



Australian Laboratory Services Pty. Ltd.

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Account: TODRIV

## CERTIFICATE AD17178520

P.O. No.: TRR17-008

This report is for 203 Percussion samples submitted to our lab in Adelaide, SA,  
Australia on 24-AUG-2017.

The following have access to data associated with this certificate:

PAUL BURTON  
CATH WETHERBY

KIM GREY

GAVIN OTTO

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
LOG-24	Pulp 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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: TODD RIVER METALS  
ATTN: CATH WETHERBY  
LEVEL 1  
282 ROKEBY ROAD  
SUBIACO WA 6008

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:

Cameron Brosnan, Laboratory Manager, Perth



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## CERTIFICATE OF ANALYSIS AD17178520

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
W17729		1.10	<0.5	7.35	12	100	1.2	<2	0.42	<0.5	40	2450	236	31.0	30	0.26
W17730		0.44	<0.5	6.58	6	320	1.4	<2	1.36	<0.5	122	1780	306	23.6	20	0.41
W17731		1.40	<0.5	7.51	<5	1670	1.7	4	1.02	<0.5	840	412	451	9.23	20	1.06
W17732		1.25	<0.5	8.35	<5	1120	1.5	<2	0.61	<0.5	685	406	441	9.42	20	1.70
W17733		0.61	<0.5	8.02	6	950	1.9	<2	1.26	<0.5	321	536	434	9.56	20	1.43
W17734		1.63	<0.5	7.48	7	750	1.4	3	1.30	<0.5	238	433	322	11.20	20	1.45
W17735		1.73	<0.5	7.31	<5	620	1.9	3	2.65	<0.5	458	342	163	8.64	20	1.18
W17736		1.78	<0.5	6.97	<5	500	1.5	<2	3.21	<0.5	130	363	82	8.67	20	0.96
W17737		1.37	<0.5	6.70	<5	560	1.4	2	3.94	<0.5	120	371	79	8.50	10	1.07
W17738		2.37	<0.5	6.54	<5	540	1.3	2	4.58	<0.5	92	345	61	9.14	10	0.97
W17739		2.37	<0.5	6.35	<5	610	1.4	2	4.19	<0.5	85	282	105	8.34	10	1.11
W17740		0.83	<0.5	3.58	<5	220	1.5	<2	1.01	<0.5	34	261	186	4.13	10	0.52
W17741		2.22	<0.5	4.01	<5	230	2.0	<2	1.75	<0.5	82	503	252	7.27	10	0.31
W17742		1.78	<0.5	3.65	<5	170	2.1	2	2.36	0.5	87	776	220	8.68	10	0.20
W17743		2.64	<0.5	4.92	<5	250	2.1	3	2.34	0.5	73	574	134	8.74	10	0.57
W17744		0.82	<0.5	6.56	<5	300	1.8	<2	3.03	<0.5	55	248	124	8.51	10	0.88
W17745		1.86	<0.5	5.19	<5	260	1.3	<2	4.39	<0.5	65	457	86	8.11	10	0.88
W17746		1.47	<0.5	2.78	<5	90	1.0	<2	6.66	0.6	64	539	93	8.39	10	0.34
W17747		1.22	<0.5	2.51	<5	160	1.2	3	6.00	<0.5	74	628	193	8.37	10	0.61
W17748		1.82	<0.5	2.30	<5	180	0.9	<2	6.62	<0.5	69	603	168	7.98	10	0.61
W17749		2.49	<0.5	2.20	<5	150	0.8	<2	6.61	0.5	68	542	156	7.75	10	0.60
W17750		0.05	0.5	4.80	5	60	1.1	<2	0.13	0.7	1	13	197	0.21	10	4.61
W17751		1.86	<0.5	2.40	<5	100	0.9	<2	6.44	0.6	70	536	262	7.83	10	0.42
W17752		1.79	<0.5	2.57	<5	140	1.0	<2	6.64	<0.5	61	595	240	7.92	10	0.52
W17753		1.59	<0.5	2.42	<5	150	0.6	<2	7.04	<0.5	65	505	95	8.28	<10	0.64
W17754		1.04	<0.5	2.07	<5	70	0.7	4	7.61	0.7	86	484	138	8.73	<10	0.16
W17755		2.04	<0.5	1.68	<5	20	0.7	3	7.78	0.7	69	522	93	8.58	10	0.08
W17756		2.23	<0.5	3.13	<5	80	0.5	<2	6.88	<0.5	81	525	189	9.12	10	0.31
W17757		3.20	<0.5	3.91	<5	160	<0.5	<2	6.37	0.5	71	568	124	9.13	10	0.39
W17758		1.38	<0.5	1.88	<5	70	<0.5	2	7.68	0.9	69	575	223	8.28	10	0.14
W17759		2.77	<0.5	1.87	<5	80	<0.5	2	8.07	<0.5	87	613	271	8.76	10	0.19
W17760		1.24	<0.5	1.75	<5	70	<0.5	<2	8.25	0.6	87	589	275	8.55	<10	0.16
W17761		2.11	<0.5	1.59	<5	50	<0.5	<2	8.09	<0.5	73	644	223	8.24	<10	0.16
W17762		3.28	<0.5	1.72	<5	80	<0.5	2	8.04	0.8	94	668	256	8.98	<10	0.23
W17763		1.48	<0.5	1.58	<5	50	<0.5	<2	7.60	0.5	88	611	244	8.47	<10	0.18
W17764		1.81	<0.5	1.48	<5	40	<0.5	<2	6.97	0.5	77	632	247	8.42	<10	0.10
W17765		1.80	<0.5	1.62	<5	60	<0.5	<2	8.48	0.5	88	647	256	8.50	<10	0.17
W17766		1.71	<0.5	1.75	6	120	<0.5	<2	7.55	0.6	87	553	221	8.95	10	0.23
W17767		2.07	<0.5	3.94	<5	170	0.6	<2	5.63	<0.5	69	418	160	8.67	10	0.63
W17768		2.34	<0.5	6.41	<5	320	<0.5	3	6.32	0.5	68	97	112	9.63	10	1.00



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## CERTIFICATE OF ANALYSIS AD17178520

Sample Description	Method Analyte Units LOR	ME-ICP61 La ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10
W17729		20	0.51	685	2	0.04	148	220	31	0.03	<5	81	25	<20	0.62	<10
W17730		40	1.38	1500	1	0.12	213	200	24	0.04	<5	80	55	<20	0.54	<10
W17731		170	1.52	4900	1	0.53	640	250	8	0.06	<5	42	150	<20	0.61	<10
W17732		140	1.53	3270	<1	1.63	570	210	6	0.04	<5	41	181	<20	0.66	<10
W17733		110	2.02	2570	<1	1.02	407	190	11	0.35	<5	39	178	<20	0.45	<10
W17734		60	2.60	1860	<1	0.87	340	120	9	0.09	<5	43	138	<20	0.58	<10
W17735		50	2.37	2400	2	1.52	390	110	7	0.42	6	41	218	<20	0.62	10
W17736		40	2.85	1400	1	1.44	254	90	4	0.21	<5	41	240	<20	0.62	<10
W17737		40	3.32	1490	<1	1.46	229	120	4	0.37	7	40	304	<20	0.57	<10
W17738		30	4.01	1510	<1	1.52	193	80	3	0.10	<5	45	319	<20	0.66	10
W17739		20	3.37	1370	<1	1.51	173	60	3	0.07	<5	40	335	<20	0.63	10
W17740		20	1.28	601	2	1.08	88	70	2	0.03	<5	12	118	<20	0.19	10
W17741		20	4.17	1330	1	1.00	184	60	4	0.02	<5	33	107	<20	0.24	<10
W17742		10	6.45	1380	1	1.04	175	40	6	0.02	<5	60	85	<20	0.24	<10
W17743		10	5.16	1470	<1	1.35	162	50	<2	0.01	<5	53	180	<20	0.36	<10
W17744		10	4.22	1450	1	2.07	157	70	<2	0.01	5	42	238	<20	0.49	<10
W17745		20	6.21	1550	<1	1.89	148	140	3	0.01	9	43	194	<20	0.19	<10
W17746		10	8.14	1660	<1	0.92	137	60	5	0.01	8	63	76	<20	0.25	<10
W17747		10	7.28	1360	<1	0.65	131	40	10	0.01	<5	67	64	<20	0.28	<10
W17748		10	8.07	1460	2	0.58	124	50	7	0.01	<5	65	59	<20	0.26	10
W17749		10	7.93	1460	1	0.54	104	40	6	0.01	<5	63	55	<20	0.25	<10
W17750		<10	0.04	44	<1	1.21	11	480	28	0.07	<5	<1	20	<20	0.02	10
W17751		20	8.14	1570	<1	0.68	111	80	26	0.01	<5	65	51	<20	0.24	<10
W17752		10	7.64	1450	<1	0.74	112	190	19	0.01	<5	68	55	<20	0.27	<10
W17753		10	8.58	1610	1	0.62	123	120	<2	<0.01	6	63	40	<20	0.24	<10
W17754		10	9.41	1980	<1	0.60	145	70	7	0.01	<5	65	39	<20	0.30	<10
W17755		10	9.98	1650	<1	0.27	155	40	4	<0.01	5	66	25	<20	0.24	<10
W17756		<10	9.05	1690	<1	0.44	242	40	8	0.01	<5	60	58	<20	0.29	<10
W17757		10	9.12	1960	<1	0.51	410	30	<2	<0.01	5	60	96	<20	0.27	10
W17758		10	10.10	1600	<1	0.33	175	30	3	0.01	<5	71	44	<20	0.24	<10
W17759		10	10.35	1460	<1	0.36	160	40	<2	<0.01	<5	76	48	<20	0.24	<10
W17760		10	10.00	1590	<1	0.34	192	30	3	0.01	<5	73	44	<20	0.22	<10
W17761		<10	9.82	1460	<1	0.31	173	10	2	0.01	<5	71	37	<20	0.20	<10
W17762		10	10.45	1640	<1	0.32	166	30	4	0.01	<5	72	42	<20	0.21	<10
W17763		<10	10.10	1510	<1	0.29	171	20	<2	0.01	<5	69	35	<20	0.20	10
W17764		<10	10.60	1650	<1	0.26	237	20	5	0.01	9	65	31	<20	0.19	<10
W17765		<10	10.40	1780	1	0.31	184	40	5	0.01	<5	71	36	<20	0.22	10
W17766		10	10.00	1710	1	0.33	139	70	7	0.01	6	73	41	<20	0.24	<10
W17767		10	7.24	1560	<1	0.75	132	110	<2	0.01	<5	60	131	<20	0.33	<10
W17768		<10	4.97	1660	1	1.06	87	60	2	0.01	7	57	180	<20	0.56	<10



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**CERTIFICATE OF ANALYSIS AD17178520**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-ICP22	PUL-QC
		U	V	W	Zn	Au	Pass75um
		ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.001	% 0.01
W17729		<10	655	<10	124	<0.001	
W17730		<10	483	<10	70	<0.001	
W17731		<10	118	<10	147	<0.001	
W17732		<10	116	<10	134	<0.001	
W17733		<10	173	<10	211	<0.001	99.0
W17734		<10	224	<10	182	<0.001	
W17735		<10	141	<10	118	<0.001	
W17736		<10	135	<10	121	<0.001	
W17737		<10	154	<10	115	<0.001	
W17738		<10	204	<10	110	<0.001	
W17739		<10	185	<10	99	0.001	
W17740		<10	89	<10	74	0.001	
W17741		<10	130	<10	118	<0.001	
W17742		<10	142	<10	363	0.001	
W17743		<10	159	<10	174	<0.001	
W17744		<10	214	<10	139	<0.001	
W17745		10	137	<10	94	<0.001	
W17746		<10	185	<10	102	<0.001	
W17747		<10	187	<10	89	0.002	
W17748		<10	187	<10	89	0.002	
W17749		<10	184	<10	88	0.001	
W17750		<10	3	<10	316	0.370	
W17751		<10	166	<10	156	0.001	
W17752		<10	178	<10	146	<0.001	
W17753		<10	198	<10	91	<0.001	
W17754		<10	311	<10	96	0.002	
W17755		<10	270	<10	86	<0.001	
W17756		<10	287	<10	138	0.007	
W17757		<10	310	<10	120	0.007	
W17758		<10	252	<10	69	0.002	
W17759		<10	254	<10	67	0.001	
W17760		<10	240	<10	76	0.001	
W17761		<10	230	<10	73	0.001	
W17762		<10	242	<10	80	0.004	
W17763		<10	227	<10	81	0.003	
W17764		<10	207	<10	104	0.001	
W17765		<10	238	<10	81	0.002	
W17766		<10	248	<10	79	0.002	
W17767		<10	252	<10	96	0.003	
W17768		<10	352	<10	93	0.001	



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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
W17769		2.34	<0.5	6.20	<5	330	<0.5	3	5.55	<0.5	63	82	106	9.66	10	1.08
W17770		1.78	<0.5	6.70	<5	340	<0.5	<2	6.28	<0.5	70	81	115	10.50	10	1.17
W17771		1.52	<0.5	2.27	<5	240	<0.5	<2	6.03	1.2	87	427	187	12.90	10	0.31
W17772		2.18	<0.5	2.81	<5	280	<0.5	4	5.64	0.7	100	454	222	13.45	10	0.43
W17773		1.59	<0.5	2.52	<5	220	<0.5	7	7.25	0.6	83	481	205	12.55	10	0.34
W17774		1.55	<0.5	2.08	<5	40	<0.5	<2	7.05	<0.5	72	647	212	10.10	10	0.19
W17775		0.05	2.9	7.40	52	1160	1.4	2	3.96	1.6	27	150	3800	5.79	20	2.24
W17776		1.56	<0.5	2.81	<5	70	<0.5	2	4.30	0.5	85	748	244	9.93	10	0.23
W17777		2.92	<0.5	3.44	<5	140	<0.5	<2	5.55	0.8	84	534	512	9.16	10	0.57
W17778		2.18	<0.5	1.93	<5	80	0.5	<2	9.81	<0.5	79	649	218	7.70	10	0.37
W17779		2.09	<0.5	1.86	<5	50	<0.5	<2	9.76	<0.5	75	690	223	6.96	<10	0.26
W17780		2.80	<0.5	1.94	<5	60	<0.5	<2	9.50	<0.5	75	750	255	7.31	<10	0.27
W17781		5.96	<0.5	1.96	<5	60	<0.5	<2	9.65	0.5	76	767	246	7.29	<10	0.28
W17782		2.05	<0.5	1.40	<5	40	<0.5	3	9.68	<0.5	88	785	321	7.39	<10	0.17
W17783		1.93	<0.5	1.51	<5	80	<0.5	6	10.35	0.7	98	840	330	8.35	<10	0.30
W17784		2.17	<0.5	1.47	<5	70	<0.5	<2	10.05	<0.5	100	894	331	8.54	<10	0.27
W17785		2.70	<0.5	1.39	<5	50	<0.5	2	10.55	0.8	98	964	338	8.24	<10	0.18
W17786		2.44	<0.5	1.21	<5	30	<0.5	5	10.40	<0.5	90	975	287	7.89	<10	0.12
W17787		2.00	<0.5	1.29	<5	30	<0.5	2	10.05	<0.5	90	905	298	7.83	<10	0.14
W17788		2.06	<0.5	1.29	<5	30	<0.5	<2	10.20	0.6	91	978	291	8.03	<10	0.10
W17789		1.28	<0.5	1.10	<5	20	<0.5	2	10.10	0.7	92	953	297	7.75	<10	0.07
W17790		1.49	<0.5	1.47	<5	30	<0.5	2	10.45	<0.5	90	933	261	7.96	<10	0.09
W17791		1.10	<0.5	1.20	<5	30	<0.5	<2	10.70	0.5	92	1010	308	7.85	<10	0.11
W17792		1.99	<0.5	1.17	<5	30	<0.5	<2	10.40	0.5	94	967	322	7.90	<10	0.12
W17793		2.23	<0.5	1.23	<5	30	<0.5	<2	10.15	<0.5	93	1020	312	7.97	<10	0.14
W17794		2.72	<0.5	1.21	<5	30	<0.5	<2	10.45	<0.5	96	1070	340	8.09	<10	0.13
W17795		2.34	<0.5	1.21	<5	30	<0.5	2	10.70	0.5	97	1140	332	8.31	<10	0.11
W17796		1.65	<0.5	1.17	<5	20	<0.5	<2	10.30	0.5	89	1050	255	8.04	<10	0.09
W17797		2.24	<0.5	1.10	<5	20	<0.5	3	10.55	0.5	87	1060	227	7.75	<10	0.07
W17798		1.74	<0.5	1.12	<5	10	<0.5	<2	10.60	<0.5	85	1070	205	7.61	<10	0.06
W17799		1.63	<0.5	1.08	<5	10	<0.5	<2	8.19	<0.5	80	965	220	7.75	<10	0.06
W17800		0.06	<0.5	15.50	25	50	<0.5	3	0.02	<0.5	<1	149	6	14.60	50	0.14
W17801		1.78	<0.5	1.18	<5	20	<0.5	<2	10.40	0.6	86	1070	238	7.61	<10	0.08
W17802		1.82	<0.5	1.33	<5	20	<0.5	2	9.47	<0.5	90	1050	314	7.78	<10	0.09
W17803		3.67	<0.5	1.30	<5	30	<0.5	2	9.76	0.7	89	1030	266	7.90	<10	0.11
W17804		3.27	<0.5	1.32	<5	50	<0.5	<2	9.70	0.5	95	981	278	8.12	<10	0.18
W17805		2.09	<0.5	1.43	<5	80	<0.5	<2	9.87	<0.5	94	979	250	8.39	<10	0.26
W17806		1.59	<0.5	1.43	5	90	<0.5	<2	9.86	0.7	90	936	230	8.22	<10	0.27
W17807		2.54	<0.5	1.45	<5	90	<0.5	<2	9.71	0.5	86	846	225	7.84	<10	0.29
W17808		2.26	<0.5	1.42	<5	30	<0.5	<2	9.74	0.5	88	782	206	8.07	<10	0.18



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## CERTIFICATE OF ANALYSIS AD17178520

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 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	ppm 1	ppm 20	% 0.01	ppm 10
W17769		<10	4.85	1770	<1	1.18	69	60	6	0.01	<5	54	191	<20	0.55	<10
W17770		<10	5.14	1810	<1	1.00	70	70	5	0.01	8	60	208	<20	0.62	<10
W17771		<10	6.80	1950	<1	0.42	91	120	6	0.01	<5	77	74	<20	0.69	10
W17772		<10	6.97	1800	<1	0.50	118	130	5	1.36	<5	69	79	<20	1.19	<10
W17773		10	7.49	2060	<1	0.51	114	130	5	0.05	<5	79	64	<20	0.66	10
W17774		10	8.91	1880	<1	0.51	153	120	34	0.01	<5	62	33	<20	0.38	10
W17775		50	1.93	795	68	2.27	2310	1050	2180	0.41	10	18	311	20	0.69	<10
W17776		10	9.71	1950	<1	0.69	222	180	53	0.01	5	42	53	<20	0.22	<10
W17777		10	9.44	1750	<1	0.52	226	60	19	0.18	<5	39	75	<20	0.18	<10
W17778		10	10.25	1460	1	0.43	149	70	6	0.41	<5	67	37	<20	0.22	<10
W17779		10	9.74	1440	2	0.40	157	120	4	0.32	<5	64	32	<20	0.20	<10
W17780		10	10.50	1380	<1	0.33	171	100	11	0.37	<5	61	33	<20	0.19	<10
W17781		10	10.50	1360	<1	0.34	168	100	3	0.36	6	61	32	<20	0.19	<10
W17782		<10	10.80	1370	2	0.19	220	40	8	0.52	<5	58	29	<20	0.18	<10
W17783		10	11.90	1530	2	0.22	258	40	7	0.45	6	61	30	<20	0.19	<10
W17784		<10	12.15	1540	2	0.24	274	60	4	0.45	<5	61	35	<20	0.19	<10
W17785		<10	12.00	1550	1	0.23	273	60	4	0.47	<5	62	36	<20	0.19	10
W17786		<10	11.80	1460	2	0.19	248	40	5	0.39	<5	62	31	<20	0.18	10
W17787		<10	11.70	1490	1	0.22	263	70	3	0.43	<5	60	38	<20	0.18	<10
W17788		<10	12.15	1520	1	0.18	253	50	3	0.42	<5	62	30	<20	0.17	<10
W17789		<10	11.90	1390	2	0.17	252	50	<2	0.47	<5	61	27	<20	0.16	10
W17790		<10	11.80	1560	2	0.18	242	80	7	0.36	6	62	48	<20	0.20	<10
W17791		<10	11.95	1470	<1	0.20	261	30	4	0.41	<5	63	35	<20	0.17	<10
W17792		<10	11.85	1470	1	0.20	275	60	3	0.43	5	62	34	<20	0.16	10
W17793		<10	11.90	1500	3	0.22	277	60	<2	0.42	<5	61	33	<20	0.16	<10
W17794		<10	12.00	1510	3	0.20	294	60	8	0.44	<5	62	34	<20	0.16	<10
W17795		<10	12.35	1540	2	0.19	294	50	2	0.43	<5	64	34	<20	0.17	<10
W17796		<10	12.20	1500	3	0.19	262	30	<2	0.32	<5	62	33	<20	0.17	<10
W17797		<10	11.85	1460	2	0.17	247	30	3	0.31	<5	63	29	<20	0.17	<10
W17798		<10	11.75	1450	2	0.16	240	30	<2	0.29	<5	64	29	<20	0.17	<10
W17799		<10	12.95	1630	<1	0.16	215	40	4	0.32	5	61	23	<20	0.16	<10
W17800		<10	0.02	308	18	0.01	7	110	11	0.05	<5	8	4	50	0.81	<10
W17801		<10	11.80	1490	2	0.18	260	40	3	0.34	<5	64	29	<20	0.18	10
W17802		<10	12.40	1560	2	0.22	276	60	8	0.38	<5	63	35	<20	0.19	10
W17803		<10	12.05	1510	<1	0.22	265	80	6	0.35	<5	61	38	<20	0.18	<10
W17804		<10	12.10	1520	3	0.23	280	60	8	0.36	<5	59	42	<20	0.18	<10
W17805		<10	12.20	1540	2	0.24	284	80	8	0.33	<5	59	42	<20	0.19	<10
W17806		<10	11.95	1530	3	0.25	261	80	4	0.31	<5	59	43	<20	0.19	10
W17807		<10	11.60	1500	1	0.24	229	80	4	0.32	<5	59	34	<20	0.21	<10
W17808		10	11.25	1430	3	0.27	234	90	2	0.36	<5	63	30	<20	0.18	<10

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



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**CERTIFICATE OF ANALYSIS AD17178520**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-ICP22	PUL-QC
		U	V	W	Zn	Au	Pass75um
		ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.001	% 0.01
W17769		<10	353	<10	88	0.004	
W17770		<10	396	<10	97	0.003	
W17771		<10	666	<10	121	0.008	
W17772		<10	703	<10	94	0.010	
W17773		<10	507	<10	117	0.004	99.0
W17774		<10	328	<10	224	0.002	
W17775		<10	145	<10	1120	0.481	
W17776		<10	181	<10	277	0.006	
W17777		<10	182	<10	226	0.004	
W17778		<10	215	<10	78	0.005	
W17779		<10	203	<10	63	0.002	
W17780		<10	187	<10	62	0.002	
W17781		<10	188	<10	64	0.001	
W17782		<10	179	<10	64	0.001	
W17783		<10	175	<10	78	<0.001	
W17784		<10	181	<10	72	<0.001	
W17785		<10	174	<10	72	0.001	
W17786		<10	179	<10	69	0.001	
W17787		<10	172	<10	73	0.003	
W17788		<10	166	<10	75	0.001	
W17789		<10	174	<10	72	0.001	
W17790		<10	184	<10	68	0.002	
W17791		<10	176	<10	63	<0.001	
W17792		<10	172	<10	66	0.001	
W17793		<10	175	<10	138	0.001	
W17794		<10	177	<10	91	<0.001	
W17795		<10	186	<10	99	<0.001	
W17796		<10	181	<10	74	<0.001	
W17797		<10	176	<10	71	<0.001	
W17798		<10	187	<10	67	<0.001	
W17799		<10	179	<10	83	0.007	
W17800		<10	397	<10	<2	<0.001	
W17801		<10	187	<10	69	<0.001	
W17802		<10	187	<10	69	0.001	
W17803		<10	179	<10	72	<0.001	
W17804		<10	166	<10	78	<0.001	
W17805		<10	172	<10	83	<0.001	
W17806		<10	174	<10	85	<0.001	
W17807		<10	168	<10	74	0.001	
W17808		<10	186	<10	71	0.426	



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## CERTIFICATE OF ANALYSIS AD17178520

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
W17809		1.61	<0.5	1.49	<5	30	<0.5	<2	9.39	<0.5	93	706	225	8.19	<10	0.16
W17810		2.87	<0.5	1.88	<5	20	<0.5	<2	8.79	0.5	105	571	750	8.98	<10	0.14
W17811		3.04	<0.5	2.09	<5	30	0.6	<2	9.06	<0.5	124	460	577	8.23	10	0.23
W17812		2.82	<0.5	2.17	<5	90	0.5	<2	8.12	0.6	89	384	501	8.80	10	0.36
W17813		2.68	<0.5	2.63	<5	150	<0.5	<2	7.61	0.7	68	211	134	9.62	10	0.39
W17814		3.10	<0.5	2.59	<5	70	0.5	5	6.83	0.6	91	458	230	10.50	10	0.26
W17815		2.01	<0.5	4.71	<5	260	0.5	2	6.36	0.7	86	163	954	13.15	20	0.69
W17816		2.90	<0.5	1.85	<5	50	<0.5	2	9.72	<0.5	83	646	233	7.94	<10	0.20
W17817		2.95	<0.5	2.05	<5	40	0.5	<2	9.19	<0.5	76	428	458	9.52	10	0.20
W17818		1.85	<0.5	1.92	<5	90	0.5	<2	9.15	<0.5	74	702	198	7.38	10	0.29
W17819		2.35	<0.5	2.09	<5	80	0.5	<2	8.79	0.6	76	742	204	7.54	<10	0.31
W17820		1.95	<0.5	2.39	<5	70	<0.5	<2	8.33	<0.5	76	771	201	8.14	<10	0.25
W17821		3.39	<0.5	2.06	<5	40	0.5	<2	8.43	<0.5	76	814	298	8.41	10	0.20
W17822		2.00	<0.5	2.10	<5	90	0.5	<2	7.96	0.7	74	794	186	8.01	<10	0.31
W17823		2.23	<0.5	2.08	<5	130	0.5	3	8.29	<0.5	82	882	211	7.51	<10	0.36
W17824		4.16	<0.5	2.36	<5	110	<0.5	<2	8.36	<0.5	79	865	210	7.43	10	0.28
W17825		0.05	0.5	4.81	<5	10	1.1	<2	0.14	0.5	<1	13	199	0.21	10	4.64
W17826		2.20	<0.5	2.18	<5	340	<0.5	<2	8.11	<0.5	84	863	192	7.25	10	0.62
W17827		3.02	<0.5	1.95	<5	150	0.5	<2	8.16	0.5	81	874	189	7.19	10	0.30
W17832		1.89	<0.5	1.68	<5	40	<0.5	<2	7.99	<0.5	79	1020	167	8.88	<10	0.20
W17833		0.99	<0.5	1.74	<5	40	<0.5	<2	8.13	<0.5	77	988	181	9.23	10	0.19
W17834		4.45	<0.5	1.96	<5	40	<0.5	2	8.19	<0.5	76	995	204	9.17	<10	0.20
W17835		2.56	<0.5	1.54	<5	10	0.5	<2	8.31	0.6	81	1100	317	9.45	<10	0.07
W17836		1.55	<0.5	1.58	5	20	<0.5	<2	8.19	0.5	76	1050	131	11.00	<10	0.12
W17837		2.39	<0.5	4.26	<5	80	<0.5	4	6.17	<0.5	64	596	100	11.80	10	0.44
W17838		2.38	<0.5	6.51	<5	180	<0.5	<2	5.44	<0.5	70	366	175	11.65	10	0.86
W17839		2.71	<0.5	7.14	<5	190	<0.5	<2	6.53	<0.5	59	359	138	11.45	20	1.05
W17844		2.44	<0.5	7.06	<5	170	0.5	<2	6.45	<0.5	55	345	141	10.50	20	1.06
W17845		2.75	<0.5	7.45	<5	180	0.6	<2	5.84	<0.5	55	313	110	11.20	20	1.06
W17849		2.11	<0.5	7.84	<5	160	0.5	<2	5.32	<0.5	55	350	106	10.10	20	0.92
W17855		2.15	<0.5	6.95	<5	170	0.5	<2	6.52	0.5	56	337	127	10.85	20	0.93
W17856		1.40	<0.5	6.81	<5	130	0.5	<2	6.18	0.7	54	320	105	10.35	20	0.72
W17857		2.34	<0.5	7.10	<5	190	0.5	<2	6.28	0.6	56	332	99	10.75	20	1.03
W17858		2.75	<0.5	7.35	<5	170	0.5	<2	6.56	0.6	58	341	175	10.85	10	0.83
W17859		2.50	<0.5	7.12	<5	180	0.5	<2	6.50	0.7	54	321	144	10.30	20	0.88
W17860		2.58	<0.5	7.30	<5	170	<0.5	<2	7.07	<0.5	58	339	110	10.90	20	0.85
W17861		2.82	<0.5	7.29	<5	200	<0.5	<2	6.79	0.5	56	353	101	10.95	20	0.94
W17862		2.33	<0.5	7.09	<5	240	<0.5	<2	6.24	<0.5	54	345	110	10.95	20	1.09
W17863		3.28	<0.5	6.96	<5	230	<0.5	<2	5.97	0.7	54	354	117	11.05	20	1.08
W17864		2.69	<0.5	6.57	<5	190	<0.5	<2	6.23	0.7	56	398	123	11.65	20	0.92





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## CERTIFICATE OF ANALYSIS AD17178520

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	Ti
		ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	ppm 1	ppm 20	% 0.01	ppm 10
W17809		10	10.75	1470	2	0.28	229	100	6	0.58	<5	64	30	<20	0.18	<10
W17810		10	10.30	1670	1	0.27	236	130	6	0.55	5	66	16	<20	0.21	<10
W17811		10	9.27	1560	1	0.46	255	140	17	0.66	<5	69	19	<20	0.21	<10
W17812		10	8.74	1720	1	0.62	158	140	21	0.37	<5	71	29	<20	0.25	<10
W17813		10	8.31	1800	<1	0.60	102	220	5	0.04	<5	71	40	<20	0.29	<10
W17814		10	8.70	1950	<1	0.65	234	230	10	0.47	<5	62	42	<20	0.29	<10
W17815		10	5.42	2480	<1	0.93	126	510	9	0.45	<5	58	143	<20	1.79	10
W17816		10	10.15	1390	<1	0.36	202	120	2	0.43	<5	62	20	<20	0.24	<10
W17817		10	9.34	1710	1	0.38	177	110	9	0.27	<5	68	23	<20	0.27	<10
W17818		10	9.84	1300	2	0.41	200	120	4	0.27	<5	55	26	<20	0.24	<10
W17819		10	9.79	1280	1	0.49	221	190	5	0.32	<5	54	32	<20	0.24	<10
W17820		10	9.93	1420	<1	0.51	224	150	2	0.19	5	54	29	<20	0.23	<10
W17821		10	9.76	1500	1	0.48	239	150	7	0.23	<5	56	26	<20	0.23	<10
W17822		10	9.88	1460	2	0.48	241	210	6	0.20	<5	48	40	<20	0.23	<10
W17823		10	10.55	1260	2	0.46	269	160	9	0.30	<5	46	29	<20	0.24	<10
W17824		10	10.65	1340	1	0.35	263	100	<2	0.08	<5	43	22	<20	0.35	<10
W17825		<10	0.04	43	<1	1.21	11	490	26	0.06	<5	<1	20	<20	0.02	20
W17826		10	10.55	1080	1	0.35	281	110	3	0.41	<5	42	27	<20	0.41	<10
W17827		10	10.95	1200	1	0.30	292	140	3	0.17	<5	43	23	<20	0.30	10
W17832		10	10.75	1420	<1	0.26	285	170	<2	0.27	<5	48	23	<20	0.20	<10
W17833		<10	10.10	1410	1	0.22	281	220	5	0.44	5	53	18	<20	0.21	10
W17834		<10	10.20	1450	<1	0.23	283	240	5	0.28	<5	53	17	<20	0.21	10
W17835		<10	10.30	1520	2	0.17	308	170	7	0.22	<5	58	9	<20	0.22	<10
W17836		<10	9.86	1440	1	0.19	272	250	6	0.96	<5	61	19	<20	0.23	10
W17837		10	8.52	1660	<1	0.39	188	500	<2	0.03	6	54	57	<20	0.32	10
W17838		10	6.46	1840	<1	0.92	128	1640	5	0.21	<5	45	194	<20	0.83	<10
W17839		10	5.92	1800	<1	0.88	133	1290	<2	0.30	<5	47	330	<20	0.86	<10
W17844		10	5.33	1500	1	0.90	118	1020	<2	0.27	5	46	327	<20	0.72	<10
W17845		10	5.10	1700	1	0.78	105	1490	<2	0.21	10	39	385	<20	0.90	<10
W17849		10	5.36	1630	1	0.78	127	770	8	0.11	<5	32	433	<20	0.75	<10
W17855		10	5.33	1710	3	0.69	112	1000	6	0.31	<5	43	337	<20	0.78	<10
W17856		10	5.05	1590	1	0.82	109	970	<2	0.14	<5	41	338	<20	0.89	<10
W17857		10	5.31	1795	1	0.75	109	770	<2	0.15	<5	44	364	<20	0.90	<10
W17858		10	5.25	1665	<1	0.83	121	1120	5	0.13	<5	43	400	<20	0.81	<10
W17859		10	4.90	1530	1	0.69	122	1150	<2	0.20	<5	42	381	<20	0.72	<10
W17860		10	5.09	1725	1	0.61	113	1450	<2	0.24	<5	44	417	<20	0.83	10
W17861		10	5.17	1730	1	0.57	116	1120	<2	0.25	<5	45	448	<20	0.71	<10
W17862		10	5.46	1955	<1	0.77	121	1150	3	0.19	<5	45	353	<20	0.69	<10
W17863		10	5.44	1900	2	0.54	120	760	<2	0.21	<5	43	405	<20	0.59	<10
W17864		10	5.63	2060	1	0.49	116	880	2	0.22	<5	46	384	<20	0.61	<10

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



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**CERTIFICATE OF ANALYSIS AD17178520**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-ICP22	PUL-QC
		U	V	W	Zn	Au	Pass75um
		ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.001	% 0.01
W17809		<10	187	<10	75	0.001	
W17810		<10	195	<10	105	0.001	
W17811		<10	217	<10	149	0.001	
W17812		<10	225	<10	387	0.001	
W17813		<10	244	<10	153	<0.001	98.0
W17814		<10	236	<10	286	<0.001	
W17815		<10	777	<10	170	0.001	
W17816		<10	165	<10	120	0.002	
W17817		<10	218	<10	140	0.001	
W17818		<10	160	<10	85	0.001	
W17819		<10	149	<10	83	0.001	
W17820		<10	148	<10	88	0.001	
W17821		<10	149	<10	101	0.004	
W17822		<10	133	<10	95	0.001	
W17823		<10	131	<10	79	0.001	
W17824		<10	125	<10	137	0.001	
W17825		<10	3	<10	317	0.348	
W17826		<10	135	<10	62	0.002	
W17827		<10	143	<10	71	<0.001	
W17832		<10	121	<10	112	0.001	
W17833		<10	126	<10	102	0.001	
W17834		<10	125	<10	96	0.001	
W17835		<10	144	<10	102	0.002	
W17836		<10	159	<10	113	0.004	
W17837		<10	189	<10	105	0.002	
W17838		<10	514	<10	303	0.003	
W17839		<10	368	<10	181	0.003	
W17844		<10	317	<10	195	0.002	
W17845		<10	312	<10	143	0.002	
W17849		<10	270	<10	126	0.003	
W17855		<10	261	<10	141	0.002	
W17856		<10	365	<10	126	0.001	
W17857		<10	362	<10	150	0.001	
W17858		<10	370	<10	135	0.002	
W17859		<10	357	<10	128	0.002	
W17860		<10	315	<10	137	0.002	
W17861		<10	278	<10	134	0.002	
W17862		<10	314	<10	134	0.001	
W17863		<10	302	<10	158	0.002	
W17864		<10	291	<10	148	0.003	



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## CERTIFICATE OF ANALYSIS AD17178520

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
W17865		1.70	<0.5	7.14	<5	200	<0.5	<2	6.04	0.5	55	318	130	11.35	20	1.02
W17866		1.92	<0.5	6.89	<5	200	0.5	<2	5.99	0.5	55	312	137	10.90	20	1.01
W17867		2.15	<0.5	6.74	<5	240	0.5	<2	6.27	0.8	55	349	107	10.05	20	0.99
W17868		2.25	<0.5	7.11	<5	220	0.5	<2	6.39	<0.5	58	324	202	10.80	20	0.70
W17869		2.35	<0.5	7.09	<5	310	0.5	<2	5.78	0.5	56	350	114	10.90	20	0.90
W17870		2.29	<0.5	7.03	<5	280	0.5	<2	5.34	0.5	55	340	125	10.75	20	1.02
W17875		0.05	3.0	7.06	55	1130	1.4	<2	3.78	1.8	26	135	3600	5.61	20	2.09
W17876		2.45	<0.5	5.19	<5	150	<0.5	<2	6.31	0.7	64	728	84	11.00	10	0.69
W17877		1.97	<0.5	6.37	<5	210	<0.5	<2	5.80	0.5	65	515	124	11.55	20	1.03
W17878		2.20	<0.5	5.41	<5	210	<0.5	<2	5.92	<0.5	62	567	102	11.20	10	0.94
W17879		1.89	<0.5	7.08	<5	290	<0.5	<2	5.89	0.5	55	303	109	10.85	20	1.28
W17880		2.07	<0.5	4.63	<5	150	<0.5	<2	6.99	0.7	60	672	77	10.50	10	0.67
W17881		2.70	<0.5	2.22	<5	30	<0.5	<2	8.05	0.7	70	972	127	9.57	10	0.15
W17882		3.71	<0.5	2.23	<5	20	<0.5	<2	7.89	<0.5	68	1020	95	9.21	10	0.12
W17883		2.39	<0.5	6.11	<5	200	<0.5	<2	5.78	0.5	59	508	106	10.95	10	0.65
W17884		2.75	<0.5	7.25	<5	280	<0.5	<2	4.93	0.6	53	339	102	10.90	10	1.20
W17885		1.91	<0.5	2.04	<5	20	<0.5	2	8.45	0.9	71	1130	142	11.00	10	0.12
W17886		2.23	<0.5	2.11	<5	20	0.5	<2	8.36	0.7	76	1140	172	8.91	<10	0.10
W17887		5.48	<0.5	2.23	<5	20	0.5	<2	8.46	<0.5	78	1170	177	9.37	10	0.11
W17892		2.40	<0.5	2.48	<5	20	0.6	<2	8.75	<0.5	81	1110	163	8.42	10	0.14
W17897		2.30	<0.5	3.05	<5	40	0.5	<2	7.70	0.6	64	876	112	7.85	10	0.18
W17898		2.35	<0.5	2.31	<5	30	0.5	<2	8.03	0.5	79	1100	142	8.15	10	0.18
W17899		2.22	<0.5	2.18	<5	30	0.5	<2	8.32	<0.5	78	1060	172	7.82	10	0.17
W17900		0.05	<0.5	5.48	13	30	1.0	<2	1.65	<0.5	25	46	38	2.66	10	3.64
W17901		2.13	<0.5	2.56	<5	50	0.5	<2	8.25	0.5	76	1070	163	7.56	10	0.23
W17902		1.68	<0.5	2.38	<5	320	<0.5	<2	7.65	0.7	79	1290	137	7.58	10	0.68
W17903		3.91	<0.5	2.35	<5	120	<0.5	<2	8.41	0.5	73	1270	156	7.28	10	0.37
W17908		5.28	<0.5	7.76	<5	170	<0.5	<2	7.67	<0.5	55	292	77	10.30	20	0.86
W17909		2.05	<0.5	8.20	<5	150	<0.5	<2	8.13	0.9	53	176	88	10.15	20	0.67
W17910		1.86	<0.5	8.79	<5	120	<0.5	<2	8.38	<0.5	57	177	92	10.75	20	0.55
W17911		2.73	<0.5	8.71	<5	140	<0.5	<2	8.30	<0.5	57	168	213	10.45	20	0.61
W17912		2.04	<0.5	8.67	<5	140	<0.5	<2	8.30	<0.5	52	156	87	10.40	20	0.56
W17913		2.34	<0.5	8.39	<5	100	<0.5	<2	8.29	<0.5	52	154	93	10.50	20	0.44
W17914		3.91	<0.5	8.25	<5	120	<0.5	2	7.98	<0.5	53	209	90	10.30	20	0.53
W17915		2.24	<0.5	8.42	<5	130	<0.5	<2	8.08	<0.5	53	194	110	10.40	20	0.64
W17916		2.30	<0.5	3.29	<5	80	<0.5	<2	8.38	<0.5	73	1050	188	9.29	10	0.38
W17917		3.28	<0.5	3.00	<5	60	0.5	3	8.68	0.5	65	1010	195	8.96	10	0.33
W17918		2.34	<0.5	3.95	<5	80	0.5	<2	8.46	<0.5	61	819	107	9.57	10	0.39
W17919		2.40	<0.5	5.40	<5	110	0.5	<2	7.45	<0.5	62	637	87	9.61	10	0.48
W17920		2.83	<0.5	8.21	<5	320	<0.5	<2	6.53	<0.5	47	320	58	9.16	20	1.13



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## CERTIFICATE OF ANALYSIS AD17178520

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	Ti
		ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	ppm 1	ppm 20	% 0.01	ppm 10
W17865		10	5.22	2000	<1	0.61	120	1420	8	0.29	<5	45	394	<20	0.82	<10
W17866		10	5.24	1920	<1	0.60	122	1320	4	0.29	<5	43	391	<20	0.78	10
W17867		10	5.35	1760	1	0.94	115	1040	4	0.20	<5	45	276	<20	0.70	<10
W17868		10	5.31	1910	1	1.35	115	1380	9	0.13	<5	41	165	<20	0.80	<10
W17869		10	5.67	1975	1	1.30	116	1110	13	0.11	<5	44	156	<20	0.73	<10
W17870		10	5.82	2120	<1	1.14	118	1180	20	0.03	<5	42	178	<20	0.74	<10
W17875		50	1.84	812	55	2.18	2290	940	2090	0.40	<5	18	294	20	0.67	10
W17876		10	8.15	1865	<1	0.62	200	640	3	0.24	<5	54	82	<20	0.41	<10
W17877		10	6.57	1805	1	0.62	146	660	2	0.73	<5	55	173	<20	0.59	<10
W17878		10	6.61	1820	<1	0.62	154	610	<2	0.77	<5	54	117	<20	0.55	<10
W17879		10	5.14	1890	<1	0.76	108	1810	<2	0.31	<5	45	233	<20	0.99	<10
W17880		10	7.49	1805	1	0.64	170	410	4	0.14	<5	53	80	<20	0.38	<10
W17881		10	9.54	1830	1	0.32	244	380	7	0.08	<5	57	26	<20	0.22	<10
W17882		10	9.72	1835	<1	0.38	241	310	5	0.04	<5	54	28	<20	0.21	<10
W17883		10	6.95	1845	<1	0.87	150	990	<2	0.22	<5	48	149	<20	0.63	<10
W17884		10	5.79	2040	<1	0.85	117	1020	4	0.17	<5	44	209	<20	0.72	<10
W17885		10	8.86	1780	1	0.25	256	320	10	0.88	<5	69	22	<20	0.25	<10
W17886		10	9.51	1590	1	0.25	269	240	<2	0.40	<5	54	17	<20	0.21	10
W17887		10	9.67	1615	<1	0.26	283	270	8	0.47	<5	56	20	<20	0.22	<10
W17892		10	10.20	1445	1	0.34	272	170	2	0.38	6	58	26	<20	0.28	<10
W17897		10	8.88	1520	1	0.91	246	280	5	0.09	<5	42	66	<20	0.34	<10
W17898		10	10.40	1575	<1	0.45	303	110	4	0.19	<5	48	36	<20	0.29	<10
W17899		10	10.25	1495	1	0.38	277	110	3	0.18	<5	52	26	<20	0.30	<10
W17900		<10	0.79	346	7	1.51	33	570	40	0.02	<5	8	73	<20	0.30	10
W17901		10	10.15	1385	1	0.40	259	100	<2	0.15	<5	52	32	<20	0.32	<10
W17902		10	11.15	1415	1	0.44	343	60	5	0.24	<5	41	45	<20	0.42	<10
W17903		10	10.80	1425	3	0.53	333	70	<2	0.19	<5	49	49	<20	0.42	<10
W17908		<10	5.26	1345	<1	0.66	112	930	<2	0.24	<5	49	449	<20	0.83	10
W17909		<10	4.73	1340	<1	0.79	59	1010	2	0.21	<5	50	474	<20	0.94	<10
W17910		<10	5.07	1350	1	0.80	56	880	4	0.29	<5	61	495	<20	0.99	<10
W17911		<10	4.93	1380	1	0.86	55	990	7	0.32	<5	58	501	<20	0.97	<10
W17912		<10	4.76	1310	<1	0.87	48	950	<2	0.30	<5	59	505	<20	0.97	<10
W17913		<10	4.76	1355	1	0.88	49	1030	5	0.26	<5	52	526	<20	0.95	<10
W17914		<10	4.92	1360	<1	0.95	61	1040	2	0.35	<5	53	557	<20	0.90	<10
W17915		<10	5.30	1470	<1	0.81	62	860	4	0.24	<5	56	580	<20	0.91	<10
W17916		10	9.31	1495	1	0.52	317	110	5	0.34	<5	62	94	<20	0.50	<10
W17917		10	9.35	1550	1	0.53	204	90	3	0.21	<5	70	67	<20	0.47	<10
W17918		10	8.22	1615	1	0.71	137	130	7	0.17	<5	73	91	<20	0.64	<10
W17919		10	7.66	1770	1	1.03	166	440	6	0.12	<5	55	141	<20	0.58	<10
W17920		10	5.06	1545	<1	1.02	91	1410	4	0.10	<5	31	320	<20	0.81	<10



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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-ICP22	PUL-QC
		U	V	W	Zn	Au	Pass75um
		ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.001	% 0.01
W17865		<10	350	<10	137	0.003	
W17866		<10	299	<10	132	0.003	
W17867		<10	299	<10	110	0.002	
W17868		<10	357	<10	121	0.001	
W17869		<10	326	<10	221	<0.001	99.0
W17870		<10	314	<10	127	<0.001	
W17875		<10	142	<10	1060	0.476	
W17876		<10	217	<10	170	0.001	
W17877		<10	293	<10	108	0.002	
W17878		<10	286	<10	97	0.005	
W17879		<10	344	<10	120	0.001	
W17880		<10	218	<10	120	<0.001	
W17881		<10	150	<10	125	<0.001	
W17882		<10	140	<10	121	<0.001	
W17883		<10	284	<10	129	0.001	
W17884		<10	299	<10	132	0.001	
W17885		<10	174	<10	113	0.002	
W17886		<10	137	<10	109	0.002	
W17887		<10	140	<10	117	0.001	
W17892		<10	180	<10	116	<0.001	
W17897		<10	167	<10	84	0.001	
W17898		<10	163	<10	103	<0.001	
W17899		<10	181	<10	77	0.001	
W17900		<10	66	<10	57	0.017	
W17901		<10	191	<10	79	<0.001	
W17902		<10	162	<10	92	0.001	
W17903		<10	194	<10	80	0.001	
W17908		<10	384	<10	141	0.001	
W17909		<10	418	<10	106	0.001	
W17910		<10	458	<10	98	0.001	
W17911		<10	451	<10	105	0.001	
W17912		<10	431	<10	99	0.001	
W17913		<10	437	<10	107	0.002	
W17914		<10	414	<10	111	0.001	
W17915		<10	419	<10	103	0.002	
W17916		<10	263	<10	91	0.008	
W17917		<10	297	<10	92	0.003	
W17918		<10	366	<10	98	0.001	
W17919		<10	305	<10	114	<0.001	
W17920		<10	315	<10	109	0.001	



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## CERTIFICATE OF ANALYSIS AD17178520

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
W17921		1.75	<0.5	7.48	<5	250	<0.5	<2	6.51	<0.5	53	490	80	9.13	10	0.89
W17922		1.96	<0.5	5.80	<5	150	0.5	<2	6.41	0.8	58	599	74	9.99	10	0.51
W17923		2.12	<0.5	7.15	<5	220	0.5	<2	6.37	<0.5	60	456	75	10.30	20	0.86
W17924		2.31	<0.5	8.03	<5	330	<0.5	<2	6.25	<0.5	53	399	80	9.41	20	1.09
W17925		0.06	<0.5	15.35	21	50	<0.5	<2	0.02	<0.5	<1	161	6	15.50	50	0.14
W17926		2.97	<0.5	5.20	<5	130	<0.5	<2	8.15	<0.5	49	516	59	8.82	10	0.38
W17927		3.60	<0.5	7.73	<5	170	<0.5	<2	5.61	0.5	51	313	111	9.72	20	0.55
W17928		2.69	<0.5	8.62	<5	260	0.5	<2	5.06	<0.5	53	312	101	10.25	20	1.02
W17929		2.37	<0.5	5.82	<5	110	0.5	<2	7.71	<0.5	59	498	79	9.57	10	0.40
W17930		2.85	<0.5	6.19	<5	50	0.6	<2	8.75	<0.5	60	578	75	9.11	10	0.28
W17931		2.18	<0.5	6.13	<5	90	0.5	<2	7.58	0.7	60	566	89	9.46	10	0.48
W17932		2.78	<0.5	6.14	<5	150	0.5	<2	7.37	0.5	61	546	82	9.64	10	0.63
W17933		4.38	<0.5	6.99	<5	120	0.5	<2	7.55	0.7	55	441	67	9.50	10	0.51
W17934		2.26	<0.5	7.61	<5	250	0.5	<2	6.00	<0.5	57	324	103	10.80	20	1.05
W17935		1.96	<0.5	8.10	<5	220	0.6	<2	6.18	0.5	58	324	102	10.85	20	1.01
W17936		1.85	<0.5	7.97	<5	210	0.5	<2	6.21	<0.5	61	314	98	10.50	20	1.06
W17937		2.37	<0.5	8.26	<5	200	<0.5	<2	6.47	<0.5	55	289	113	10.65	20	1.04
W17938		2.68	<0.5	8.64	<5	170	0.5	<2	6.61	<0.5	50	198	74	11.15	20	1.01
W17939		3.80	<0.5	8.19	<5	160	0.6	<2	6.88	<0.5	59	119	209	10.85	20	0.95
W17940		2.61	<0.5	7.94	<5	150	0.6	<2	6.65	<0.5	67	120	254	11.20	20	0.88
W17941		2.24	<0.5	7.61	<5	160	0.7	<2	6.71	<0.5	63	87	255	11.10	20	0.89
W17942		2.17	<0.5	8.52	<5	190	0.5	<2	6.82	<0.5	49	175	98	11.30	20	0.94
W17943		2.70	<0.5	7.37	<5	150	0.5	<2	7.51	<0.5	53	279	106	12.45	20	0.75
W17944		2.13	<0.5	3.29	<5	70	0.5	<2	7.35	0.5	66	935	126	12.35	10	0.39
W17945		2.03	<0.5	4.22	<5	50	0.6	<2	6.98	1.3	65	779	119	11.40	10	0.27
W17946		2.84	<0.5	4.42	<5	70	0.8	<2	7.51	2.0	55	590	109	10.15	10	0.38
W17947		2.52	<0.5	7.80	<5	210	0.7	<2	5.12	2.3	51	270	71	10.00	20	1.27
W17948		2.66	<0.5	7.15	<5	180	0.7	<2	6.40	4.1	53	309	82	9.33	20	0.68
W17949		3.34	<0.5	6.56	<5	170	0.6	<2	7.19	1.1	56	473	86	9.86	20	0.61
W17950		0.05	3.1	7.44	61	1180	1.5	<2	3.99	1.8	27	153	3840	5.80	20	2.17
W17951		2.87	<0.5	6.07	<5	180	0.6	<2	7.07	<0.5	55	467	71	8.75	10	0.63
W17952		2.79	<0.5	6.37	<5	180	0.7	<2	7.18	<0.5	55	383	82	8.63	10	0.65
W17953		2.91	<0.5	6.07	<5	180	0.6	<2	7.11	<0.5	52	482	65	8.36	10	0.64
W17954		1.75	<0.5	6.47	<5	180	0.6	2	7.13	0.6	59	407	113	9.15	10	0.71
W17955		1.75	<0.5	6.39	<5	200	0.5	<2	7.54	<0.5	63	411	231	9.69	10	0.83
W17956		3.20	<0.5	5.75	<5	100	0.5	<2	8.40	<0.5	55	550	131	8.78	10	0.49
W17957		2.39	<0.5	6.50	<5	130	0.5	<2	7.69	<0.5	55	503	87	8.44	10	0.70
W17958		2.73	<0.5	6.13	<5	150	0.5	<2	7.40	<0.5	53	523	62	8.39	10	0.72
W17959		2.71	<0.5	6.18	<5	150	0.6	<2	7.30	<0.5	57	512	106	9.09	10	0.76
W17960		2.32	<0.5	5.57	<5	120	0.5	<2	7.93	<0.5	59	553	134	8.80	10	0.65



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## CERTIFICATE OF ANALYSIS AD17178520

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	Ti
		ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	ppm 1	ppm 20	% 0.01	ppm 10
W17921		<10	6.67	1565	<1	0.93	110	480	6	0.14	<5	45	313	<20	0.48	<10
W17922		10	8.17	1740	1	1.23	130	280	4	0.06	<5	63	126	<20	0.56	<10
W17923		10	7.18	1785	<1	1.27	125	980	<2	0.03	<5	45	157	<20	0.74	<10
W17924		10	6.13	1735	1	1.19	113	1330	<2	0.09	<5	37	249	<20	0.72	<10
W17925		<10	0.02	361	19	0.01	9	100	13	0.05	8	4	4	50	0.88	10
W17926		10	6.93	1715	1	1.11	138	520	7	0.04	<5	44	56	<20	0.50	<10
W17927		10	5.38	1635	<1	1.47	96	1580	3	0.16	<5	40	182	<20	0.84	<10
W17928		10	5.21	1890	<1	1.27	97	1760	<2	0.31	<5	40	407	<20	0.95	<10
W17929		10	6.91	1695	<1	1.20	134	520	3	0.09	<5	52	92	<20	0.60	10
W17930		10	6.86	1650	<1	1.10	166	550	10	0.16	5	48	113	<20	0.58	<10
W17931		10	6.80	1705	1	1.21	162	540	16	0.11	<5	43	171	<20	0.58	<10
W17932		10	7.04	1725	<1	0.95	152	500	5	0.19	<5	52	185	<20	0.60	<10
W17933		10	6.18	1560	1	1.18	117	800	7	0.16	<5	52	178	<20	0.71	<10
W17934		10	5.44	1855	<1	0.97	113	1530	6	0.22	<5	44	259	<20	0.87	<10
W17935		10	5.15	1750	<1	0.86	112	1600	5	0.72	<5	45	369	<20	0.91	<10
W17936		10	5.21	1870	1	0.96	113	1590	<2	0.25	<5	40	261	<20	0.88	<10
W17937		10	5.11	1820	<1	0.89	104	1690	<2	0.10	<5	40	305	<20	0.89	<10
W17938		10	4.07	1805	<1	0.96	73	1960	<2	0.18	7	35	313	<20	1.00	<10
W17939		10	3.78	1680	<1	1.26	51	1840	<2	0.61	<5	45	311	<20	1.15	10
W17940		10	3.91	1760	<1	1.31	59	1910	<2	0.76	<5	46	291	<20	1.34	<10
W17941		10	4.09	1920	<1	1.33	55	2230	3	0.70	<5	50	273	<20	1.53	10
W17942		10	3.82	1865	1	1.03	54	1600	<2	0.33	<5	41	294	<20	0.87	<10
W17943		10	4.90	2030	1	0.70	74	1320	<2	0.21	<5	57	377	<20	0.87	<10
W17944		<10	8.27	2020	2	0.43	250	200	<2	0.36	<5	77	82	<20	0.39	<10
W17945		10	8.28	1800	<1	0.67	229	270	14	0.10	<5	70	78	<20	0.41	<10
W17946		10	6.59	1675	1	0.67	172	440	42	0.20	<5	63	101	<20	0.53	<10
W17947		10	5.51	1790	<1	1.19	96	1230	70	0.05	<5	45	208	<20	0.79	<10
W17948		10	5.78	1665	2	1.68	95	710	176	0.06	6	45	204	<20	0.67	<10
W17949		10	6.76	1735	1	1.35	132	900	66	0.07	<5	52	177	<20	0.69	<10
W17950		50	1.94	854	59	2.28	2390	1010	2190	0.42	<5	19	309	20	0.70	10
W17951		10	6.26	1565	2	1.26	132	510	9	0.15	<5	48	192	<20	0.57	<10
W17952		10	6.09	1520	1	1.47	114	650	9	0.17	<5	51	216	<20	0.57	<10
W17953		10	6.19	1510	1	1.42	116	660	<2	0.18	<5	49	192	<20	0.52	<10
W17954		10	6.18	1585	1	1.30	120	640	8	0.21	<5	52	213	<20	0.62	<10
W17955		10	6.26	1680	1	0.84	123	680	8	0.23	<5	54	236	<20	0.91	<10
W17956		10	6.84	1600	2	0.63	171	330	7	0.08	<5	53	148	<20	0.47	<10
W17957		10	6.59	1575	2	0.71	157	370	<2	0.05	<5	47	222	<20	0.36	<10
W17958		10	6.49	1455	1	0.88	161	340	3	0.03	<5	44	199	<20	0.34	<10
W17959		10	6.36	1595	<1	0.95	163	630	7	0.07	6	48	182	<20	0.60	<10
W17960		10	7.28	1635	1	0.67	188	220	3	0.08	<5	54	221	<20	0.30	<10



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**CERTIFICATE OF ANALYSIS AD17178520**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-ICP22	PUL-QC
		U	V	W	Zn	Au	Pass75um
		ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.001	% 0.01
W17921		<10	313	<10	85	<0.001	99.0
W17922		<10	336	<10	115	<0.001	
W17923		<10	336	<10	109	<0.001	
W17924		<10	328	<10	106	<0.001	
W17925		<10	432	<10	2	<0.001	
W17926		<10	278	<10	169	0.001	
W17927		<10	323	<10	130	<0.001	
W17928		<10	319	<10	99	0.002	
W17929		<10	306	<10	105	<0.001	
W17930		<10	293	<10	113	0.002	
W17931		<10	301	<10	136	0.001	
W17932		<10	326	<10	109	<0.001	
W17933		<10	324	<10	126	<0.001	
W17934		<10	351	<10	120	0.002	
W17935		<10	344	<10	121	0.001	
W17936		<10	339	<10	97	0.001	
W17937		<10	320	<10	126	0.001	
W17938		<10	271	<10	134	0.001	
W17939		<10	297	<10	133	0.001	
W17940		<10	319	<10	140	0.001	
W17941		<10	445	<10	117	0.001	
W17942		<10	254	<10	140	0.002	
W17943		<10	339	<10	161	0.001	
W17944		<10	221	<10	167	0.003	
W17945		<10	209	<10	274	0.002	
W17946		<10	256	<10	724	0.003	
W17947		<10	342	<10	522	0.005	
W17948		<10	360	<10	832	<0.001	
W17949		<10	322	<10	194	<0.001	
W17950		<10	147	10	1125	0.471	
W17951		<10	286	<10	109	0.001	
W17952		<10	298	10	108	0.001	
W17953		<10	263	<10	224	<0.001	
W17954		<10	317	10	133	0.004	
W17955		<10	388	<10	118	0.004	
W17956		<10	284	<10	106	0.003	
W17957		<10	252	<10	100	0.004	
W17958		<10	256	<10	106	0.001	
W17959		<10	319	<10	111	0.001	
W17960		<10	262	<10	103	0.002	





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

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**CERTIFICATE OF ANALYSIS AD17178520**

**CERTIFICATE COMMENTS**

**ACCREDITATION COMMENTS**

Applies to Method:

NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist.  
Au-ICP22 ME-ICP61

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. NATA Accreditation does not cover the performance of ALS Perth Sample Preparation which is processed at 79 Distinction Road, Wangara, WA, Australia  
Au-ICP22 ME-ICP61

Applies to Method:

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.  
BAG-01 LEV-01 LOG-22  
PUL-23 PUL-QC SPL-21

LOG-24  
WEI-21