	161.5	>10000	1.110
TS10765		7.7	7.2	65	33.1	43.5	17.1	
TS10766		30.1	91.5	107	347	249	32.9	
TS10767		36.9	73.0	53	349	118.0	39.0	
TS10768		23.3	87.6	22	383	47.5	25.7	
TS10769		50.0	52.4	71	182.0	48.5	43.2	
TS10770		13.2	34.8	20	135.0	65.0	15.8	
TS10771		12.2	29.8	12	129.0	164.0	17.7	
TS10772		14.3	54.4	19	173.0	54.7	15.0	
TS10773		13.9	63.3	33	169.5	133.0	12.9	
TS10774		10.3	46.0	20	149.0	22.6	10.8	
TS10775		23.7	80.3	12	462	41.3	29.0	
TS10776		8.8	44.7	44	191.5	33.4	9.9	
TS10777		88.3	95.2	82	>500	187.5	70.7	
TS10778		21.7	65.2	22	284	32.2	24.2	
TS10779		10.9	62.0	24	148.0	21.5	12.5	
TS10780		24.7	64.6	40	231	29.5	25.7	
TS10781		16.8	46.2	23	261	54.9	19.7	
TS10782		18.7	85.0	35	432	30.2	20.9	
TS10783		23.8	73.0	16	288	30.8	34.7	

W-XRF15b