



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

## CERTIFICATE PH18191327

Project: THOMAS CREEK

P.O. No.: SSF007

This report is for 220 Drill Core samples submitted to our lab in Perth, WA, Australia  
on 1-AUG-2018.

The following have access to data associated with this certificate:

ANDY RUST

Page: 1  
Total # Pages: 7 (A - D)  
Plus Appendix Pages  
Finalized Date: 23-AUG-2018  
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## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
TRSPEC-20	Spectral Scan VNIR and SWIR
CRU-31	Fine crushing - 70% <2mm
SPLIT-D	Create D Split
CRU-QC	Crushing QC Test
LOG-22	Sample login - Rcd w/o BarCode
SAM-COR01	Sample Core from Boxes - Regular
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-AA25	Ore Grade Au 30g FA AA finish AAS

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 PH18191327

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TCD 324		5.24	94.0	<0.01	0.03	8.57	6.2	590	1.70	0.10	3.24	0.02	50.9	43.5	138	1.05
TCD 325		5.57		<0.01	0.04	8.26	6.3	710	1.36	0.09	3.32	0.02	37.0	43.5	168	1.00
TCD 326		4.84		<0.01	0.07	8.75	7.1	760	1.39	0.13	3.34	0.04	49.4	52.4	157	1.03
TCD 327		5.31		<0.01	0.04	8.53	7.4	520	1.64	0.18	2.88	<0.02	50.1	52.4	200	1.23
TCD 328		5.95		<0.01	0.04	8.36	8.9	360	1.56	0.25	3.03	<0.02	47.1	60.7	195	1.16
TCD 329		6.42		<0.01	0.05	9.16	7.4	390	1.78	0.10	3.18	<0.02	132.0	50.9	171	1.45
TCD 330		6.08		0.02	0.03	8.23	6.0	310	1.52	0.09	2.74	<0.02	62.6	40.7	182	1.32
TCD 331		5.64		<0.01	0.02	7.69	6.9	280	1.39	0.14	3.27	<0.02	38.3	44.3	205	1.11
TCD 332		6.11		<0.01	0.02	7.40	7.8	320	1.44	0.14	3.28	<0.02	36.5	42.5	195	1.02
TCD 333		5.98		<0.01	0.02	7.50	6.4	220	1.41	0.22	3.01	<0.02	34.7	46.0	185	0.89
TCD 334		6.60		<0.01	0.02	7.66	6.2	240	1.43	0.16	3.13	<0.02	42.2	38.0	194	0.81
TCD 335		6.63		<0.01	0.02	8.06	8.3	200	1.64	0.18	3.31	<0.02	33.6	65.0	191	0.76
TCD 336		6.97		<0.01	0.05	7.97	7.8	310	1.63	0.21	2.48	<0.02	45.3	53.2	108	1.34
TCD 337		7.04		<0.01	0.04	7.83	7.1	290	1.78	0.27	2.55	<0.02	73.5	59.0	95	1.32
TCD 338		6.90		0.01	0.12	8.11	8.1	910	1.40	0.28	1.88	<0.02	60.6	48.8	60	1.30
TCD 339		6.15		0.02	0.07	8.09	8.7	1140	1.32	0.08	2.42	<0.02	68.8	30.9	69	1.57
TCD 340		4.84		0.01	0.08	8.40	9.3	1350	1.33	0.09	1.57	<0.02	72.5	31.6	49	1.51
TCD 341		7.03		<0.01	0.04	7.78	5.8	370	1.48	0.11	2.27	<0.02	45.0	31.6	92	0.98
TCD 342		6.04		<0.01	0.11	7.71	6.3	300	1.40	0.46	2.16	<0.02	28.8	57.5	87	1.30
TCD 343		6.72		<0.01	0.06	7.76	5.7	310	1.43	0.28	2.12	<0.02	33.4	58.1	90	1.27
TCD 344		6.34		<0.01	0.07	8.51	5.0	330	1.65	0.29	2.49	<0.02	40.6	46.4	105	1.36
TCD 345		4.93		<0.01	0.06	7.58	6.9	330	1.49	0.14	2.65	<0.02	54.7	51.0	111	0.97
TCD 346		5.67		<0.01	0.06	7.22	16.2	140	1.24	0.17	1.07	0.02	32.2	33.9	85	10.30
TCD 347		6.27		<0.01	0.05	8.03	5.5	280	1.45	0.20	2.51	<0.02	30.7	36.3	79	1.52
TCD 348		7.26		<0.01	0.04	8.24	7.5	260	1.54	0.26	3.12	<0.02	30.7	37.5	98	1.05
TCD 349		5.06		<0.01	0.13	8.02	5.6	280	1.46	0.30	2.71	0.03	40.2	36.5	102	1.26
TCD 350		6.35		<0.01	0.04	8.02	4.4	330	1.26	0.20	2.84	<0.02	49.3	31.3	110	1.30
TCD 351		6.53		<0.01	0.07	7.52	5.8	440	1.35	0.15	2.60	<0.02	92.5	40.5	100	1.40
TCD 352		5.57		<0.01	0.05	8.01	7.1	480	1.60	0.20	2.36	<0.02	80.1	53.6	91	1.25
TCD 353		6.26		<0.01	0.03	7.88	4.8	400	1.25	0.11	1.69	<0.02	28.4	30.6	92	1.51
TCD 354		6.85		<0.01	0.13	7.74	7.1	330	1.14	0.60	2.10	0.02	50.7	110.0	97	1.58
TCD 355		6.40		<0.01	0.12	7.98	7.7	310	1.26	0.69	1.90	0.02	27.2	102.0	117	1.39
TCD 356		7.10		<0.01	0.09	7.94	6.8	310	1.25	0.39	1.68	<0.02	58.6	70.1	105	1.22
TCD 357		5.94		0.01	0.14	8.21	7.2	360	1.33	0.33	1.58	0.03	90.7	77.2	111	1.62
TCD 358		7.40		<0.01	0.09	8.68	6.9	400	1.40	0.29	2.25	0.02	43.7	58.4	106	2.77
TCD 359		6.45		<0.01	0.06	7.80	6.3	340	1.37	0.39	1.79	<0.02	15.00	46.4	97	1.37
TCD 360		5.37		<0.01	0.05	7.67	5.8	350	1.43	0.26	1.54	<0.02	23.7	64.3	91	1.27
TCD 361		5.36		0.01	0.17	8.22	6.0	380	1.35	0.69	1.71	0.03	113.5	82.9	107	1.75
TCD 362		5.73		0.01	0.21	7.69	5.6	530	1.25	0.18	2.61	0.02	427	76.9	125	1.90
TCD 363		5.81		0.02	0.23	7.57	8.4	1040	1.37	0.16	2.73	0.08	54.8	74.7	169	1.20



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## CERTIFICATE OF ANALYSIS PH18191327

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
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
TCD 324		107.0	5.24	16.55	0.16	2.6	0.056	2.04	24.8	18.1	3.10	450	0.82	1.88	4.9
TCD 325		57.5	7.15	15.95	0.14	2.5	0.056	1.99	16.0	17.6	3.07	634	0.48	1.95	4.7
TCD 326		133.5	6.63	16.85	0.15	2.7	0.074	2.02	23.0	25.2	3.40	711	1.36	1.93	4.8
TCD 327		89.7	6.60	17.15	0.14	4.1	0.048	1.78	24.6	23.0	3.16	444	4.24	2.23	7.1
TCD 328		36.0	6.07	16.70	0.13	3.9	0.046	1.63	25.0	26.3	3.01	428	9.43	2.93	6.8
TCD 329		309	4.97	18.30	0.15	3.8	0.064	1.93	77.8	27.0	3.04	461	12.00	3.25	6.8
TCD 330		124.5	5.90	15.95	0.16	3.6	0.053	1.54	35.8	25.5	3.02	435	14.15	2.83	6.1
TCD 331		28.0	6.59	15.60	0.18	3.5	0.054	1.57	20.0	21.5	3.28	429	5.19	2.59	5.9
TCD 332		18.6	5.96	14.90	0.13	3.6	0.058	1.50	18.0	21.8	3.39	442	2.06	2.64	5.8
TCD 333		47.5	6.12	14.45	0.12	3.5	0.054	1.17	18.0	23.8	3.09	468	6.55	2.87	5.6
TCD 334		32.4	6.09	13.55	0.13	3.4	0.044	1.33	23.3	22.6	2.83	469	14.30	2.85	5.5
TCD 335		36.3	6.21	15.45	0.12	3.6	0.049	1.25	17.9	24.2	2.72	452	13.35	2.89	6.2
TCD 336		47.8	4.89	15.30	0.15	3.5	0.045	1.44	25.3	28.6	2.51	523	1.36	2.77	6.0
TCD 337		35.3	7.26	15.85	0.14	3.2	0.042	1.78	42.2	31.9	2.86	555	4.12	2.33	6.3
TCD 338		221	7.42	15.60	0.12	4.1	0.080	3.53	34.0	31.9	2.44	569	2.94	2.36	7.4
TCD 339		496	7.17	16.05	0.15	3.8	0.112	3.54	35.9	28.6	2.88	917	1.01	1.90	7.3
TCD 340		526	6.95	16.20	0.15	4.3	0.090	4.26	38.8	32.5	2.73	742	1.60	2.14	7.9
TCD 341		25.7	5.00	14.70	0.14	3.0	0.044	1.73	23.7	26.5	2.79	536	5.13	3.26	6.1
TCD 342		30.4	7.24	14.80	0.11	3.1	0.033	1.64	16.1	24.3	2.52	464	6.80	2.84	5.9
TCD 343		28.3	6.70	15.55	0.12	3.1	0.030	1.81	19.9	27.3	2.51	424	7.34	2.78	6.3
TCD 344		29.8	6.28	16.35	0.13	3.4	0.051	1.94	22.6	28.0	3.12	540	7.45	3.38	6.9
TCD 345		25.7	5.47	14.35	0.14	3.3	0.066	1.73	31.0	27.3	3.59	510	15.95	2.85	5.9
TCD 346		40.9	10.20	14.30	0.12	3.1	0.043	1.75	18.7	48.0	1.71	730	10.80	1.87	5.1
TCD 347		89.6	5.71	14.95	0.13	3.3	0.059	1.67	16.5	26.1	3.13	526	4.31	2.88	6.2
TCD 348		33.2	5.85	15.20	0.12	3.7	0.063	1.63	15.3	26.2	3.48	524	5.38	3.12	6.4
TCD 349		50.1	6.38	15.20	0.12	4.0	0.058	1.68	21.5	26.6	3.24	547	10.60	2.96	6.6
TCD 350		71.1	6.53	14.30	0.12	3.3	0.052	1.82	27.9	22.8	3.11	532	9.82	2.85	5.7
TCD 351		418	9.85	14.55	0.12	2.5	0.063	2.15	56.7	26.1	3.45	692	14.85	2.50	5.9
TCD 352		106.5	6.09	15.50	0.13	3.0	0.054	2.15	47.9	29.6	3.49	441	12.90	2.69	5.8
TCD 353		33.5	5.89	14.70	0.11	3.3	0.030	2.02	16.7	29.3	2.94	455	5.80	2.62	5.9
TCD 354		172.5	7.20	14.00	0.12	2.9	0.029	1.96	30.9	27.9	2.88	475	7.73	2.31	5.6
TCD 355		271	6.54	14.40	0.11	3.0	0.029	1.80	16.6	24.3	2.28	395	4.95	2.87	5.5
TCD 356		257	6.06	14.80	0.14	3.1	0.029	1.74	37.2	27.2	2.65	413	5.94	2.87	5.8
TCD 357		594	6.30	15.40	0.11	3.1	0.036	1.75	60.1	29.5	2.68	428	16.10	2.65	5.4
TCD 358		359	6.59	16.50	0.13	3.9	0.033	1.96	28.1	34.5	3.15	564	6.41	2.38	5.8
TCD 359		72.9	5.53	14.25	0.12	3.6	0.021	1.91	8.8	24.8	2.21	393	8.31	2.83	5.4
TCD 360		110.5	5.28	14.60	0.12	3.5	0.026	2.25	13.4	35.2	2.65	537	3.62	2.46	5.3
TCD 361		391	6.21	14.90	0.15	3.0	0.032	1.97	74.0	32.9	2.70	619	4.94	2.88	5.4
TCD 362		896	6.81	15.70	0.30	2.0	0.061	1.76	279	36.1	4.11	780	69.4	1.85	5.8
TCD 363		1540	6.94	14.85	0.09	2.2	0.085	3.39	32.6	32.5	4.47	680	16.75	1.46	5.3



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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TCD 324		380	2.6	109.0	<0.002	0.27	0.49	31.0	<1	1.6	241	0.36	<0.05	9.45	0.404	0.23
TCD 325		380	2.6	102.5	<0.002	0.30	0.52	32.6	<1	1.1	267	0.34	<0.05	9.42	0.395	0.23
TCD 326		470	2.7	108.5	0.002	0.37	0.53	33.3	<1	1.5	267	0.36	<0.05	10.40	0.426	0.21
TCD 327		530	2.0	115.0	0.004	0.39	0.49	32.6	<1	2.3	224	0.49	<0.05	11.10	0.416	0.21
TCD 328		510	1.9	102.5	0.007	0.45	0.57	29.8	<1	2.4	233	0.51	0.05	11.00	0.405	0.21
TCD 329		310	1.8	122.0	0.013	0.17	0.72	31.4	<1	3.6	277	0.54	<0.05	11.45	0.424	0.26
TCD 330		430	2.2	107.0	0.013	0.16	0.49	26.7	<1	3.0	235	0.47	<0.05	11.45	0.377	0.21
TCD 331		460	2.4	105.5	0.004	0.20	0.48	27.8	<1	2.7	234	0.46	<0.05	10.50	0.360	0.20
TCD 332		400	1.9	72.0	0.002	0.17	0.48	27.3	<1	3.5	237	0.48	<0.05	10.05	0.341	0.21
TCD 333		340	1.7	71.5	0.005	0.23	0.54	27.8	<1	2.9	218	0.45	<0.05	10.75	0.350	0.15
TCD 334		270	1.5	68.7	0.015	0.19	0.51	26.3	<1	2.7	174.0	0.43	<0.05	10.50	0.349	0.16
TCD 335		190	1.7	60.2	0.022	0.38	0.58	30.7	<1	2.6	195.5	0.47	<0.05	9.65	0.371	0.13
TCD 336		310	1.9	96.2	0.002	0.21	0.62	29.8	<1	2.7	225	0.47	<0.05	12.15	0.401	0.19
TCD 337		610	1.8	106.5	0.006	0.42	0.54	28.3	<1	3.5	178.0	0.48	<0.05	9.71	0.406	0.21
TCD 338		550	2.1	164.5	0.004	0.44	0.62	22.0	<1	3.1	165.0	0.51	0.05	10.15	0.402	0.37
TCD 339		450	6.1	173.5	<0.002	0.12	0.90	26.1	<1	2.8	190.0	0.48	<0.05	9.89	0.406	0.36
TCD 340		480	2.6	193.5	<0.002	0.14	1.10	26.0	<1	3.4	162.0	0.52	<0.05	10.35	0.422	0.44
TCD 341		310	1.7	85.4	0.007	0.15	0.63	28.6	<1	3.1	208	0.48	<0.05	9.96	0.396	0.20
TCD 342		480	2.3	119.0	0.007	0.73	0.45	22.2	1	1.8	219	0.42	0.11	9.87	0.380	0.21
TCD 343		450	1.9	119.0	0.006	0.49	0.47	19.3	<1	2.2	217	0.44	0.05	9.03	0.400	0.22
TCD 344		370	2.2	119.5	0.003	0.41	0.49	30.8	<1	2.5	235	0.51	0.06	11.40	0.444	0.22
TCD 345		310	1.9	95.9	0.007	0.27	0.74	54.2	<1	2.9	178.5	0.47	<0.05	13.45	0.402	0.17
TCD 346		180	3.7	106.5	0.008	0.18	7.00	24.6	<1	3.1	163.5	0.41	<0.05	11.70	0.329	0.20
TCD 347		160	4.0	120.5	0.005	0.20	0.83	28.4	<1	2.6	256	0.50	<0.05	10.25	0.416	0.21
TCD 348		350	2.6	102.5	0.003	0.22	0.65	29.0	<1	3.1	252	0.52	<0.05	11.45	0.411	0.19
TCD 349		160	9.6	113.0	0.006	0.24	0.57	29.5	<1	2.6	237	0.53	0.05	11.65	0.421	0.20
TCD 350		150	2.7	120.0	0.012	0.22	0.55	33.0	<1	2.3	247	0.46	<0.05	11.60	0.407	0.21
TCD 351		330	2.0	131.0	0.016	0.23	0.57	40.1	<1	3.7	205	0.43	<0.05	17.70	0.363	0.22
TCD 352		290	1.9	98.3	0.015	0.40	0.59	34.5	<1	2.6	198.0	0.44	<0.05	15.75	0.370	0.22
TCD 353		150	2.1	127.5	0.003	0.22	0.53	28.7	<1	1.6	196.5	0.47	<0.05	12.90	0.405	0.21
TCD 354		530	3.8	133.5	0.009	1.11	0.44	27.5	1	2.1	215	0.44	0.12	9.43	0.390	0.21
TCD 355		540	3.2	122.5	0.009	1.13	0.46	20.8	1	1.6	221	0.44	0.18	9.76	0.368	0.20
TCD 356		380	2.6	112.0	0.010	0.64	0.55	24.5	<1	1.7	234	0.43	0.07	10.60	0.374	0.20
TCD 357		510	2.7	122.5	0.027	0.69	0.48	25.2	1	2.4	236	0.42	0.06	8.27	0.361	0.20
TCD 358		450	6.0	148.5	0.009	0.49	0.49	27.2	<1	1.6	283	0.50	0.06	11.20	0.400	0.24
TCD 359		400	3.1	123.5	0.008	0.48	0.50	24.0	<1	1.2	237	0.46	0.08	10.30	0.353	0.22
TCD 360		320	2.3	113.5	0.005	0.64	0.61	24.5	<1	1.5	220	0.44	0.05	9.57	0.352	0.21
TCD 361		250	4.8	121.5	0.008	0.96	0.54	21.6	1	1.4	221	0.48	0.10	13.00	0.394	0.21
TCD 362		240	4.7	118.0	0.066	0.51	0.67	26.0	1	3.9	272	0.49	<0.05	15.65	0.381	0.20
TCD 363		270	3.2	133.5	0.021	0.51	0.82	32.8	1	4.8	214	0.43	<0.05	14.80	0.349	0.23



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**CERTIFICATE OF ANALYSIS PH18191327**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD 324		2.1	244	0.8	30.0	16	88.4	79.5
TCD 325		1.9	249	0.6	23.9	22	84.5	
TCD 326		2.2	258	0.8	26.4	30	94.3	
TCD 327		3.1	235	1.9	31.4	19	146.0	
TCD 328		3.0	213	0.7	27.4	21	137.5	
TCD 329		3.1	163	1.0	29.1	29	136.5	
TCD 330		2.9	183	0.7	25.7	24	129.5	
TCD 331		2.6	218	0.4	25.3	17	127.5	
TCD 332		2.8	157	0.6	24.8	20	127.0	
TCD 333		3.0	143	0.7	22.6	25	125.0	
TCD 334		2.9	134	0.8	20.2	24	138.0	
TCD 335		2.9	143	0.8	21.0	25	135.0	
TCD 336		2.6	120	1.0	18.0	32	126.0	
TCD 337		2.4	168	1.0	18.4	28	115.0	
TCD 338		4.5	168	1.7	23.2	31	144.0	
TCD 339		3.6	189	1.6	25.2	41	134.0	
TCD 340		5.2	187	1.8	24.6	42	154.0	
TCD 341		2.6	114	1.2	17.0	27	107.5	
TCD 342		2.3	260	0.6	12.7	21	112.0	
TCD 343		2.4	235	0.6	11.8	21	114.0	
TCD 344		2.8	165	0.8	16.7	25	120.5	
TCD 345		2.8	110	0.8	20.4	23	117.5	
TCD 346		3.8	83	1.1	11.2	23	111.5	
TCD 347		3.2	94	0.7	16.8	28	121.0	
TCD 348		2.9	99	0.7	19.7	24	132.0	
TCD 349		2.8	103	0.6	16.1	34	136.5	
TCD 350		2.6	106	0.6	15.2	24	115.5	
TCD 351		4.7	91	0.7	19.0	27	86.6	
TCD 352		3.5	90	1.3	13.9	36	106.5	
TCD 353		2.7	77	0.6	6.7	35	126.0	
TCD 354		2.7	84	0.4	8.6	33	107.0	
TCD 355		3.7	73	0.7	6.4	31	111.0	
TCD 356		2.9	89	0.7	7.4	30	113.0	
TCD 357		4.3	104	1.2	7.3	33	110.5	
TCD 358		3.1	128	0.5	6.7	40	141.5	
TCD 359		2.7	101	0.5	6.5	32	128.5	
TCD 360		2.5	108	2.3	8.9	50	125.0	
TCD 361		3.1	95	1.4	9.0	55	105.0	
TCD 362		3.0	91	1.4	15.8	58	68.5	
TCD 363		6.1	122	1.0	16.4	59	78.9	



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## CERTIFICATE OF ANALYSIS PH18191327

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TCD 364		6.29		0.01	0.09	7.17	6.9	530	1.32	0.16	3.17	<0.02	23.7	52.8	155	1.10
TCD 365		5.76		<0.01	0.08	8.01	7.1	660	1.26	0.15	3.15	<0.02	32.7	56.3	111	1.75
TCD 366		4.17		0.01	0.10	8.10	11.6	1350	1.47	0.22	2.15	<0.02	40.1	86.0	122	1.88
TCD 367		4.68		<0.01	0.11	8.40	8.8	540	1.63	0.21	1.77	<0.02	66.7	52.3	85	2.76
TCD 368		5.59		<0.01	0.16	8.19	5.1	310	1.32	0.55	0.95	<0.02	20.6	93.9	127	1.39
TCD 369		6.23		<0.01	0.09	7.93	5.9	240	1.32	0.39	0.68	<0.02	15.20	113.0	144	0.72
TCD 370		2.40		<0.01	0.07	8.03	8.4	310	1.37	0.54	0.75	<0.02	13.95	165.5	158	0.71
TCD 371		2.06		<0.01	0.05	8.13	6.3	550	1.47	0.44	0.79	<0.02	20.6	93.1	158	1.57
TCD 372		1.70		0.01	0.11	7.59	7.5	2620	0.90	0.13	1.43	<0.02	28.3	25.6	114	0.97
TCD 373		1.80		0.02	0.09	7.47	7.8	2410	1.20	0.12	2.04	<0.02	10.50	22.1	138	0.89
TCD 374		1.75	96.0	0.02	0.12	8.10	6.7	2210	0.98	0.12	1.53	<0.02	26.7	30.4	130	1.26
TCD 375		1.48		0.02	0.08	7.83	6.1	1500	0.87	0.12	0.92	<0.02	54.0	60.7	139	1.30
TCD 376		1.42		<0.01	0.04	8.01	4.5	310	1.30	0.20	0.92	<0.02	29.2	107.5	160	0.68
TCD 377		1.15		0.03	0.21	7.91	11.8	280	1.08	0.34	1.22	<0.02	64.4	177.5	159	0.67
TCD 378		1.18		0.01	0.16	8.18	11.6	320	1.33	0.62	0.98	0.02	95.6	124.5	174	2.00
TCD 379		1.50		<0.01	0.09	9.25	11.8	510	1.65	0.25	1.44	0.02	106.5	71.6	148	3.18
TCD 380		3.02		<0.01	0.10	8.77	8.8	300	1.35	0.21	1.62	0.02	106.0	47.5	143	2.77
TCD 381		3.01		<0.01	0.06	8.40	6.2	220	1.19	0.19	1.18	<0.02	43.9	75.1	150	1.93
TCD 382		3.02		<0.01	0.04	8.28	5.8	310	1.14	0.22	1.68	<0.02	33.9	62.0	174	1.14
TCD 383		2.62		0.01	0.08	7.84	8.5	290	0.90	0.25	1.38	0.02	96.4	69.8	134	1.35
TCD 384		3.53		<0.01	0.05	8.22	6.7	400	1.22	0.14	1.52	<0.02	24.2	57.0	164	1.36
TCD 385		3.48		<0.01	0.04	8.04	5.2	380	1.10	0.21	1.52	<0.02	16.40	69.9	161	1.56
TCD 386		3.61		<0.01	0.03	7.56	5.1	350	0.92	0.06	1.35	<0.02	35.1	42.4	161	1.24
TCD 387		3.64		<0.01	0.05	8.24	5.0	370	1.19	0.13	1.37	<0.02	27.0	42.8	197	1.51
TCD 388		2.43		<0.01	0.03	8.05	4.4	320	1.26	0.15	1.38	<0.02	23.3	42.9	170	1.70
TCD 389		3.02		<0.01	0.06	8.31	6.8	460	1.36	0.23	1.35	<0.02	18.00	54.8	145	2.03
TCD 390		2.92		<0.01	0.07	7.96	8.3	440	1.25	0.31	1.70	<0.02	18.50	72.4	167	2.09
TCD 391		3.13		<0.01	0.05	7.92	6.6	520	1.29	0.17	1.97	0.05	38.4	45.7	172	2.45
TCD 392		3.57		<0.01	0.03	8.00	4.9	600	1.19	0.06	1.54	0.03	62.1	27.0	160	3.89
TCD 393		3.28		<0.01	0.04	8.14	5.1	550	1.40	0.10	1.73	0.03	61.1	34.4	163	3.77
TCD 394		3.18		<0.01	0.06	8.10	6.7	550	1.44	0.16	1.82	0.04	43.1	50.5	179	2.47
TCD 395		3.79		<0.01	0.06	7.91	4.5	440	1.32	0.22	1.23	0.06	44.3	59.5	183	4.98
TCD 396		3.07		<0.01	0.10	8.33	8.6	290	1.43	0.22	0.75	0.07	164.0	81.9	154	9.19
TCD 397		3.16		<0.01	0.08	8.53	7.3	310	1.20	0.43	0.90	0.04	14.95	113.5	179	3.22
TCD 398		3.81		<0.01	0.06	8.08	5.6	410	1.39	0.19	1.20	0.03	47.3	67.7	187	6.55
TCD 399		3.26		<0.01	0.06	7.98	5.4	610	1.45	0.09	1.45	0.02	63.4	43.2	149	6.10
TCD 400		2.98		<0.01	0.05	8.06	5.6	800	1.53	0.11	1.57	0.05	67.9	37.8	160	6.34
TCD 401		3.28		<0.01	0.04	7.88	4.0	630	1.34	0.07	1.54	0.03	61.7	33.0	175	7.77
TCD 402		2.83		<0.01	0.06	8.18	6.8	360	1.50	0.20	1.49	0.04	59.3	48.8	141	2.90
TCD 403		2.91		0.01	0.05	7.09	4.8	370	1.16	0.12	1.57	<0.02	39.9	62.4	116	3.26



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## CERTIFICATE OF ANALYSIS PH18191327

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
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
TCD 364		544	5.72	13.55	0.19	2.2	0.088	2.02	10.3	21.3	4.33	486	8.32	2.36	5.8
TCD 365		377	6.04	14.75	0.28	1.8	0.089	2.37	15.2	28.8	4.75	636	5.13	2.09	5.9
TCD 366		495	6.50	14.35	0.14	2.2	0.071	4.08	22.2	31.7	3.62	771	6.21	1.66	4.8
TCD 367		613	5.70	16.50	0.12	3.0	0.049	2.28	42.1	45.7	3.32	824	3.69	2.14	5.7
TCD 368		123.0	6.09	13.95	0.11	3.0	0.040	1.62	11.9	30.0	2.37	592	3.49	3.69	4.6
TCD 369		150.5	5.61	13.45	0.13	2.9	0.062	1.21	8.9	32.3	2.07	484	2.82	4.24	4.4
TCD 370		69.2	5.31	15.00	0.12	3.2	0.038	1.54	8.3	28.6	2.27	497	5.97	4.19	5.1
TCD 371		279	5.04	15.40	0.13	3.1	0.041	2.51	12.9	34.9	2.68	682	1.58	3.31	5.0
TCD 372		971	7.70	13.65	0.14	2.7	0.078	7.22	17.5	34.2	3.34	969	1.55	0.41	5.4
TCD 373		872	7.49	13.20	0.16	2.7	0.099	6.77	4.3	32.7	3.61	1050	0.21	0.62	5.1
TCD 374		1060	7.30	15.15	0.12	3.0	0.067	6.49	15.5	35.5	3.38	873	0.27	1.06	5.9
TCD 375		561	6.33	14.60	0.12	2.9	0.033	4.02	34.1	35.1	2.84	623	0.32	2.08	5.4
TCD 376		107.5	4.70	13.70	0.15	2.9	0.027	1.58	17.3	19.0	1.62	334	1.68	4.28	6.2
TCD 377		1130	6.24	14.10	0.13	3.1	0.034	1.50	38.5	18.1	1.61	334	16.85	4.19	5.3
TCD 378		524	4.73	13.70	0.14	3.4	0.027	1.52	50.4	18.6	1.62	366	7.39	3.59	6.0
TCD 379		237	4.07	16.95	0.15	3.7	0.021	2.21	58.1	29.3	2.45	421	4.54	2.83	7.1
TCD 380		191.5	3.89	15.50	0.15	3.9	0.019	1.44	60.6	20.7	1.57	289	2.13	3.38	6.3
TCD 381		169.0	5.29	14.90	0.12	3.7	0.027	1.28	23.1	21.4	1.85	369	27.3	3.95	6.1
TCD 382		121.5	4.91	13.80	0.13	3.3	0.028	1.55	19.0	23.5	2.43	441	9.67	3.96	5.5
TCD 383		358	4.93	13.65	0.13	3.3	0.035	1.31	58.5	27.6	2.45	464	15.55	3.52	5.8
TCD 384		82.1	4.54	14.70	0.13	3.0	0.034	1.73	15.0	24.8	2.19	424	4.18	3.62	5.6
TCD 385		58.4	5.08	15.25	0.11	3.0	0.035	1.84	10.1	27.2	2.29	435	11.85	3.25	5.3
TCD 386		73.1	4.49	13.65	0.13	2.8	0.028	1.74	21.0	30.0	2.51	454	6.14	3.17	4.5
TCD 387		166.5	4.79	14.45	0.11	3.0	0.025	1.65	16.2	38.6	3.00	646	10.40	3.60	5.1
TCD 388		60.1	3.91	13.30	0.12	2.8	0.026	1.52	14.4	33.0	2.34	530	11.00	3.57	4.7
TCD 389		230	4.14	13.85	0.11	3.1	0.027	1.92	10.4	34.3	2.37	497	1.66	3.38	5.6
TCD 390		177.0	5.25	14.85	0.10	3.6	0.034	1.79	11.1	42.4	2.87	606	7.29	2.77	5.2
TCD 391		144.0	4.77	14.75	0.13	3.5	0.025	1.54	20.3	32.1	2.66	516	0.76	2.45	5.8
TCD 392		25.4	4.64	12.55	0.23	3.5	0.011	1.61	30.3	20.9	2.49	349	0.51	1.77	5.7
TCD 393		62.9	5.62	15.60	0.12	3.5	0.023	1.57	29.7	30.9	2.76	450	0.44	1.85	6.3
TCD 394		141.0	4.81	13.80	0.08	3.3	0.027	1.60	21.1	25.9	2.01	438	0.84	2.50	6.1
TCD 395		199.5	5.82	14.65	0.08	3.5	0.025	1.84	22.0	24.0	2.03	380	1.49	2.03	5.9
TCD 396		419	7.86	16.70	0.15	3.6	0.026	2.05	91.5	23.1	1.95	477	14.75	1.96	6.4
TCD 397		173.0	5.18	13.85	0.08	3.5	0.034	1.71	8.2	17.5	1.40	291	21.0	3.91	5.3
TCD 398		260	6.33	17.70	0.13	3.6	0.025	1.97	23.3	29.1	2.81	308	1.51	2.01	7.5
TCD 399		84.8	5.59	14.50	0.12	3.7	0.024	1.76	30.1	29.6	2.12	354	1.07	1.73	6.6
TCD 400		88.1	5.22	14.05	0.13	3.6	0.019	1.77	32.2	28.6	1.97	362	1.03	1.74	6.2
TCD 401		57.2	5.96	15.70	0.15	3.5	0.020	1.99	29.2	31.1	2.64	314	0.82	1.42	7.8
TCD 402		144.5	4.39	13.45	0.11	3.6	0.022	1.53	28.6	19.8	1.51	386	2.61	2.48	6.2
TCD 403		340	4.97	12.20	0.28	2.8	0.021	1.56	20.3	18.8	2.08	378	1.52	1.52	5.1





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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	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TCD 364		350	2.2	122.0	0.015	0.34	0.65	40.1	<1	4.2	224	0.47	<0.05	14.80	0.346	0.21
TCD 365		240	2.4	134.0	0.008	0.39	0.65	30.6	<1	4.7	238	0.46	<0.05	18.90	0.354	0.26
TCD 366		350	3.1	184.5	0.011	0.63	0.77	20.4	<1	3.6	237	0.38	0.06	32.6	0.307	0.31
TCD 367		320	3.0	150.5	0.008	0.38	0.65	27.9	1	2.7	217	0.49	<0.05	10.50	0.419	0.27
TCD 368		140	3.7	92.8	0.010	1.32	0.49	18.6	1	1.3	146.0	0.48	0.12	10.95	0.351	0.17
TCD 369		170	5.6	66.3	0.010	1.15	0.57	17.1	1	1.1	142.5	0.41	0.12	11.65	0.310	0.12
TCD 370		490	2.4	86.2	0.015	1.15	0.58	20.7	1	1.2	165.0	0.47	0.13	12.10	0.321	0.17
TCD 371		250	2.2	155.5	0.004	0.64	0.45	21.6	1	1.4	190.0	0.48	0.08	11.80	0.336	0.24
TCD 372		550	2.2	158.0	0.002	0.19	0.71	20.1	1	2.5	138.5	0.36	<0.05	9.60	0.344	0.36
TCD 373		520	2.0	157.0	<0.002	0.14	0.81	23.6	<1	2.9	167.0	0.35	<0.05	9.24	0.343	0.35
TCD 374		470	2.6	181.0	<0.002	0.20	0.74	24.1	1	2.3	175.0	0.40	<0.05	9.38	0.363	0.33
TCD 375		410	2.3	152.5	<0.002	0.34	0.48	22.6	<1	1.9	171.0	0.39	<0.05	8.43	0.334	0.28
TCD 376		250	1.7	80.7	0.004	0.70	0.49	12.3	1	2.8	144.0	0.44	0.06	10.65	0.329	0.15
TCD 377		1590	2.4	73.6	0.035	1.67	0.77	16.1	1	2.1	154.5	0.43	0.09	11.00	0.320	0.15
TCD 378		510	3.4	104.5	0.026	1.39	0.73	19.4	1	1.0	164.0	0.48	0.11	13.00	0.323	0.18
TCD 379		650	3.8	152.5	0.010	1.11	0.77	32.4	<1	1.0	174.0	0.46	0.07	12.40	0.409	0.27
TCD 380		570	4.8	109.0	0.004	1.59	0.82	27.0	<1	1.0	193.5	0.42	0.17	12.05	0.335	0.20
TCD 381		340	2.6	85.0	0.049	1.05	0.59	18.6	1	1.5	152.0	0.47	0.11	10.95	0.376	0.16
TCD 382		210	2.5	98.0	0.019	0.57	0.56	25.8	<1	1.4	193.5	0.47	<0.05	11.50	0.360	0.17
TCD 383		580	2.4	71.8	0.023	0.69	0.64	23.5	1	1.7	140.5	0.47	0.06	13.40	0.377	0.15
TCD 384		290	2.7	122.5	0.006	0.45	0.62	20.8	<1	1.5	197.0	0.45	<0.05	11.55	0.374	0.21
TCD 385		240	4.3	131.5	0.020	0.60	0.53	20.2	<1	1.5	206	0.43	<0.05	12.55	0.367	0.20
TCD 386		210	2.2	104.5	0.013	0.32	0.55	23.0	<1	1.3	169.0	0.42	<0.05	11.50	0.323	0.20
TCD 387		150	3.2	99.8	0.010	0.29	0.55	25.6	<1	1.3	194.5	0.47	<0.05	13.15	0.360	0.18
TCD 388		110	2.9	96.3	0.013	0.34	0.50	21.7	<1	1.1	205	0.43	<0.05	10.10	0.331	0.17
TCD 389		340	3.6	131.0	0.003	0.59	0.50	23.7	1	1.0	222	0.46	0.06	10.15	0.376	0.23
TCD 390		430	3.4	121.0	0.014	0.80	0.46	23.7	1	1.3	223	0.46	0.11	10.90	0.356	0.22
TCD 391		460	3.5	99.7	<0.002	0.70	0.42	26.9	1	1.5	234	0.46	0.08	11.00	0.373	0.19
TCD 392		470	2.9	74.6	<0.002	0.98	0.41	26.7	<1	2.3	164.5	0.48	0.22	9.50	0.368	0.25
TCD 393		480	3.9	83.1	<0.002	1.07	0.40	25.9	1	2.9	187.5	0.46	0.18	10.45	0.366	0.22
TCD 394		360	5.5	85.2	<0.002	1.58	0.44	25.3	1	1.7	195.0	0.46	0.21	10.80	0.355	0.20
TCD 395		460	3.6	111.5	0.003	1.34	0.38	25.2	1	1.9	154.5	0.45	0.17	10.10	0.343	0.24
TCD 396		520	7.8	115.0	0.012	1.29	0.55	27.4	1	2.3	149.0	0.48	0.13	9.92	0.387	0.28
TCD 397		360	2.8	98.6	0.025	1.84	0.50	17.6	1	1.0	193.5	0.44	0.14	11.50	0.336	0.22
TCD 398		480	2.6	105.0	0.003	1.00	0.47	27.9	1	2.4	144.0	0.49	0.09	10.40	0.376	0.26
TCD 399		490	2.9	98.3	<0.002	1.53	0.38	27.3	1	1.7	188.5	0.52	0.30	10.50	0.349	0.26
TCD 400		650	3.0	97.9	<0.002	1.56	0.35	26.5	1	1.6	248	0.45	0.20	11.70	0.351	0.25
TCD 401		460	3.0	108.0	<0.002	1.29	0.31	28.0	1	2.4	174.5	0.47	0.24	10.30	0.351	0.28
TCD 402		500	3.2	96.6	0.004	1.66	0.57	21.1	<1	1.4	162.0	0.46	0.27	9.89	0.354	0.20
TCD 403		400	2.0	92.6	0.003	1.21	0.38	18.6	<1	1.6	158.5	0.37	0.18	8.00	0.323	0.18





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**CERTIFICATE OF ANALYSIS PH18191327**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD 364		2.1	105	0.6	18.9	33	73.5	
TCD 365		2.9	104	0.8	18.1	44	61.9	
TCD 366		5.4	112	1.0	15.6	47	84.9	
TCD 367		2.6	111	1.0	7.6	60	103.0	
TCD 368		4.1	76	1.2	8.1	48	103.5	
TCD 369		3.1	76	1.4	6.3	44	99.3	
TCD 370		3.8	72	1.2	7.1	45	112.0	
TCD 371		3.6	71	0.8	7.0	69	108.0	
TCD 372		7.9	177	1.3	16.0	95	94.6	
TCD 373		6.6	192	0.6	16.5	97	92.4	
TCD 374		7.5	162	0.8	14.8	76	108.0	87.7
TCD 375		6.6	115	1.2	11.0	57	102.0	
TCD 376		4.1	82	1.2	10.5	28	104.5	
TCD 377		6.3	107	2.4	11.8	26	123.0	
TCD 378		8.3	114	1.5	17.0	27	118.0	
TCD 379		10.5	162	1.9	20.0	36	128.0	
TCD 380		10.2	147	1.4	25.0	18	136.5	
TCD 381		6.8	124	1.0	15.4	28	128.5	
TCD 382		2.8	85	1.0	9.2	41	115.5	
TCD 383		3.6	95	1.1	8.9	38	113.5	
TCD 384		2.9	75	0.8	6.2	42	109.0	
TCD 385		2.9	82	0.8	4.8	47	113.0	
TCD 386		2.4	72	0.7	4.6	47	97.0	
TCD 387		2.6	73	0.8	5.4	68	105.5	
TCD 388		2.2	67	0.6	4.9	56	98.3	
TCD 389		2.2	91	0.8	6.4	50	110.0	
TCD 390		3.1	96	0.6	6.4	62	125.0	
TCD 391		2.1	145	0.6	13.6	49	123.5	
TCD 392		1.9	187	0.7	18.5	33	117.5	
TCD 393		2.4	190	0.6	19.0	42	132.0	
TCD 394		2.3	120	0.7	16.4	41	126.0	
TCD 395		2.5	151	0.6	15.9	22	124.0	
TCD 396		2.9	182	0.8	15.3	36	130.0	
TCD 397		3.4	87	0.9	7.6	26	130.0	
TCD 398		2.6	194	0.7	14.1	20	132.5	
TCD 399		2.6	170	1.2	20.5	15	132.0	
TCD 400		2.5	168	0.8	22.4	22	130.5	
TCD 401		2.1	214	0.4	19.7	17	130.5	
TCD 402		3.1	127	0.9	23.4	22	141.5	
TCD 403		2.2	115	0.5	13.7	21	115.5	



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## CERTIFICATE OF ANALYSIS PH18191327

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TCD 404		2.87		<0.01	0.04	8.38	5.7	470	1.31	0.12	2.62	<0.02	384	59.8	96	2.93
TCD 405		2.40		0.01	0.23	8.60	6.7	390	1.35	0.21	2.02	0.04	46.3	52.3	104	2.87
TCD 406		3.17		<0.01	0.08	10.45	7.2	520	1.38	0.15	3.21	<0.02	23.3	71.3	70	3.24
TCD 407		3.08		<0.01	0.06	8.34	7.6	450	1.31	0.09	2.42	<0.02	75.6	58.6	109	2.98
TCD 408		1.67		<0.01	0.05	8.24	6.6	440	1.27	0.07	2.54	<0.02	101.0	36.0	103	2.74
TCD 409		1.67		0.01	0.07	8.12	5.7	480	1.11	0.07	2.22	0.03	117.0	100.5	103	3.29
TCD 410		0.65		0.02	0.21	7.69	9.5	340	1.29	0.41	1.58	0.07	162.5	212	164	1.79
TCD 411		1.32		<0.01	0.06	8.36	6.6	500	1.85	0.17	1.85	0.02	65.8	87.6	185	5.13
TCD 412		1.58		<0.01	0.03	8.30	4.8	640	1.53	0.10	1.97	0.02	67.9	67.0	135	6.39
TCD 413		1.41		<0.01	0.04	7.03	4.0	310	1.49	0.13	1.26	0.03	56.7	93.9	125	7.28
TCD 414		1.79		<0.01	0.08	7.94	4.1	480	1.57	0.10	1.36	0.04	55.4	50.1	175	9.45
TCD 415		1.63		<0.01	0.23	8.44	6.0	380	1.66	0.15	1.11	0.07	59.4	94.2	156	7.26
TCD 416		1.66		<0.01	0.06	8.02	4.6	390	1.50	0.15	1.28	0.04	63.6	59.9	142	8.91
TCD 417		1.62		<0.01	0.17	7.55	5.6	360	1.34	0.17	1.64	0.03	63.3	74.3	82	6.35
TCD 418		1.69		<0.01	0.07	8.10	5.9	400	1.34	0.18	2.15	<0.02	61.8	73.1	82	5.18
TCD 419		1.83		<0.01	0.09	8.22	7.1	450	1.24	0.26	2.16	0.03	41.3	157.5	86	3.69
TCD 420		1.56		0.02	0.17	8.56	8.4	470	2.03	0.24	2.22	0.02	256	153.5	88	3.01
TCD 421		1.63		0.01	0.13	8.07	7.5	430	1.55	0.35	1.50	0.02	32.2	137.5	72	2.68
TCD 422		1.93		<0.01	0.20	8.62	6.7	380	1.69	0.28	1.33	0.02	17.85	149.0	73	2.65
TCD 423		1.59		0.01	0.16	8.30	8.3	350	2.03	0.26	1.27	0.02	20.6	146.0	88	2.88
TCD 424		3.25	95.1	0.01	0.06	7.45	9.7	1460	1.82	0.13	0.57	<0.02	42.5	56.7	28	1.05
TCD 425		3.20		<0.01	0.05	7.75	9.9	1720	1.45	0.21	0.46	<0.02	278	83.6	28	1.06
TCD 426		3.20		0.01	0.08	7.73	8.3	1600	1.83	0.25	0.52	<0.02	214	88.9	27	1.03
TCD 427		3.54		0.01	0.04	7.88	8.3	1420	2.21	0.09	0.92	<0.02	133.5	27.5	28	1.51
TCD 428		3.74		<0.01	0.02	9.29	6.9	490	1.82	0.06	3.05	<0.02	62.6	36.1	32	4.75
TCD 429		3.43		0.01	0.05	8.95	4.6	450	1.68	0.09	2.17	0.03	68.3	54.2	100	6.50
TCD 430		3.22		0.01	0.10	8.11	6.8	390	1.81	0.28	1.40	0.08	67.7	127.5	155	3.62
TCD 431		3.72		<0.01	0.08	8.54	6.8	450	1.78	0.19	1.50	0.05	292	139.5	160	3.77
TCD 432		3.38		<0.01	0.05	8.00	7.6	350	1.67	0.16	1.56	0.03	202	135.0	114	3.76
TCD 433		3.65		0.01	0.13	7.82	8.3	280	1.61	0.32	1.39	0.09	46.1	206	117	2.63
TCD 434		3.19		0.01	0.10	7.32	7.9	350	1.39	0.26	1.16	0.07	57.9	199.5	114	2.75
TCD 435		3.30		<0.01	0.12	8.10	8.0	450	1.14	0.52	1.07	0.10	57.4	102.5	112	2.49
TCD 436		3.57		<0.01	0.17	7.99	8.9	470	1.58	0.48	1.05	0.10	75.4	202	113	4.80
TCD 437		3.48		<0.01	0.10	9.28	9.0	510	1.61	0.24	1.36	<0.02	40.5	167.0	101	1.61
TCD 438		3.61		<0.01	0.26	8.43	11.7	330	1.62	0.39	1.40	0.02	124.5	169.0	107	1.91
TCD 439		3.61		<0.01	0.14	8.48	9.2	1020	1.07	0.42	0.82	0.03	58.3	109.5	86	3.33
TCD 440		3.43		<0.01	0.10	9.12	8.9	940	1.28	0.52	0.92	0.04	62.6	102.5	101	3.89
TCD 441		3.48		0.01	0.06	9.57	7.1	1260	1.24	0.27	1.14	0.03	73.1	64.5	88	3.96
TCD 442		3.58		<0.01	0.06	8.65	8.1	640	1.14	0.26	0.60	0.02	64.5	34.0	113	6.26
TCD 443		3.64		<0.01	0.07	7.83	7.9	1400	1.10	0.26	0.47	0.02	68.1	98.7	94	5.09



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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
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
TCD 404		241	5.49	18.15	0.25	2.7	0.030	1.73	256	43.5	3.25	666	7.29	2.00	6.0
TCD 405		408	7.08	18.05	0.13	3.4	0.028	1.33	23.6	40.4	3.32	727	1.08	2.50	6.4
TCD 406		139.0	6.19	19.55	0.12	3.4	0.025	2.03	12.2	39.0	3.18	597	13.35	2.40	7.1
TCD 407		171.5	6.63	16.75	0.11	2.8	0.024	1.57	45.4	53.7	4.26	865	2.01	1.97	6.0
TCD 408		165.5	6.21	16.55	0.17	2.8	0.030	1.60	56.9	50.9	4.20	854	1.23	1.94	5.3
TCD 409		264	8.87	17.75	0.16	3.5	0.024	1.63	69.4	47.3	4.42	791	23.6	1.15	6.8
TCD 410		729	6.80	15.50	0.17	3.1	0.038	2.21	100.0	30.6	2.49	463	51.5	1.83	6.5
TCD 411		301	4.99	15.10	0.14	3.5	0.023	2.06	33.1	31.7	2.96	349	2.21	1.61	6.3
TCD 412		261	5.34	15.75	0.14	3.7	0.021	2.10	32.7	29.0	2.89	253	0.78	1.42	6.9
TCD 413		318	5.21	13.35	0.12	3.5	0.024	1.80	27.2	27.6	2.58	233	2.87	1.21	5.8
TCD 414		158.0	5.55	15.60	0.11	3.6	0.020	1.95	26.7	33.2	3.01	345	0.84	1.55	7.0
TCD 415		268	5.86	15.25	0.13	3.7	0.025	1.82	28.4	31.7	2.40	362	1.22	2.07	5.7
TCD 416		144.0	5.06	15.40	0.32	4.0	0.018	1.78	30.9	26.7	2.34	313	0.74	1.72	7.3
TCD 417		347	5.90	14.95	0.32	3.2	0.017	1.70	31.6	21.9	2.05	315	1.11	1.68	5.9
TCD 418		448	5.74	17.55	0.13	4.5	0.019	1.76	31.2	31.7	2.70	308	1.96	1.74	8.2
TCD 419		360	5.60	16.80	0.11	4.1	0.024	1.78	21.4	34.4	2.70	395	0.94	1.97	7.5
TCD 420		845	4.34	17.85	0.23	3.6	0.038	1.83	164.0	28.7	1.88	363	83.7	2.28	7.7
TCD 421		265	4.36	15.45	0.14	3.7	0.022	1.30	17.4	31.0	2.06	435	6.98	2.78	6.1
TCD 422		252	4.20	16.50	0.13	3.8	0.025	1.45	9.8	27.6	1.78	440	12.00	3.52	5.8
TCD 423		420	4.50	17.70	0.11	3.5	0.025	1.39	11.0	37.6	2.25	532	3.53	3.06	6.7
TCD 424		203	2.68	14.80	0.15	3.1	0.027	5.11	25.6	18.7	1.00	238	27.9	2.01	10.9
TCD 425		119.5	2.80	16.05	0.25	3.1	0.025	5.86	152.5	18.0	1.02	256	33.7	1.87	11.0
TCD 426		325	2.90	16.50	0.18	3.2	0.027	5.09	118.5	18.3	1.03	245	23.3	1.99	10.3
TCD 427		69.6	3.50	16.80	0.12	3.1	0.014	5.08	77.9	21.0	1.22	279	1.03	1.90	8.8
TCD 428		56.0	5.96	20.1	0.10	2.7	0.013	2.03	32.2	34.2	2.64	486	0.67	1.93	7.6
TCD 429		246	5.48	17.25	0.13	3.2	0.013	2.40	35.5	28.7	3.01	293	2.32	1.73	6.9
TCD 430		317	4.33	15.90	0.10	3.9	0.015	1.77	35.7	27.1	2.03	243	8.58	1.96	4.9
TCD 431		243	5.40	18.30	0.20	3.8	0.014	2.11	189.5	31.2	2.26	327	14.95	2.09	5.8
TCD 432		139.0	4.86	18.50	0.15	3.0	0.017	1.84	128.0	30.0	2.08	314	29.0	2.58	6.9
TCD 433		263	5.09	14.55	0.07	3.4	0.013	1.44	26.4	20.3	1.36	358	48.5	2.69	6.0
TCD 434		504	4.74	13.20	0.09	3.7	0.018	1.48	33.8	22.9	1.40	340	13.25	1.97	5.2
TCD 435		265	5.02	13.15	0.08	3.8	0.018	2.16	31.7	21.2	1.30	392	3.03	2.50	4.6
TCD 436		355	5.38	18.30	0.12	3.2	0.024	1.97	43.5	34.4	2.09	423	59.6	2.08	6.1
TCD 437		69.8	3.26	16.80	0.06	2.8	0.012	1.75	26.8	13.0	0.91	240	21.5	4.67	6.3
TCD 438		103.5	3.92	16.95	0.11	2.8	0.024	1.30	74.7	28.1	1.71	491	3.25	3.75	5.3
TCD 439		273	3.68	15.80	0.12	3.7	0.021	4.32	31.4	21.7	1.27	287	17.00	2.03	5.4
TCD 440		262	3.70	16.95	0.12	3.9	0.020	4.00	33.6	24.4	1.44	320	3.20	2.08	3.8
TCD 441		111.0	3.83	15.95	0.14	3.8	0.019	3.22	36.9	16.4	1.06	356	5.03	2.46	3.5
TCD 442		53.8	3.41	15.30	0.11	3.9	0.027	3.98	32.7	19.7	0.94	252	1.32	1.37	3.5
TCD 443		195.0	2.89	12.60	0.11	3.8	0.016	4.07	34.7	18.2	0.69	154	2.88	0.78	3.2



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## CERTIFICATE OF ANALYSIS PH18191327

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	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TCD 404		270	2.6	77.9	0.006	0.49	0.44	25.9	1	1.7	245	0.46	<0.05	7.85	0.350	0.21
TCD 405		490	3.2	72.9	<0.002	0.71	0.63	30.0	1	2.4	202	0.49	0.08	9.34	0.407	0.16
TCD 406		570	3.1	97.5	0.013	0.65	0.47	24.0	1	2.0	289	0.58	0.05	9.50	0.462	0.26
TCD 407		650	2.4	84.6	0.004	0.45	0.47	36.7	<1	2.0	219	0.49	<0.05	9.90	0.370	0.20
TCD 408		570	3.1	55.0	0.003	0.16	0.43	32.6	<1	3.1	240	0.44	<0.05	8.23	0.347	0.20
TCD 409		530	2.3	77.3	0.019	0.78	0.47	29.5	1	3.3	191.0	0.47	<0.05	8.36	0.362	0.18
TCD 410		360	8.1	94.3	0.043	2.42	0.90	25.1	1	2.7	189.0	0.44	0.13	7.97	0.334	0.20
TCD 411		430	4.4	116.0	0.003	1.26	0.43	27.5	1	1.6	185.0	0.44	0.10	9.82	0.363	0.24
TCD 412		460	3.1	125.5	0.002	1.34	0.41	24.1	1	1.8	225	0.49	0.15	10.30	0.389	0.28
TCD 413		360	3.0	111.0	0.002	1.79	0.28	22.6	1	1.8	210	0.44	0.16	8.91	0.327	0.25
TCD 414		380	4.6	108.0	<0.002	1.73	0.31	27.1	1	2.1	161.0	0.48	0.23	9.82	0.363	0.27
TCD 415		380	14.6	95.1	<0.002	3.23	0.40	27.9	1	1.5	135.5	0.43	0.40	10.20	0.335	0.25
TCD 416		470	4.3	109.0	<0.002	2.46	0.39	31.7	1	1.2	146.0	0.47	0.32	10.30	0.353	0.25
TCD 417		360	3.5	107.0	<0.002	2.70	0.44	24.9	1	1.5	167.5	0.43	0.44	9.07	0.340	0.22
TCD 418		440	3.0	107.0	<0.002	1.59	0.39	27.2	1	2.1	195.0	0.58	0.15	10.10	0.400	0.22
TCD 419		370	4.5	106.5	<0.002	2.03	0.41	27.7	1	1.6	202	0.52	0.13	9.61	0.397	0.22
TCD 420		380	6.7	104.5	0.049	1.53	0.65	27.5	1	2.0	223	0.53	0.08	14.00	0.389	0.22
TCD 421		370	10.3	79.5	0.003	1.74	0.45	23.0	1	1.0	181.0	0.44	0.09	9.77	0.376	0.14
TCD 422		250	12.9	98.6	0.003	1.81	0.71	23.3	1	1.7	196.0	0.38	0.09	12.30	0.340	0.17
TCD 423		450	4.5	93.3	0.003	1.53	0.55	25.0	1	1.2	189.5	0.50	0.07	10.30	0.373	0.16
TCD 424		510	3.0	164.0	0.016	0.47	0.64	8.6	1	1.3	98.6	1.10	0.06	15.95	0.215	0.40
TCD 425		590	2.8	182.5	0.036	0.69	0.63	8.8	1	1.4	68.9	1.04	<0.05	15.85	0.225	0.47
TCD 426		550	4.8	149.0	0.041	0.80	0.64	8.6	<1	1.2	82.3	1.03	<0.05	16.35	0.227	0.42
TCD 427		500	2.3	159.5	0.002	0.24	0.54	9.8	<1	1.1	132.5	0.91	<0.05	15.05	0.247	0.33
TCD 428		590	2.0	65.1	0.002	0.29	0.36	16.3	<1	1.7	282	0.50	<0.05	6.64	0.413	0.27
TCD 429		450	2.0	149.5	0.003	1.02	0.38	22.8	1	2.0	212	0.45	0.05	9.65	0.400	0.31
TCD 430		450	8.8	108.5	0.009	2.13	0.54	26.0	1	2.0	145.5	0.38	0.13	10.45	0.303	0.19
TCD 431		390	5.9	122.0	0.023	2.21	0.53	24.9	1	1.4	156.0	0.43	0.21	10.50	0.373	0.24
TCD 432		360	5.8	93.5	0.031	1.28	0.69	20.9	1	1.9	151.5	0.45	0.07	8.14	0.359	0.24
TCD 433		490	9.5	91.4	0.053	2.35	0.59	17.8	1	1.7	151.5	0.41	0.11	8.40	0.309	0.18
TCD 434		490	5.6	90.3	0.013	2.38	0.59	20.4	1	1.2	130.5	0.35	0.14	8.48	0.248	0.18
TCD 435		550	12.1	100.5	0.004	2.87	0.69	22.4	1	1.2	155.0	0.33	0.26	10.35	0.267	0.20
TCD 436		490	16.0	112.5	0.072	2.67	0.76	24.2	1	1.3	137.5	0.40	0.19	9.82	0.322	0.22
TCD 437		760	8.3	101.5	0.013	1.84	0.73	15.3	2	2.8	208	0.41	0.09	8.15	0.331	0.20
TCD 438		860	9.2	79.8	0.004	1.70	0.55	18.4	1	1.9	220	0.34	0.12	11.25	0.291	0.15
TCD 439		470	12.5	137.5	0.006	2.21	0.88	22.4	1	1.7	179.0	0.36	0.15	8.77	0.285	0.32
TCD 440		900	9.7	151.5	0.004	1.74	0.70	22.5	1	1.6	175.0	0.29	0.11	9.62	0.240	0.29
TCD 441		670	8.6	111.0	0.003	2.16	0.64	26.0	1	1.6	187.5	0.26	0.10	10.20	0.214	0.26
TCD 442		600	3.1	122.0	<0.002	2.08	0.85	36.6	1	1.6	159.5	0.27	0.19	9.75	0.214	0.34
TCD 443		520	3.5	113.5	<0.002	2.02	0.67	21.3	1	1.2	120.5	0.26	0.10	9.05	0.213	0.25



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**CERTIFICATE OF ANALYSIS PH18191327**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD 404		2.3	94	0.3	10.0	36	100.5	
TCD 405		2.7	178	1.1	15.7	77	121.0	
TCD 406		3.7	162	0.8	9.6	44	109.0	
TCD 407		2.4	135	0.7	10.8	67	102.0	
TCD 408		3.3	149	0.6	11.4	68	102.5	
TCD 409		2.9	208	0.8	16.3	84	126.5	
TCD 410		3.6	152	0.9	11.1	62	116.0	
TCD 411		2.9	194	0.5	16.2	32	128.0	
TCD 412		2.6	174	0.4	19.4	17	138.5	
TCD 413		2.4	126	0.4	18.5	17	127.5	
TCD 414		2.5	181	0.5	19.2	31	136.5	
TCD 415		3.3	168	0.8	21.6	31	137.5	
TCD 416		2.5	174	0.8	22.1	28	147.5	
TCD 417		2.4	142	0.4	20.1	29	119.0	
TCD 418		2.7	224	0.4	17.2	29	168.0	
TCD 419		2.7	168	0.5	13.7	53	159.5	
TCD 420		9.5	149	0.9	18.9	36	136.5	
TCD 421		4.3	122	1.2	10.5	43	140.0	
TCD 422		20.7	98	1.8	10.2	45	147.5	
TCD 423		16.9	133	1.3	9.4	52	137.0	
TCD 424		18.1	63	0.8	12.6	22	104.0	
TCD 425		20.4	57	0.7	16.7	23	102.5	84.7
TCD 426		19.1	58	0.6	14.3	25	110.5	
TCD 427		9.6	80	0.5	11.0	27	106.5	
TCD 428		2.7	181	0.4	9.3	35	102.5	
TCD 429		2.5	195	0.4	14.9	16	122.0	
TCD 430		8.0	158	1.7	20.0	27	147.0	
TCD 431		5.3	181	1.0	16.3	34	143.0	
TCD 432		29.3	139	1.4	14.0	30	118.0	
TCD 433		22.5	106	1.5	15.1	33	131.5	
TCD 434		10.6	97	1.5	17.9	25	143.5	
TCD 435		11.5	81	2.3	17.8	35	145.0	
TCD 436		28.7	165	2.3	16.0	44	120.0	
TCD 437		23.3	57	9.1	12.6	30	132.0	
TCD 438		14.8	67	6.3	10.4	59	104.0	
TCD 439		19.0	112	4.0	18.6	27	142.0	
TCD 440		8.4	104	4.8	19.1	30	162.5	
TCD 441		4.1	108	3.6	20.9	18	148.0	
TCD 442		3.7	160	3.2	19.7	16	150.5	
TCD 443		5.9	123	2.7	19.1	15	151.5	



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TCD 444		3.34		<0.01	0.06	8.07	7.0	330	1.16	0.24	0.73	0.05	60.0	90.2	84	5.95
TCD 445		3.78		<0.01	0.05	7.22	4.7	380	1.22	0.13	1.48	<0.02	18.40	62.9	82	5.80
TCD 446		3.37		<0.01	0.02	8.17	5.1	420	1.01	0.07	2.59	<0.02	51.9	28.4	88	3.51
TCD 447		3.69		<0.01	0.03	7.82	5.3	480	1.27	0.19	2.01	<0.02	11.80	42.0	84	6.37
TCD 448		3.66		<0.01	0.02	7.41	5.3	490	1.42	0.15	1.55	<0.02	22.5	46.2	83	5.34
TCD 449		3.54		<0.01	0.02	7.76	4.3	380	1.23	0.07	1.54	0.02	31.2	57.7	89	5.67
TCD 450		3.76		<0.01	0.04	7.80	7.2	1030	1.97	0.16	1.10	<0.02	112.0	65.7	57	2.12
TCD 451		3.51		<0.01	0.02	7.63	7.8	1350	2.30	0.30	0.97	<0.02	29.5	63.8	28	0.88
TCD 452		3.58		<0.01	0.02	7.80	7.2	1320	2.38	0.14	1.05	<0.02	33.1	23.0	36	0.89
TCD 453		3.35		<0.01	0.02	7.98	6.3	1440	2.33	0.05	0.96	<0.02	96.9	11.2	27	0.87
TCD 454		3.35		<0.01	0.05	7.86	6.5	390	1.78	0.21	0.73	0.03	72.5	76.3	89	7.61
TCD 455		3.43		<0.01	0.02	8.27	5.7	420	2.07	0.13	0.63	<0.02	83.9	40.8	91	12.25
TCD 456		2.96		<0.01	0.03	8.71	6.1	780	1.46	0.13	0.74	<0.02	63.5	41.2	70	14.70
TCD 457		3.28		0.01	0.02	8.30	5.5	360	1.97	0.18	0.29	<0.02	66.2	40.1	114	13.70
TCD 458		3.12		<0.01	0.04	8.07	11.2	210	1.49	0.21	0.37	0.02	153.0	290	96	8.41
TCD 459		3.08		0.01	0.06	7.07	7.8	170	1.75	0.29	0.48	0.06	134.0	196.0	60	7.69
TCD 460		4.03		<0.01	0.03	7.55	6.3	260	1.46	0.21	0.75	0.04	145.0	158.5	72	6.52
TCD 461		3.03		<0.01	0.05	7.56	8.4	130	1.40	0.29	0.67	0.05	181.5	241	65	6.08
TCD 462		2.89		<0.01	0.06	7.62	7.4	110	1.44	0.29	0.74	0.04	83.6	166.5	78	5.89
TCD 463		3.79		<0.01	0.06	7.56	6.9	130	1.59	0.23	0.67	0.04	92.3	109.0	87	8.77
TCD 464		3.38		<0.01	0.04	7.63	8.3	510	1.48	0.08	1.11	<0.02	143.0	40.1	88	6.61
TCD 465		3.20		<0.01	0.06	7.73	9.0	180	1.36	0.35	0.56	0.02	65.1	224	81	6.12
TCD 466		3.38		<0.01	0.07	7.41	9.3	120	1.14	0.37	0.67	<0.02	39.1	275	83	2.87
TCD 467		3.71		<0.01	0.05	8.31	8.5	270	1.29	0.19	1.19	0.03	77.8	290	85	3.74
TCD 468		3.33		<0.01	0.05	8.16	7.6	120	1.22	0.35	1.03	0.03	69.2	133.5	90	3.73
TCD 469		3.12		<0.01	0.04	7.52	5.2	310	1.35	0.16	0.48	0.04	60.9	49.7	141	10.05
TCD 470		1.72		0.19	0.10	8.33	5.6	140	1.36	0.21	0.80	0.07	57.5	43.9	95	8.15
TCD 471		1.68		0.01	0.04	8.52	7.5	120	0.78	0.19	0.60	0.04	56.2	45.0	98	7.14
TCD 472		1.46		<0.01	0.03	8.27	7.8	180	0.71	0.25	0.45	0.03	61.0	27.5	83	6.18
TCD 473		1.85		<0.01	0.04	7.00	6.9	90	1.35	0.23	0.57	0.09	49.1	47.0	85	11.20
TCD 474		1.49	95.1	0.01	0.03	8.48	6.6	140	1.04	0.26	0.97	0.04	53.9	30.3	50	8.13
TCD 475		1.82		<0.01	0.05	8.20	5.9	130	1.20	0.32	0.99	0.14	79.4	90.4	48	5.47
TCD 476		2.03		0.01	0.04	8.80	6.2	100	1.04	0.24	1.03	0.04	70.5	114.0	57	3.25
TCD 477		1.67		0.01	0.05	8.40	6.7	90	1.27	0.26	0.79	0.05	72.0	131.5	55	5.92
TCD 478		1.77		0.01	0.05	7.33	8.5	60	1.31	0.23	0.59	0.08	66.5	163.0	88	8.57
TCD 479		1.57		<0.01	0.03	7.75	4.7	280	0.87	0.14	0.74	0.07	34.8	65.5	106	7.40
TCD 480		1.22		<0.01	0.05	8.81	8.6	140	1.14	0.27	0.79	0.02	34.7	236	58	3.78
TCD 481		1.26		<0.01	0.05	8.57	7.6	150	1.26	0.24	0.97	0.07	33.3	170.0	75	2.83
TCD 482		1.45		0.01	0.02	8.52	6.2	780	1.19	0.11	1.23	0.04	121.5	128.0	115	6.22
TCD 483		1.72		0.01	0.04	7.31	5.6	440	1.04	0.17	1.10	0.02	107.5	213	141	4.88



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## CERTIFICATE OF ANALYSIS PH18191327

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
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
TCD 444		249	4.25	13.30	0.14	3.1	0.016	2.91	31.1	22.1	1.18	230	6.14	1.14	3.3
TCD 445		52.4	4.15	17.00	0.06	2.7	0.021	1.76	9.3	39.5	3.93	346	6.65	1.51	5.8
TCD 446		13.4	4.26	16.90	0.10	3.1	0.020	1.61	28.4	35.5	3.81	510	0.63	1.75	5.3
TCD 447		66.0	4.13	18.20	0.06	2.8	0.017	1.88	6.5	41.8	3.82	479	0.74	1.86	5.5
TCD 448		57.2	3.65	17.85	0.07	2.6	0.021	1.82	12.1	32.6	3.26	366	1.62	1.90	6.2
TCD 449		31.7	5.69	18.35	0.07	3.1	0.014	1.50	17.3	58.7	4.85	521	1.22	1.22	7.0
TCD 450		65.8	4.29	18.85	0.12	3.4	0.020	3.22	71.9	37.9	2.70	489	4.00	1.77	7.9
TCD 451		28.3	2.88	16.30	0.08	3.5	0.015	4.63	18.5	17.9	1.12	317	3.44	2.00	10.5
TCD 452		7.8	2.91	17.15	0.08	3.4	0.012	4.27	19.9	18.6	1.18	345	13.00	2.19	10.5
TCD 453		29.0	2.16	16.25	0.11	3.3	0.018	4.25	61.1	19.1	1.19	314	1.67	2.40	9.6
TCD 454		83.3	4.44	21.8	0.12	3.2	0.011	1.88	39.1	38.2	2.82	475	5.51	1.21	3.2
TCD 455		42.7	4.18	21.1	0.12	3.0	0.014	1.83	44.0	46.9	3.03	514	0.77	1.20	3.2
TCD 456		53.0	5.76	16.35	0.14	3.1	0.020	2.13	32.1	49.7	1.63	410	1.39	0.92	3.3
TCD 457		53.5	4.26	14.95	0.13	3.8	0.019	2.89	32.8	33.4	1.14	243	1.46	0.37	2.7
TCD 458		80.9	4.58	13.00	0.16	3.6	0.018	3.16	78.6	17.5	0.95	264	11.00	0.92	2.6
TCD 459		129.0	5.52	15.70	0.16	4.0	0.017	2.09	69.4	30.7	2.27	503	19.75	1.04	2.3
TCD 460		100.0	5.10	17.80	0.21	3.5	0.017	2.03	77.2	31.8	2.49	533	10.45	1.73	4.7
TCD 461		103.5	5.62	15.30	0.21	3.6	0.022	2.58	97.0	24.6	2.02	551	5.71	1.51	3.9
TCD 462		139.5	6.08	13.65	0.17	3.8	0.019	2.58	44.4	21.8	1.88	481	0.58	1.27	3.4
TCD 463		120.5	5.79	14.40	0.16	3.6	0.017	2.51	47.5	32.5	2.56	513	1.26	0.91	3.6
TCD 464		59.1	4.65	16.85	0.20	4.0	0.025	2.14	76.7	43.8	3.77	713	1.53	1.09	6.9
TCD 465		106.5	4.99	15.35	0.15	3.6	0.024	3.04	32.9	31.2	2.04	387	3.30	1.43	4.0
TCD 466		69.4	5.20	12.80	0.12	3.5	0.018	1.80	20.9	17.9	1.58	373	22.2	2.43	5.1
TCD 467		120.5	5.12	16.10	0.18	3.4	0.016	1.48	38.7	23.1	1.80	391	0.38	2.68	6.3
TCD 468		177.0	5.75	14.60	0.15	2.8	0.021	2.23	33.9	18.1	1.41	294	3.44	2.30	3.1
TCD 469		197.5	4.48	17.20	0.14	3.3	0.019	2.33	28.8	31.4	2.26	300	0.94	1.13	2.4
TCD 470		204	6.09	15.45	0.14	3.4	0.028	2.86	26.7	18.4	1.47	463	1.63	1.54	3.1
TCD 471		125.0	5.57	12.55	0.15	3.8	0.025	3.88	25.1	13.7	0.53	283	1.37	1.03	3.2
TCD 472		20.3	3.70	11.15	0.22	3.7	0.023	3.26	28.7	8.2	0.42	197	1.21	1.36	3.5
TCD 473		44.3	8.34	16.35	0.17	3.5	0.022	1.33	23.6	29.4	1.92	458	1.38	0.82	1.9
TCD 474		46.9	7.08	14.50	0.21	2.6	0.016	1.72	25.7	19.5	1.49	496	0.97	1.92	2.3
TCD 475		88.7	5.97	15.40	0.16	2.7	0.021	1.51	40.2	13.9	1.21	332	1.71	2.25	2.5
TCD 476		90.5	4.89	14.35	0.15	2.7	0.018	3.13	34.4	8.6	0.88	326	0.74	2.52	2.5
TCD 477		73.7	6.11	14.90	0.17	2.8	0.022	3.46	34.9	13.6	1.20	355	0.99	1.85	2.1
TCD 478		152.5	8.31	16.30	0.14	3.6	0.022	3.14	31.1	20.5	2.03	381	0.55	0.86	1.6
TCD 479		126.5	4.80	17.30	0.10	3.7	0.030	3.48	17.2	22.2	3.30	734	3.13	1.14	3.6
TCD 480		87.3	5.22	15.80	0.12	3.1	0.035	4.73	15.7	13.1	1.35	605	4.29	1.92	3.7
TCD 481		102.0	5.26	14.85	0.13	3.3	0.028	4.39	15.2	11.4	1.08	330	0.79	2.15	3.0
TCD 482		50.8	4.00	17.60	0.20	3.5	0.016	2.95	64.0	21.5	3.04	422	7.89	1.65	5.0
TCD 483		66.2	4.40	14.30	0.19	3.7	0.015	2.26	56.9	18.7	2.93	358	12.00	1.43	5.8





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## CERTIFICATE OF ANALYSIS PH18191327

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	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TCD 444		370	4.2	112.0	0.003	2.59	0.57	18.4	1	1.2	130.5	0.26	0.06	8.79	0.211	0.23
TCD 445		270	2.8	108.0	0.002	0.45	0.38	28.7	<1	2.1	151.5	0.40	<0.05	7.67	0.330	0.16
TCD 446		470	1.8	97.9	<0.002	0.27	0.40	40.2	1	2.1	216	0.43	<0.05	9.56	0.328	0.14
TCD 447		220	2.2	118.0	<0.002	0.39	0.38	33.2	<1	1.8	210	0.40	<0.05	11.90	0.342	0.19
TCD 448		160	1.6	110.0	<0.002	0.40	0.42	28.3	1	1.7	172.0	0.41	<0.05	8.42	0.347	0.15
TCD 449		400	1.6	88.6	0.002	0.81	0.41	30.0	1	2.2	138.5	0.45	<0.05	7.59	0.366	0.16
TCD 450		540	3.8	111.0	0.004	1.07	0.69	18.9	1	3.6	150.5	0.71	<0.05	11.75	0.287	0.18
TCD 451		560	2.7	148.5	0.010	0.70	0.74	9.9	1	1.9	146.0	1.08	<0.05	16.80	0.225	0.24
TCD 452		560	1.9	137.0	0.014	0.32	0.74	10.0	<1	1.9	154.0	1.07	<0.05	16.85	0.228	0.24
TCD 453		540	1.9	135.5	<0.002	0.08	0.67	9.4	<1	1.6	132.5	1.04	<0.05	16.40	0.230	0.23
TCD 454		140	8.0	105.0	0.002	1.85	0.67	29.6	1	1.9	102.5	0.29	0.06	10.35	0.270	0.19
TCD 455		510	2.8	108.0	<0.002	1.53	0.46	29.5	1	1.3	91.9	0.24	0.07	9.20	0.252	0.27
TCD 456		610	5.3	83.8	0.002	2.47	0.46	17.4	1	1.0	146.0	0.25	0.06	12.10	0.216	0.40
TCD 457		470	2.8	91.8	0.002	2.78	0.49	22.3	1	1.0	90.7	0.22	0.09	17.90	0.157	0.39
TCD 458		460	3.6	94.4	0.005	3.81	0.67	39.4	2	1.7	87.9	0.18	0.05	27.4	0.130	0.26
TCD 459		400	8.0	81.3	0.004	4.17	0.72	22.8	3	1.8	80.9	0.17	0.10	11.00	0.163	0.19
TCD 460		190	4.4	84.1	0.002	2.73	0.58	25.1	1	1.2	110.0	0.33	0.08	10.05	0.279	0.21
TCD 461		300	4.7	91.5	0.002	3.67	0.69	18.5	2	1.2	120.0	0.25	0.13	9.28	0.220	0.21
TCD 462		310	8.6	90.4	<0.002	4.45	0.74	20.3	2	1.0	104.5	0.24	0.20	8.85	0.202	0.24
TCD 463		210	7.0	106.5	0.002	3.47	0.63	19.8	2	1.1	93.6	0.27	0.15	8.76	0.221	0.25
TCD 464		280	3.9	118.5	<0.002	0.53	0.67	25.1	<1	2.1	101.0	0.49	0.05	9.18	0.378	0.23
TCD 465		320	16.1	115.5	0.002	3.14	0.74	23.3	2	1.2	106.0	0.28	0.14	8.56	0.246	0.23
TCD 466		180	10.0	70.7	0.006	3.70	0.64	21.9	2	1.7	100.5	0.36	0.16	9.63	0.267	0.15
TCD 467		320	5.0	67.2	0.003	3.55	0.63	26.5	2	0.7	165.5	0.32	0.09	10.05	0.282	0.15
TCD 468		670	6.7	78.4	0.003	4.70	0.58	18.5	2	1.1	149.5	0.21	0.19	10.25	0.189	0.19
TCD 469		350	3.6	84.1	0.003	3.01	0.47	33.9	2	0.8	91.5	0.19	0.15	13.30	0.174	0.29
TCD 470		560	5.8	89.1	0.002	4.12	0.51	19.3	2	0.9	168.5	0.22	0.13	8.46	0.191	0.22
TCD 471		780	3.2	91.3	<0.002	4.02	0.46	18.5	3	0.8	156.0	0.25	0.11	6.25	0.191	0.29
TCD 472		830	3.3	83.0	0.002	3.16	0.46	23.1	2	1.2	108.0	0.28	0.12	6.97	0.222	0.28
TCD 473		230	5.9	64.3	0.003	5.70	0.42	14.3	4	0.8	87.2	0.15	0.12	6.42	0.143	0.22
TCD 474		360	3.8	67.3	0.002	4.51	0.43	13.5	3	0.9	146.5	0.17	0.12	6.86	0.164	0.21
TCD 475		300	8.5	69.7	0.003	5.10	0.46	14.2	5	1.3	151.0	0.16	0.11	7.74	0.143	0.16
TCD 476		560	7.9	86.5	<0.002	4.49	0.44	23.5	3	1.0	180.5	0.19	0.12	10.10	0.164	0.21
TCD 477		570	7.1	99.8	<0.002	5.62	0.48	15.9	3	1.4	147.5	0.16	0.11	7.28	0.145	0.24
TCD 478		620	5.5	106.5	<0.002	7.42	0.93	16.8	6	0.9	99.4	0.12	0.24	8.71	0.125	0.23
TCD 479		310	4.4	150.0	<0.002	2.69	0.56	41.1	2	1.3	129.0	0.34	0.10	13.90	0.310	0.33
TCD 480		560	7.1	128.0	0.003	4.31	0.59	16.2	2	2.2	162.0	0.27	0.14	5.74	0.239	0.27
TCD 481		570	6.3	118.5	<0.002	4.60	0.65	18.0	3	1.4	163.0	0.22	0.15	7.07	0.196	0.22
TCD 482		380	3.9	106.0	0.003	1.79	0.53	22.4	1	1.3	175.5	0.42	0.08	8.03	0.346	0.28
TCD 483		340	2.7	123.5	0.005	2.43	0.46	22.7	2	1.2	149.0	0.46	0.13	8.40	0.349	0.21



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**CERTIFICATE OF ANALYSIS PH18191327**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.01
TCD 444		5.8	133	2.1	16.4	29	120.5	
TCD 445		6.0	183	0.7	8.0	22	101.0	
TCD 446		2.3	131	0.7	10.7	29	104.0	
TCD 447		4.1	146	0.8	5.7	28	107.5	
TCD 448		2.3	156	0.7	5.6	21	97.1	
TCD 449		2.9	196	0.5	9.0	38	125.0	
TCD 450		16.0	140	1.1	14.9	44	123.0	
TCD 451		23.3	63	1.2	14.8	16	116.5	
TCD 452		17.3	83	1.1	17.9	18	121.5	
TCD 453		15.9	58	1.0	18.4	19	118.5	
TCD 454		6.5	362	2.5	14.4	22	117.0	
TCD 455		2.6	260	2.0	17.0	25	118.0	
TCD 456		2.3	154	1.4	17.9	34	120.5	
TCD 457		2.8	118	2.1	19.3	25	143.5	
TCD 458		3.3	97	2.0	19.3	22	145.0	
TCD 459		3.6	79	1.3	16.8	34	148.0	
TCD 460		7.9	225	2.0	16.0	34	134.0	
TCD 461		9.2	130	3.0	20.3	36	138.0	
TCD 462		9.1	128	3.1	20.1	37	134.5	
TCD 463		5.1	124	1.9	16.8	43	136.0	
TCD 464		3.9	204	1.5	17.6	76	151.5	
TCD 465		10.0	148	2.8	15.7	37	141.0	
TCD 466		6.4	114	3.1	10.1	33	119.5	
TCD 467		6.6	138	1.7	16.7	38	131.0	
TCD 468		4.2	116	2.3	17.4	25	100.5	
TCD 469		3.8	217	1.4	17.8	28	125.0	
TCD 470		3.3	127	1.4	22.4	37	138.0	
TCD 471		3.8	183	1.4	24.3	35	145.5	
TCD 472		3.6	182	1.8	21.4	17	146.0	
TCD 473		2.6	148	1.0	16.8	68	130.0	
TCD 474		2.5	145	1.6	18.4	18	96.7	
TCD 475		2.9	117	2.5	18.3	45	104.0	87.5
TCD 476		3.6	119	3.2	17.1	17	101.0	
TCD 477		5.0	115	3.1	18.8	21	111.5	
TCD 478		5.8	95	1.7	18.9	47	147.5	
TCD 479		12.2	328	2.1	12.5	66	145.5	
TCD 480		14.6	164	4.5	15.8	41	117.5	
TCD 481		7.2	120	4.5	14.1	40	121.0	
TCD 482		6.1	213	1.6	12.4	33	114.0	
TCD 483		3.8	167	0.7	14.2	27	144.0	



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TCD 484		1.54		<0.01	0.02	7.63	8.4	480	0.83	0.08	1.56	<0.02	124.0	461	150	3.74
TCD 485		1.64		<0.01	0.01	7.58	5.0	520	0.72	0.04	1.43	<0.02	286	113.0	166	6.40
TCD 486		1.59		<0.01	0.02	7.67	4.4	400	0.99	0.09	1.52	0.02	161.5	82.2	143	6.48
TCD 487		1.58		0.21	0.04	7.89	6.9	260	1.50	0.26	0.57	<0.02	125.5	168.5	115	8.90
TCD 488		1.94		<0.01	0.03	8.33	7.0	370	0.60	0.15	0.35	<0.02	91.6	60.4	114	5.50
TCD 489		1.64		<0.01	0.02	8.73	7.3	180	0.70	0.22	0.39	<0.02	101.5	68.4	128	6.46
TCD 490		1.47		<0.01	0.02	8.89	6.7	1770	0.85	0.17	0.42	<0.02	52.3	27.7	86	4.71
TCD 491		1.57		<0.01	0.03	8.41	8.5	460	0.91	0.31	0.56	<0.02	95.9	133.0	110	2.38
TCD 492		1.58		<0.01	0.03	8.84	9.4	390	1.22	0.27	0.89	<0.02	58.1	150.5	53	3.01
TCD 493		0.83		0.01	0.01	9.60	8.7	450	1.64	0.11	1.47	<0.02	37.6	84.4	39	7.07
TCD 494		1.38		<0.01	0.01	9.60	8.7	360	1.65	0.05	1.93	<0.02	21.6	37.4	36	7.30
TCD 495		1.24		0.01	0.02	9.31	10.6	530	1.64	0.12	1.45	<0.02	26.9	206	34	3.59
TCD 496		0.64		<0.01	0.04	8.00	11.0	60	1.01	0.57	0.63	0.02	19.85	651	54	2.28
TCD 497		1.18		<0.01	0.04	8.56	9.9	110	1.22	0.49	0.68	0.02	26.1	250	44	3.73
TCD 498		1.78		<0.01	0.05	7.57	8.7	70	0.80	0.49	0.42	0.05	34.7	357	76	3.57
TCD 499		1.29		<0.01	1.07	4.69	82.9	80	0.40	0.57	0.29	0.32	12.50	5710	64	1.21
TCD 500		1.16		<0.01	0.05	8.00	10.5	80	0.72	0.47	0.45	0.05	20.6	452	82	4.26
TCD 501		1.69		<0.01	0.08	7.62	13.2	40	0.74	0.52	0.65	<0.02	38.0	626	77	2.99
TCD 502		1.56		<0.01	0.06	8.55	10.8	210	0.69	0.36	0.76	<0.02	21.3	211	75	3.00
TCD 503		1.54		<0.01	0.04	8.98	9.8	970	1.13	0.17	0.67	<0.02	12.45	112.0	50	3.92
TCD 504		1.38		<0.01	0.05	7.29	9.9	150	1.47	0.55	0.23	<0.02	21.3	128.0	88	6.94
TCD 505		1.35		<0.01	0.05	8.02	7.7	180	0.83	0.36	0.26	<0.02	43.2	76.7	112	9.81
TCD 506		1.72		<0.01	0.02	8.44	8.8	310	1.12	0.52	0.41	<0.02	29.4	85.7	71	6.46
TCD 507		1.74		<0.01	0.03	8.18	8.6	130	1.15	0.60	0.39	<0.02	31.4	101.5	106	8.04
TCD 508		1.60		<0.01	0.04	8.45	7.5	1970	0.75	0.19	0.36	<0.02	9.38	69.5	109	2.39
TCD 509		1.53		<0.01	0.02	7.94	6.9	80	0.76	0.27	0.31	0.03	45.0	68.8	125	7.94
TCD 510		1.58		<0.01	0.03	8.04	4.7	140	0.41	0.24	0.31	0.02	44.7	64.2	106	7.15
TCD 511		1.57		0.01	0.02	8.46	6.6	610	1.13	0.23	0.30	<0.02	55.8	30.0	87	10.90
TCD 512		1.89		<0.01	0.02	8.31	5.4	160	1.25	0.21	0.28	0.05	54.9	34.1	110	10.65
TCD 513		1.28		<0.01	0.03	8.35	8.1	690	1.65	0.20	0.45	<0.02	64.5	68.5	85	8.41
TCD 514		1.35		0.01	0.03	8.39	8.1	650	1.65	0.15	0.38	0.02	45.4	63.0	90	9.73
TCD 515		1.56		<0.01	0.04	8.31	8.9	160	1.02	0.36	0.51	<0.02	116.0	251	79	3.83
TCD 516		0.94		<0.01	0.04	8.02	7.5	120	0.72	0.36	0.47	<0.02	38.9	150.5	87	2.14
TCD 517		0.90		<0.01	0.03	8.33	7.0	270	0.73	0.44	0.55	<0.02	32.0	138.0	118	1.95
TCD 518		1.75		<0.01	0.05	9.38	8.9	1170	1.13	0.30	0.49	<0.02	39.7	75.3	64	6.12
TCD 519		1.32		<0.01	0.06	7.95	9.7	180	0.97	0.44	0.40	<0.02	43.3	117.0	96	7.43
TCD 520		1.49		<0.01	0.03	8.81	7.7	1420	0.96	0.18	0.56	<0.02	31.8	79.9	59	6.40
TCD 521		1.67		<0.01	0.02	8.86	8.3	1050	1.25	0.13	1.08	0.02	35.1	143.0	66	7.00
TCD 522		1.50		<0.01	0.08	9.10	8.9	200	0.86	0.23	0.87	0.03	183.0	274	58	4.09
TCD 523		0.46		0.06	0.03	8.76	9.6	320	0.90	0.16	0.27	<0.02	66.4	46.7	174	13.15



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## CERTIFICATE OF ANALYSIS PH18191327

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
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
TCD 484		35.6	4.89	15.80	0.18	3.6	0.018	2.13	67.7	19.8	3.18	402	11.50	1.98	7.0
TCD 485		15.8	4.63	18.40	0.32	3.8	0.016	2.57	155.5	25.4	4.27	396	2.93	1.29	7.2
TCD 486		76.7	3.97	16.30	0.24	4.1	0.017	2.17	87.0	25.1	4.12	389	8.32	1.27	6.9
TCD 487		115.0	4.54	16.95	0.20	4.4	0.022	3.49	66.3	25.2	2.89	377	15.40	0.91	4.9
TCD 488		19.3	2.59	11.40	0.23	4.2	0.012	3.48	45.5	15.8	0.22	94	8.17	0.51	3.5
TCD 489		30.3	3.46	14.85	0.25	4.2	0.015	3.32	50.3	28.4	0.30	76	5.86	0.45	4.0
TCD 490		74.1	1.86	14.60	0.16	4.0	0.024	4.40	25.4	26.4	0.34	103	4.80	0.98	4.5
TCD 491		111.5	2.93	12.50	0.20	4.0	0.024	3.27	50.5	12.0	0.47	131	12.75	2.47	3.9
TCD 492		88.1	4.32	15.25	0.17	2.8	0.020	1.67	29.5	11.5	1.37	244	1.06	2.73	3.5
TCD 493		51.0	3.14	20.2	0.20	2.8	0.020	2.23	17.7	30.1	2.51	571	2.26	2.05	4.4
TCD 494		41.9	2.81	18.60	0.18	2.8	0.014	1.89	9.5	35.2	2.78	613	6.32	1.83	3.9
TCD 495		29.5	5.65	16.30	0.16	2.5	0.015	1.73	13.2	24.4	2.31	698	46.9	2.44	3.5
TCD 496		13.6	8.39	13.55	0.14	2.5	0.017	4.28	8.0	14.2	1.34	375	48.0	1.65	4.4
TCD 497		23.3	5.36	13.65	0.13	2.8	0.018	4.96	11.5	18.2	1.35	385	22.1	1.24	4.5
TCD 498		54.4	7.08	11.95	0.14	2.1	0.015	4.10	15.0	16.4	0.60	101	9.80	0.66	2.0
TCD 499		76.9	24.6	10.40	0.12	1.4	0.014	1.83	5.4	2.4	0.73	75	397	0.58	1.6
TCD 500		47.4	5.91	11.45	0.05	2.0	0.017	4.30	8.5	11.1	0.59	151	32.1	0.95	2.9
TCD 501		38.5	8.34	18.75	0.11	2.2	0.022	1.92	18.2	9.9	1.43	204	91.0	1.06	2.6
TCD 502		69.4	4.70	15.85	0.08	2.8	0.022	3.75	9.7	15.7	1.65	578	20.7	1.18	3.8
TCD 503		28.2	3.92	16.90	0.10	2.8	0.021	2.79	5.5	32.0	2.49	1120	9.69	2.24	4.0
TCD 504		26.1	4.85	13.65	0.11	2.6	0.027	3.57	9.6	16.3	0.98	160	4.11	0.64	5.2
TCD 505		28.9	4.23	16.25	0.20	1.9	0.012	3.15	19.6	24.3	0.36	67	2.64	0.16	3.2
TCD 506		37.7	3.86	15.65	0.12	3.0	0.017	3.48	14.0	12.4	1.01	172	3.52	1.21	4.8
TCD 507		32.5	4.37	14.80	0.18	2.0	0.015	3.13	14.7	21.8	0.61	124	7.34	0.69	2.9
TCD 508		31.0	2.12	12.45	0.11	2.2	0.027	4.73	4.4	2.8	0.62	84	75.4	1.17	7.1
TCD 509		42.4	5.28	16.45	0.17	1.7	0.010	2.02	21.3	29.4	0.57	115	1.45	0.17	2.2
TCD 510		26.5	4.68	17.45	0.14	1.6	0.011	2.58	20.7	26.1	0.24	49	1.22	0.12	2.0
TCD 511		31.7	4.82	19.70	0.19	1.8	0.019	2.76	25.2	30.1	1.61	275	0.67	0.83	2.8
TCD 512		25.6	4.58	19.20	0.22	2.5	0.017	3.17	25.7	22.4	1.09	206	0.84	0.78	3.1
TCD 513		62.4	4.03	17.55	0.18	2.6	0.017	2.70	31.6	30.4	2.35	409	5.33	1.38	2.7
TCD 514		49.5	3.59	19.75	0.18	2.2	0.015	2.54	20.8	40.4	2.77	381	11.60	1.30	3.0
TCD 515		84.1	4.63	15.00	0.25	2.9	0.017	3.14	60.3	18.6	1.49	327	19.00	2.19	3.7
TCD 516		47.1	4.83	13.80	0.19	2.9	0.017	4.20	18.8	16.2	1.35	533	5.46	1.94	3.9
TCD 517		38.1	4.22	17.40	0.17	2.5	0.023	4.11	16.6	19.2	1.96	713	11.25	1.14	4.1
TCD 518		44.1	3.28	19.95	0.20	2.8	0.014	4.13	18.5	22.3	1.88	367	7.74	1.44	4.0
TCD 519		40.7	4.03	17.55	0.22	2.3	0.020	3.50	20.5	14.0	0.57	108	16.15	0.62	1.7
TCD 520		44.1	3.40	15.85	0.20	2.7	0.016	4.13	14.9	21.3	1.73	363	5.31	1.18	3.9
TCD 521		39.8	3.80	18.20	0.20	3.1	0.016	3.12	16.4	29.3	2.34	522	7.42	1.40	4.1
TCD 522		61.0	4.74	19.10	0.32	2.9	0.039	3.88	99.1	14.3	1.61	344	13.90	1.43	5.3
TCD 523		22.8	3.77	12.15	0.20	3.0	0.015	3.74	32.9	18.6	0.63	117	1.85	0.29	2.9



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## CERTIFICATE OF ANALYSIS PH18191327

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	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TCD 484		440	1.7	116.0	0.006	2.49	0.45	20.6	2	1.1	188.0	0.47	0.06	7.98	0.369	0.20
TCD 485		630	1.6	155.5	<0.002	1.33	0.32	22.5	1	1.7	170.0	0.47	<0.05	10.55	0.357	0.23
TCD 486		820	1.9	135.0	0.006	0.82	0.36	23.5	1	1.4	162.5	0.50	0.05	10.35	0.364	0.24
TCD 487		310	3.3	152.5	0.004	2.78	0.59	27.0	3	1.3	108.5	0.36	0.12	9.30	0.295	0.29
TCD 488		710	2.6	77.7	<0.002	2.20	0.64	18.4	2	1.4	67.8	0.30	0.09	7.74	0.182	0.27
TCD 489		520	2.2	84.9	0.002	3.07	0.64	18.4	2	1.3	111.5	0.32	0.06	5.53	0.190	0.27
TCD 490		580	2.2	117.5	<0.002	0.99	0.72	15.2	1	2.0	153.5	0.28	<0.05	5.96	0.223	0.24
TCD 491		640	2.0	88.3	0.004	2.09	0.58	15.8	1	2.5	162.5	0.27	0.06	8.71	0.202	0.18
TCD 492		920	3.1	61.8	0.002	2.97	0.39	37.3	3	3.3	153.5	0.25	0.09	25.9	0.231	0.12
TCD 493		640	1.8	94.5	<0.002	0.96	0.63	17.4	1	2.1	172.5	0.28	0.05	9.59	0.321	0.19
TCD 494		580	2.2	54.1	<0.002	0.29	0.74	16.0	<1	1.3	205	0.28	<0.05	7.62	0.344	0.17
TCD 495		530	2.4	60.4	0.018	2.07	0.63	11.1	1	2.8	208	0.24	0.08	6.18	0.300	0.17
TCD 496		590	4.9	95.9	0.004	7.56	0.57	20.6	3	3.2	151.0	0.29	0.22	5.95	0.218	0.20
TCD 497		670	9.1	105.5	0.002	4.07	0.63	16.9	2	2.6	158.5	0.35	0.21	8.97	0.193	0.24
TCD 498		590	4.2	90.3	0.002	6.92	0.50	24.1	4	2.4	125.5	0.16	0.35	5.73	0.118	0.20
TCD 499		330	57.0	43.3	0.009	>10.0	2.94	15.4	10	7.1	69.5	0.11	0.40	1.64	0.131	0.24
TCD 500		710	6.8	101.5	0.002	5.52	0.72	12.0	2	2.6	116.5	0.17	0.17	2.79	0.141	0.25
TCD 501		790	9.8	58.3	0.002	7.01	0.72	18.5	2	23.3	99.4	0.20	0.35	3.32	0.236	0.14
TCD 502		620	8.2	104.5	<0.002	3.16	0.77	15.1	1	6.8	118.5	0.24	0.13	4.17	0.288	0.21
TCD 503		540	4.0	78.2	<0.002	1.58	0.88	10.7	1	3.1	143.0	0.28	0.05	3.89	0.314	0.20
TCD 504		120	5.1	133.5	<0.002	4.23	0.83	9.2	1	3.5	58.0	0.32	0.12	2.49	0.231	0.26
TCD 505		550	2.5	113.5	0.002	4.07	0.72	8.5	2	1.8	52.8	0.20	0.08	2.35	0.165	0.27
TCD 506		420	5.1	130.0	<0.002	2.95	0.77	12.2	1	4.7	76.4	0.32	0.10	3.79	0.235	0.29
TCD 507		560	6.0	114.5	<0.002	3.93	0.91	9.1	1	3.2	80.0	0.19	0.12	2.17	0.146	0.26
TCD 508		290	6.0	124.0	0.003	1.08	0.74	12.0	<1	6.6	96.7	0.39	<0.05	2.42	0.288	0.32
TCD 509		440	2.5	69.9	0.002	5.23	0.66	7.0	1	0.8	56.9	0.18	0.09	1.90	0.120	0.22
TCD 510		620	1.8	73.4	<0.002	4.75	0.34	7.4	1	0.9	55.3	0.17	0.08	2.09	0.112	0.22
TCD 511		410	2.1	99.7	<0.002	2.80	0.49	23.1	1	1.4	66.7	0.19	0.14	5.34	0.196	0.23
TCD 512		430	3.1	113.5	<0.002	3.87	0.52	26.8	2	1.9	90.6	0.22	0.13	7.44	0.193	0.31
TCD 513		690	3.3	92.1	0.002	2.38	0.57	38.0	1	2.3	85.9	0.20	0.12	18.70	0.176	0.24
TCD 514		280	2.4	86.4	0.003	1.44	0.58	33.2	1	2.0	78.0	0.27	0.08	8.77	0.236	0.34
TCD 515		550	2.8	87.3	0.004	3.66	0.52	21.6	2	4.8	131.0	0.24	0.10	7.98	0.202	0.21
TCD 516		510	4.4	98.3	0.002	3.92	0.41	20.4	2	6.3	125.5	0.27	0.20	7.37	0.241	0.22
TCD 517		560	4.0	93.5	0.002	2.29	0.39	20.7	1	17.0	109.5	0.32	0.07	8.14	0.286	0.22
TCD 518		570	3.0	133.0	<0.002	1.84	0.60	23.1	1	4.6	110.0	0.29	<0.05	8.55	0.272	0.32
TCD 519		860	5.0	123.0	0.002	3.62	0.63	9.9	2	5.8	98.1	0.12	0.14	3.58	0.093	0.33
TCD 520		600	4.2	115.5	<0.002	2.17	0.59	13.7	1	2.6	118.5	0.25	0.07	5.18	0.245	0.34
TCD 521		510	2.6	70.4	<0.002	2.21	0.69	14.9	<1	2.5	142.5	0.30	0.09	5.42	0.272	0.26
TCD 522		640	8.5	119.0	<0.002	3.34	0.69	17.6	1	14.9	136.5	0.31	0.18	7.54	0.286	0.25
TCD 523		520	4.3	147.0	<0.002	3.20	0.57	14.6	2	1.6	66.9	0.25	0.11	3.21	0.171	0.50



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD 484		3.8	195	0.7	11.9	34	134.0	
TCD 485		2.3	206	0.6	17.1	26	145.0	
TCD 486		2.3	188	0.6	18.3	23	150.5	
TCD 487		9.4	181	2.1	17.0	18	163.0	
TCD 488		13.0	168	1.8	17.9	7	147.0	
TCD 489		12.8	228	2.9	24.7	4	151.5	
TCD 490		7.9	222	3.2	16.0	5	171.0	
TCD 491		5.2	132	5.1	16.6	5	152.0	
TCD 492		6.9	103	4.7	17.5	12	107.0	
TCD 493		5.8	192	2.8	15.8	36	116.0	
TCD 494		6.6	189	1.5	9.8	35	100.5	
TCD 495		10.6	131	2.1	10.2	42	90.6	
TCD 496		21.0	148	3.8	9.5	22	91.6	
TCD 497		20.2	133	3.3	12.1	20	95.8	
TCD 498		9.9	184	2.2	12.5	16	81.7	
TCD 499		21.3	198	1.8	22.0	4	53.5	
TCD 500		18.6	125	4.0	14.1	10	74.3	
TCD 501		26.6	325	3.4	15.9	15	81.7	
TCD 502		26.2	180	5.6	11.7	32	104.5	
TCD 503		25.8	119	6.5	9.9	54	101.5	
TCD 504		60.2	95	6.0	19.2	7	92.0	
TCD 505		28.5	144	2.9	15.4	2	83.8	
TCD 506		42.8	129	5.7	15.0	9	94.3	
TCD 507		68.0	130	3.9	20.3	6	68.7	
TCD 508		35.5	127	6.5	8.0	3	81.5	
TCD 509		15.0	142	2.4	11.8	14	61.7	
TCD 510		4.6	168	2.6	10.3	6	60.2	
TCD 511		4.2	177	0.9	14.4	21	75.9	
TCD 512		4.0	193	1.2	15.2	32	102.5	
TCD 513		12.1	203	3.7	19.5	23	95.7	
TCD 514		9.6	341	3.7	14.3	25	79.0	
TCD 515		8.1	145	3.9	14.8	17	106.5	
TCD 516		27.2	127	5.8	15.1	19	109.0	
TCD 517		37.6	182	5.3	21.9	21	93.3	
TCD 518		18.5	212	4.6	19.8	15	103.5	
TCD 519		35.4	144	2.4	37.3	4	87.6	
TCD 520		23.1	140	4.8	16.1	19	102.5	
TCD 521		13.6	146	5.4	12.1	29	110.0	
TCD 522		57.1	157	5.1	29.6	19	118.0	
TCD 523		17.7	187	2.9	19.1	6	102.0	



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**CERTIFICATE OF ANALYSIS PH18191327**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TCD 524		1.60	97.0	<0.01	0.03	7.69	6.6	130	1.14	0.17	0.29	<0.02	62.0	50.1	94	12.25
TCD 525		1.65		<0.01	0.02	8.72	6.7	550	1.33	0.17	0.29	<0.02	60.6	68.2	78	13.45
TCD 526		1.63		<0.01	0.02	8.75	6.5	630	1.20	0.21	0.44	<0.02	102.0	65.4	175	10.20
TCD 527		1.38		<0.01	0.02	8.24	6.3	200	0.67	0.29	0.27	<0.02	65.7	42.4	126	7.98
TCD 528		1.68		<0.01	0.03	7.76	7.1	190	1.25	0.30	0.26	<0.02	55.3	29.7	123	11.05
TCD 529		1.65		<0.01	0.03	8.20	6.3	90	1.02	0.25	0.28	<0.02	55.2	42.0	123	11.75
TCD 530		1.86		<0.01	0.04	8.92	5.8	60	0.85	0.21	0.30	<0.02	62.0	48.1	208	9.78
TCD 531		2.27		<0.01	0.03	7.89	4.8	100	0.89	0.21	0.28	<0.02	57.2	47.6	177	10.45
TCD 532		2.78		0.01	0.03	8.87	8.8	470	0.97	0.22	0.28	<0.02	49.6	190.5	84	9.90
TCD 533		3.37		<0.01	0.02	7.95	5.8	610	1.16	0.20	0.25	<0.02	54.8	26.2	125	10.85
TCD 534		3.33		<0.01	0.03	8.72	7.1	370	1.23	0.24	0.31	0.04	53.5	58.8	79	9.29
TCD 535		3.37		<0.01	0.03	8.77	8.1	680	1.06	0.21	0.36	<0.02	59.6	48.1	96	10.85
TCD 536		3.41		<0.01	0.01	8.30	8.0	510	1.22	0.28	0.26	<0.02	68.7	32.8	119	10.85
TCD 537		3.67		0.01	0.04	8.74	7.4	210	1.25	0.32	0.34	0.02	65.8	66.6	113	8.95
TCD 538		3.36		<0.01	0.01	8.78	6.0	250	0.89	0.26	0.32	<0.02	57.8	74.5	136	8.24
TCD 539		3.25		<0.01	0.03	8.50	6.8	180	0.99	0.19	0.37	<0.02	55.7	94.9	126	11.65
TCD 540		3.42		<0.01	0.02	8.55	8.1	520	1.09	0.23	0.34	0.02	49.5	75.2	110	10.10
TCD 541		3.70		<0.01	0.03	8.73	8.2	530	1.01	0.22	0.39	<0.02	50.7	60.9	99	10.55
TCD 542		3.64		<0.01	0.03	8.88	6.7	290	1.31	0.19	0.48	<0.02	68.7	57.7	80	10.65
TCD 543		2.50		<0.01	0.03	8.22	6.3	160	1.14	0.20	0.30	<0.02	58.1	43.0	91	11.65





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**CERTIFICATE OF ANALYSIS PH18191327**

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
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
TCD 524		40.6	4.32	15.70	0.21	2.6	0.013	2.68	30.9	25.3	1.63	178	1.62	0.58	2.1
TCD 525		44.0	3.86	19.70	0.20	2.8	0.019	3.09	29.9	37.9	2.14	204	2.33	0.76	2.4
TCD 526		28.7	4.09	18.85	0.24	3.9	0.015	3.17	53.3	20.8	1.18	180	4.74	1.11	3.4
TCD 527		51.7	5.21	15.15	0.23	3.2	0.018	3.24	31.2	8.3	0.49	189	1.05	0.79	3.2
TCD 528		62.0	5.58	16.75	0.16	3.3	0.017	2.28	27.0	43.0	1.70	356	0.67	0.73	2.1
TCD 529		30.3	5.29	15.75	0.19	1.8	0.021	2.70	26.0	26.2	1.20	218	1.35	0.47	0.7
TCD 530		34.5	6.15	16.90	0.15	2.2	0.014	2.15	29.9	25.4	0.86	143	1.61	0.25	1.9
TCD 531		31.4	5.91	15.65	0.16	2.7	0.011	2.37	27.5	25.1	0.94	159	1.37	0.22	2.4
TCD 532		35.9	4.68	17.10	0.17	3.2	0.016	3.03	24.3	24.0	1.72	248	12.90	0.75	3.4
TCD 533		32.8	4.59	18.25	0.20	3.3	0.020	2.49	26.9	32.4	1.93	263	0.85	0.54	3.4
TCD 534		53.5	4.02	17.10	0.17	2.9	0.014	2.62	25.9	25.2	2.14	363	3.06	0.96	2.8
TCD 535		33.9	3.80	15.55	0.17	3.0	0.012	2.54	29.7	21.0	1.87	311	2.35	1.15	2.5
TCD 536		25.3	4.68	17.90	0.23	3.9	0.019	2.35	34.5	38.8	2.57	207	1.34	0.64	4.1
TCD 537		74.3	4.25	17.15	0.23	3.4	0.027	2.95	32.1	17.5	1.42	373	2.82	1.17	3.0
TCD 538		52.0	4.02	16.65	0.15	2.9	0.014	3.10	27.5	16.4	1.02	187	5.72	0.39	2.8
TCD 539		36.2	4.35	15.80	0.18	2.7	0.014	3.04	26.7	17.3	1.44	245	9.23	0.39	2.6
TCD 540		69.3	3.68	16.55	0.20	2.6	0.020	2.96	24.0	23.5	1.84	251	11.05	0.78	2.4
TCD 541		47.6	4.42	16.80	0.15	2.9	0.018	2.60	24.8	26.3	2.21	315	5.46	1.11	2.3
TCD 542		58.7	3.97	19.35	0.23	3.0	0.018	2.80	33.6	22.2	2.02	355	2.81	1.06	2.7
TCD 543		35.9	4.51	16.05	0.21	1.7	0.014	2.62	28.6	22.7	1.77	248	1.11	0.66	0.9



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**CERTIFICATE OF ANALYSIS PH18191327**

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	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TCD 524		730	2.7	107.0	0.002	3.52	0.45	13.9	2	1.5	69.1	0.16	0.12	3.08	0.124	0.34
TCD 525		450	2.5	114.0	0.002	2.66	0.57	22.7	1	1.6	67.9	0.18	0.16	8.56	0.151	0.34
TCD 526		660	2.6	113.0	0.002	2.79	0.57	19.5	1	2.2	62.6	0.28	0.14	8.38	0.187	0.41
TCD 527		530	2.3	114.0	<0.002	4.13	0.53	18.3	3	1.7	58.5	0.24	0.21	7.11	0.197	0.35
TCD 528		530	2.6	76.1	<0.002	3.10	0.50	13.9	2	1.3	65.4	0.17	0.22	6.16	0.145	0.37
TCD 529		460	2.6	87.2	<0.002	3.92	0.39	14.0	3	0.7	73.1	0.05	0.12	4.07	0.082	0.44
TCD 530		240	2.9	64.7	<0.002	4.98	0.35	13.6	3	0.8	80.5	0.15	0.11	3.37	0.133	0.34
TCD 531		480	2.1	73.0	<0.002	4.58	0.36	13.3	2	0.9	74.6	0.19	0.10	3.74	0.155	0.38
TCD 532		510	2.1	94.3	<0.002	2.95	0.51	18.7	1	2.2	59.5	0.28	0.15	7.34	0.216	0.36
TCD 533		500	2.1	81.1	<0.002	2.01	0.49	24.3	1	2.1	67.4	0.27	0.20	9.30	0.221	0.35
TCD 534		460	6.2	75.1	<0.002	2.60	0.60	19.7	2	1.5	84.0	0.21	0.18	9.74	0.171	0.33
TCD 535		560	3.4	72.4	<0.002	2.29	0.42	22.8	1	1.4	92.2	0.21	0.13	11.00	0.181	0.41
TCD 536		440	2.3	102.0	<0.002	1.79	0.49	23.9	1	1.6	60.7	0.28	0.18	11.15	0.231	0.33
TCD 537		600	3.5	88.5	<0.002	3.14	0.60	18.2	2	1.6	105.5	0.21	0.20	8.87	0.167	0.39
TCD 538		500	1.6	86.0	<0.002	3.20	0.52	14.8	2	1.5	69.9	0.19	0.10	4.65	0.153	0.30
TCD 539		480	4.0	80.9	<0.002	3.32	0.49	17.7	1	2.3	74.2	0.20	0.08	6.73	0.158	0.47
TCD 540		420	3.4	82.7	<0.002	2.50	0.55	21.1	1	2.0	81.9	0.16	0.12	7.31	0.146	0.28
TCD 541		440	4.9	70.4	<0.002	2.69	0.49	22.6	1	1.7	88.0	0.19	0.11	8.30	0.171	0.38
TCD 542		500	3.1	91.4	<0.002	2.70	0.50	16.8	2	1.5	103.0	0.17	0.14	7.50	0.150	0.34
TCD 543		450	3.0	77.6	<0.002	3.23	0.38	17.5	2	0.9	80.0	0.07	0.21	9.10	0.093	0.30





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**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method:

REE's may not be totally soluble in this method.  
ME-MS61

**ACCREDITATION COMMENTS**

Applies to Method:

NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist  
Au-AA25 ME-MS61

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia

Au-AA25	BAG-01	CRU-21	CRU-31
CRU-QC	LEV-01	LOG-22	ME-MS61
PUL-23	PUL-QC	SAM-COR01	SPL-21
SPLIT-D	TRSPEC-20	WEI-21	