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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 1  
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 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 This copy reported on  
 27-AUG-2018  
 Account: RTECIKBZ

**CERTIFICATE TB18172553**

Project: EB80004239  
 P.O. No.: 3103290934  
 This report is for 168 Drill Core samples submitted to our lab in Thunder Bay, ON,  
 Canada on 18-JUL-2018.

The following have access to data associated with this certificate:

RACHELLE BOULANGER  
 RTXAMRNA ASSAY RESULTS

SUE DRIEBERG  
 ROBERT RUSH

BRIAN GOLDNER

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with BarCode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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 \*\*\*\*\*

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40386000		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40386000		0.80	60.3	18.05	6.59	5.70	2.23	3.74	2.83	0.003	0.83	0.10	0.24	0.07	0.13	101.08
40386001		5.00	48.2	16.70	12.35	9.66	7.70	2.38	0.65	0.039	1.49	0.16	0.15	0.03	0.02	101.25
40386002		5.73	50.3	15.20	12.95	6.51	6.43	2.49	0.88	0.026	1.90	0.13	0.15	0.04	0.03	99.06
40386003		5.70	51.4	16.60	12.20	6.45	5.91	2.39	1.06	0.040	1.75	0.12	0.10	0.03	0.03	99.68
40386004		3.94	55.7	12.60	14.85	3.51	8.10	1.91	1.48	0.107	0.84	0.12	0.10	0.02	0.03	101.95
40386005		3.23	51.8	16.00	12.80	5.62	7.93	1.90	1.23	0.085	0.62	0.12	0.12	0.02	0.03	100.44
40386006		3.12	48.3	21.7	8.05	9.67	3.87	2.73	1.51	0.031	0.49	0.08	0.07	0.04	0.03	99.98
40386007		2.79	45.2	19.80	10.15	10.75	6.06	2.22	0.67	0.029	0.85	0.11	0.09	0.03	0.01	99.18
40386008		2.72	45.7	19.25	10.60	10.40	7.84	2.15	0.45	0.041	0.59	0.12	0.04	0.03	0.01	99.55
40386009		2.82	45.0	19.60	10.60	10.70	7.13	2.09	0.37	0.057	0.57	0.11	0.06	0.02	0.01	99.43
40386010		0.17	43.8	17.75	13.85	9.33	7.54	2.06	0.63	0.322	1.28	0.15	0.14	0.03	0.02	98.21
40386011		2.97	44.1	18.25	13.40	9.43	7.49	2.17	0.35	0.091	0.72	0.12	0.06	0.02	0.01	98.96
40386012		2.74	46.1	20.8	8.83	11.15	6.43	2.29	0.40	0.115	0.72	0.10	0.06	0.03	0.01	99.85
40386013		2.70	45.8	21.2	9.62	11.40	6.64	2.12	0.31	0.039	0.73	0.10	0.07	0.03	0.01	100.42
40386014		2.83	45.2	20.8	9.80	11.00	8.06	1.87	0.25	0.356	0.66	0.11	0.06	0.03	0.01	100.47
40386015		2.93	44.7	19.35	10.75	10.55	8.38	1.95	0.29	0.297	1.13	0.12	0.10	0.03	0.01	100.01
40386016		2.75	44.9	21.1	8.91	11.10	8.21	1.81	0.29	0.176	0.73	0.11	0.09	0.03	0.01	99.80
40386017		2.14	44.8	22.2	8.73	11.30	6.26	2.01	0.31	0.473	0.79	0.10	0.08	0.03	0.01	99.47
40386018		2.43	47.5	16.80	12.00	10.35	9.20	2.27	0.28	0.071	1.04	0.15	0.10	0.02	0.01	100.31
40386019		1.61	47.8	19.20	10.30	10.25	7.11	2.62	0.35	0.035	1.20	0.13	0.11	0.03	0.02	99.70
40386020		1.38	48.3	19.15	9.26	10.95	6.68	2.65	0.38	0.048	1.10	0.12	0.11	0.03	0.02	99.44
40386021		5.34	46.4	19.85	9.62	10.55	8.41	2.16	0.26	0.058	0.88	0.12	0.11	0.03	0.01	99.30
40386022		5.55	46.6	20.4	9.38	10.80	8.43	2.09	0.26	0.060	0.79	0.12	0.09	0.03	0.01	100.36
40386023		5.52	52.8	17.05	10.10	9.86	6.23	2.62	0.82	0.043	0.92	0.13	0.11	0.02	0.02	101.93
40386024		5.73	57.0	16.10	9.52	6.92	5.65	2.70	1.27	0.050	0.80	0.12	0.14	0.02	0.03	101.98
40386025		5.97	48.2	13.45	16.05	8.86	6.29	2.54	0.57	0.046	2.26	0.22	0.27	0.01	0.02	99.90
40386026		5.96	48.7	14.70	13.60	10.40	6.38	2.61	0.49	0.038	2.08	0.18	0.18	0.02	0.02	99.85
40386027		5.72	48.9	15.00	13.75	9.94	6.27	2.68	0.53	0.033	2.00	0.18	0.20	0.02	0.02	100.03
40386028		5.65	49.1	15.10	13.40	10.05	5.95	2.69	0.54	0.033	2.02	0.18	0.23	0.02	0.02	100.29
40386029		6.18	49.9	15.15	12.90	10.15	5.88	2.77	0.65	0.039	1.81	0.18	0.26	0.02	0.03	100.45
40386030		1.37	60.3	17.45	6.88	5.59	2.37	3.67	2.73	0.004	0.91	0.11	0.27	0.05	0.11	100.78
40386031		5.83	49.0	14.95	12.75	9.89	5.73	2.83	0.69	0.044	1.77	0.18	0.27	0.02	0.03	98.82
40386032		5.92	49.3	14.75	13.85	9.45	5.55	2.87	0.73	0.030	2.23	0.19	0.32	0.02	0.03	100.25
40386033		6.07	48.9	14.85	14.00	9.32	5.52	2.89	0.75	0.027	2.23	0.19	0.33	0.02	0.03	99.82
40386034		5.86	48.4	14.85	14.55	9.26	5.37	2.90	0.69	0.023	2.27	0.19	0.32	0.02	0.03	99.46
40386035		6.10	47.2	14.55	14.40	9.78	5.51	2.76	0.60	0.028	2.49	0.19	0.24	0.02	0.03	98.40
40386036		6.08	47.0	14.60	14.35	10.20	5.69	2.67	0.51	0.031	2.58	0.19	0.21	0.02	0.02	98.51
40386037		5.93	47.9	15.10	13.75	10.35	5.57	2.79	0.54	0.030	2.58	0.18	0.23	0.02	0.03	99.80
40386038		5.90	47.7	14.80	13.55	9.84	5.21	2.88	0.65	0.026	2.63	0.18	0.26	0.03	0.03	98.54
40386039		5.42	48.5	15.35	13.25	9.69	4.90	3.09	0.69	0.028	2.47	0.18	0.29	0.02	0.03	99.48

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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 Account: RTECIKBZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386000		0.27	0.03	0.08	1195	72.9	30	1.36	6.18	3.58	1.85	25.1	7.08	7.4	1.22	32.5
40386001		1.72	0.01	0.03	182.5	29.0	290	1.90	3.92	2.12	1.25	20.6	4.14	3.0	0.80	13.0
40386002		2.02	<0.01	0.07	235	34.2	210	2.08	3.37	1.85	1.91	22.6	3.92	2.8	0.70	15.8
40386003		1.60	<0.01	0.26	306	31.1	310	3.06	2.76	1.71	1.74	23.3	2.86	2.5	0.55	14.9
40386004		2.58	<0.01	0.76	257	43.4	810	5.54	4.13	2.38	1.32	21.3	3.93	3.6	0.87	20.4
40386005		2.16	<0.01	0.30	226	31.1	580	4.06	2.96	1.75	1.20	20.5	3.20	2.7	0.60	14.8
40386006		3.41	<0.01	0.57	232	17.0	220	1.96	1.80	1.00	0.91	20.9	1.81	1.4	0.33	7.9
40386007		3.21	<0.01	0.55	127.0	18.7	200	2.24	2.53	1.38	0.99	20.5	2.48	1.8	0.52	8.5
40386008		2.33	<0.01	0.16	94.4	10.9	290	2.51	1.51	0.89	0.78	18.9	1.50	0.9	0.32	5.0
40386009		3.11	0.01	0.45	84.7	11.7	400	2.41	1.62	0.86	0.74	18.0	1.61	1.2	0.35	5.3
40386010		1.31	0.01	0.85	152.0	23.9	2230	2.59	3.39	1.81	1.15	20.1	3.36	2.5	0.64	10.6
40386011		2.75	<0.01	0.50	87.9	11.9	660	2.39	1.76	1.00	0.83	18.3	1.58	1.1	0.34	5.5
40386012		2.81	<0.01	0.14	114.5	12.5	820	2.89	1.86	1.01	0.95	19.1	1.81	1.3	0.38	5.7
40386013		2.35	<0.01	0.32	95.8	12.9	270	1.94	1.74	1.08	0.86	18.4	1.91	1.3	0.38	5.9
40386014		2.26	<0.01	0.22	97.6	13.1	2810	2.57	1.79	1.02	0.95	20.5	1.87	1.4	0.39	5.8
40386015		2.35	0.01	0.37	97.9	16.2	2000	1.90	2.31	1.21	0.89	18.1	2.33	1.7	0.45	7.3
40386016		2.33	<0.01	0.16	115.0	15.6	1270	1.88	2.20	1.23	0.91	18.9	2.07	1.6	0.46	7.0
40386017		2.38	<0.01	0.16	107.0	13.9	3360	2.13	1.84	1.10	0.89	20.6	2.00	1.5	0.37	6.3
40386018		0.52	<0.01	0.03	112.5	16.8	510	1.24	2.59	1.54	0.99	19.1	2.82	1.9	0.59	7.6
40386019		0.54	<0.01	0.03	133.5	19.8	250	0.95	2.81	1.62	1.03	20.7	2.77	2.0	0.52	8.8
40386020		0.64	<0.01	0.02	137.0	19.3	330	0.87	3.06	1.65	1.07	20.6	3.09	1.9	0.61	8.5
40386021		0.84	<0.01	0.02	111.5	18.2	430	0.90	2.44	1.36	0.90	19.2	2.63	1.9	0.52	8.1
40386022		1.30	<0.01	0.02	109.0	15.9	450	0.85	2.19	1.32	0.86	19.5	2.39	1.5	0.45	7.2
40386023		1.21	<0.01	0.02	191.5	27.0	310	1.16	3.41	1.75	0.96	20.8	3.33	2.5	0.65	12.4
40386024		1.66	<0.01	0.02	292	42.0	370	1.70	4.29	2.47	1.46	22.6	4.51	3.8	0.85	19.3
40386025		1.11	<0.01	0.06	215	51.5	340	0.82	7.13	4.09	1.89	24.8	7.30	5.0	1.43	22.8
40386026		0.45	<0.01	0.07	227	34.2	290	0.71	5.36	3.01	1.50	23.4	5.02	3.8	0.99	15.3
40386027		0.51	<0.01	0.07	206	38.0	240	0.74	5.35	3.16	1.65	23.2	5.65	4.0	1.12	17.1
40386028		0.96	<0.01	0.06	210	39.4	250	0.81	5.94	3.38	1.70	23.6	5.69	4.2	1.17	17.3
40386029		0.71	<0.01	0.05	246	49.0	290	0.73	6.80	3.74	1.90	25.4	6.56	5.0	1.33	21.9
40386030		0.34	0.02	0.09	915	65.8	30	1.19	6.18	3.51	1.60	24.0	7.09	8.0	1.24	28.6
40386031		0.67	<0.01	0.07	253	48.4	330	0.77	6.31	3.76	1.95	22.9	6.34	4.8	1.32	21.8
40386032		0.93	<0.01	0.06	275	54.5	220	0.72	6.60	3.87	1.95	22.5	7.21	5.7	1.45	24.6
40386033		0.76	<0.01	0.08	297	56.4	200	0.74	7.29	4.29	2.11	24.3	7.27	5.8	1.58	25.7
40386034		0.59	<0.01	0.09	283	54.1	180	0.71	6.85	4.01	2.11	24.5	7.27	5.6	1.52	24.2
40386035		0.60	<0.01	0.09	242	41.8	210	0.60	5.88	3.38	1.87	22.2	5.98	4.6	1.24	18.5
40386036		0.44	<0.01	0.05	209	36.7	230	0.49	5.11	3.02	1.69	21.9	5.29	3.9	1.06	16.3
40386037		0.73	<0.01	0.08	234	39.1	230	0.55	5.60	3.29	1.86	22.7	5.61	4.3	1.17	17.5
40386038		0.75	<0.01	0.08	232	42.6	180	0.49	5.85	3.44	1.78	21.1	6.19	4.8	1.20	19.1
40386039		0.99	<0.01	0.05	246	44.0	190	0.55	5.96	3.53	1.85	22.4	6.20	4.8	1.26	19.9

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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





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**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386000		0.45	14.0	39.9	9.13	115.5	8.08	2	652	0.7	0.99	5.24	0.49	1.62	130	<1
40386001		0.27	8.1	16.8	3.73	17.5	3.84	1	299	0.5	0.57	1.84	0.31	0.60	199	1
40386002		0.28	10.9	18.1	4.44	31.4	4.02	2	432	0.7	0.54	2.71	0.26	1.22	387	1
40386003		0.22	8.4	16.1	3.82	40.9	3.33	1	343	0.6	0.44	2.78	0.23	1.35	357	1
40386004		0.36	8.4	21.4	5.27	64.6	4.40	1	207	0.5	0.63	5.07	0.37	2.27	451	1
40386005		0.27	6.0	16.0	3.92	45.2	3.59	1	247	0.3	0.47	2.79	0.24	1.32	236	1
40386006		0.13	3.8	8.8	2.16	54.6	1.94	1	391	0.2	0.28	1.21	0.14	0.51	78	1
40386007		0.17	5.2	10.5	2.34	22.9	2.50	2	328	0.3	0.42	0.94	0.21	0.23	115	1
40386008		0.11	2.7	6.2	1.42	14.2	1.37	1	295	0.1	0.23	0.48	0.12	0.13	96	<1
40386009		0.12	3.0	6.7	1.48	11.5	1.54	1	268	0.1	0.26	0.54	0.13	0.13	97	<1
40386010		0.24	7.3	13.5	3.14	20.9	3.28	2	326	0.4	0.51	1.10	0.26	0.29	172	1
40386011		0.11	3.5	6.6	1.52	10.0	1.46	2	280	0.2	0.26	0.52	0.14	0.14	119	2
40386012		0.12	3.7	7.4	1.66	13.2	1.64	1	331	0.2	0.28	0.59	0.14	0.13	127	<1
40386013		0.16	3.8	7.0	1.73	8.4	1.83	1	308	0.2	0.26	0.53	0.14	0.14	108	<1
40386014		0.15	3.7	7.6	1.72	7.3	1.66	1	320	0.2	0.29	0.55	0.13	0.13	138	<1
40386015		0.18	5.4	9.1	2.07	7.9	2.10	1	273	0.3	0.35	0.68	0.19	0.14	164	<1
40386016		0.17	4.8	8.8	2.05	8.3	2.10	1	312	0.2	0.33	0.76	0.17	0.19	97	<1
40386017		0.16	4.0	8.0	1.85	8.0	1.70	1	322	0.2	0.29	0.56	0.16	0.13	155	<1
40386018		0.21	5.0	10.1	2.17	6.2	2.49	1	258	0.3	0.39	0.64	0.21	0.16	175	1
40386019		0.22	6.3	11.1	2.58	8.1	2.85	1	291	0.3	0.45	0.86	0.22	0.22	148	<1
40386020		0.21	5.8	11.3	2.56	8.9	3.07	1	288	0.3	0.47	0.82	0.23	0.22	155	<1
40386021		0.22	5.5	10.6	2.34	5.8	2.38	1	295	0.3	0.39	0.75	0.20	0.20	116	2
40386022		0.18	5.0	9.2	2.07	6.2	2.23	1	329	0.2	0.35	0.71	0.18	0.17	113	1
40386023		0.23	6.1	14.2	3.43	26.9	3.24	1	238	0.4	0.51	2.10	0.23	0.84	173	<1
40386024		0.34	9.1	21.8	5.25	45.4	4.67	1	233	0.5	0.67	3.81	0.34	1.59	148	1
40386025		0.50	14.3	29.7	6.65	15.6	6.95	2	206	0.8	1.06	2.73	0.55	0.73	362	1
40386026		0.39	10.6	20.3	4.46	12.3	4.90	1	242	0.6	0.83	1.67	0.43	0.43	348	<1
40386027		0.41	11.6	21.8	4.93	13.2	5.23	1	241	0.7	0.86	1.82	0.39	0.51	309	<1
40386028		0.40	11.8	23.2	5.10	13.6	5.38	1	233	0.7	0.91	2.04	0.45	0.56	299	1
40386029		0.50	14.4	27.8	6.34	16.6	6.60	2	246	0.8	1.09	2.37	0.49	0.58	269	3
40386030		0.46	11.8	36.5	8.65	105.0	7.67	2	523	0.6	1.05	4.43	0.48	1.47	116	1
40386031		0.49	13.3	27.0	6.39	18.1	6.03	2	245	0.8	1.10	2.49	0.53	0.74	219	<1
40386032		0.55	15.7	29.9	7.13	19.7	7.20	2	234	0.9	1.22	2.73	0.57	0.77	267	1
40386033		0.55	16.3	32.4	7.46	20.4	7.22	2	251	1.0	1.26	2.68	0.62	0.75	285	1
40386034		0.58	15.9	30.5	7.07	18.3	6.92	2	261	0.9	1.16	2.62	0.59	0.74	268	1
40386035		0.46	12.8	24.5	5.58	14.5	5.77	1	245	0.8	0.97	2.04	0.47	0.57	293	<1
40386036		0.40	11.5	21.3	4.93	12.5	4.95	1	245	0.7	0.89	1.55	0.39	0.42	331	<1
40386037		0.42	12.2	22.5	5.16	13.5	5.34	1	257	0.7	0.95	1.87	0.44	0.53	357	<1
40386038		0.46	12.5	24.0	5.65	14.8	5.69	2	226	0.8	0.94	2.06	0.47	0.57	332	<1
40386039		0.45	13.1	25.4	5.83	16.3	5.62	1	245	0.8	0.99	2.07	0.46	0.54	288	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61
		Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	Ag ppm	Cd ppm	Co ppm
40386000		32.8	3.01	298	0.4	0.01	<0.005	0.033	0.001	<0.05	<0.2	0.02	0.37	0.03	0.05	15.3
40386001		19.8	1.89	111	1.7	0.02	<0.005	0.015	<0.001	0.10	0.4	0.02	0.09	0.08	0.11	52.2
40386002		17.3	1.63	108	47.8	0.04	<0.005	0.022	0.003	0.50	0.5	0.05	0.23	0.18	0.18	62.2
40386003		14.8	1.49	93	4.6	0.03	<0.005	0.020	0.001	0.13	0.5	0.02	0.24	0.15	0.20	52.0
40386004		21.2	2.34	136	1.1	0.05	<0.005	0.035	0.006	0.10	1.1	0.05	0.39	0.21	0.26	83.7
40386005		15.4	1.61	100	7.1	0.05	<0.005	0.027	0.005	0.22	0.9	0.06	0.33	0.28	0.26	69.6
40386006		9.0	0.83	53	2.1	0.02	<0.005	0.028	0.006	0.09	1.7	0.08	0.14	0.53	0.29	53.9
40386007		12.8	1.13	71	8.4	0.03	<0.005	0.027	0.003	0.24	1.4	0.07	0.11	0.47	0.38	72.9
40386008		8.1	0.74	38	11.5	0.02	<0.005	0.017	0.002	0.24	0.5	0.04	0.07	0.23	0.23	60.3
40386009		8.4	0.87	46	46.4	0.10	<0.005	0.031	0.005	0.57	1.5	0.14	0.06	0.63	0.36	76.4
40386010		16.7	1.50	100	6.6	0.47	0.012	0.052	0.007	0.32	3.0	0.16	0.32	1.49	0.48	93.5
40386011		8.6	0.80	48	101.0	0.05	0.006	0.046	0.004	0.82	2.0	0.08	0.07	0.57	0.51	118.0
40386012		9.4	0.92	50	169.0	0.05	<0.005	0.025	0.002	1.29	0.7	0.07	0.04	0.20	0.20	55.2
40386013		9.2	0.90	50	>250	0.11	<0.005	0.054	0.004	1.59	2.3	0.12	0.03	0.76	0.54	79.8
40386014		9.2	0.95	52	38.1	0.10	<0.005	0.029	0.003	0.28	1.4	0.11	0.04	0.54	0.33	72.2
40386015		11.9	1.10	69	12.4	0.19	<0.005	0.035	0.004	0.20	1.6	0.15	0.05	0.73	0.32	72.5
40386016		11.4	1.21	66	154.0	0.06	<0.005	0.023	0.002	0.82	1.3	0.08	0.03	0.50	0.20	54.1
40386017		9.7	0.84	56	104.0	0.09	<0.005	0.019	0.002	0.58	1.9	0.10	0.05	0.86	0.17	48.1
40386018		13.7	1.46	70	27.8	0.05	<0.005	0.015	0.001	0.12	0.2	0.01	0.03	0.06	0.10	56.2
40386019		14.4	1.38	83	18.8	0.03	<0.005	0.015	0.001	0.09	0.4	0.01	0.03	0.09	0.10	47.6
40386020		15.1	1.46	78	19.0	0.03	<0.005	0.013	<0.001	0.08	<0.2	0.01	0.03	0.05	0.08	40.8
40386021		13.4	1.25	75	17.6	0.03	<0.005	0.016	<0.001	0.09	0.2	0.01	0.03	0.06	0.09	51.7
40386022		11.7	1.18	65	19.0	0.03	<0.005	0.016	0.001	0.09	0.2	<0.01	0.03	0.04	0.10	51.2
40386023		16.7	1.54	97	7.2	0.02	<0.005	0.011	<0.001	0.06	0.2	0.01	0.04	0.07	0.11	42.7
40386024		23.0	2.33	151	3.7	0.02	<0.005	0.019	<0.001	0.08	<0.2	<0.01	0.09	0.06	0.14	29.3
40386025		36.1	3.54	202	9.0	0.16	<0.005	0.026	0.003	0.07	0.6	0.05	0.05	0.16	0.23	54.9
40386026		27.0	2.41	145	3.2	0.02	<0.005	0.025	0.001	<0.05	0.4	0.01	0.04	0.14	0.17	50.7
40386027		28.3	2.63	154	1.3	0.01	<0.005	0.024	0.001	<0.05	0.2	0.01	0.03	0.10	0.16	47.5
40386028		29.6	2.87	166	2.6	0.03	<0.005	0.023	0.001	<0.05	0.4	0.01	0.03	0.09	0.17	46.1
40386029		35.2	3.29	195	2.2	0.02	<0.005	0.024	0.001	<0.05	0.5	0.01	0.03	0.09	0.15	41.9
40386030		33.1	3.17	324	0.3	0.01	<0.005	0.035	0.001	<0.05	<0.2	0.02	0.33	0.03	0.07	15.7
40386031		35.2	3.31	198	0.8	0.01	<0.005	0.024	0.001	<0.05	0.3	0.01	0.04	0.08	0.17	41.5
40386032		38.5	3.56	233	1.8	0.02	<0.005	0.029	0.001	<0.05	0.3	0.01	0.04	0.10	0.21	42.6
40386033		39.9	3.67	234	1.2	0.01	<0.005	0.030	0.001	<0.05	0.4	0.01	0.04	0.10	0.14	46.0
40386034		39.3	3.71	231	0.7	0.01	<0.005	0.028	0.001	<0.05	0.2	0.02	0.04	0.11	0.18	45.5
40386035		32.2	2.99	189	0.7	0.01	<0.005	0.027	0.001	<0.05	0.5	0.01	0.03	0.09	0.19	46.5
40386036		28.7	2.60	152	2.2	0.01	<0.005	0.021	0.001	<0.05	0.4	<0.01	0.03	0.10	0.19	47.0
40386037		30.8	2.93	173	0.8	0.01	<0.005	0.025	0.002	<0.05	<0.2	<0.01	0.04	0.09	0.16	43.8
40386038		32.8	2.96	189	0.7	0.01	<0.005	0.028	0.001	<0.05	0.4	0.01	0.03	0.06	0.17	40.4
40386039		32.4	3.08	195	1.7	0.01	<0.005	0.025	0.001	<0.05	0.2	<0.01	0.03	0.10	0.19	39.9

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*



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 Plus Appendix Pages  
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Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386000		17.0	19.7	0.99	10.9	12.4	12.6	83	<0.001	<0.0005	0.001
40386001		207	21.4	0.71	158.0	3.6	27.2	98	0.002	0.0089	0.010
40386002		372	28.3	1.67	210	5.0	27.3	113	0.008	0.0067	0.017
40386003		191.0	36.3	2.60	130.0	6.7	26.8	138	0.003	0.0036	0.005
40386004		399	52.7	7.51	334	7.3	38.4	159	0.008	0.0113	0.009
40386005		449	43.0	2.76	340	5.9	27.7	126	0.008	0.0102	0.015
40386006		1185	31.7	0.65	696	3.1	9.0	61	0.020	0.0474	0.066
40386007		888	36.2	0.95	644	8.0	13.0	75	0.005	0.0293	0.064
40386008		396	29.5	0.69	360	8.5	13.1	73	0.003	0.0165	0.022
40386009		1125	29.0	1.10	741	7.4	12.1	65	0.037	0.0700	0.076
40386010		3840	27.3	5.18	1945	8.2	16.5	111	0.079	0.1320	0.738
40386011		1085	24.1	1.26	726	7.5	11.4	79	0.017	0.0247	0.060
40386012		544	18.0	0.81	434	2.3	10.6	61	0.018	0.0241	0.054
40386013		1505	15.3	0.94	853	4.5	10.8	61	0.023	0.0515	0.090
40386014		1275	15.6	0.82	795	2.7	11.3	71	0.013	0.0486	0.173
40386015		1815	13.8	1.09	1180	2.2	16.2	77	0.044	0.1175	0.472
40386016		1180	13.0	0.67	893	1.2	9.3	65	0.030	0.0667	0.301
40386017		1205	13.4	0.51	827	1.4	9.6	72	0.032	0.1185	0.495
40386018		186.5	8.0	0.64	239	1.0	25.7	86	0.005	0.0122	0.040
40386019		156.5	6.7	0.73	192.5	1.3	15.6	78	0.001	0.0042	0.008
40386020		139.0	6.9	0.70	176.0	1.2	19.9	72	0.001	0.0037	0.007
40386021		91.9	6.4	0.66	307	1.3	12.6	84	0.001	0.0038	0.005
40386022		101.5	7.6	0.69	318	1.0	10.9	81	0.002	0.0035	0.005
40386023		164.5	11.2	0.80	107.5	3.5	26.7	84	0.003	0.0090	0.009
40386024		81.9	17.0	1.04	65.0	6.3	24.6	109	0.003	0.0102	0.009
40386025		389	14.3	1.58	90.3	3.4	38.0	148	0.003	0.0100	0.009
40386026		324	9.3	1.12	80.4	2.6	42.6	118	0.005	0.0100	0.009
40386027		244	9.1	1.04	71.0	2.6	33.6	114	0.005	0.0097	0.008
40386028		239	9.6	1.20	68.2	2.5	34.7	119	0.003	0.0101	0.009
40386029		205	9.6	1.26	63.3	3.1	34.8	114	0.004	0.0102	0.008
40386030		20.9	19.8	1.01	16.7	11.6	15.8	85	<0.001	<0.0005	<0.001
40386031		178.5	10.9	1.38	63.4	3.7	34.0	118	0.003	0.0094	0.008
40386032		204	11.5	1.59	64.8	3.4	32.8	135	0.003	0.0086	0.008
40386033		220	11.6	1.59	62.1	4.8	32.4	129	0.005	0.0090	0.007
40386034		219	10.6	1.55	58.6	4.0	32.7	136	0.003	0.0100	0.008
40386035		219	10.7	1.41	59.4	3.4	38.7	133	0.003	0.0105	0.009
40386036		226	9.5	1.12	57.9	2.6	39.4	127	0.002	0.0087	0.008
40386037		230	9.6	1.22	53.8	3.0	37.6	120	0.002	0.0070	0.006
40386038		222	10.3	1.47	48.8	3.6	36.8	119	0.002	0.0072	0.006
40386039		205	10.5	1.32	50.0	3.1	32.9	119	0.001	0.0081	0.006

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40386040		0.17	45.6	18.45	12.20	9.56	7.71	2.13	1.07	0.363	1.33	0.15	0.15	0.04	0.04	100.65
40386041		6.13	48.6	13.00	14.60	8.93	4.28	3.29	0.86	0.013	3.23	0.20	0.42	0.03	0.04	98.33
40386042		6.11	46.7	11.60	16.50	9.23	5.54	2.78	0.67	0.024	3.60	0.22	0.39	0.02	0.03	98.32
40386043		5.71	48.3	12.75	15.25	10.05	6.20	2.74	0.63	0.035	2.60	0.20	0.29	0.02	0.03	99.85
40386044		5.49	48.0	13.75	13.30	10.05	5.86	2.88	0.66	0.032	2.33	0.18	0.26	0.02	0.03	98.22
40386045		6.10	48.5	13.95	13.35	10.10	6.18	2.91	0.59	0.034	2.27	0.19	0.26	0.02	0.03	99.51
40386046		5.72	47.8	13.55	14.05	10.25	6.15	2.76	0.58	0.044	2.41	0.19	0.27	0.02	0.02	98.97
40386047		6.01	50.9	14.10	12.75	10.65	6.24	2.95	0.67	0.050	2.00	0.18	0.26	0.02	0.02	101.55
40386048		5.87	47.6	14.20	13.85	9.76	6.33	2.79	0.56	0.035	2.24	0.19	0.25	0.02	0.03	98.87
40386049		2.91	48.9	14.85	12.55	11.15	6.75	2.69	0.47	0.061	1.91	0.17	0.20	0.02	0.02	100.32
40386050		2.45	49.1	15.05	13.05	10.85	6.57	2.74	0.50	0.053	2.04	0.18	0.21	0.02	0.02	101.06
40386051		6.05	48.9	14.90	13.05	10.75	7.95	2.59	0.44	0.069	1.60	0.18	0.19	0.02	0.02	101.18
40386052		5.82	48.7	14.75	12.70	11.15	7.85	2.53	0.45	0.078	1.63	0.18	0.17	0.02	0.02	101.14
40386053		5.94	49.2	15.75	11.40	10.95	6.29	2.85	0.55	0.069	1.66	0.16	0.23	0.02	0.02	100.25
40386054		5.93	48.7	15.35	12.80	10.20	6.55	2.81	0.62	0.054	1.77	0.17	0.25	0.02	0.03	100.18
40386055		5.91	48.1	15.40	12.80	10.10	6.66	2.71	0.55	0.046	1.93	0.17	0.24	0.02	0.02	99.72
40386056		5.98	48.0	15.15	13.05	10.45	6.75	2.64	0.48	0.047	2.15	0.18	0.23	0.02	0.02	100.04
40386057		6.13	47.7	15.50	13.25	9.86	6.63	2.73	0.54	0.041	1.98	0.18	0.24	0.02	0.02	99.23
40386058		5.87	47.1	15.05	13.45	9.91	6.75	2.65	0.54	0.043	2.03	0.18	0.23	0.02	0.02	98.75
40386059		6.20	48.1	15.15	14.15	10.10	7.02	2.65	0.55	0.043	2.10	0.19	0.24	0.02	0.02	100.88
40386060		1.30	58.8	18.40	7.45	6.33	2.58	4.03	2.38	0.003	0.97	0.12	0.28	0.06	0.11	101.75
40386061		6.05	48.5	15.05	14.50	9.81	6.98	2.76	0.57	0.042	2.05	0.19	0.26	0.02	0.02	101.39
40386062		5.76	48.1	15.50	13.85	9.84	6.92	2.74	0.57	0.042	2.08	0.18	0.25	0.03	0.02	100.94
40386063		5.99	47.8	15.35	13.80	9.73	6.76	2.73	0.57	0.041	2.06	0.18	0.24	0.02	0.02	100.02
40386064		5.52	47.7	15.55	13.95	9.62	6.65	2.77	0.54	0.041	2.12	0.18	0.24	0.02	0.03	100.46
40386065		6.26	46.3	15.80	13.80	9.23	6.67	2.75	0.56	0.040	2.04	0.18	0.24	0.02	0.02	98.30
40386066		5.78	47.9	15.85	14.65	9.45	7.01	2.88	0.60	0.043	2.12	0.19	0.26	0.02	0.03	101.61
40386067		6.03	46.1	15.10	14.85	8.91	7.37	2.74	0.56	0.040	2.07	0.19	0.26	0.02	0.02	98.96
40386068		7.10	45.5	15.45	15.60	8.55	7.55	2.70	0.55	0.028	2.04	0.20	0.22	0.03	0.02	99.16
40386069		3.95	50.3	19.95	9.58	9.51	2.66	4.24	1.10	0.007	2.18	0.12	0.29	0.04	0.03	101.48
40386070		0.17	44.9	18.80	12.35	9.50	7.62	2.09	1.07	0.356	1.35	0.14	0.15	0.04	0.04	100.30
40386071		6.77	45.5	15.10	16.30	8.30	9.10	2.41	0.45	0.030	1.70	0.20	0.18	0.02	0.04	100.54
40386072		5.78	46.8	16.20	14.25	9.38	7.06	2.61	0.55	0.037	1.89	0.18	0.20	0.02	0.02	99.97
40386073		5.69	47.2	15.70	15.85	8.71	6.77	2.78	0.59	0.022	2.21	0.20	0.29	0.03	0.03	101.26
40386074		6.13	46.8	15.30	15.55	8.19	5.92	2.96	0.66	0.018	2.22	0.19	0.36	0.02	0.03	99.11
40386075		5.92	46.9	15.80	13.70	9.36	5.22	2.87	0.66	0.028	2.41	0.18	0.31	0.02	0.03	98.45
40386076		5.68	47.7	17.05	13.55	9.59	5.50	2.89	0.65	0.032	2.13	0.17	0.22	0.03	0.03	100.60
40386077		6.14	47.2	16.25	15.45	8.97	6.54	2.78	0.62	0.028	2.22	0.19	0.23	0.03	0.03	101.16
40386078		6.33	47.2	16.05	15.95	9.20	6.96	2.70	0.53	0.023	2.21	0.20	0.20	0.03	0.02	101.66
40386079		2.81	47.3	15.55	14.20	9.88	6.73	2.57	0.57	0.040	1.91	0.18	0.18	0.02	0.02	99.90

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386040		1.86	0.01	0.35	334	26.6	2450	2.41	3.22	1.89	1.20	20.0	3.49	2.5	0.67	12.2
40386041		0.84	<0.01	0.07	318	67.2	90	0.48	8.59	4.96	2.63	25.1	8.73	7.1	1.84	30.1
40386042		1.02	<0.01	0.06	260	56.1	160	0.43	7.58	4.42	2.13	22.0	8.00	6.0	1.65	25.1
40386043		0.75	<0.01	0.04	221	42.2	230	0.45	6.06	3.44	1.73	20.7	6.01	4.5	1.26	19.0
40386044		0.87	<0.01	0.03	231	42.2	230	0.46	5.90	3.19	1.80	21.5	6.01	4.5	1.23	18.9
40386045		1.13	0.01	0.04	251	44.4	260	0.49	6.19	3.45	1.86	22.5	6.39	4.8	1.31	19.8
40386046		0.88	<0.01	0.04	245	47.6	350	0.55	6.49	3.81	1.99	23.7	6.56	5.0	1.35	21.9
40386047		0.76	<0.01	0.02	222	40.6	370	0.51	5.63	3.14	1.77	21.5	5.67	4.7	1.23	18.1
40386048		1.01	<0.01	0.03	213	38.6	230	0.48	5.17	2.92	1.55	19.5	5.36	4.1	1.07	17.6
40386049		0.58	<0.01	0.03	173.0	31.8	410	0.43	4.30	2.58	1.37	19.7	4.54	3.5	0.95	14.2
40386050		0.68	<0.01	0.04	176.0	33.9	350	0.50	4.46	2.72	1.45	19.9	4.76	3.5	0.95	15.0
40386051		0.52	<0.01	0.05	172.5	32.6	490	0.53	4.45	2.62	1.40	20.2	4.57	3.4	0.88	14.5
40386052		0.91	<0.01	0.02	177.0	27.5	540	0.43	3.98	2.38	1.26	19.0	4.05	3.0	0.85	12.1
40386053		1.10	<0.01	0.03	187.0	35.2	460	0.38	4.84	2.88	1.56	20.2	4.92	3.8	1.00	15.8
40386054		0.86	<0.01	0.02	224	39.2	370	0.47	5.69	3.29	1.71	22.2	5.70	4.1	1.22	17.5
40386055		0.97	<0.01	0.03	233	45.3	340	0.54	5.50	3.22	1.85	22.3	6.04	4.2	1.18	20.8
40386056		0.87	<0.01	0.02	207	39.4	350	0.48	5.16	2.96	1.74	21.9	5.51	4.2	1.13	18.0
40386057		0.54	<0.01	0.03	194.0	35.7	280	0.48	4.72	2.67	1.50	20.1	4.83	3.8	1.03	16.0
40386058		0.78	<0.01	0.04	200	37.5	300	0.50	5.08	2.87	1.61	20.7	4.96	3.9	1.09	16.9
40386059		0.55	<0.01	0.02	185.0	35.4	280	0.51	4.70	2.85	1.51	19.0	4.88	4.0	1.05	15.7
40386060		0.24	0.02	0.10	991	64.3	20	1.24	6.30	3.54	1.72	23.3	6.69	8.5	1.29	27.9
40386061		0.64	0.04	0.03	211	40.8	290	0.57	5.57	3.01	1.67	21.4	5.47	4.4	1.16	18.7
40386062		0.82	<0.01	0.04	202	36.3	280	0.57	4.52	2.76	1.48	20.6	4.71	3.9	1.02	16.2
40386063		0.72	<0.01	0.06	227	43.3	310	0.63	6.15	3.40	1.80	23.5	6.02	4.4	1.20	19.3
40386064		1.05	<0.01	0.04	228	42.0	290	0.62	5.81	3.16	1.73	22.6	6.16	4.4	1.12	18.6
40386065		0.65	<0.01	0.05	208	39.3	290	0.62	5.67	2.80	1.63	20.6	5.74	4.2	0.95	15.8
40386066		0.61	<0.01	0.04	218	43.8	300	0.66	5.86	3.56	1.87	20.4	6.03	4.6	1.03	17.5
40386067		0.73	<0.01	0.04	208	42.4	280	0.69	5.73	3.06	1.66	19.2	5.64	4.4	1.05	16.8
40386068		0.72	<0.01	0.04	195.0	37.2	210	0.80	5.09	2.81	1.71	20.0	5.15	4.0	0.92	14.7
40386069		1.47	<0.01	0.02	276	51.0	50	0.80	6.67	3.82	1.99	24.5	6.96	5.2	1.23	20.7
40386070		1.89	0.01	0.33	335	27.9	2570	2.55	4.03	2.08	1.34	19.5	3.98	2.8	0.67	11.2
40386071		1.21	<0.01	0.03	346	31.7	210	0.68	4.14	2.33	1.32	17.9	4.13	3.3	0.79	12.6
40386072		0.77	<0.01	0.02	205	36.1	260	0.54	4.74	2.98	1.63	19.2	5.32	3.8	0.91	14.9
40386073		0.88	<0.01	0.03	224	46.8	160	0.60	6.59	3.69	1.90	21.1	6.80	4.9	1.19	18.8
40386074		0.89	<0.01	0.02	253	57.8	140	0.59	7.70	4.27	2.15	21.9	8.06	5.9	1.33	23.4
40386075		0.96	<0.01	0.01	231	48.5	200	0.47	6.57	3.86	1.96	21.2	6.84	4.9	1.22	19.4
40386076		1.06	<0.01	0.04	243	43.1	240	0.55	5.82	3.47	1.83	22.3	5.50	4.4	1.02	17.8
40386077		0.62	<0.01	0.07	224	44.7	200	0.71	5.82	3.39	1.83	21.2	5.88	4.9	1.02	18.2
40386078		0.39	<0.01	0.05	204	34.1	170	0.77	4.79	2.66	1.58	19.5	4.80	3.6	0.86	13.9
40386079		0.75	0.01	0.04	198.0	35.2	310	0.54	5.08	2.89	1.57	19.9	5.12	3.6	0.94	14.3

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - C  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKBZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386040		0.25	7.3	14.9	3.53	33.8	3.41	2	391	0.4	0.56	1.30	0.26	0.36	179	1
40386041		0.67	20.2	38.3	8.90	21.4	9.11	2	232	1.2	1.47	3.10	0.69	0.84	399	<1
40386042		0.58	16.6	32.8	7.43	14.9	7.79	2	183.0	1.0	1.22	2.66	0.59	0.71	487	<1
40386043		0.45	12.4	24.8	5.69	14.3	5.77	2	196.5	0.8	0.99	2.06	0.47	0.58	403	<1
40386044		0.45	12.6	24.1	5.67	16.1	6.11	2	232	0.8	0.98	2.00	0.48	0.56	322	<1
40386045		0.47	13.5	25.5	5.90	15.7	6.03	1	246	0.8	1.06	2.07	0.47	0.63	296	<1
40386046		0.47	13.9	27.3	6.26	15.5	6.43	2	244	0.9	1.09	2.16	0.52	0.63	403	<1
40386047		0.45	11.9	24.0	5.56	14.3	5.41	1	227	0.7	1.01	1.83	0.44	0.51	322	<1
40386048		0.38	11.6	22.4	5.07	12.8	5.00	1	209	0.7	0.91	1.92	0.43	0.49	283	<1
40386049		0.35	9.0	18.0	4.21	10.5	4.21	1	221	0.5	0.72	1.57	0.34	0.44	289	<1
40386050		0.34	9.4	18.7	4.42	11.3	4.50	1	223	0.6	0.74	1.53	0.38	0.47	305	1
40386051		0.35	8.8	18.2	4.28	10.4	4.30	1	234	0.5	0.72	1.45	0.37	0.41	256	<1
40386052		0.29	8.1	16.7	3.73	10.5	3.68	1	224	0.4	0.69	1.32	0.31	0.34	254	<1
40386053		0.37	9.6	19.9	4.57	13.1	4.33	1	234	0.6	0.79	1.68	0.37	0.45	234	<1
40386054		0.39	11.2	22.1	5.24	15.7	5.72	1	227	0.6	0.94	1.82	0.46	0.52	229	1
40386055		0.43	12.0	25.5	5.91	13.8	5.59	1	255	0.7	1.00	2.86	0.45	0.56	247	<1
40386056		0.41	11.2	22.4	5.19	12.0	5.34	1	246	0.6	0.91	2.12	0.43	0.50	270	1
40386057		0.38	10.4	20.5	4.66	12.3	4.78	1	227	0.6	0.83	1.83	0.41	0.45	217	<1
40386058		0.40	11.2	21.0	4.90	13.1	4.97	1	235	0.6	0.83	1.82	0.41	0.53	256	<1
40386059		0.41	10.6	19.6	4.59	12.4	4.60	1	215	0.6	0.80	1.65	0.38	0.42	234	<1
40386060		0.52	14.8	37.2	8.73	94.3	7.96	2	567	0.7	1.13	3.46	0.51	1.68	134	<1
40386061		0.40	12.2	23.4	5.42	13.9	5.61	1	232	0.7	0.93	1.93	0.46	0.54	256	<1
40386062		0.38	10.8	20.3	4.80	13.5	4.94	1	229	0.6	0.83	1.67	0.35	0.45	234	<1
40386063		0.47	12.5	25.2	5.72	15.2	6.02	2	256	0.7	1.01	2.03	0.52	0.54	276	1
40386064		0.47	12.5	23.9	5.58	13.6	5.46	1	248	0.8	0.93	1.90	0.50	0.55	267	<1
40386065		0.39	11.0	22.5	5.06	13.4	5.25	1	227	0.7	0.84	1.79	0.43	0.47	226	<1
40386066		0.46	11.8	25.0	5.79	14.6	5.78	1	226	0.8	0.92	2.08	0.48	0.53	240	1
40386067		0.41	11.0	24.4	5.54	13.3	5.47	1	217	0.7	0.89	1.93	0.43	0.48	225	<1
40386068		0.40	10.5	21.9	4.83	13.4	4.81	1	227	0.7	0.80	1.81	0.38	0.45	214	<1
40386069		0.47	13.2	30.0	6.68	26.4	6.68	1	334	0.9	1.00	2.38	0.50	0.61	213	1
40386070		0.25	7.1	15.9	3.66	33.3	3.45	2	375	0.5	0.59	1.24	0.28	0.31	183	1
40386071		0.34	8.7	18.1	4.10	10.7	3.99	1	208	0.5	0.66	1.53	0.35	0.39	181	<1
40386072		0.36	9.6	21.1	4.73	12.8	4.58	1	224	0.6	0.76	1.70	0.41	0.47	210	<1
40386073		0.48	13.0	27.4	6.19	13.8	6.01	1	224	0.8	1.04	2.17	0.49	0.60	225	1
40386074		0.55	15.0	32.9	7.55	15.7	7.28	2	217	1.0	1.20	2.75	0.62	0.66	224	1
40386075		0.50	13.1	27.9	6.43	14.5	6.32	1	217	0.8	0.98	2.30	0.52	0.60	231	1
40386076		0.44	11.0	25.1	5.59	15.5	5.82	1	252	0.7	0.92	2.00	0.44	0.51	262	1
40386077		0.43	11.1	24.9	5.63	14.8	5.69	1	231	0.7	0.92	2.26	0.45	0.62	251	1
40386078		0.40	10.0	20.0	4.39	12.4	4.52	1	231	0.6	0.78	1.55	0.36	0.45	244	<1
40386079		0.38	9.9	21.1	4.74	12.5	4.75	1	223	0.6	0.76	1.76	0.38	0.48	251	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40386040		18.6	1.74	106	4.8	0.13	0.007	0.029	0.003	0.33	0.9	0.05	0.46	0.50	0.27	62.6
40386041		50.1	4.65	287	0.9	0.01	<0.005	0.031	0.001	<0.05	0.2	<0.01	0.03	0.08	0.19	34.0
40386042		43.2	3.98	242	1.4	0.02	0.005	0.033	0.002	<0.05	0.5	0.01	0.03	0.12	0.23	46.1
40386043		33.6	3.23	187	2.3	0.04	<0.005	0.025	0.002	<0.05	0.4	0.02	0.04	0.10	0.21	47.7
40386044		33.1	3.08	182	2.1	0.02	0.005	0.022	0.001	<0.05	0.2	0.02	0.03	0.12	0.18	43.5
40386045		34.5	3.26	191	1.5	0.02	<0.005	0.027	0.002	<0.05	<0.2	0.01	0.03	0.09	0.19	43.5
40386046		36.3	3.36	202	2.2	0.02	<0.005	0.021	0.002	<0.05	0.2	0.01	0.03	0.14	0.18	45.5
40386047		32.2	3.03	182	1.8	0.01	<0.005	0.016	0.001	<0.05	<0.2	0.01	0.02	0.12	0.17	42.1
40386048		28.6	2.74	163	2.4	0.02	<0.005	0.023	0.001	<0.05	<0.2	0.01	0.03	0.10	0.16	48.0
40386049		24.8	2.40	138	0.5	0.01	<0.005	0.022	0.001	<0.05	<0.2	<0.01	0.04	0.09	0.13	42.3
40386050		25.6	2.43	141	0.7	0.01	<0.005	0.022	0.001	<0.05	0.3	0.01	0.04	0.10	0.14	44.7
40386051		24.2	2.11	133	0.5	<0.01	<0.005	0.020	<0.001	<0.05	0.2	0.01	0.04	0.10	0.13	50.6
40386052		22.2	2.10	122	2.2	0.02	<0.005	0.018	<0.001	<0.05	0.2	0.01	0.04	0.11	0.14	48.2
40386053		26.4	2.32	153	0.9	0.01	<0.005	0.019	0.001	<0.05	0.5	<0.01	0.03	0.07	0.15	38.0
40386054		28.4	3.02	153	2.2	0.01	<0.005	0.022	0.001	<0.05	0.2	0.01	0.03	0.10	0.15	43.9
40386055		31.3	2.91	169	2.2	0.01	<0.005	0.020	0.001	<0.05	0.4	0.01	0.04	0.10	0.18	47.3
40386056		29.7	2.93	160	1.2	0.01	<0.005	0.021	0.001	<0.05	<0.2	0.01	0.04	0.10	0.14	45.6
40386057		26.8	2.58	153	1.3	0.01	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.03	41.7	0.15	47.9
40386058		28.0	2.55	164	1.5	0.01	<0.005	0.024	0.001	<0.05	0.3	0.01	0.05	0.24	0.13	46.8
40386059		26.6	2.53	153	2.7	0.01	<0.005	0.020	0.001	<0.05	0.3	0.02	0.03	0.12	0.17	50.5
40386060		36.9	3.28	353	0.3	0.01	<0.005	0.039	0.001	<0.05	<0.2	0.02	0.38	0.06	0.07	16.5
40386061		30.4	2.74	174	3.2	0.01	<0.005	0.024	0.001	<0.05	0.2	0.01	0.03	0.10	0.17	51.1
40386062		26.9	2.53	157	1.3	0.01	<0.005	0.020	0.001	<0.05	<0.2	<0.01	0.05	0.09	0.14	49.3
40386063		31.3	2.99	170	0.7	0.01	<0.005	0.021	0.001	<0.05	0.3	0.01	0.06	0.07	0.16	49.9
40386064		30.5	3.15	167	0.7	0.01	<0.005	0.023	0.002	<0.05	0.2	<0.01	0.06	0.10	0.13	48.1
40386065		25.9	2.71	162	0.7	<0.01	<0.005	0.025	0.001	<0.05	0.2	<0.01	0.06	0.11	0.14	52.7
40386066		28.3	2.81	180	1.2	0.01	<0.005	0.024	0.001	<0.05	0.4	<0.01	0.05	0.10	0.13	52.7
40386067		26.7	2.88	166	1.4	0.01	<0.005	0.025	0.004	<0.05	<0.2	0.01	0.06	0.09	0.12	58.3
40386068		24.6	2.44	155	1.4	0.01	<0.005	0.024	0.001	<0.05	0.2	<0.01	0.07	0.06	0.17	59.4
40386069		31.4	3.47	201	0.3	<0.01	<0.005	0.028	<0.001	<0.05	<0.2	<0.01	<0.02	0.06	0.15	21.6
40386070		17.6	1.88	114	4.8	0.17	0.013	0.031	0.002	0.31	0.9	0.08	0.47	0.49	0.30	64.6
40386071		20.3	2.01	129	4.0	0.01	<0.005	0.024	0.001	<0.05	0.3	0.01	0.05	0.10	0.14	67.3
40386072		23.5	2.52	146	3.1	0.01	<0.005	0.020	<0.001	<0.05	0.2	0.02	0.04	0.06	0.14	53.9
40386073		31.0	3.26	195	1.4	0.01	<0.005	0.028	0.002	<0.05	0.3	0.01	0.04	0.10	0.19	56.0
40386074		36.3	3.72	229	1.9	<0.01	<0.005	0.029	0.001	<0.05	0.2	<0.01	0.03	0.08	0.17	50.0
40386075		31.4	3.28	192	1.5	<0.01	<0.005	0.021	<0.001	<0.05	0.2	<0.01	0.03	0.08	0.18	42.3
40386076		27.4	2.72	169	1.1	<0.01	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.05	0.08	0.14	44.6
40386077		26.8	3.04	183	0.3	<0.01	<0.005	0.028	0.001	<0.05	<0.2	<0.01	0.07	0.09	0.18	52.7
40386078		22.8	2.40	140	0.4	<0.01	<0.005	0.026	0.001	<0.05	0.3	0.01	0.06	0.09	0.20	56.2
40386079		23.6	2.50	143	0.7	<0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.05	0.09	0.12	51.8

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
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Page: 3 - E  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKBZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386040		1080	38.0	3.00	679	5.8	17.0	105	0.024	0.0473	0.220
40386041		172.0	10.8	1.93	35.9	5.3	39.0	141	<0.001	<0.0005	0.001
40386042		243	11.9	7.66	54.3	3.3	48.1	159	0.001	0.0033	0.003
40386043		249	9.4	1.36	60.6	2.9	45.5	135	0.003	0.0022	0.002
40386044		212	10.0	1.25	59.7	2.9	42.2	121	0.002	0.0028	0.003
40386045		186.0	10.4	1.55	67.0	2.3	40.7	123	0.001	0.0016	0.003
40386046		210	10.5	1.33	65.4	3.1	42.4	127	0.002	0.0084	0.015
40386047		208	9.1	1.34	61.4	2.7	42.0	113	0.003	0.0141	0.030
40386048		222	10.0	1.32	71.0	2.7	35.7	125	0.002	0.0110	0.018
40386049		222	7.9	0.95	66.8	2.4	38.1	101	0.004	0.0072	0.009
40386050		232	8.3	1.01	69.8	2.5	38.7	109	0.003	0.0071	0.009
40386051		235	8.7	0.91	94.2	2.3	35.7	102	0.005	0.0046	0.008
40386052		207	8.9	0.84	87.4	1.8	37.8	103	0.005	0.0042	0.007
40386053		191.0	9.0	1.02	64.9	2.6	32.6	96	0.004	0.0035	0.004
40386054		201	9.4	1.17	73.2	2.7	29.7	112	0.004	0.0067	0.009
40386055		206	9.9	1.09	80.4	3.0	28.8	115	0.004	0.0097	0.022
40386056		200	9.7	1.04	78.7	2.6	32.9	111	0.003	0.0106	0.016
40386057		197.0	9.8	1.10	82.4	2.9	29.0	119	0.004	0.0107	0.016
40386058		195.0	9.7	1.19	83.8	2.7	29.6	120	0.004	0.0114	0.022
40386059		208	10.3	1.09	89.1	2.9	31.1	123	0.007	0.0112	0.017
40386060		18.7	21.1	0.94	12.3	11.7	14.8	94	<0.001	<0.0005	<0.001
40386061		198.0	11.1	1.15	95.8	2.9	29.9	129	0.005	0.0083	0.019
40386062		179.5	10.8	1.08	92.8	2.3	28.8	122	0.007	0.0072	0.014
40386063		184.0	10.7	1.18	90.4	2.6	28.4	123	0.005	0.0074	0.015
40386064		176.0	10.5	1.40	89.4	2.3	26.7	121	0.005	0.0066	0.015
40386065		188.5	11.2	1.11	105.0	2.3	25.9	122	0.005	0.0060	0.018
40386066		187.5	12.9	1.22	114.0	2.0	26.9	125	0.006	0.0059	0.017
40386067		180.0	13.0	1.25	137.5	1.9	26.2	127	0.004	0.0051	0.013
40386068		166.5	11.8	0.99	129.5	2.5	22.3	134	0.003	0.0109	0.021
40386069		82.0	10.9	1.35	24.3	3.0	21.3	99	<0.001	0.0019	0.004
40386070		1120	39.2	2.99	701	6.0	17.9	108	0.026	0.0518	0.221
40386071		187.0	12.9	0.90	172.5	1.8	21.4	135	0.003	0.0257	0.041
40386072		179.5	10.2	1.11	117.0	1.9	24.7	123	0.001	0.0268	0.046
40386073		174.0	10.9	1.30	104.5	2.9	24.5	139	0.002	0.0195	0.028
40386074		171.0	10.7	1.41	82.7	3.4	22.8	138	0.002	0.0243	0.028
40386075		165.5	10.2	1.33	68.0	3.5	29.2	123	0.001	0.0279	0.024
40386076		170.0	10.4	1.37	84.6	2.5	25.6	117	0.001	0.0235	0.019
40386077		184.5	10.8	1.10	104.0	3.5	23.9	129	0.001	0.0041	0.005
40386078		187.0	10.5	0.92	98.0	2.5	26.0	130	0.004	0.0050	0.007
40386079		199.0	11.1	0.88	96.4	1.9	32.8	117	0.003	0.0016	0.001

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40386080		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40386080		2.40	46.7	15.45	14.15	9.70	6.68	2.56	0.55	0.041	1.92	0.18	0.19	0.02	0.02	98.91
40386081		6.04	46.8	15.20	15.35	9.07	6.59	2.66	0.57	0.022	2.20	0.19	0.23	0.03	0.02	99.56
40386082		5.86	47.7	16.60	13.30	9.46	5.81	2.88	0.71	0.032	1.92	0.17	0.22	0.03	0.03	99.85
40386083		5.91	45.8	14.10	16.00	8.39	6.55	2.75	0.58	0.019	2.40	0.20	0.26	0.02	0.03	98.02
40386084		6.01	45.0	13.00	17.70	7.88	8.84	2.34	0.57	0.019	2.17	0.22	0.23	0.03	0.02	98.59
40386085		5.77	46.4	14.80	17.35	8.25	8.68	2.60	0.56	0.025	2.08	0.22	0.21	0.02	0.02	101.79
40386086		6.11	46.2	14.75	16.15	8.20	7.79	2.64	0.64	0.021	2.06	0.20	0.24	0.03	0.03	99.77
40386087		5.69	47.5	15.95	12.75	9.74	5.24	3.13	0.59	0.028	2.51	0.17	0.28	0.03	0.02	98.91
40386088		6.57	47.4	17.65	12.30	10.15	5.69	2.82	0.55	0.037	1.86	0.16	0.22	0.03	0.02	99.88
40386089		6.51	47.1	17.50	11.90	10.30	5.79	2.79	0.53	0.039	1.81	0.15	0.20	0.03	0.02	99.34
40386090		1.53	56.5	18.70	7.85	6.54	2.74	3.81	2.38	0.005	1.07	0.12	0.35	0.07	0.12	100.63
40386091		6.69	46.8	17.40	11.95	10.30	5.92	2.70	0.51	0.042	1.73	0.15	0.20	0.03	0.02	98.78
40386092		6.81	48.3	18.20	11.95	10.65	5.81	2.87	0.49	0.042	1.78	0.15	0.19	0.03	0.02	101.51
40386093		6.71	48.0	19.20	10.10	10.85	4.91	3.09	0.66	0.041	1.53	0.13	0.19	0.03	0.02	99.77
40386094		6.31	47.6	17.55	12.10	10.50	6.05	2.78	0.43	0.040	1.81	0.16	0.20	0.03	0.02	100.37
40386095		7.09	47.7	17.30	12.70	10.40	6.37	2.72	0.45	0.041	1.87	0.17	0.21	0.03	0.02	101.08
40386096		6.80	47.2	17.00	12.85	10.15	6.66	2.70	0.53	0.044	1.83	0.17	0.21	0.03	0.02	100.75
40386097		6.73	48.1	17.40	12.55	10.50	6.38	2.74	0.55	0.045	1.84	0.16	0.21	0.02	0.03	101.84
40386098		6.23	48.2	17.90	12.45	10.40	6.17	2.77	0.53	0.043	1.84	0.16	0.21	0.03	0.02	101.83
40386099		6.67	48.3	17.60	12.05	10.75	6.30	2.73	0.52	0.050	1.73	0.16	0.21	0.03	0.02	101.56
40386100		0.17	45.2	18.20	11.85	9.27	7.53	2.08	1.07	0.358	1.31	0.14	0.17	0.04	0.04	99.18
40386101		6.67	48.7	17.05	12.40	10.20	6.47	2.75	0.47	0.043	1.89	0.16	0.20	0.03	0.02	101.30
40386102		6.62	48.4	16.85	12.70	9.92	6.95	2.70	0.51	0.044	1.78	0.17	0.23	0.03	0.02	101.57
40386103		7.13	48.5	16.90	12.45	10.00	6.89	2.68	0.45	0.047	1.76	0.16	0.20	0.03	0.02	100.95
40386104		6.65	48.6	16.70	11.50	10.30	7.08	2.64	0.49	0.054	1.48	0.15	0.19	0.03	0.02	100.10
40386105		6.45	47.3	15.15	14.60	8.72	9.25	2.44	0.49	0.037	1.59	0.19	0.23	0.02	0.02	100.88
40386106		5.71	47.7	15.45	13.60	9.43	8.86	2.41	0.44	0.047	1.69	0.18	0.20	0.02	0.02	101.11
40386107		6.21	47.8	15.20	13.75	9.41	9.24	2.42	0.42	0.047	1.67	0.18	0.21	0.02	0.02	101.03
40386108		7.12	47.5	15.25	13.75	9.38	9.16	2.43	0.42	0.045	1.64	0.18	0.20	0.02	0.02	100.98
40386109		3.05	47.1	15.10	13.95	9.04	9.35	2.42	0.44	0.042	1.69	0.18	0.21	0.02	0.02	100.17
40386110		3.06	47.3	15.20	13.80	9.21	9.35	2.42	0.43	0.045	1.67	0.18	0.19	0.03	0.02	100.41
40386111		6.54	47.7	14.95	14.05	9.21	9.92	2.37	0.42	0.048	1.61	0.18	0.19	0.02	0.02	101.72
40386112		6.85	47.3	14.95	14.10	8.99	10.05	2.32	0.42	0.044	1.54	0.18	0.19	0.02	0.02	101.17
40386113		6.84	47.7	16.20	13.05	9.40	8.38	2.51	0.44	0.043	1.60	0.17	0.20	0.02	0.02	100.91
40386114		6.37	48.0	16.90	12.35	9.68	7.21	2.62	0.45	0.045	1.63	0.16	0.21	0.03	0.02	100.31
40386115		6.93	48.5	17.55	11.70	10.20	6.46	2.75	0.51	0.046	1.66	0.15	0.20	0.03	0.02	101.35
40386116		6.67	48.0	17.10	12.30	9.96	6.91	2.60	0.48	0.044	1.51	0.16	0.18	0.03	0.02	100.39
40386117		6.61	47.3	16.25	13.75	9.17	8.44	2.50	0.43	0.037	1.56	0.18	0.19	0.03	0.02	100.74
40386118		6.76	47.9	17.15	12.25	9.94	7.15	2.62	0.44	0.042	1.63	0.16	0.21	0.03	0.02	100.39
40386119		6.74	48.5	17.80	11.60	10.05	6.52	2.76	0.44	0.038	1.59	0.15	0.19	0.03	0.02	100.54

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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Page: 4 - B  
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 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIK2Z

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386080		0.75	0.02	0.04	216	39.1	320	0.68	5.66	3.19	1.67	20.8	5.53	4.0	1.05	16.0
40386081		0.63	0.01	0.05	212	40.4	170	0.67	5.70	3.05	1.80	20.3	5.53	4.3	1.04	16.2
40386082		0.99	<0.01	0.03	235	42.2	250	0.61	5.57	2.91	1.77	21.2	5.72	4.1	1.03	16.6
40386083		0.92	<0.01	0.04	240	49.1	140	0.71	6.76	3.77	1.95	20.6	6.78	5.3	1.24	20.2
40386084		0.57	<0.01	0.05	216	46.0	150	0.81	5.93	3.34	1.69	19.2	6.17	4.3	1.09	18.8
40386085		0.57	<0.01	0.05	215	43.6	200	0.80	5.89	3.33	1.73	20.5	6.07	4.6	1.07	17.5
40386086		0.82	0.01	0.04	261	50.1	170	0.93	6.63	3.87	2.08	22.1	6.89	5.2	1.18	19.9
40386087		0.97	0.01	0.03	232	51.7	220	0.68	7.16	4.05	2.01	22.4	7.31	5.8	1.31	21.0
40386088		0.99	<0.01	0.04	210	36.5	270	0.71	5.73	2.93	1.64	21.0	5.57	3.9	0.99	14.8
40386089		1.18	<0.01	0.04	199.5	36.1	280	0.77	4.69	3.07	1.56	19.9	4.95	3.7	0.88	14.7
40386090		0.37	0.05	0.10	1150	76.0	40	1.38	7.57	4.48	2.10	22.6	8.39	10.6	1.36	30.0
40386091		1.03	<0.01	0.04	206	39.1	330	0.71	5.24	3.19	1.75	21.9	5.30	3.9	0.95	15.7
40386092		1.03	<0.01	0.04	189.0	33.5	310	0.76	4.75	2.54	1.69	21.4	4.90	3.5	0.91	13.5
40386093		1.02	<0.01	0.03	200.0	31.1	300	0.94	4.41	2.31	1.56	20.7	4.28	3.4	0.78	12.3
40386094		1.10	<0.01	0.05	186.5	39.5	290	0.72	5.34	3.05	1.75	20.0	5.42	3.7	1.03	16.1
40386095		1.10	0.01	0.05	183.0	37.1	300	0.67	5.19	2.86	1.69	19.9	5.27	3.8	0.98	14.9
40386096		1.36	0.01	0.04	203	35.3	320	0.84	5.16	3.01	1.65	20.6	5.39	3.7	0.92	14.1
40386097		1.31	0.01	0.06	240	36.4	340	1.02	5.28	2.77	1.65	21.0	5.22	4.0	0.91	14.6
40386098		1.11	<0.01	0.02	192.5	34.6	300	0.69	4.89	2.88	1.49	20.4	4.90	3.8	0.87	14.1
40386099		1.11	0.01	0.03	198.0	35.6	360	0.54	5.00	2.93	1.49	20.5	5.30	3.6	0.91	14.4
40386100		1.92	0.04	0.32	356	27.1	2550	2.75	3.28	2.11	1.22	22.3	3.24	2.9	0.67	12.2
40386101		0.92	0.01	0.01	192.0	32.7	300	0.60	4.64	2.67	1.44	23.8	4.06	3.6	0.87	14.8
40386102		1.27	0.01	0.02	193.0	33.0	290	0.81	4.54	2.44	1.34	22.9	4.57	3.3	0.95	14.9
40386103		0.86	0.01	0.02	184.5	32.1	330	0.62	4.37	2.59	1.41	23.8	4.64	3.7	0.91	14.4
40386104		0.87	0.01	0.02	192.5	33.5	370	0.61	4.32	2.46	1.48	22.4	4.41	3.6	0.89	15.2
40386105		0.84	0.01	0.05	195.5	35.9	260	0.84	4.56	2.75	1.40	22.4	4.78	3.9	1.01	15.9
40386106		1.06	0.02	0.04	176.5	30.2	320	0.77	4.11	2.52	1.39	20.9	4.16	3.3	0.87	13.3
40386107		0.64	0.01	0.05	176.0	31.3	330	0.68	4.42	2.51	1.34	21.1	4.54	3.6	0.89	14.1
40386108		0.98	0.01	0.04	190.5	32.0	330	0.78	4.51	2.71	1.41	23.7	4.39	3.4	0.91	14.2
40386109		0.61	0.01	0.05	185.0	31.0	300	0.72	4.35	2.47	1.37	21.9	4.15	3.3	0.89	13.8
40386110		0.56	0.10	0.05	184.5	31.8	330	0.70	4.55	2.49	1.40	22.9	4.60	3.3	0.86	14.1
40386111		1.03	0.10	0.06	180.5	31.2	350	0.79	4.41	2.53	1.35	22.8	4.40	3.4	0.92	13.8
40386112		1.05	0.03	0.05	171.0	29.3	300	0.81	3.98	2.39	1.26	21.8	4.26	3.2	0.87	13.0
40386113		1.18	0.01	0.03	185.0	30.1	310	0.70	4.27	2.29	1.37	24.4	4.25	3.1	0.84	13.3
40386114		1.00	0.01	0.03	197.0	32.0	320	0.69	4.37	2.16	1.36	24.6	4.36	3.3	0.84	14.3
40386115		1.57	0.05	0.04	218	32.3	330	0.60	4.32	2.62	1.45	25.0	4.53	3.5	0.90	14.7
40386116		1.10	0.02	0.04	185.5	31.0	310	0.67	3.84	2.15	1.38	23.6	4.21	3.1	0.79	13.7
40386117		0.88	0.01	0.05	180.5	30.0	270	0.59	4.19	2.24	1.41	22.4	4.04	3.2	0.80	13.4
40386118		0.85	0.01	0.05	183.5	33.4	300	0.56	3.89	2.20	1.48	23.3	4.08	3.4	0.87	14.9
40386119		0.85	0.02	0.05	194.0	31.4	290	0.52	4.07	2.42	1.44	24.7	4.07	3.2	0.85	14.1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - C  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKBZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386080		0.39	10.1	22.6	5.18	13.6	5.16	1	235	0.7	0.82	1.88	0.45	0.50	249	1
40386081		0.40	11.4	23.9	5.40	13.7	5.13	1	224	0.8	0.89	1.94	0.42	0.57	250	1
40386082		0.39	10.6	23.5	5.46	16.9	5.44	1	251	0.7	0.85	2.08	0.39	0.85	235	1
40386083		0.51	13.4	29.2	6.53	15.2	6.43	1	217	0.8	1.06	2.38	0.49	0.74	277	1
40386084		0.46	11.8	25.8	5.93	14.9	5.66	1	198.5	0.8	0.87	2.11	0.50	0.58	265	1
40386085		0.43	11.6	25.3	5.75	14.0	5.72	1	225	0.8	0.89	1.99	0.47	0.55	242	<1
40386086		0.47	13.6	28.0	6.49	16.3	6.60	1	233	0.9	1.05	2.34	0.53	0.59	228	2
40386087		0.56	14.4	29.9	6.85	13.9	6.40	1	236	1.0	1.17	2.43	0.51	0.57	270	1
40386088		0.37	10.1	21.5	5.03	13.2	4.71	1	250	0.6	0.81	1.74	0.40	0.41	221	1
40386089		0.35	9.5	20.7	4.66	12.1	4.41	1	251	0.6	0.81	1.69	0.42	0.36	210	1
40386090		0.56	14.6	43.8	10.15	96.6	8.89	2	613	0.9	1.16	4.57	0.61	1.74	134	1
40386091		0.40	9.8	22.1	5.11	12.4	5.12	1	271	0.6	0.79	1.78	0.42	0.42	223	1
40386092		0.36	9.2	19.8	4.34	11.2	4.13	1	267	0.6	0.73	1.57	0.39	0.38	220	<1
40386093		0.35	8.1	18.3	4.10	15.7	4.14	1	290	0.5	0.73	1.38	0.35	0.30	199	1
40386094		0.37	9.8	23.3	5.31	9.4	5.21	1	251	0.7	0.83	2.52	0.41	0.38	193	1
40386095		0.37	9.8	21.6	4.90	9.9	4.84	1	244	0.6	0.78	1.73	0.40	0.38	220	1
40386096		0.38	9.8	20.7	4.65	13.0	4.58	1	256	0.7	0.81	1.68	0.39	0.36	220	1
40386097		0.39	10.0	21.7	4.80	13.7	4.62	1	261	0.7	0.77	1.77	0.38	0.42	224	1
40386098		0.34	9.3	20.2	4.58	11.3	4.32	1	247	0.6	0.80	1.61	0.40	0.40	209	1
40386099		0.37	9.0	21.1	4.69	12.0	4.82	1	246	0.6	0.79	1.56	0.38	0.36	206	1
40386100		0.27	7.9	15.5	3.58	34.7	3.69	2	398	0.4	0.60	1.33	0.25	0.50	182	1
40386101		0.34	10.5	19.3	4.27	11.3	4.94	1	251	0.5	0.86	1.51	0.33	0.45	234	<1
40386102		0.29	10.0	18.8	4.31	12.1	4.73	2	250	0.5	0.83	1.41	0.31	0.44	220	1
40386103		0.33	10.2	19.2	4.18	10.7	4.72	1	251	0.5	0.77	1.46	0.36	0.41	233	1
40386104		0.33	9.2	18.5	4.35	11.7	4.39	1	247	0.4	0.72	1.45	0.33	0.39	200	<1
40386105		0.35	10.6	20.0	4.63	12.5	4.96	2	233	0.6	0.83	1.67	0.40	0.49	204	<1
40386106		0.31	9.4	17.2	3.92	10.3	4.21	1	222	0.5	0.72	1.35	0.35	0.37	209	1
40386107		0.33	9.7	18.2	4.10	10.0	4.74	1	225	0.5	0.73	1.42	0.34	0.38	200	<1
40386108		0.32	10.0	18.7	4.19	10.0	4.90	1	236	0.5	0.85	1.41	0.35	0.34	218	1
40386109		0.30	9.8	17.8	4.10	10.3	4.47	1	229	0.5	0.70	1.31	0.37	0.33	210	<1
40386110		0.32	10.3	18.5	4.23	10.5	4.51	1	235	0.5	0.81	1.37	0.35	0.36	211	1
40386111		0.32	9.6	18.5	3.89	10.6	4.65	1	229	0.5	0.78	1.47	0.38	0.39	217	1
40386112		0.31	8.6	17.1	3.83	10.1	4.45	1	216	0.4	0.67	1.39	0.30	0.32	194	<1
40386113		0.31	9.3	17.2	3.93	11.0	4.27	1	243	0.5	0.77	1.39	0.34	0.43	214	<1
40386114		0.33	9.8	18.4	4.15	11.6	4.70	1	260	0.5	0.73	1.47	0.34	0.41	204	<1
40386115		0.33	10.1	18.4	4.34	12.8	4.44	1	275	0.5	0.82	1.43	0.35	0.42	207	<1
40386116		0.30	8.8	17.5	3.95	11.9	4.29	1	259	0.5	0.70	1.33	0.27	0.35	183	1
40386117		0.27	8.9	16.9	3.81	10.1	4.28	1	248	0.5	0.68	1.29	0.29	0.38	194	1
40386118		0.28	12.0	19.3	4.31	9.9	4.79	1	251	0.5	0.69	1.57	0.31	0.39	188	1
40386119		0.31	9.9	18.4	4.23	10.6	4.25	1	278	0.5	0.75	1.35	0.32	0.43	200	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 4 - D  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61
		Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	Ag ppm	Cd ppm	Co ppm
40386080		25.7	2.95	156	0.7	<0.01	<0.005	0.020	0.001	<0.05	0.3	0.02	0.05	0.11	0.13	51.1
40386081		26.6	2.60	168	0.3	<0.01	<0.005	0.024	0.001	<0.05	0.3	0.01	0.05	0.09	0.15	53.9
40386082		26.2	2.66	161	0.8	<0.01	<0.005	0.021	0.001	<0.05	0.3	0.01	0.05	0.08	0.12	46.7
40386083		31.7	3.29	200	0.7	<0.01	<0.005	0.023	0.002	<0.05	0.3	0.01	0.05	0.08	0.18	57.3
40386084		28.4	2.95	175	0.3	<0.01	<0.005	0.025	0.002	<0.05	0.3	0.01	0.06	0.08	0.14	70.9
40386085		27.9	2.97	173	0.2	<0.01	<0.005	0.023	0.001	<0.05	0.2	0.01	0.06	0.07	0.18	67.5
40386086		31.5	3.42	200	0.5	<0.01	<0.005	0.025	0.001	<0.05	<0.2	0.01	0.07	0.04	0.15	62.0
40386087		34.7	3.58	217	0.4	<0.01	<0.005	0.020	0.001	<0.05	0.2	0.01	0.03	0.06	0.17	39.3
40386088		24.8	2.55	154	0.5	<0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.04	0.07	0.14	41.6
40386089		23.3	2.54	142	0.3	<0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.06	0.06	0.13	39.7
40386090		37.0	3.80	424	0.5	0.02	<0.005	0.033	<0.001	<0.05	<0.2	0.02	0.35	0.05	0.10	17.4
40386091		25.2	2.75	150	0.6	<0.01	<0.005	0.019	<0.001	<0.05	0.3	0.01	0.04	0.07	0.13	44.9
40386092		22.5	2.32	137	1.0	<0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.04	0.05	0.10	43.0
40386093		20.7	2.26	124	0.8	<0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.02	0.07	0.11	32.9
40386094		24.8	2.70	148	1.0	<0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.04	0.09	0.14	44.0
40386095		24.2	2.46	148	1.2	0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.04	0.10	0.14	46.3
40386096		24.3	2.52	149	1.2	0.01	<0.005	0.020	0.001	0.05	0.2	0.01	0.06	0.08	0.14	48.9
40386097		25.0	2.47	151	1.2	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.06	0.08	0.16	45.0
40386098		23.0	2.35	141	0.9	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.05	0.09	0.17	44.2
40386099		23.8	2.49	140	1.2	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.04	0.07	0.13	43.4
40386100		18.2	1.85	110	5.5	0.16	0.008	0.033	0.002	0.42	1.1	0.06	0.44	0.47	0.26	63.5
40386101		24.4	2.52	135	0.9	0.01	<0.005	0.017	0.001	<0.05	<0.2	0.01	0.04	0.08	0.13	44.3
40386102		23.3	2.40	131	0.8	0.02	<0.005	0.020	<0.001	0.06	0.2	0.01	0.04	0.08	0.11	51.0
40386103		23.6	2.35	136	1.3	0.01	<0.005	0.019	0.001	<0.05	0.3	0.01	0.04	0.06	0.13	47.4
40386104		23.5	2.35	131	2.5	0.01	<0.005	0.018	<0.001	<0.05	0.2	0.01	0.04	0.06	0.13	48.8
40386105		24.5	2.66	146	1.4	0.01	<0.005	0.024	0.001	<0.05	0.3	<0.01	0.07	0.08	0.11	64.3
40386106		22.1	2.23	126	1.2	0.01	<0.005	0.023	0.001	0.05	0.2	0.01	0.06	0.08	0.12	61.1
40386107		23.3	2.37	139	0.4	0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.05	0.06	0.12	62.4
40386108		24.3	2.28	136	0.6	0.01	<0.005	0.022	0.001	<0.05	0.2	0.01	0.05	0.08	0.10	61.6
40386109		23.1	2.29	130	0.8	<0.01	<0.005	0.022	0.001	<0.05	0.2	0.01	0.05	0.08	0.14	65.7
40386110		23.4	2.53	133	0.8	0.01	<0.005	0.022	0.001	<0.05	0.3	0.01	0.05	0.06	0.14	62.6
40386111		23.0	2.31	134	0.7	0.01	<0.005	0.023	0.001	<0.05	0.2	0.01	0.05	0.07	0.11	65.4
40386112		21.5	2.21	119	1.0	0.01	<0.005	0.023	0.001	<0.05	0.2	0.01	0.06	0.06	0.11	63.8
40386113		22.2	2.27	124	1.9	0.01	<0.005	0.023	0.001	<0.05	0.2	0.01	0.06	0.07	0.12	55.8
40386114		23.4	2.37	133	1.3	0.01	<0.005	0.023	0.001	0.06	<0.2	0.01	0.07	0.06	0.12	51.5
40386115		23.0	2.43	127	0.5	0.01	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.05	0.06	0.12	43.9
40386116		21.3	2.20	113	0.9	0.01	<0.005	0.024	0.001	<0.05	0.2	0.01	0.06	0.07	0.10	48.4
40386117		20.8	2.20	120	1.9	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.05	0.05	0.13	59.4
40386118		21.0	2.13	119	1.7	0.01	<0.005	0.020	0.001	<0.05	0.3	<0.01	0.04	0.05	0.12	51.1
40386119		22.7	2.20	123	0.8	0.01	<0.005	0.019	0.001	<0.05	0.3	0.02	0.04	0.05	0.12	46.5

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - E  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKBZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386080		191.0	11.1	0.96	95.6	2.0	30.0	115	0.003	0.0016	0.001
40386081		206	11.2	0.98	84.1	2.3	28.3	126	0.003	0.0026	0.004
40386082		179.5	12.3	1.12	87.1	2.6	27.5	111	0.004	0.0038	0.004
40386083		192.5	14.1	1.17	95.4	2.7	31.6	137	0.004	0.0061	0.008
40386084		184.0	13.3	1.02	144.0	2.4	30.3	141	0.003	0.0122	0.013
40386085		158.0	13.7	1.06	145.5	2.6	24.8	136	0.003	0.0059	0.006
40386086		156.5	14.1	1.08	135.0	2.9	25.7	131	0.003	0.0133	0.018
40386087		161.0	13.8	1.12	70.6	2.9	34.1	112	0.004	0.0045	0.005
40386088		160.0	12.8	0.88	84.5	2.5	25.4	103	0.003	0.0054	0.006
40386089		150.0	12.7	0.87	85.9	2.1	26.1	97	0.003	0.0052	0.006
40386090		19.6	20.8	0.96	14.6	11.1	15.8	93	0.001	<0.0005	0.001
40386091		165.0	13.0	0.95	95.3	2.2	26.4	102	0.005	0.0052	0.006
40386092		160.0	13.4	0.85	90.6	1.9	26.3	97	0.004	0.0046	0.005
40386093		134.5	13.0	0.83	74.2	1.9	22.5	83	0.003	0.0034	0.004
40386094		170.0	13.0	0.81	93.8	2.3	27.0	109	0.004	0.0032	0.004
40386095		176.5	13.3	0.93	103.5	2.3	28.4	119	0.003	0.0033	0.004
40386096		181.5	16.2	0.77	112.0	2.0	27.1	117	0.003	0.0048	0.005
40386097		164.0	13.9	0.90	99.6	2.6	27.6	110	0.003	0.0049	0.005
40386098		176.0	10.9	0.82	98.2	2.6	25.7	115	0.004	0.0052	0.005
40386099		152.0	10.9	0.99	96.0	2.1	28.4	107	0.003	0.0050	0.005
40386100		1120	37.7	3.01	703	6.4	17.7	108	0.026	0.0504	0.233
40386101		168.5	9.1	1.00	110.5	2.1	27.4	105	0.004	0.0044	0.004
40386102		153.5	12.3	1.00	132.0	2.0	27.2	116	0.002	0.0164	0.024
40386103		146.0	9.6	0.98	126.5	2.1	26.0	108	0.002	0.0073	0.007
40386104		138.0	9.8	0.98	135.0	2.0	29.9	103	0.003	0.0038	0.003
40386105		171.0	11.4	0.96	189.0	2.1	24.2	123	0.003	0.0074	0.006
40386106		163.5	12.3	0.86	179.0	2.0	29.4	116	0.003	0.0066	0.005
40386107		170.5	10.5	0.97	188.5	2.5	29.7	111	0.003	0.0049	0.004
40386108		162.5	11.0	0.81	189.0	1.9	27.9	114	0.003	0.0048	0.004
40386109		169.5	10.8	0.89	211	2.1	26.3	118	0.003	0.0054	0.004
40386110		160.5	10.4	0.83	196.0	2.0	26.2	110	0.003	0.0051	0.004
40386111		153.5	12.1	0.85	213	2.0	28.0	115	0.003	0.0056	0.005
40386112		153.5	12.2	0.84	215	1.7	24.8	115	0.003	0.0059	0.005
40386113		169.0	11.3	0.92	167.5	1.7	24.8	114	0.003	0.0059	0.005
40386114		153.5	9.9	1.70	135.0	1.9	25.1	109	0.003	0.0058	0.004
40386115		127.0	11.7	0.84	105.5	1.6	24.0	103	0.002	0.0048	0.004
40386116		150.5	10.4	0.78	123.5	1.5	24.4	107	0.003	0.0034	0.003
40386117		139.0	10.1	0.89	168.5	1.8	24.2	118	0.005	0.0074	0.008
40386118		142.5	9.6	0.85	127.5	1.6	26.5	109	0.003	0.0054	0.005
40386119		134.0	8.8	0.83	113.0	1.4	24.1	105	0.004	0.0057	0.005

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKBZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40386120		2.70	56.8	17.90	7.20	6.11	2.59	3.78	2.35	0.003	0.99	0.11	0.33	0.07	0.10	98.66
40386121		6.76	48.7	18.35	11.05	10.40	5.96	2.82	0.47	0.033	1.64	0.15	0.19	0.03	0.02	100.83
40386122		6.65	47.4	18.50	11.45	10.15	5.90	2.79	0.48	0.023	1.62	0.14	0.20	0.03	0.02	99.71
40386123		6.67	48.0	18.85	11.40	10.45	6.06	2.77	0.48	0.024	1.61	0.15	0.19	0.03	0.02	101.12
40386124		6.65	47.4	18.05	11.15	9.90	6.00	2.74	0.45	0.025	1.64	0.15	0.22	0.03	0.02	99.04
40386125		6.83	47.9	17.45	12.10	9.72	6.43	2.73	0.50	0.028	1.80	0.16	0.23	0.03	0.03	100.56
40386126		6.48	47.8	16.95	12.50	9.64	6.78	2.72	0.49	0.028	1.82	0.16	0.24	0.03	0.02	100.28
40386127		6.76	48.0	16.50	12.80	9.51	7.03	2.73	0.49	0.034	1.85	0.17	0.23	0.03	0.02	100.39
40386128		6.03	46.5	15.40	12.90	9.26	7.80	2.50	0.47	0.036	1.80	0.17	0.22	0.02	0.02	98.39
40386129		6.51	47.9	15.90	13.00	9.43	8.48	2.50	0.47	0.039	1.59	0.17	0.20	0.03	0.02	100.76
40386130		0.17	46.4	18.70	12.15	9.45	7.71	2.12	1.08	0.363	1.34	0.15	0.17	0.05	0.04	101.72
40386131		6.77	47.9	16.55	12.80	9.65	7.63	2.55	0.47	0.039	1.66	0.17	0.21	0.03	0.02	101.20
40386132		6.90	47.8	16.10	13.30	9.46	7.49	2.51	0.44	0.039	1.94	0.18	0.23	0.02	0.02	101.10
40386133		6.40	47.5	16.20	13.55	9.29	7.50	2.59	0.52	0.038	1.83	0.18	0.22	0.03	0.02	100.51
40386134		7.01	47.2	16.15	14.20	9.73	7.26	2.58	0.50	0.036	1.90	0.18	0.21	0.02	0.02	100.89
40386135		6.71	46.5	16.10	14.35	9.63	7.42	2.48	0.49	0.037	1.83	0.18	0.19	0.02	0.02	100.94
40386136		5.70	44.6	16.55	14.25	9.82	6.86	2.61	0.50	0.039	1.90	0.18	0.20	0.03	0.03	98.97
40386137		6.52	45.7	16.10	13.90	9.47	6.86	2.51	0.46	0.036	1.83	0.17	0.21	0.03	0.02	98.52
40386138		6.75	46.0	16.45	13.10	9.67	6.76	2.64	0.48	0.033	1.91	0.16	0.20	0.03	0.02	98.31
40386139		2.87	46.7	15.85	12.35	10.40	7.47	2.52	0.43	0.045	1.87	0.16	0.20	0.03	0.02	98.70
40386140		2.53	45.0	15.95	12.80	10.20	7.53	2.59	0.47	0.042	1.97	0.17	0.21	0.03	0.02	97.69
40386141		6.50	46.5	16.05	12.55	9.90	7.17	2.59	0.47	0.033	1.81	0.16	0.21	0.03	0.02	98.16
40386142		6.66	47.7	16.55	12.65	10.15	7.42	2.60	0.49	0.035	1.86	0.16	0.21	0.03	0.02	100.59
40386143		6.70	46.9	16.20	12.70	10.00	7.78	2.46	0.48	0.038	1.80	0.16	0.21	0.02	0.02	100.06
40386144		6.92	45.0	16.30	14.00	9.77	8.16	2.48	0.49	0.041	1.85	0.18	0.18	0.03	0.02	99.15
40386145		6.85	46.8	16.35	13.80	9.74	7.53	2.51	0.48	0.035	1.91	0.17	0.20	0.03	0.02	100.39
40386146		6.82	47.0	16.35	13.95	9.97	7.65	2.47	0.46	0.035	1.88	0.18	0.18	0.02	0.02	101.15
40386147		6.40	46.6	16.55	13.40	9.79	7.07	2.55	0.47	0.035	1.76	0.17	0.19	0.02	0.02	99.19
40386148		6.94	46.1	16.65	13.80	9.57	7.04	2.51	0.44	0.030	1.70	0.17	0.18	0.02	0.02	98.64
40386149		6.83	45.9	16.65	13.70	10.10	8.55	2.50	0.43	0.044	1.58	0.18	0.17	0.03	0.02	100.20
40386150		3.04	57.9	18.65	7.73	6.55	2.80	3.86	2.36	0.002	1.02	0.11	0.31	0.06	0.10	101.82
40386151		6.55	47.8	16.75	13.40	10.35	7.72	2.48	0.44	0.045	1.59	0.17	0.16	0.03	0.02	101.57
40386152		6.58	47.9	17.00	13.15	10.40	7.80	2.47	0.42	0.043	1.38	0.17	0.16	0.03	0.02	101.29
40386153		6.51	47.1	16.75	13.85	10.15	8.08	2.43	0.41	0.038	1.50	0.17	0.16	0.02	0.02	101.09
40386154		6.63	45.8	16.95	13.45	10.50	8.11	2.49	0.40	0.048	1.42	0.18	0.14	0.03	0.02	99.89
40386155		6.80	46.5	17.20	12.80	10.50	7.45	2.68	0.47	0.039	1.60	0.17	0.18	0.03	0.02	100.22
40386156		6.60	46.4	17.20	13.30	10.40	7.56	2.67	0.46	0.039	1.71	0.18	0.18	0.03	0.02	100.72
40386157		6.90	48.0	17.25	13.30	10.40	7.33	2.56	0.45	0.036	1.58	0.17	0.21	0.02	0.02	101.73
40386158		6.99	45.9	17.40	13.25	10.45	7.24	2.60	0.46	0.041	1.49	0.17	0.16	0.03	0.02	99.90
40386159		6.64	46.5	16.60	13.85	9.89	7.88	2.43	0.40	0.037	1.55	0.17	0.17	0.03	0.02	100.01

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 5 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386120		0.33	0.05	0.11	1095	76.8	20	1.51	6.99	3.93	2.18	28.6	7.62	8.4	1.42	33.4
40386121		1.02	0.01	0.04	190.5	30.2	230	0.48	4.18	2.52	1.42	23.6	4.25	2.9	0.85	13.2
40386122		1.01	0.01	0.03	209	36.4	190	0.66	5.11	2.78	1.51	26.7	4.62	3.9	0.89	16.6
40386123		1.09	0.01	0.03	199.0	33.4	180	0.64	4.44	2.36	1.37	24.7	4.52	3.4	0.91	15.1
40386124		1.26	0.01	0.04	238	33.9	180	0.56	4.70	2.80	1.48	23.9	4.50	3.8	0.90	15.0
40386125		1.45	0.02	0.03	238	34.9	210	0.69	4.70	2.71	1.49	25.0	4.90	4.0	0.92	15.5
40386126		1.10	0.01	0.03	215	38.2	210	0.63	5.15	2.87	1.62	25.0	4.97	3.9	1.03	16.9
40386127		1.00	0.01	0.05	225	42.2	270	0.62	5.66	3.44	1.64	27.1	5.85	4.6	1.13	18.7
40386128		1.29	0.01	0.04	196.5	36.2	260	0.73	4.81	2.68	1.44	23.0	4.85	3.8	1.03	16.1
40386129		1.03	0.04	0.04	188.0	32.8	270	0.62	4.73	2.36	1.37	22.3	4.56	3.3	0.94	14.8
40386130		2.00	0.06	0.34	358	27.1	2520	2.71	3.40	1.84	1.12	22.2	3.29	2.8	0.71	12.0
40386131		1.52	0.02	0.02	191.0	33.3	280	0.55	4.76	2.67	1.50	23.2	4.85	3.7	0.92	15.1
40386132		1.57	0.01	0.03	190.5	37.9	280	0.66	4.81	2.97	1.53	23.5	4.93	3.9	1.03	17.2
40386133		1.04	<0.01	0.06	196.5	34.0	270	0.68	4.31	2.57	1.46	22.3	4.59	3.5	0.93	15.6
40386134		0.90	0.01	0.05	188.5	34.5	260	0.51	4.77	2.63	1.47	21.0	5.07	3.4	1.00	16.1
40386135		1.69	0.02	0.03	170.5	29.1	270	0.53	3.96	2.36	1.32	19.4	4.11	3.1	0.90	13.7
40386136		1.40	0.01	0.04	264	31.1	260	0.49	4.42	2.34	1.35	19.7	4.42	3.1	0.89	14.4
40386137		1.22	<0.01	0.04	213	33.2	270	0.52	4.57	2.50	1.41	21.0	4.67	3.3	1.01	15.5
40386138		0.86	<0.01	0.05	188.5	37.8	260	0.41	4.70	2.71	1.58	21.2	5.11	3.6	1.06	17.6
40386139		0.65	0.04	0.06	170.0	32.4	340	0.41	4.82	2.73	1.49	19.8	4.59	3.2	1.02	15.1
40386140		0.71	0.06	0.06	190.0	36.6	310	0.46	5.12	2.95	1.64	21.9	5.27	3.9	1.21	17.2
40386141		0.67	0.01	0.07	198.5	36.2	260	0.42	4.96	3.02	1.59	21.3	5.07	3.9	1.08	16.4
40386142		0.71	<0.01	0.06	200	34.4	260	0.44	4.78	3.03	1.51	22.1	5.00	3.7	1.05	15.7
40386143		1.29	0.01	0.04	193.5	36.9	280	0.55	4.66	2.78	1.46	21.0	4.88	3.6	0.93	17.1
40386144		0.65	0.01	0.05	183.0	29.4	270	0.46	3.89	2.31	1.34	20.2	3.79	3.3	0.85	13.4
40386145		0.81	0.01	0.08	187.0	40.5	250	0.45	4.38	2.59	1.47	20.7	4.70	3.5	0.91	19.4
40386146		0.98	<0.01	0.05	185.0	33.4	250	0.50	4.00	2.48	1.35	20.3	4.19	3.4	0.93	15.8
40386147		0.56	<0.01	0.06	183.5	31.1	250	0.44	4.34	2.45	1.31	20.3	4.48	3.3	0.89	14.4
40386148		0.41	<0.01	0.08	188.5	32.4	220	0.39	4.05	2.35	1.40	20.8	4.36	3.1	0.83	15.0
40386149		0.35	<0.01	0.05	163.5	30.2	280	0.41	3.85	2.24	1.24	19.3	3.84	2.8	0.77	14.5
40386150		0.37	0.04	0.10	835	61.2	20	1.25	6.20	3.63	1.61	21.8	6.71	7.3	1.20	26.4
40386151		0.61	<0.01	0.04	183.0	28.2	330	0.45	4.04	2.53	1.29	21.2	4.24	3.1	0.87	12.6
40386152		0.35	<0.01	0.05	174.0	26.7	330	0.38	3.86	2.28	1.29	20.5	3.85	3.0	0.84	11.9
40386153		0.41	<0.01	0.06	167.5	32.7	280	0.40	3.82	2.20	1.28	20.1	3.66	2.7	0.76	16.3
40386154		0.35	<0.01	0.06	160.0	24.2	340	0.36	3.56	2.00	1.21	20.0	3.70	2.6	0.78	10.8
40386155		0.58	0.02	0.06	192.5	30.5	270	0.36	4.55	2.66	1.39	21.5	4.52	3.3	0.90	13.8
40386156		0.57	<0.01	0.06	210	39.1	280	0.44	4.73	2.91	1.66	22.4	4.83	4.0	1.01	18.0
40386157		0.40	<0.01	0.07	196.5	33.1	270	0.39	4.83	2.69	1.45	21.1	4.45	3.5	0.88	14.8
40386158		0.69	<0.01	0.06	175.5	27.0	280	0.40	4.06	2.35	1.26	20.4	3.98	3.0	0.80	12.4
40386159		0.48	<0.01	0.06	172.5	26.0	280	0.36	4.00	2.36	1.26	21.0	3.85	3.0	0.81	11.9

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - C  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386120		0.53	16.7	43.6	10.20	106.0	9.96	3	668	0.8	1.26	4.55	0.57	1.74	146	1
40386121		0.30	9.6	17.4	3.99	10.5	4.49	1	265	0.5	0.71	1.29	0.35	0.36	194	<1
40386122		0.36	11.1	21.6	4.73	11.9	5.39	1	294	0.6	0.86	1.64	0.39	0.43	216	1
40386123		0.33	10.6	19.6	4.43	11.3	4.89	1	276	0.5	0.78	1.36	0.36	0.38	199	1
40386124		0.35	10.5	19.2	4.33	10.8	4.64	1	268	0.6	0.79	1.44	0.38	0.40	196	2
40386125		0.37	10.8	20.1	4.68	12.2	5.19	1	261	0.6	0.84	1.69	0.36	0.43	210	<1
40386126		0.40	11.8	22.0	4.97	12.2	5.86	1	261	0.6	0.84	1.67	0.37	0.41	222	<1
40386127		0.45	12.8	24.8	5.54	13.2	6.09	1	270	0.7	0.99	1.83	0.46	0.49	256	<1
40386128		0.35	10.8	20.6	4.81	12.3	4.96	2	233	0.6	0.82	1.61	0.40	0.39	236	1
40386129		0.34	10.1	18.7	4.49	11.3	4.41	1	229	0.5	0.75	1.47	0.34	0.41	177	1
40386130		0.23	7.7	15.0	3.54	33.5	3.82	2	394	0.4	0.61	1.21	0.28	0.34	183	1
40386131		0.34	10.2	19.6	4.39	11.0	4.78	2	239	0.5	0.81	1.64	0.38	0.41	199	<1
40386132		0.40	11.8	22.6	5.00	11.0	5.58	3	227	0.6	0.89	1.79	0.40	0.47	226	1
40386133		0.35	10.1	19.3	4.49	12.5	4.97	1	242	0.6	0.75	1.66	0.39	0.42	224	<1
40386134		0.34	10.3	18.7	4.62	12.2	4.64	1	237	0.6	0.88	1.56	0.36	0.43	254	<1
40386135		0.32	8.7	16.4	3.93	11.2	4.13	1	229	0.5	0.71	1.39	0.33	0.38	244	1
40386136		0.33	9.3	16.6	4.07	10.8	4.16	1	229	0.6	0.76	1.38	0.33	0.42	231	<1
40386137		0.35	9.6	18.8	4.34	10.6	4.77	1	241	0.6	0.82	1.58	0.37	0.43	256	<1
40386138		0.37	13.0	20.5	4.92	10.6	5.08	1	242	0.7	0.90	1.64	0.39	0.44	258	<1
40386139		0.36	10.6	18.2	4.10	9.4	4.58	1	235	0.6	0.81	1.43	0.37	0.34	232	1
40386140		0.40	11.6	21.0	4.80	10.3	5.22	1	254	0.7	0.91	1.56	0.37	0.41	249	<1
40386141		0.44	10.9	21.8	5.05	11.1	5.49	1	239	0.6	0.82	1.79	0.43	0.62	235	1
40386142		0.40	10.7	21.6	4.84	11.4	5.19	1	245	0.6	0.72	1.60	0.41	0.49	229	<1
40386143		0.38	10.1	22.0	5.13	11.7	5.55	1	227	0.6	0.65	1.50	0.41	0.42	201	1
40386144		0.32	9.7	17.4	4.09	10.0	4.39	1	225	0.5	0.58	1.22	0.32	0.36	195	1
40386145		0.37	10.8	21.9	5.37	10.9	5.48	1	231	0.6	0.70	1.50	0.37	0.41	207	1
40386146		0.35	9.9	19.3	4.58	10.4	4.35	1	230	0.5	0.64	1.53	0.35	0.39	214	<1
40386147		0.35	9.7	19.3	4.37	10.7	4.98	1	230	0.6	0.67	1.50	0.38	0.43	194	<1
40386148		0.33	9.2	18.8	4.43	9.9	4.53	1	244	0.5	0.65	1.51	0.35	0.41	234	<1
40386149		0.34	8.2	17.5	4.12	9.0	4.21	1	231	0.5	0.58	1.26	0.34	0.36	182	<1
40386150		0.50	13.2	37.2	8.62	88.5	8.91	2	520	0.6	0.96	4.26	0.52	1.59	121	<1
40386151		0.36	9.3	17.9	3.97	10.2	4.41	1	250	0.5	0.67	1.36	0.36	0.40	183	1
40386152		0.32	8.1	16.7	3.77	9.4	4.39	1	252	0.4	0.58	1.28	0.32	0.36	173	1
40386153		0.32	8.3	18.3	4.37	8.9	4.02	1	241	0.5	0.58	1.16	0.33	0.32	201	<1
40386154		0.32	7.8	14.7	3.44	8.8	3.84	1	243	0.5	0.54	1.17	0.31	0.31	195	<1
40386155		0.40	9.3	19.3	4.45	9.6	4.78	1	256	0.5	0.74	1.52	0.38	0.39	202	<1
40386156		0.41	10.8	23.2	5.35	10.8	5.70	3	261	0.5	0.78	1.67	0.46	0.43	224	<1
40386157		0.37	9.5	19.9	4.58	10.0	5.21	1	255	0.6	0.73	1.57	0.40	0.41	207	<1
40386158		0.32	8.3	16.8	3.82	9.6	4.18	1	242	0.5	0.61	1.33	0.30	0.34	199	<1
40386159		0.32	8.4	16.5	3.74	8.8	4.02	1	248	0.5	0.62	1.27	0.33	0.36	206	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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





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Page: 5 - D  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-AUG-2018  
 Account: RTECIKBZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	Ag ppm	Cd ppm	Co ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386120		39.3	3.74	338	0.3	0.01	<0.005	0.037	0.001	<0.05	0.2	0.02	0.36	0.03	0.08	19.6
40386121		22.1	2.24	120	1.2	<0.01	<0.005	0.019	0.001	<0.05	0.5	0.01	0.04	0.05	0.10	43.2
40386122		25.6	2.45	150	0.8	0.01	<0.005	0.021	0.001	<0.05	0.3	<0.01	0.04	0.05	0.11	43.8
40386123		23.7	2.41	138	0.9	<0.01	<0.005	0.021	0.001	<0.05	0.2	<0.01	0.04	0.04	0.11	41.7
40386124		24.4	2.46	138	1.3	0.01	<0.005	0.019	0.001	0.06	<0.2	<0.01	0.05	0.04	0.10	42.7
40386125		25.6	2.40	152	0.7	0.01	<0.005	0.026	0.001	<0.05	0.4	<0.01	0.06	0.05	0.10	44.8
40386126		26.9	2.77	152	1.2	0.01	<0.005	0.022	0.001	<0.05	0.3	0.01	0.05	0.05	0.12	48.6
40386127		30.1	2.97	177	0.5	0.01	<0.005	0.024	0.001	<0.05	0.5	0.01	0.04	0.06	0.12	50.3
40386128		25.8	2.78	148	1.1	0.01	<0.005	0.027	0.001	0.05	0.2	0.01	0.05	0.05	0.12	55.6
40386129		23.5	2.35	135	1.4	0.01	<0.005	0.024	0.001	<0.05	0.4	<0.01	0.06	0.05	0.12	55.3
40386130		18.0	1.80	108	4.5	0.17	0.014	0.034	0.003	0.35	0.9	0.06	0.47	0.41	0.28	62.0
40386131		24.7	2.56	144	0.8	0.01	<0.005	0.040	0.001	0.07	0.2	0.01	0.04	0.06	0.10	54.7
40386132		26.8	2.52	158	0.8	0.01	<0.005	0.043	0.001	0.06	0.2	0.01	0.06	0.08	0.10	51.9
40386133		24.0	2.49	137	0.6	0.01	<0.005	0.023	0.001	<0.05	0.2	0.01	0.05	0.06	0.15	52.9
40386134		25.9	2.65	132	0.6	0.01	<0.005	0.023	0.001	<0.05	0.3	<0.01	0.04	0.08	0.14	52.1
40386135		21.9	2.28	121	0.5	0.02	<0.005	0.024	0.001	0.06	0.3	0.01	0.06	0.05	0.12	54.5
40386136		22.6	2.24	124	0.3	0.02	<0.005	0.026	0.001	0.06	0.3	0.01	0.05	0.06	0.13	51.8
40386137		24.2	2.37	130	0.8	0.01	<0.005	0.028	0.002	<0.05	0.2	0.01	0.05	0.09	0.16	53.8
40386138		25.3	2.64	147	0.7	0.01	<0.005	0.028	0.001	<0.05	0.4	<0.01	0.03	0.08	0.13	50.2
40386139		24.9	2.50	128	0.3	0.01	<0.005	0.023	0.001	<0.05	0.3	0.01	0.03	0.06	0.14	51.7
40386140		27.5	2.83	155	0.5	0.01	<0.005	0.023	0.001	<0.05	0.8	0.01	0.04	0.05	0.12	50.0
40386141		26.6	2.71	143	0.4	0.01	<0.005	0.023	0.001	<0.05	0.2	<0.01	0.04	0.05	0.12	47.6
40386142		25.9	2.81	144	0.5	0.01	<0.005	0.023	0.001	<0.05	0.5	0.01	0.05	0.05	0.13	50.3
40386143		24.5	2.55	133	0.8	0.01	<0.005	0.022	0.001	<0.05	0.3	<0.01	0.05	0.05	0.14	50.5
40386144		21.0	1.98	119	2.0	0.01	<0.005	0.022	0.001	<0.05	0.2	0.01	0.06	0.06	0.14	53.2
40386145		23.6	2.52	134	0.6	0.01	<0.005	0.024	0.001	<0.05	0.4	0.01	0.06	0.06	0.15	49.5
40386146		22.2	2.28	126	0.7	0.02	<0.005	0.023	0.001	<0.05	0.4	0.01	0.05	0.07	0.14	51.9
40386147		22.8	2.41	130	0.5	0.01	<0.005	0.024	0.001	<0.05	0.3	0.02	0.05	0.06	0.13	50.0
40386148		22.1	2.18	119	0.3	0.01	<0.005	0.026	0.001	<0.05	0.4	0.01	0.05	0.06	0.14	50.6
40386149		19.9	2.03	109	0.3	0.01	<0.005	0.020	0.001	<0.05	0.5	0.01	0.04	0.04	0.12	53.5
40386150		34.3	3.42	289	0.4	0.01	<0.005	0.037	0.001	<0.05	<0.2	0.02	0.37	0.03	0.08	18.4
40386151		21.9	2.32	120	0.5	0.01	<0.005	0.021	0.001	<0.05	0.3	0.01	0.05	0.06	0.13	49.0
40386152		20.4	2.10	107	0.4	0.01	<0.005	0.020	0.001	<0.05	0.2	0.01	0.05	0.06	0.14	53.9
40386153		20.0	2.11	104	0.2	0.01	<0.005	0.020	0.001	<0.05	0.2	0.01	0.05	0.12	0.12	58.7
40386154		19.2	1.85	98	0.4	0.01	<0.005	0.020	0.001	<0.05	0.2	0.01	0.05	0.08	0.12	58.1
40386155		23.3	2.29	130	0.7	0.01	<0.005	0.020	0.001	<0.05	<0.2	<0.01	0.04	0.07	0.12	52.0
40386156		26.5	2.73	152	0.4	0.01	<0.005	0.021	0.001	<0.05	0.3	0.01	0.04	0.06	0.12	54.0
40386157		24.2	2.46	131	0.4	0.01	<0.005	0.021	0.001	<0.05	0.4	0.01	0.05	0.07	0.12	53.3
40386158		20.9	2.29	114	0.7	0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.05	0.08	0.12	56.0
40386159		20.6	2.16	112	0.8	0.01	<0.005	0.018	0.001	<0.05	0.3	<0.01	0.04	0.07	0.14	60.2

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386120		20.1	20.5	0.85	13.8	11.3	18.4	94	0.001	0.0006	0.001
40386121		137.0	7.9	0.81	94.0	1.3	25.9	96	0.009	0.0044	0.004
40386122		132.0	8.8	0.81	98.0	1.5	24.7	100	0.003	0.0132	0.021
40386123		115.0	8.8	0.77	103.5	1.5	23.4	99	0.003	0.0117	0.014
40386124		113.0	9.2	0.80	120.0	1.5	22.9	101	0.002	0.0034	0.003
40386125		130.5	9.4	0.84	113.0	1.5	23.2	109	0.002	0.0057	0.005
40386126		142.0	8.9	0.85	114.5	1.6	23.9	113	0.004	0.0174	0.011
40386127		158.5	8.3	0.95	113.0	1.8	26.0	115	0.009	0.0093	0.010
40386128		169.0	10.5	0.83	139.0	1.4	27.3	121	0.004	0.0132	0.014
40386129		155.5	9.1	0.99	155.5	1.4	26.0	117	0.007	0.0115	0.007
40386130		1135	31.1	2.79	699	5.8	19.0	109	0.025	0.0541	0.239
40386131		177.5	10.9	1.06	127.5	1.5	25.8	144	0.007	0.0164	0.017
40386132		188.0	10.5	0.84	115.5	1.3	24.6	151	0.006	0.0137	0.012
40386133		168.0	7.8	0.97	120.5	1.9	24.6	119	0.007	0.0213	0.019
40386134		161.0	9.4	1.37	131.0	4.6	27.9	113	0.003	0.0442	0.045
40386135		157.0	11.0	0.87	137.0	1.9	26.2	112	0.002	0.0716	0.094
40386136		168.0	11.6	0.84	125.0	1.9	25.4	116	0.002	0.0679	0.101
40386137		190.5	10.7	0.85	126.5	2.6	26.2	123	0.007	0.0237	0.024
40386138		190.5	6.8	0.84	113.5	1.8	24.2	113	0.006	0.0062	0.006
40386139		160.5	6.7	0.76	138.0	2.0	31.0	106	0.004	0.0022	0.001
40386140		166.0	7.3	0.77	135.0	2.1	29.5	110	0.005	0.0022	0.001
40386141		171.0	6.6	0.94	129.0	2.2	27.2	106	0.004	0.0080	0.007
40386142		155.0	7.1	0.99	132.0	2.2	28.9	104	0.002	0.0163	0.023
40386143		144.5	9.7	0.91	152.0	1.6	28.2	117	0.002	0.0063	0.004
40386144		155.0	8.3	0.97	176.5	2.0	26.1	125	0.003	0.0020	0.002
40386145		176.0	6.6	0.88	153.5	2.1	24.3	117	0.003	0.0014	0.002
40386146		163.5	7.1	0.76	161.5	2.6	25.9	118	0.002	0.0020	0.003
40386147		160.5	6.9	0.87	163.5	1.9	25.0	117	0.002	0.0016	0.002
40386148		180.0	6.3	0.81	172.0	2.4	22.8	116	0.003	0.0016	0.002
40386149		161.0	6.4	0.71	194.0	1.6	24.7	110	0.002	0.0021	0.002
40386150		18.7	15.6	0.71	15.3	10.6	17.6	93	0.001	<0.0005	0.001
40386151		166.5	6.2	0.68	146.5	1.9	24.5	109	0.004	0.0045	0.006
40386152		184.5	6.3	0.72	165.5	1.6	26.8	107	0.004	0.0079	0.010
40386153		193.0	9.3	0.69	174.5	2.3	28.4	112	0.005	0.0054	0.007
40386154		190.0	9.1	0.65	192.5	2.1	29.9	109	0.003	0.0036	0.006
40386155		171.0	8.6	0.90	164.5	2.1	30.1	108	0.003	0.0065	0.008
40386156		175.5	8.8	0.77	168.0	2.1	29.9	110	0.003	0.0027	0.004
40386157		194.0	8.5	0.80	156.5	1.9	28.3	110	0.003	0.0058	0.006
40386158		213	9.4	0.72	148.5	2.5	28.8	112	0.003	0.0064	0.007
40386159		212	10.8	0.72	201	2.5	28.9	124	0.003	0.0055	0.007

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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





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 Plus Appendix Pages  
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 Account: RTECIKBZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	TOT-ICP06 Total %
40386160		0.17	44.2	18.35	12.00	9.39	7.39	2.04	1.05	0.338	1.30	0.14	0.16	0.05	0.04	98.38
40386161		6.64	46.7	16.10	13.30	9.94	8.81	2.37	0.38	0.042	1.43	0.17	0.15	0.02	0.02	99.89
40386162		6.33	47.4	16.70	12.55	10.15	8.71	2.49	0.41	0.041	1.57	0.16	0.18	0.03	0.02	100.89
40386163		6.16	47.4	16.95	12.45	10.05	8.30	2.55	0.40	0.037	1.61	0.16	0.19	0.03	0.02	100.81
40386164		7.12	47.2	16.90	12.20	10.10	8.32	2.53	0.41	0.039	1.60	0.16	0.19	0.03	0.02	100.53
40386165		6.16	46.9	16.65	12.65	10.05	8.63	2.48	0.37	0.041	1.69	0.16	0.17	0.02	0.02	100.41
40386166		6.79	46.8	17.05	11.95	10.00	8.06	2.51	0.44	0.037	1.68	0.15	0.21	0.03	0.02	99.62
40389952		1.32	50.5	14.10	9.99	6.90	10.40	1.98	0.57	0.079	0.53	0.15	0.05	0.02	0.02	98.90

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	OA-GRA05 LOI %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386160		1.93	0.03	0.32	352	26.0	2450	2.52	3.42	1.88	1.21	20.4	3.45	2.8	0.70	11.9
40386161		0.46	<0.01	0.05	168.0	26.6	320	0.36	3.95	2.39	1.29	20.8	3.89	3.0	0.79	12.1
40386162		0.48	<0.01	0.05	197.0	34.4	310	0.34	4.66	2.61	1.59	21.2	4.89	3.2	0.91	15.8
40386163		0.66	<0.01	0.03	183.5	29.4	270	0.76	4.22	2.75	1.32	20.6	4.40	3.6	0.91	13.4
40386164		0.83	0.01	0.04	205	32.0	320	0.44	4.81	2.81	1.54	23.0	4.89	3.7	0.95	14.3
40386165		0.58	<0.01	0.05	185.0	29.9	320	0.32	4.62	2.59	1.41	22.0	4.47	3.3	0.90	13.2
40386166		0.68	0.01	0.05	197.5	31.3	290	0.33	4.52	2.72	1.55	21.9	4.80	3.5	0.91	14.3
40389952		3.61	0.15	0.01	177.5	16.5	580	0.18	1.85	1.01	0.57	15.7	2.04	1.7	0.38	8.1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386160		0.29	7.8	15.5	3.68	33.3	4.13	2	386	0.4	0.56	1.21	0.27	0.33	178	1
40386161		0.32	7.9	16.7	3.75	8.8	4.45	1	242	0.5	0.58	1.27	0.33	0.34	189	<1
40386162		0.34	9.7	20.4	4.84	9.3	5.01	1	256	0.5	0.74	2.27	0.37	0.35	203	<1
40386163		0.36	9.4	18.1	4.19	8.7	4.47	1	244	0.5	0.69	1.56	0.38	0.32	203	1
40386164		0.36	10.5	20.0	4.56	9.8	5.24	1	269	0.6	0.73	1.61	0.38	0.38	213	<1
40386165		0.39	10.0	18.6	4.31	8.5	4.60	1	252	0.6	0.71	1.40	0.37	0.33	221	<1
40386166		0.38	10.4	20.2	4.58	10.2	4.93	1	255	0.6	0.73	1.48	0.38	0.34	206	<1
40389952		0.16	2.6	8.6	2.18	13.8	2.22	1	180.5	0.2	0.29	2.42	0.18	0.56	153	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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 Account: RTECIKBZ

Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y ppm 0.1	Yb ppm 0.03	Zr ppm 2	As ppm 0.1	Bi ppm 0.01	Hg ppm 0.005	In ppm 0.005	Re ppm 0.001	Sb ppm 0.05	Se ppm 0.2	Te ppm 0.01	Tl ppm 0.02	Ag ppm 0.01	Cd ppm 0.02	Co ppm 0.1
40386160		17.9	1.78	107	5.1	0.14	0.008	0.033	0.003	0.38	0.9	0.06	0.48	0.47	0.23	65.4
40386161		20.5	2.17	106	0.4	0.01	<0.005	0.020	0.001	<0.05	0.2	<0.01	0.05	0.05	0.11	57.3
40386162		23.7	2.59	121	0.1	0.01	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.04	0.06	0.10	57.0
40386163		23.1	2.40	128	1.0	0.02	<0.005	0.019	0.001	<0.05	<0.2	0.01	0.04	0.06	0.10	56.0
40386164		24.9	2.67	142	1.3	0.01	<0.005	0.019	0.001	<0.05	<0.2	<0.01	0.04	0.07	0.11	57.5
40386165		23.9	2.46	132	1.0	0.01	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.04	0.06	0.10	59.6
40386166		24.4	2.44	132	0.3	0.01	<0.005	0.020	0.001	<0.05	0.2	<0.01	0.04	0.05	0.10	56.2
40389952		10.3	1.11	64	0.7	0.02	<0.005	0.005	<0.001	0.06	<0.2	0.01	0.02	0.02	0.08	48.8

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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Project: EB80004239

**CERTIFICATE OF ANALYSIS TB18172553**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Zn ppm	Au ppm	Pt ppm	Pd ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386160		1100	36.5	2.64	701	6.2	19.1	110	0.025	0.0388	0.204
40386161		155.5	9.2	0.62	215	2.0	27.9	108	0.003	0.0064	0.007
40386162		156.0	9.4	0.65	210	2.4	27.7	101	0.003	0.0060	0.007
40386163		156.5	12.3	0.68	200	2.4	27.7	110	0.003	0.0058	0.007
40386164		163.5	11.9	0.66	213	2.4	28.1	107	0.003	0.0054	0.006
40386165		168.5	11.9	0.68	229	2.7	28.4	108	0.003	0.0050	0.006
40386166		143.0	10.9	0.86	212	2.3	27.0	104	0.003	0.0056	0.006
40389952		11.5	19.1	0.65	264	3.0	27.7	100	0.001	<0.0005	<0.001

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386005 to 40386015\*\*

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



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Project: EB80004239

<b>CERTIFICATE OF ANALYSIS TB18172553</b>
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	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">CRU-31</td> <td style="width: 25%;">CRU-QC</td> <td style="width: 25%;">LOG-21</td> <td style="width: 25%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	WEI-21				
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	WEI-21										
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">C-IR07</td> <td style="width: 25%;">ME-ICP06</td> <td style="width: 25%;">ME-MS42</td> <td style="width: 25%;">ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06			
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-MS24	S-IR08										
TOT-ICP06													





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**CERTIFICATE TB18204960**

Project: EB80000960  
 P.O. No.: 3103290934  
 This report is for 180 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-AUG-2018.

The following have access to data associated with this certificate:

RACHELLE BOULANGER  
 RTXAMRNA ASSAY RESULTS

SUE DRIEBERG  
 ROBERT RUSH

BRIAN GOLDNER

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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 \*\*\*\*\*

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386650		2.50	58.4	17.80	6.65	5.73	2.33	3.78	2.53	0.004	0.84	0.10	0.28	0.07	0.12	98.99
40386651		6.19	46.0	18.50	10.55	10.20	8.69	2.34	0.33	0.033	1.03	0.14	0.12	0.03	0.02	98.74
40386652		6.34	45.3	18.15	11.30	9.88	8.87	2.27	0.29	0.032	1.09	0.14	0.08	0.03	0.01	98.07
40386653		6.18	45.9	18.25	10.55	9.98	8.94	2.29	0.30	0.033	1.05	0.14	0.12	0.03	0.01	98.16
40386654		6.29	45.9	18.40	10.80	9.86	9.05	2.34	0.31	0.035	0.99	0.13	0.12	0.03	0.01	98.66
40386655		6.37	45.9	18.85	11.15	10.00	8.81	2.30	0.29	0.040	0.86	0.14	0.09	0.03	0.01	99.41
40386656		6.30	45.5	18.30	11.05	9.52	10.50	2.15	0.25	0.044	0.72	0.13	0.07	0.03	0.01	99.11
40386657		4.60	44.9	18.15	11.35	9.48	11.35	2.06	0.21	0.037	0.69	0.14	0.08	0.03	0.01	99.36
40386658		4.69	44.9	18.55	10.75	9.66	11.10	1.99	0.21	0.070	0.64	0.13	0.09	0.03	0.01	98.89
40386659		0.68	40.2	21.1	12.95	10.00	8.15	1.84	0.18	3.70	1.24	0.12	0.05	0.03	0.01	100.37
40386660		0.17	43.2	17.95	14.20	9.64	7.50	2.07	0.62	0.316	1.27	0.15	0.14	0.04	0.02	98.53
40386661		2.62	44.7	19.70	10.70	10.70	9.47	1.96	0.21	0.341	0.79	0.12	0.07	0.03	0.01	99.91
40386662		3.17	45.2	20.1	10.05	10.70	9.56	1.97	0.22	0.149	0.71	0.12	0.07	0.03	0.01	99.74
40386663		3.13	45.1	19.50	11.05	10.45	10.70	1.91	0.22	0.422	0.76	0.13	0.07	0.03	0.01	101.04
40386664		3.43	39.0	19.95	13.60	9.55	9.88	1.49	0.18	2.93	0.95	0.13	0.05	0.02	0.01	99.08
40386665		3.00	42.9	19.10	11.95	10.05	10.25	1.72	0.28	0.750	0.78	0.12	0.08	0.03	0.01	99.59
40386666		3.22	42.0	19.65	12.20	10.50	9.31	1.62	0.27	0.499	0.61	0.11	0.07	0.03	0.01	99.34
40386667		2.94	42.9	18.55	12.55	9.64	11.60	1.73	0.18	0.898	0.74	0.13	0.06	0.03	0.01	100.20
40386668		2.45	29.6	22.1	18.45	6.74	10.10	1.31	0.17	7.30	1.17	0.14	0.05	0.02	0.01	98.02
40386669		1.32	44.8	19.05	11.20	10.10	9.36	1.88	0.31	0.121	0.81	0.12	0.10	0.03	0.02	99.69
40386670		1.28	40.5	17.75	15.10	8.94	8.07	2.17	0.25	2.63	1.66	0.15	0.15	0.03	0.01	98.61
40386671		1.25	40.3	17.90	15.70	8.85	8.09	2.18	0.25	3.04	1.87	0.15	0.14	0.03	0.01	99.51
40386672		3.17	44.3	19.50	12.75	9.46	7.53	2.38	0.48	1.220	1.12	0.14	0.13	0.03	0.02	99.74
40386673		2.48	46.4	14.65	15.20	8.95	7.31	2.90	0.40	0.021	2.10	0.20	0.30	0.03	0.02	99.76
40386674		3.29	45.0	14.75	15.95	8.66	8.16	2.57	0.39	0.366	2.00	0.19	0.24	0.02	0.02	99.11
40386675		3.05	40.5	19.90	14.05	9.57	8.91	1.77	0.25	2.20	0.85	0.12	0.06	0.03	0.01	99.06
40386676		3.11	46.3	17.85	12.55	9.57	9.13	2.31	0.43	0.035	1.00	0.15	0.09	0.03	0.02	99.81
40386677		3.12	43.5	16.70	14.50	8.85	10.55	1.94	0.32	0.180	0.87	0.16	0.07	0.03	0.01	98.06
40386678		3.39	42.3	19.25	13.25	9.65	8.39	1.99	0.34	1.735	1.07	0.13	0.07	0.03	0.01	99.33
40386679		3.21	45.5	16.90	14.20	9.52	6.20	2.77	0.52	0.453	1.92	0.16	0.24	0.03	0.03	99.94
40386680		2.35	58.0	17.95	7.47	6.28	2.56	3.70	2.48	0.006	0.93	0.11	0.30	0.06	0.11	100.30
40386681		2.15	41.0	16.90	16.90	8.39	7.98	2.12	0.39	1.980	2.29	0.17	0.18	0.03	0.02	99.56
40386682		2.01	48.7	13.05	15.75	8.43	4.33	3.57	0.62	0.028	3.78	0.20	0.48	0.03	0.03	100.47
40386683		2.40	42.4	18.35	14.65	9.79	8.98	1.63	0.31	0.214	0.77	0.13	0.07	0.03	0.01	100.07
40386684		2.40	38.1	20.6	15.80	8.85	9.40	1.66	0.19	3.66	0.84	0.12	0.04	0.02	0.01	100.22
40386685		2.60	34.9	21.2	16.95	7.90	9.40	1.60	0.14	5.81	1.04	0.13	0.03	0.02	0.01	99.51
40386686		4.23	44.9	22.4	8.86	11.30	6.21	2.30	0.33	0.060	1.30	0.08	0.04	0.04	0.01	99.31
40386687		3.06	46.1	21.8	9.01	10.65	7.44	2.42	0.31	0.026	0.41	0.09	0.04	0.04	0.01	99.61
40386688		3.03	45.8	21.6	9.88	10.75	6.34	2.44	0.35	0.019	0.49	0.09	0.05	0.04	0.01	99.64
40386689		3.01	46.8	21.0	8.96	10.50	6.86	2.65	0.34	0.029	0.55	0.09	0.06	0.04	0.01	100.35

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386650		0.36	0.04	0.09	1110	68.3	30	1.28	6.02	3.37	1.80	24.2	7.20	6.7	1.25	30.4
40386651		0.76	0.01	0.03	161.0	22.5	270	0.68	2.88	1.68	1.08	21.1	3.47	2.1	0.61	9.9
40386652		0.63	0.01	0.03	121.0	16.7	250	0.75	2.43	1.16	1.05	19.9	2.11	1.6	0.47	7.6
40386653		0.57	0.01	0.04	131.5	21.8	250	0.40	2.99	1.78	1.13	20.1	3.30	2.4	0.64	9.6
40386654		0.68	0.01	0.05	136.5	22.9	270	0.27	2.89	1.68	1.14	20.5	3.13	2.2	0.64	10.3
40386655		0.94	0.01	0.05	121.0	18.8	300	0.29	2.33	1.36	0.83	19.4	2.80	1.8	0.50	8.2
40386656		0.84	<0.01	0.03	106.0	14.1	320	0.22	1.87	1.00	0.93	17.1	2.11	1.6	0.40	6.5
40386657		0.87	0.01	0.03	99.4	14.9	270	0.14	1.70	1.23	0.75	16.9	2.09	1.5	0.42	7.0
40386658		0.76	<0.01	0.05	101.0	15.8	550	0.18	1.86	1.12	0.86	18.5	2.32	1.5	0.39	7.1
40386659		0.80	0.01	0.05	85.5	11.3	>10000	0.13	1.63	0.82	0.82	28.6	1.66	1.3	0.33	5.2
40386660		1.41	0.03	0.89	166.0	24.6	2570	2.58	3.21	1.97	1.24	20.0	3.52	2.6	0.79	11.0
40386661		1.11	0.01	0.25	101.5	14.4	2740	0.15	2.13	1.05	0.92	18.5	1.95	1.6	0.40	6.3
40386662		0.85	0.01	0.04	105.0	15.2	1160	0.13	2.05	1.13	1.00	17.0	2.33	1.5	0.38	7.4
40386663		0.69	0.01	0.04	98.2	14.4	3370	0.20	2.08	1.11	0.97	18.4	1.92	1.3	0.39	7.0
40386664		1.34	0.01	0.56	87.0	10.7	>10000	0.26	1.27	0.62	0.72	27.7	1.53	1.2	0.29	5.0
40386665		1.57	0.01	0.60	109.5	15.0	6050	0.50	2.03	1.22	0.91	18.8	2.10	1.6	0.39	7.3
40386666		2.46	0.01	1.46	104.0	11.9	3990	0.49	1.60	0.81	0.80	18.5	1.61	1.3	0.33	5.3
40386667		1.18	0.01	0.38	84.8	12.2	7010	0.14	1.72	0.85	0.81	18.8	1.79	1.9	0.43	5.6
40386668		0.86	0.01	1.14	64.2	8.7	>10000	0.42	1.19	0.65	0.65	44.9	1.07	0.6	0.22	3.9
40386669		1.79	0.01	0.35	151.5	17.2	920	1.38	2.42	1.31	0.87	17.6	2.53	1.7	0.52	7.4
40386670		1.20	0.01	0.70	129.5	27.7	>10000	0.88	3.78	2.09	1.29	28.7	4.19	2.7	0.77	12.5
40386671		1.00	0.01	0.59	130.5	27.8	>10000	0.87	3.76	2.16	1.18	29.9	3.80	2.8	0.85	12.3
40386672		0.68	<0.01	0.15	195.0	23.3	9630	0.99	3.03	1.65	1.15	23.4	3.31	2.1	0.69	10.8
40386673		1.28	0.01	0.07	195.0	48.7	160	0.93	6.87	3.76	2.03	20.7	6.88	5.0	1.45	22.6
40386674		0.79	<0.01	0.18	181.0	42.5	2870	0.90	5.74	3.39	1.80	21.9	5.60	4.4	1.12	19.0
40386675		0.84	<0.01	1.20	106.5	11.9	>10000	0.83	1.68	0.73	0.89	23.6	1.73	1.1	0.32	5.7
40386676		0.34	<0.01	0.05	172.5	18.9	260	0.95	2.77	1.47	1.16	18.3	2.68	1.9	0.60	8.8
40386677		0.38	<0.01	0.53	133.5	17.7	1420	0.89	2.39	1.13	0.99	17.2	2.37	1.8	0.52	8.2
40386678		1.11	<0.01	0.67	140.0	14.7	>10000	1.11	1.98	1.13	0.82	22.7	2.15	1.6	0.43	6.6
40386679		1.50	0.01	0.71	253	41.7	3510	1.32	5.27	2.71	1.87	23.4	6.04	4.1	1.18	18.7
40386680		0.34	0.05	0.10	1055	73.4	50	1.18	5.91	3.65	1.80	22.9	7.00	6.1	1.38	31.8
40386681		1.21	0.01	0.80	191.5	31.8	>10000	1.53	4.06	2.24	1.22	26.5	4.41	3.5	0.92	14.6
40386682		1.47	0.01	0.11	278	87.6	200	0.83	11.35	6.05	3.17	25.8	12.10	9.4	2.45	39.2
40386683		2.74	0.01	1.53	114.5	18.2	1580	2.17	2.26	1.18	0.88	16.5	2.47	1.6	0.47	8.7
40386684		0.93	0.01	0.97	74.9	8.5	>10000	0.72	1.16	0.66	0.52	27.4	1.09	0.8	0.23	4.1
40386685		0.38	0.01	0.53	62.6	7.4	>10000	0.69	0.96	0.49	0.51	37.3	0.96	0.9	0.17	3.6
40386686		2.34	0.01	0.82	89.7	9.7	440	3.15	1.13	0.64	0.80	16.7	1.01	0.7	0.19	4.5
40386687		1.26	0.01	0.48	101.0	9.5	190	2.68	1.20	0.57	0.80	17.5	1.00	0.8	0.25	4.6
40386688		1.78	0.01	1.04	117.0	11.9	140	2.07	1.25	0.66	0.98	18.7	1.74	0.9	0.31	5.7
40386689		2.46	0.01	0.56	120.5	12.5	210	1.95	1.58	0.86	1.02	18.3	1.52	1.2	0.34	5.8

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	
40386650		0.49	13.4	37.7	8.80	106.0	7.94	2	596	0.7	0.99	4.20	0.49	1.54	119	<1
40386651		0.24	6.0	12.6	2.92	7.4	2.81	1	279	0.4	0.47	0.99	0.22	0.25	143	<1
40386652		0.18	5.0	9.0	2.12	6.4	2.42	1	286	0.3	0.34	0.72	0.18	0.15	136	<1
40386653		0.21	6.1	12.6	2.84	6.7	3.16	1	286	0.4	0.50	0.98	0.25	0.24	137	<1
40386654		0.24	5.7	12.7	2.93	7.4	2.91	1	291	0.3	0.51	0.94	0.20	0.24	131	<1
40386655		0.19	4.8	10.9	2.33	6.7	2.62	1	292	0.3	0.40	0.72	0.21	0.20	114	<1
40386656		0.18	4.1	7.9	1.79	5.3	1.84	1	272	0.3	0.33	0.66	0.14	0.20	96	<1
40386657		0.14	3.8	8.1	1.85	4.4	1.96	1	278	0.2	0.35	0.69	0.14	0.16	87	1
40386658		0.16	4.2	9.1	2.01	5.1	1.71	1	296	0.3	0.27	0.58	0.13	0.15	80	<1
40386659		0.16	3.1	6.1	1.46	3.1	1.69	1	278	0.2	0.28	0.52	0.15	0.12	671	<1
40386660		0.26	7.0	14.0	3.40	23.9	3.58	2	346	0.4	0.56	1.04	0.29	0.22	181	<1
40386661		0.16	3.8	8.4	1.91	5.0	1.96	1	292	0.2	0.34	0.55	0.18	0.14	162	<1
40386662		0.18	3.8	9.1	1.88	5.0	1.91	<1	286	0.2	0.38	0.58	0.16	0.13	87	<1
40386663		0.16	3.8	7.9	1.87	5.1	2.40	<1	278	0.2	0.33	0.61	0.15	0.11	147	<1
40386664		0.10	2.7	6.7	1.36	5.0	1.58	1	245	0.1	0.24	0.29	0.11	0.11	409	<1
40386665		0.12	4.0	8.8	2.02	8.2	1.99	1	269	0.2	0.33	0.62	0.14	0.15	165	<1
40386666		0.16	3.1	6.7	1.61	6.9	1.73	1	273	0.2	0.31	0.49	0.13	0.12	119	<1
40386667		0.11	3.3	7.4	1.66	4.5	1.71	1	246	0.2	0.32	0.50	0.16	0.14	179	<1
40386668		0.09	2.1	5.0	1.10	5.4	1.16	1	188.0	0.1	0.20	0.36	0.08	0.05	823	<1
40386669		0.22	4.5	10.0	2.25	8.9	2.94	1	274	0.3	0.42	0.65	0.17	0.15	101	<1
40386670		0.27	7.2	15.4	3.71	6.3	3.45	1	234	0.5	0.63	1.23	0.29	0.29	479	<1
40386671		0.30	7.5	15.7	3.75	6.3	3.94	1	245	0.5	0.66	1.15	0.29	0.27	566	<1
40386672		0.24	6.1	12.7	3.01	12.1	3.31	1	295	0.3	0.51	1.02	0.31	0.26	267	<1
40386673		0.53	13.3	28.4	6.53	9.4	7.25	1	232	0.8	1.03	2.30	0.52	0.51	255	<1
40386674		0.44	11.4	22.5	5.67	10.5	5.84	2	228	0.7	0.95	1.88	0.51	0.50	302	<1
40386675		0.12	2.8	6.5	1.47	6.6	1.81	1	272	0.2	0.25	0.45	0.13	0.13	377	<1
40386676		0.23	5.4	11.3	2.51	10.1	2.72	<1	274	0.3	0.43	0.90	0.25	0.25	136	<1
40386677		0.18	5.3	9.9	2.39	8.4	2.76	1	266	0.3	0.37	0.64	0.20	0.18	124	<1
40386678		0.19	3.8	8.6	2.03	8.1	2.37	1	283	0.2	0.36	0.64	0.14	0.15	382	<1
40386679		0.43	10.9	23.6	5.36	13.2	5.88	2	270	0.7	0.99	1.89	0.46	0.40	331	<1
40386680		0.51	12.8	39.2	9.77	105.5	8.83	2	563	0.6	1.10	4.25	0.49	1.26	132	<1
40386681		0.35	10.2	18.6	4.23	12.8	4.80	2	230	0.6	0.72	1.31	0.34	0.31	438	<1
40386682		0.89	23.0	49.8	11.40	14.5	12.40	3	247	1.5	1.79	4.25	0.93	0.95	397	<1
40386683		0.18	4.0	10.5	2.41	8.6	2.32	1	239	0.2	0.42	1.16	0.18	0.24	136	<1
40386684		0.09	2.1	4.8	1.16	5.4	1.28	1	237	0.1	0.17	0.36	0.06	0.08	491	<1
40386685		0.08	1.7	4.1	0.95	4.0	1.00	<1	220	0.1	0.18	0.28	0.06	0.08	756	1
40386686		0.10	2.3	5.4	1.27	12.9	1.40	<1	311	0.1	0.20	0.45	0.10	0.10	61	<1
40386687		0.09	2.3	5.2	1.24	9.9	1.36	<1	339	0.1	0.17	0.43	0.08	0.15	57	<1
40386688		0.10	2.7	7.1	1.39	9.9	1.81	1	352	0.1	0.25	0.46	0.14	0.09	73	<1
40386689		0.15	3.0	7.1	1.72	9.7	1.72	1	371	0.2	0.26	0.44	0.14	0.14	77	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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





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Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386650		34.3	3.09	297	0.5	0.03	<0.005	0.033	0.001	<0.05	0.2	0.01	0.33	0.03	0.07	15.6
40386651		16.5	1.58	90	0.4	0.03	<0.005	0.015	0.001	0.07	0.4	<0.01	0.03	0.05	0.10	52.0
40386652		12.9	1.20	63	0.4	0.02	<0.005	0.015	0.001	0.08	0.3	0.01	0.03	0.06	0.10	57.2
40386653		16.4	1.52	92	0.3	0.03	<0.005	0.013	<0.001	<0.05	0.3	<0.01	0.03	0.05	0.09	55.7
40386654		16.4	1.42	87	0.2	0.03	<0.005	0.016	0.001	<0.05	0.4	<0.01	0.03	0.04	0.08	55.4
40386655		13.2	1.22	72	0.3	0.03	<0.005	0.015	0.001	0.06	0.4	0.01	0.02	0.06	0.07	56.7
40386656		10.9	1.19	59	0.4	0.02	<0.005	0.014	<0.001	0.12	0.3	0.01	0.02	0.05	0.05	60.5
40386657		10.7	1.14	58	0.4	0.02	<0.005	0.016	<0.001	0.06	0.2	<0.01	0.02	0.04	0.05	65.5
40386658		10.3	1.18	62	0.4	0.02	<0.005	0.016	<0.001	0.07	0.3	0.01	0.02	0.05	0.06	63.6
40386659		9.2	0.65	47	1.0	0.03	<0.005	0.012	0.001	0.07	0.4	0.01	<0.02	0.07	0.04	70.8
40386660		18.8	1.72	100	7.8	0.42	0.009	0.052	0.008	0.30	3.2	0.19	0.30	1.62	0.45	96.1
40386661		10.6	1.17	52	0.7	0.14	<0.005	0.020	0.003	0.21	1.3	0.11	0.02	0.36	0.11	64.2
40386662		11.4	1.21	55	0.5	0.03	<0.005	0.014	<0.001	0.10	0.7	0.02	0.02	0.07	0.06	58.6
40386663		10.8	1.12	54	0.5	0.02	<0.005	0.015	<0.001	0.06	0.5	0.01	0.02	0.07	0.05	62.3
40386664		7.9	0.70	46	0.5	0.27	<0.005	0.029	0.008	0.08	2.5	0.19	0.02	1.00	0.25	102.0
40386665		11.1	0.77	62	0.4	0.33	<0.005	0.032	0.008	<0.05	2.5	0.15	0.03	0.82	0.24	93.6
40386666		9.1	0.85	47	0.7	0.64	<0.005	0.062	0.016	0.07	4.5	0.34	0.04	1.77	0.56	123.0
40386667		9.3	0.86	80	1.2	0.31	<0.005	0.028	0.005	0.12	1.7	0.11	0.02	0.62	0.16	94.8
40386668		6.2	0.64	29	0.7	0.42	<0.005	0.043	0.014	0.09	3.4	0.25	0.02	1.61	0.33	165.5
40386669		12.2	1.21	64	0.6	0.14	<0.005	0.026	0.005	0.05	1.5	0.07	0.07	0.53	0.19	72.8
40386670		20.8	2.07	106	0.5	0.26	<0.005	0.037	0.008	<0.05	1.9	0.13	0.04	0.86	0.30	97.1
40386671		20.5	2.20	112	0.5	0.24	<0.005	0.034	0.007	0.05	1.7	0.10	0.03	0.84	0.26	96.8
40386672		16.5	1.45	89	0.4	0.09	<0.005	0.019	0.002	0.05	0.8	0.03	0.03	0.20	0.13	60.7
40386673		35.7	3.56	190	0.6	0.03	<0.005	0.024	0.001	0.05	0.2	0.01	0.04	0.23	0.14	56.2
40386674		30.9	2.92	167	0.8	0.12	<0.005	0.032	0.002	0.09	1.1	0.03	0.04	0.24	0.15	66.2
40386675		8.5	0.79	38	1.3	0.48	<0.005	0.042	0.016	0.08	3.6	0.25	0.04	1.59	0.40	115.5
40386676		14.4	1.43	72	0.8	0.03	<0.005	0.017	0.001	<0.05	0.4	0.01	0.02	0.06	0.07	59.9
40386677		13.0	1.24	71	1.0	0.20	<0.005	0.030	0.006	0.08	1.6	0.10	0.03	0.67	0.19	95.2
40386678		10.9	1.06	59	1.2	0.28	<0.005	0.031	0.007	0.10	2.0	0.15	0.04	0.99	0.31	88.5
40386679		30.1	2.69	160	1.0	0.24	<0.005	0.049	0.008	0.17	2.4	0.14	0.05	1.19	0.38	71.4
40386680		37.0	3.28	244	0.4	0.01	<0.005	0.027	<0.001	<0.05	0.2	0.03	0.32	0.02	0.07	16.8
40386681		23.7	2.32	133	0.6	0.26	<0.005	0.041	0.008	0.10	2.5	0.11	0.06	0.89	0.30	99.1
40386682		62.1	5.70	356	0.5	0.01	<0.005	0.034	0.001	0.07	0.4	0.02	0.02	0.07	0.15	37.7
40386683		11.6	1.11	61	0.6	0.69	<0.005	0.049	0.017	0.11	4.1	0.26	0.07	1.67	0.59	134.5
40386684		5.7	0.61	29	1.3	0.64	<0.005	0.031	0.010	0.18	2.9	0.24	0.02	1.34	0.33	135.5
40386685		5.2	0.39	30	0.6	0.28	<0.005	0.025	0.006	0.14	2.0	0.14	0.02	0.77	0.20	129.5
40386686		6.2	0.64	28	0.8	0.38	<0.005	0.029	0.008	0.17	2.8	0.21	0.04	1.15	0.24	77.3
40386687		6.0	0.53	30	0.9	0.25	0.006	0.021	0.006	0.11	1.6	0.12	0.09	0.67	0.15	68.6
40386688		7.9	0.64	38	1.5	0.42	0.005	0.038	0.008	0.08	2.0	0.10	0.16	0.74	0.31	96.6
40386689		8.4	0.77	42	1.0	0.21	0.005	0.023	0.005	0.07	1.3	0.08	0.15	0.43	0.30	65.9

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
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Page: 2 - E  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386650		17.7	16.7	0.97	13.1	11.9	13.8	91	<0.001	<0.0005	0.001
40386651		99.1	16.8	0.75	313	4.8	16.3	91	<0.001	<0.0005	0.001
40386652		116.0	18.2	0.74	332	3.7	18.4	94	<0.001	0.0005	0.002
40386653		78.4	9.0	0.86	324	3.6	16.9	89	<0.001	0.0005	0.002
40386654		112.5	5.6	0.68	280	1.5	15.9	86	0.002	0.0005	0.003
40386655		159.0	10.6	0.63	239	1.5	14.8	87	0.002	0.0080	0.011
40386656		98.0	10.7	0.51	333	1.7	12.7	81	0.001	0.0256	0.039
40386657		86.9	9.5	0.59	408	1.4	11.3	82	0.001	0.0171	0.021
40386658		149.0	9.6	0.65	443	0.9	11.9	77	0.005	0.0403	0.110
40386659		193.0	8.1	0.71	462	0.9	9.9	163	0.021	0.0290	0.082
40386660		4040	23.8	4.82	2020	7.9	18.1	114	0.074	0.1285	0.748
40386661		1115	8.7	0.60	817	1.2	12.6	80	0.044	0.0730	0.200
40386662		146.0	7.4	0.65	471	1.1	10.1	74	0.005	0.0192	0.073
40386663		168.5	7.8	0.52	531	1.0	11.8	84	0.005	0.0181	0.055
40386664		2850	9.1	0.53	2010	2.3	10.4	146	0.048	0.1175	0.525
40386665		2310	5.4	0.50	1645	2.5	9.0	91	0.030	0.0783	0.253
40386666		5400	7.0	0.50	2670	3.2	9.8	80	0.071	0.1490	0.574
40386667		1815	7.1	0.46	1355	2.1	9.5	94	0.024	0.0550	0.246
40386668		4520	4.8	0.54	3090	2.7	10.3	278	0.066	0.1565	0.853
40386669		1565	12.2	0.64	939	3.1	10.3	76	0.018	0.0368	0.114
40386670		2850	10.4	0.90	1600	3.7	19.5	151	0.028	0.0860	0.405
40386671		2370	9.6	0.92	1515	3.7	19.6	164	0.036	0.0716	0.377
40386672		608	8.2	0.69	488	1.5	12.6	116	0.007	0.0228	0.082
40386673		214	8.6	1.28	161.5	2.2	27.8	127	0.007	0.0080	0.010
40386674		785	9.8	1.18	334	2.2	26.8	138	0.022	0.0376	0.090
40386675		4470	9.7	0.52	2850	3.3	10.8	119	0.065	0.1390	0.633
40386676		171.5	9.2	0.62	242	1.1	12.4	94	0.010	0.0168	0.011
40386677		1825	11.5	0.63	1330	1.7	11.3	102	0.022	0.0525	0.197
40386678		2730	13.5	0.57	1415	2.3	12.7	119	0.054	0.0888	0.352
40386679		3390	11.1	1.21	1285	2.9	23.5	125	0.035	0.0853	0.401
40386680		24.6	19.6	0.93	16.5	11.1	14.9	91	<0.001	0.0009	0.002
40386681		2970	13.8	0.91	1425	3.2	21.4	160	0.043	0.0821	0.355
40386682		238	8.0	1.94	57.8	2.8	35.9	136	0.007	0.0007	0.003
40386683		4670	19.3	0.57	2170	3.4	10.9	91	0.053	0.1105	0.362
40386684		3870	8.7	0.44	2180	1.5	8.4	169	0.043	0.1380	0.556
40386685		2170	8.6	0.37	1550	1.3	7.6	216	0.030	0.1065	0.495
40386686		3380	15.6	0.51	1810	1.3	5.6	54	0.068	0.1365	0.626
40386687		1895	16.6	0.55	1125	1.4	5.3	57	0.026	0.0660	0.266
40386688		1770	21.9	0.78	1065	3.6	6.7	60	0.022	0.0471	0.135
40386689		1035	22.3	0.55	612	2.3	7.6	56	0.011	0.0289	0.103

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40386690	0.02	0.17	44.6	18.40	14.55	9.89	7.69	2.12	0.64	0.320	1.30	0.15	0.14	0.04	0.02	101.19
40386691	0.02	3.01	47.8	20.5	9.82	9.97	7.04	2.80	0.43	0.049	0.67	0.10	0.07	0.05	0.02	101.98
40386692	0.02	2.91	48.9	20.2	8.83	9.52	6.51	2.97	0.88	0.051	0.60	0.09	0.05	0.06	0.06	101.84
40386693	0.02	3.15	48.8	20.9	9.14	9.21	5.44	3.35	0.71	0.047	0.57	0.08	0.06	0.07	0.03	101.18
40386694	0.02	3.38	49.5	21.6	8.07	9.07	4.89	3.57	0.54	0.033	0.57	0.07	0.06	0.07	0.02	100.21
40386695	0.02	3.23	49.1	21.0	8.67	8.89	5.53	3.46	0.54	0.060	0.55	0.07	0.06	0.07	0.01	99.96
40386696	0.02	2.81	49.9	21.3	6.94	9.02	5.54	3.55	0.52	0.052	0.57	0.07	0.06	0.07	0.02	99.48
40386697	0.02	2.85	50.1	21.6	7.22	9.15	5.53	3.56	0.57	0.057	0.55	0.07	0.06	0.08	0.02	100.19
40386698	0.02	2.98	47.8	21.1	8.48	8.78	4.71	3.35	0.62	0.048	0.52	0.06	0.05	0.07	0.02	98.38
40386699	0.02	1.51	50.0	21.6	7.24	9.19	5.40	3.40	0.63	0.054	0.64	0.07	0.07	0.08	0.02	100.36
40386700	0.02	1.43	49.6	21.4	7.51	9.16	5.41	3.36	0.61	0.054	0.63	0.07	0.07	0.07	0.02	100.09
40386701	0.02	2.62	49.2	21.8	6.81	8.89	5.10	3.26	1.08	0.026	0.59	0.06	0.05	0.09	0.02	100.13
40386702	0.02	2.73	48.6	21.7	6.47	8.50	4.82	3.32	1.57	0.019	0.50	0.06	0.05	0.12	0.09	99.95
40386703	0.02	3.11	46.3	20.8	7.74	10.70	4.14	3.37	0.60	0.014	0.45	0.06	0.05	0.02	0.06	99.05
40386704	0.02	2.32	48.4	20.9	7.79	9.32	4.09	3.74	0.92	0.014	0.63	0.07	0.06	0.06	0.04	100.19
40386705	0.02	1.92	50.1	15.10	13.95	8.31	3.78	4.17	0.70	0.006	2.62	0.17	0.40	0.04	0.02	101.38
40386706	0.02	1.77	47.0	12.20	16.80	9.94	6.23	2.75	0.53	0.021	2.75	0.22	0.26	0.03	0.02	100.20
40386707	0.02	2.86	46.2	19.40	10.50	8.69	7.51	2.43	0.78	0.017	0.74	0.10	0.08	0.05	0.02	99.19
40386708	0.02	3.07	47.0	12.55	16.50	9.90	5.46	3.01	0.58	0.011	3.66	0.21	0.27	0.03	0.02	100.63
40386709	0.02	3.29	47.4	12.45	15.65	10.35	5.85	2.85	0.66	0.034	3.15	0.19	0.22	0.03	0.03	100.04
40386710	0.02	2.20	58.4	18.50	7.04	5.98	2.35	3.89	2.41	0.002	0.90	0.10	0.26	0.07	0.10	100.28
40386711	0.02	2.03	47.2	19.40	11.90	9.16	5.77	2.75	1.02	0.014	0.89	0.12	0.09	0.05	0.04	101.21
40386712	0.02	2.67	49.8	11.85	16.05	9.21	4.08	4.14	0.29	0.008	3.03	0.22	0.52	0.02	0.01	100.44
40386713	0.02	3.47	45.7	20.2	12.05	9.35	5.75	2.70	0.61	0.021	0.76	0.09	0.09	0.05	0.02	99.99
40386714	0.02	3.07	44.7	20.1	11.00	9.44	5.91	2.70	0.64	0.027	0.69	0.08	0.08	0.05	0.01	98.65
40386715	0.02	3.13	44.0	19.90	12.65	9.63	6.27	2.46	0.52	0.037	0.72	0.10	0.08	0.05	0.01	99.64
40386716	0.02	3.08	43.7	19.85	13.20	9.96	6.34	2.13	0.42	0.040	0.77	0.10	0.08	0.04	0.01	99.40
40386717	0.02	3.12	45.5	20.8	9.72	10.60	6.69	2.17	0.44	0.060	0.83	0.10	0.10	0.04	0.01	99.34
40386718	0.02	1.95	45.6	20.8	9.58	10.70	6.73	2.15	0.36	0.065	0.87	0.10	0.09	0.04	0.01	99.15
40386719	0.02	1.89	46.2	21.1	8.26	10.95	7.18	2.12	0.41	0.027	0.83	0.10	0.09	0.04	0.01	98.97
40386720	0.02	0.17	43.4	17.95	13.75	9.32	7.67	2.05	0.62	0.314	1.25	0.14	0.14	0.04	0.02	98.06
40386721	0.02	2.99	45.6	19.80	9.66	10.55	7.16	2.19	0.43	0.017	1.49	0.11	0.14	0.04	0.02	98.89
40386722	0.02	2.49	47.2	20.4	9.37	10.70	6.38	2.46	0.55	0.017	1.09	0.11	0.12	0.04	0.02	100.19
40386723	0.02	2.04	47.5	15.80	13.50	10.10	5.72	3.04	0.39	0.013	2.19	0.17	0.24	0.03	0.02	100.42
40386724	0.02	2.10	44.0	18.45	12.80	9.92	7.51	2.03	0.36	0.013	1.09	0.13	0.14	0.03	0.01	99.03
40386725	0.02	3.10	43.8	19.60	12.00	10.35	6.72	1.90	0.35	0.016	0.90	0.11	0.10	0.03	0.01	99.04
40386726	0.02	3.04	45.3	20.7	9.23	10.85	7.28	1.91	0.37	0.017	0.86	0.10	0.10	0.03	0.01	99.73
40386727	0.02	2.33	42.9	18.75	10.95	12.25	7.86	1.44	0.28	0.021	0.78	0.11	0.09	0.02	0.01	99.76
40386728	0.02	3.74	42.8	17.80	13.40	9.41	10.70	1.65	0.26	0.032	0.69	0.12	0.08	0.03	0.01	99.31
40386729	0.02	2.67	44.7	20.6	11.00	10.40	8.02	2.03	0.34	0.016	0.82	0.10	0.10	0.04	0.01	100.14

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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Page: 3 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386690		1.33	0.02	0.91	172.0	26.2	2280	2.74	3.31	1.80	1.25	19.2	3.13	2.4	0.75	11.8
40386691		2.66	0.01	0.57	146.5	14.5	350	2.41	2.00	0.86	1.20	18.3	2.08	1.5	0.38	6.5
40386692		3.12	0.01	0.34	529	12.9	350	2.72	1.76	0.95	1.23	18.9	1.57	1.3	0.33	6.1
40386693		2.77	0.01	0.93	289	11.8	340	2.83	1.63	0.65	1.32	20.5	1.65	1.0	0.28	5.6
40386694		2.15	0.01	0.70	147.5	12.1	260	1.77	1.53	0.91	1.40	24.9	1.79	1.0	0.28	5.7
40386695		1.95	<0.01	0.69	144.5	11.6	470	1.76	1.40	0.75	1.17	24.4	1.47	1.2	0.32	5.7
40386696		1.87	0.01	0.03	156.5	11.9	400	1.71	1.41	0.83	1.35	23.9	1.52	1.0	0.31	5.6
40386697		1.62	<0.01	0.20	151.0	11.9	430	1.86	1.34	0.68	1.42	23.0	1.54	1.0	0.30	5.7
40386698		2.77	0.01	1.17	174.5	11.2	370	1.62	1.47	0.94	0.98	22.8	1.61	1.0	0.29	5.2
40386699		1.97	0.01	0.27	181.0	13.5	400	1.80	1.60	0.95	1.45	22.7	1.86	1.2	0.36	6.7
40386700		2.13	0.01	0.37	162.0	12.9	370	1.88	1.75	0.72	1.25	22.9	1.95	1.2	0.31	6.1
40386701		3.15	0.01	0.37	239	14.5	210	1.89	1.75	1.11	1.46	24.2	2.00	1.3	0.32	10.6
40386702		4.13	0.01	0.33	941	11.2	150	3.07	1.21	0.68	1.37	22.0	1.51	1.0	0.28	5.5
40386703		4.75	<0.01	0.88	626	9.8	110	1.23	1.03	0.67	1.15	22.4	1.17	1.0	0.24	5.0
40386704		4.16	<0.01	0.49	410	13.1	120	1.41	1.75	0.89	1.40	22.4	1.91	1.3	0.35	6.4
40386705		2.01	<0.01	0.36	149.0	75.0	50	0.81	9.21	5.20	2.90	28.1	10.15	8.1	1.98	34.8
40386706		1.45	<0.01	0.31	157.0	46.4	160	0.89	7.00	3.92	2.16	22.7	7.83	4.9	1.43	21.6
40386707		2.67	0.01	0.66	212	16.1	130	3.52	2.10	1.33	1.31	20.1	2.45	1.7	0.48	7.9
40386708		1.43	0.01	0.25	218	42.1	90	0.78	6.28	3.54	1.89	23.7	6.79	4.6	1.26	19.2
40386709		1.18	<0.01	0.32	249	40.5	250	0.85	6.04	3.65	1.72	22.8	6.27	4.3	1.28	18.9
40386710		0.28	0.05	0.09	972	69.1	20	1.27	6.04	3.51	1.71	26.1	7.22	7.6	1.20	31.5
40386711		2.81	0.01	0.67	347	17.0	90	1.96	2.19	1.18	1.11	19.4	2.69	1.6	0.52	8.2
40386712		1.21	0.01	0.05	137.5	96.4	70	0.95	12.00	7.18	3.31	29.3	12.75	9.7	2.64	44.2
40386713		2.60	0.01	1.95	166.5	15.6	160	1.94	1.92	1.10	1.07	20.7	2.25	1.4	0.45	7.7
40386714		3.22	<0.01	1.78	138.0	14.2	220	2.21	2.00	1.14	1.10	20.7	2.32	1.4	0.45	7.1
40386715		3.21	0.01	2.21	115.0	15.4	290	1.54	2.13	0.98	1.25	18.8	2.27	1.5	0.42	6.9
40386716		2.76	0.01	2.46	122.0	15.6	300	1.40	2.09	1.29	1.10	18.2	2.45	1.6	0.47	7.3
40386717		2.28	0.01	0.76	131.0	16.3	430	1.43	2.23	1.49	1.27	19.3	2.15	1.6	0.46	8.1
40386718		2.05	0.01	0.55	121.0	17.9	490	1.50	2.27	1.50	1.25	19.8	2.75	1.9	0.56	8.5
40386719		1.65	<0.01	0.06	135.0	18.1	220	1.36	2.28	1.42	1.24	20.8	2.88	1.8	0.50	8.5
40386720		1.40	0.02	0.93	165.0	25.6	2220	2.61	3.43	1.90	1.31	19.8	3.79	2.3	0.73	11.7
40386721		1.68	0.01	0.11	156.5	26.2	140	1.62	3.54	1.66	1.14	20.2	3.37	2.6	0.71	11.5
40386722		1.73	<0.01	0.05	190.5	25.1	140	1.79	3.51	1.89	1.23	21.5	3.66	2.3	0.66	11.4
40386723		1.71	0.01	0.21	170.0	46.9	100	1.42	6.85	3.90	1.78	23.3	6.70	4.8	1.40	20.7
40386724		2.55	0.01	0.99	133.5	26.0	100	1.84	3.35	2.08	1.18	18.7	3.76	2.3	0.73	11.2
40386725		3.15	<0.01	1.18	130.5	20.1	120	1.78	2.61	1.38	1.00	18.2	2.92	1.9	0.52	8.8
40386726		2.97	<0.01	0.25	137.0	19.0	130	1.97	2.49	1.20	1.18	18.5	2.50	1.8	0.56	8.4
40386727		4.30	0.01	0.56	117.0	20.5	140	1.81	2.78	1.24	1.27	18.3	2.39	1.7	0.52	9.3
40386728		2.33	0.02	0.55	91.7	14.5	270	2.06	2.30	1.17	1.28	18.1	2.07	1.7	0.46	6.5
40386729		1.96	<0.01	0.81	110.5	14.7	130	2.08	2.06	1.26	1.13	17.9	2.27	1.9	0.43	7.1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - C  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386690		0.25	7.3	14.4	3.40	22.3	3.89	2	330	0.4	0.52	1.04	0.26	0.22	179	<1
40386691		0.12	3.5	7.8	2.06	13.5	1.99	1	436	0.2	0.33	0.58	0.14	0.14	93	<1
40386692		0.14	3.1	7.3	1.77	32.9	1.72	<1	536	0.2	0.32	0.46	0.14	0.11	87	<1
40386693		0.10	2.7	6.4	1.48	27.9	1.70	<1	586	0.2	0.24	0.45	0.13	0.11	80	<1
40386694		0.12	3.2	6.8	1.56	19.1	1.81	1	632	0.4	0.24	0.50	0.14	0.08	75	<1
40386695		0.12	3.0	7.1	1.47	19.4	1.60	1	621	0.4	0.26	0.42	0.13	0.10	81	7
40386696		0.12	3.3	7.0	1.49	17.2	1.52	1	626	0.4	0.27	0.46	0.13	0.14	78	<1
40386697		0.14	2.9	6.9	1.55	19.4	1.60	<1	620	0.3	0.24	0.47	0.11	0.12	76	<1
40386698		0.10	3.0	6.7	1.30	20.5	1.56	1	630	0.3	0.24	0.46	0.11	0.09	74	<1
40386699		0.12	3.5	8.5	1.80	20.3	2.00	<1	645	0.4	0.28	0.56	0.16	0.15	83	<1
40386700		0.13	3.3	7.4	1.65	19.5	1.77	<1	602	0.3	0.26	0.46	0.12	0.14	83	<1
40386701		0.16	3.3	7.5	1.87	42.2	1.74	<1	815	0.3	0.29	0.53	0.12	0.18	113	1
40386702		0.10	2.7	6.4	1.44	60.0	1.66	<1	1090	0.3	0.20	0.45	0.12	0.11	66	<1
40386703		0.12	2.4	5.5	1.21	22.8	1.61	1	213	0.3	0.23	0.39	0.09	0.09	65	<1
40386704		0.11	3.5	7.7	1.77	36.7	1.86	1	529	0.4	0.27	0.54	0.14	0.17	83	<1
40386705		0.83	20.7	43.6	9.83	25.7	10.90	2	310	1.8	1.67	3.80	0.83	1.04	206	<1
40386706		0.53	13.3	29.3	6.04	17.9	7.64	1	271	1.0	1.15	2.01	0.51	0.50	354	<1
40386707		0.14	4.3	9.4	2.04	28.5	2.56	1	416	0.4	0.38	0.63	0.18	0.20	103	<1
40386708		0.50	15.4	26.3	5.65	20.1	6.85	1	280	1.0	1.08	1.79	0.45	0.50	430	<1
40386709		0.43	12.3	24.8	5.44	22.8	6.68	1	274	0.9	1.11	1.76	0.52	0.44	465	<1
40386710		0.47	13.2	40.3	9.21	104.5	8.25	2	584	0.8	1.03	4.01	0.48	1.56	120	1
40386711		0.18	4.7	9.8	2.14	31.3	2.85	1	421	0.4	0.36	0.64	0.21	0.20	107	<1
40386712		0.98	25.9	56.0	12.45	9.9	14.75	2	198.0	1.6	2.20	4.54	1.09	1.12	328	<1
40386713		0.15	4.3	9.7	2.09	21.1	2.31	1	430	0.4	0.35	0.62	0.18	0.17	98	<1
40386714		0.14	4.0	9.0	1.91	25.4	2.47	1	437	0.4	0.28	0.48	0.17	0.12	98	<1
40386715		0.17	4.1	9.0	1.91	18.4	2.12	1	417	0.4	0.36	0.60	0.16	0.15	105	1
40386716		0.15	4.5	9.1	2.11	14.0	2.18	1	362	0.4	0.34	0.60	0.17	0.13	116	1
40386717		0.17	4.7	9.7	2.30	13.6	2.57	1	358	0.5	0.38	0.67	0.17	0.19	112	<1
40386718		0.18	4.7	10.6	2.33	10.1	2.75	1	344	0.4	0.48	0.70	0.15	0.16	122	<1
40386719		0.20	5.0	11.3	2.41	11.5	2.68	1	361	0.4	0.44	0.70	0.16	0.17	117	<1
40386720		0.25	7.7	13.5	3.41	22.1	3.69	2	346	0.5	0.55	1.13	0.26	0.28	173	<1
40386721		0.27	8.2	13.7	3.41	13.1	3.60	1	319	0.7	0.60	1.08	0.28	0.31	162	2
40386722		0.21	6.8	13.0	3.31	16.9	3.25	1	345	0.6	0.55	0.99	0.26	0.29	151	1
40386723		0.49	13.4	25.5	6.12	12.5	6.27	2	280	0.9	1.05	2.35	0.51	0.65	294	<1
40386724		0.27	7.3	13.0	3.37	10.4	3.54	1	271	0.5	0.60	1.13	0.28	0.29	142	<1
40386725		0.23	5.7	10.7	2.66	8.6	2.36	1	280	0.5	0.42	0.85	0.19	0.24	117	<1
40386726		0.22	5.3	9.7	2.52	9.5	2.49	1	300	0.5	0.41	0.85	0.22	0.21	127	<1
40386727		0.21	5.7	10.3	2.45	8.5	2.37	2	229	0.4	0.42	0.76	0.19	0.23	118	<1
40386728		0.19	4.3	8.4	1.88	8.0	2.11	1	283	0.2	0.34	0.71	0.19	0.21	165	<1
40386729		0.17	4.4	8.2	1.96	10.0	1.80	1	333	0.2	0.38	0.65	0.17	0.20	121	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 3 - D  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386690		18.1	1.74	93	7.5	0.47	0.009	0.049	0.007	0.30	2.7	0.20	0.31	1.45	0.47	95.1
40386691		9.7	0.89	54	4.1	0.45	<0.005	0.027	0.006	0.09	1.6	0.10	0.23	0.58	0.36	67.8
40386692		8.5	0.71	48	1.8	0.26	0.006	0.020	0.003	0.09	0.8	0.06	0.25	0.21	0.10	47.8
40386693		7.9	0.78	39	0.9	0.59	0.007	0.028	0.007	0.06	1.6	0.11	0.25	0.61	0.14	74.3
40386694		8.0	0.80	40	2.0	0.31	0.005	0.033	0.005	0.06	1.3	0.07	0.14	0.48	0.14	58.8
40386695		7.7	0.75	45	3.3	0.34	0.006	0.035	0.005	0.08	1.3	0.07	0.12	0.35	0.11	57.8
40386696		7.9	0.83	42	2.1	0.03	<0.005	0.009	<0.001	0.08	<0.2	0.01	0.06	0.03	0.05	26.0
40386697		7.6	0.76	43	0.9	0.10	<0.005	0.016	<0.001	0.05	0.4	0.03	0.07	0.16	0.06	32.7
40386698		7.3	0.66	39	0.7	0.38	0.005	0.051	0.005	0.09	2.2	0.21	0.32	1.10	0.25	77.2
40386699		8.8	0.90	52	1.4	0.03	<0.005	0.016	0.002	0.06	0.5	0.04	0.11	0.22	0.07	42.1
40386700		8.6	0.87	50	1.0	0.05	<0.005	0.020	0.001	0.08	0.7	0.06	0.13	0.32	0.11	46.2
40386701		9.4	0.96	46	1.0	0.02	<0.005	0.015	0.001	0.10	0.6	0.04	0.15	0.12	0.10	38.3
40386702		7.5	0.62	44	1.3	0.03	0.005	0.024	0.004	0.10	1.0	0.05	0.24	0.26	0.09	43.6
40386703		6.5	0.59	34	1.0	0.13	0.009	0.048	0.008	0.11	2.3	0.10	0.89	0.70	0.23	75.3
40386704		8.5	0.84	52	5.2	0.06	0.006	0.049	0.004	0.18	1.7	0.08	0.51	0.56	0.26	71.2
40386705		51.3	5.39	326	0.9	0.03	<0.005	0.023	0.001	0.11	0.8	0.03	0.10	0.13	0.12	41.0
40386706		34.9	3.52	191	0.8	0.07	<0.005	0.033	0.003	0.11	0.6	0.02	0.20	0.18	0.14	59.8
40386707		10.8	1.09	67	5.2	0.32	<0.005	0.036	0.007	0.19	2.0	0.11	0.36	0.88	0.27	69.1
40386708		33.4	3.69	184	10.8	0.02	<0.005	0.040	0.005	0.12	0.9	0.04	0.11	0.21	0.22	55.6
40386709		32.3	3.16	171	0.5	0.02	0.005	0.040	0.006	0.08	1.2	0.04	0.16	0.32	0.21	57.1
40386710		32.8	3.25	326	0.5	0.01	<0.005	0.034	<0.001	<0.05	<0.2	0.02	0.34	0.04	0.07	16.2
40386711		11.5	1.35	67	4.1	0.09	<0.005	0.031	0.007	0.12	1.8	0.11	0.38	0.57	0.22	71.7
40386712		65.9	6.60	413	0.6	0.01	<0.005	0.021	0.002	0.05	0.5	0.01	0.03	0.09	0.16	37.7
40386713		11.2	1.16	61	1.1	0.61	<0.005	0.049	0.018	0.14	3.4	0.20	0.37	1.24	0.41	129.0
40386714		10.2	0.90	60	0.8	0.85	<0.005	0.051	0.016	0.17	4.0	0.20	0.24	1.29	0.41	111.5
40386715		10.5	1.06	58	2.4	1.23	<0.005	0.068	0.015	0.05	4.1	0.24	0.14	1.62	0.88	124.5
40386716		11.0	1.12	62	3.6	1.35	<0.005	0.090	0.017	0.05	5.5	0.28	0.16	1.95	1.20	132.0
40386717		11.6	1.09	68	1.7	0.38	<0.005	0.033	0.007	0.06	1.5	0.08	0.07	0.56	0.43	72.2
40386718		12.6	1.24	71	1.1	0.14	0.005	0.039	0.008	0.06	1.4	0.05	0.06	0.38	0.31	73.7
40386719		12.3	1.40	75	0.8	0.02	<0.005	0.013	0.001	0.06	0.3	0.01	0.02	0.03	0.10	53.1
40386720		18.1	1.81	99	7.0	0.49	0.012	0.053	0.011	0.33	3.3	0.19	0.32	1.46	0.47	95.7
40386721		18.1	1.86	104	0.9	0.02	<0.005	0.016	0.003	0.06	0.5	0.01	0.04	0.18	0.15	58.1
40386722		17.8	1.62	90	2.5	0.01	<0.005	0.014	0.001	0.05	0.4	0.02	0.04	0.06	0.09	43.7
40386723		35.1	3.24	196	1.6	0.05	<0.005	0.026	0.003	0.05	1.1	0.05	0.07	0.33	0.22	55.0
40386724		18.3	1.61	95	0.9	0.28	<0.005	0.042	0.006	0.06	2.2	0.10	0.11	0.86	0.43	97.2
40386725		13.7	1.37	75	1.9	0.25	<0.005	0.053	0.019	0.07	4.5	0.19	0.18	1.49	0.54	108.0
40386726		13.4	1.03	73	1.2	0.05	<0.005	0.023	0.006	0.09	1.4	0.07	0.09	0.44	0.16	51.3
40386727		13.5	1.22	73	27.4	0.16	<0.005	0.027	0.011	0.21	2.5	0.17	0.10	1.24	0.72	111.5
40386728		11.8	1.21	63	46.2	0.24	<0.005	0.044	0.011	0.25	2.0	0.15	0.10	0.87	0.54	120.5
40386729		11.9	1.25	88	3.5	0.25	<0.005	0.046	0.008	0.07	1.2	0.07	0.04	0.52	0.39	99.3

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - E  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386690		3950	27.0	4.94	1970	7.7	17.3	111	0.065	0.1370	0.806
40386691		1395	21.4	0.61	704	3.2	8.6	61	0.023	0.0344	0.105
40386692		560	30.9	0.50	363	2.1	8.0	52	0.010	0.0135	0.039
40386693		1235	22.9	0.58	731	2.9	6.9	51	0.020	0.0314	0.091
40386694		1020	15.7	0.59	596	2.2	7.1	51	0.011	0.0297	0.081
40386695		822	16.1	0.68	534	2.4	6.9	53	0.013	0.0302	0.077
40386696		46.1	17.1	0.54	46.1	1.1	7.0	44	0.001	0.0016	0.005
40386697		339	18.5	0.55	190.5	1.4	6.6	44	0.003	0.0076	0.022
40386698		2330	21.4	0.73	1030	2.1	6.9	51	0.029	0.0524	0.150
40386699		548	20.9	0.66	217	1.4	7.5	49	0.004	0.0118	0.035
40386700		714	19.7	1.51	276	6.2	6.5	55	0.005	0.0189	0.048
40386701		263	29.1	0.68	168.0	2.5	7.0	44	0.004	0.0077	0.023
40386702		673	46.2	0.59	328	5.5	5.7	42	0.002	0.0171	0.058
40386703		2200	44.3	0.82	816	2.3	6.0	66	0.014	0.0322	0.112
40386704		1790	38.2	0.72	661	3.1	7.6	80	0.014	0.0269	0.073
40386705		463	17.0	1.71	96.8	1.8	30.8	94	0.013	0.0022	0.008
40386706		598	14.0	1.30	248	1.5	48.6	127	0.007	0.0082	0.025
40386707		2570	26.1	0.61	715	2.6	8.3	70	0.025	0.0340	0.078
40386708		880	13.7	1.49	309	1.9	49.8	127	0.065	0.0182	0.054
40386709		1085	13.3	1.25	356	2.6	55.4	119	0.017	0.0183	0.058
40386710		22.3	19.7	1.14	13.6	11.8	15.5	87	<0.001	0.0006	0.001
40386711		1785	18.8	0.73	686	2.4	10.2	82	0.015	0.0283	0.091
40386712		147.0	8.0	2.17	43.4	3.6	43.9	123	0.003	<0.0005	0.001
40386713		3770	22.7	0.68	1575	4.0	10.6	69	0.039	0.0683	0.221
40386714		3960	23.6	0.62	1535	4.3	9.6	67	0.037	0.0695	0.227
40386715		3960	17.3	0.76	1860	7.1	9.6	68	0.057	0.0878	0.258
40386716		4520	13.6	0.82	2080	12.6	10.4	72	0.074	0.0938	0.327
40386717		1405	14.0	0.77	712	5.2	10.2	66	0.030	0.0298	0.097
40386718		972	11.7	0.74	488	3.7	9.8	67	0.013	0.0226	0.078
40386719		60.2	12.0	0.57	53.2	1.8	8.7	60	0.002	0.0025	0.005
40386720		3810	27.3	4.88	1940	8.0	18.7	110	0.093	0.1295	0.772
40386721		413	12.0	0.80	338	1.5	15.1	75	0.005	0.0133	0.028
40386722		170.5	11.2	0.69	168.5	1.2	12.7	70	0.017	0.0089	0.015
40386723		825	8.4	1.27	451	1.9	33.9	109	0.027	0.0263	0.044
40386724		2030	13.4	0.78	935	5.0	12.4	87	0.032	0.0422	0.102
40386725		3890	14.8	0.65	2230	3.4	7.9	84	0.027	0.0602	0.143
40386726		1005	15.3	0.64	756	3.3	11.2	68	0.011	0.0524	0.107
40386727		2640	19.1	1.90	1340	10.7	9.5	101	0.017	0.0445	0.122
40386728		1915	17.9	2.38	949	23.5	7.7	84	0.010	0.0385	0.114
40386729		1115	11.3	0.77	635	2.9	7.6	70	0.010	0.0285	0.063

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
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 THUNDER BAY ON P7E 4X4

Page: 4 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40386730		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386731		2.73	45.0	20.4	11.25	10.40	8.13	2.03	0.34	0.018	0.81	0.11	0.09	0.04	0.01	100.44
40386732		3.85	44.5	20.8	9.94	10.70	8.60	1.86	0.26	0.020	0.66	0.09	0.08	0.04	0.01	100.14
40386733		2.99	45.7	21.5	8.60	11.35	6.92	2.16	0.31	0.013	0.91	0.10	0.10	0.04	0.01	99.98
40386734		4.99	45.1	22.9	6.53	11.50	7.02	1.97	0.31	0.017	0.57	0.07	0.07	0.04	0.01	100.28
40386735		5.76	45.4	24.2	6.26	12.00	5.70	2.25	0.48	0.031	0.62	0.07	0.07	0.05	0.02	100.06
40386736		6.58	45.5	17.30	11.65	9.30	12.90	1.87	0.24	0.037	0.90	0.13	0.11	0.03	0.01	100.55
40386737		6.34	44.3	17.60	10.85	9.45	11.95	1.88	0.26	0.037	0.88	0.12	0.10	0.03	0.01	98.20
40386738		6.13	44.8	17.75	11.05	9.44	12.30	1.87	0.23	0.035	0.86	0.12	0.10	0.03	0.01	99.19
40386739		6.16	44.8	18.15	10.90	9.63	12.45	1.87	0.21	0.034	0.84	0.12	0.11	0.03	0.01	99.45
40386740		6.08	45.0	18.80	10.85	9.82	12.35	1.95	0.27	0.044	0.82	0.13	0.10	0.03	0.01	100.61
40386741		1.78	59.5	18.60	6.83	6.16	2.47	3.72	2.43	0.002	0.84	0.09	0.26	0.07	0.10	101.44
40386742		6.47	45.6	19.15	10.35	10.00	11.70	1.87	0.21	0.031	0.81	0.12	0.09	0.03	0.01	100.42
40386743		6.17	46.2	21.1	9.09	11.05	9.55	1.95	0.21	0.029	0.79	0.10	0.11	0.04	0.01	100.65
40386744		6.53	46.3	21.8	8.65	11.30	9.03	1.93	0.21	0.025	0.73	0.10	0.10	0.04	0.01	100.98
40386745		6.06	45.4	21.2	8.63	11.00	9.12	1.94	0.23	0.027	0.75	0.10	0.10	0.04	0.01	99.48
40386746		6.15	45.9	21.7	8.61	11.10	8.79	1.96	0.20	0.026	0.75	0.10	0.09	0.04	0.01	99.97
40386747		6.17	44.9	21.4	8.76	11.05	8.62	1.89	0.19	0.023	0.68	0.10	0.08	0.04	0.01	98.22
40386748		6.17	45.1	20.4	9.66	10.55	9.10	1.98	0.23	0.023	0.77	0.11	0.08	0.04	0.01	98.63
40386749		6.19	45.0	20.4	10.05	10.35	10.20	1.90	0.20	0.023	0.59	0.11	0.08	0.04	0.01	99.39
40386750		6.02	45.2	21.4	8.81	11.10	9.25	1.87	0.19	0.023	0.62	0.10	0.08	0.04	0.01	99.11
40386751		0.17	45.4	18.80	12.20	9.28	7.49	2.04	1.04	0.343	1.26	0.14	0.16	0.05	0.04	100.11
40386752		6.48	44.3	19.25	9.80	9.94	12.20	1.73	0.18	0.024	0.61	0.11	0.08	0.03	0.01	99.14
40386753		6.13	44.8	18.25	10.35	9.50	13.90	1.70	0.18	0.026	0.65	0.12	0.09	0.03	0.01	100.78
40386754		6.37	44.5	18.80	9.74	9.89	12.95	1.66	0.21	0.029	0.64	0.11	0.08	0.03	0.01	99.67
40386755		6.28	42.9	13.45	13.05	7.28	19.60	1.26	0.20	0.029	0.62	0.14	0.10	0.02	0.01	100.57
40386756		6.18	42.7	15.25	11.70	8.08	17.20	1.46	0.17	0.029	0.59	0.13	0.08	0.03	0.01	98.71
40386757		6.26	43.0	14.75	12.10	7.84	18.35	1.42	0.17	0.028	0.59	0.14	0.08	0.03	0.01	100.11
40386758		6.22	44.1	16.70	11.05	8.74	16.10	1.54	0.19	0.026	0.61	0.12	0.07	0.03	0.01	100.99
40386759		6.28	44.0	15.50	11.85	8.28	17.50	1.49	0.16	0.030	0.64	0.13	0.08	0.03	0.01	101.02
40386760		2.87	45.5	19.00	9.90	9.89	13.20	1.74	0.18	0.024	0.66	0.11	0.09	0.03	0.01	101.04
40386761		2.81	45.5	19.20	9.81	9.98	13.15	1.75	0.18	0.027	0.64	0.11	0.09	0.03	0.01	101.17
40386762		5.95	46.0	19.85	9.55	10.35	11.50	1.85	0.21	0.029	0.75	0.11	0.09	0.03	0.01	100.91
40386763		6.52	45.9	19.70	9.77	10.25	11.55	1.84	0.24	0.032	0.75	0.11	0.10	0.03	0.01	100.75
40386764		6.32	45.5	19.20	10.95	10.05	10.25	2.02	0.29	0.029	1.00	0.13	0.14	0.03	0.01	99.80
40386765		6.32	46.2	20.1	10.40	10.65	9.33	2.01	0.22	0.052	0.75	0.12	0.10	0.03	0.01	99.98
40386766		6.19	45.7	21.2	8.45	11.35	7.93	2.06	0.22	0.065	0.76	0.10	0.08	0.04	0.01	98.23
40386767		6.10	45.9	21.0	8.52	11.35	8.23	2.06	0.22	0.075	0.79	0.10	0.09	0.04	0.01	98.77
40386768		6.05	45.2	19.50	9.27	10.50	10.30	1.92	0.22	0.027	0.77	0.11	0.09	0.04	0.01	98.63
40386769		6.23	46.5	19.70	9.46	10.65	10.70	1.99	0.21	0.029	0.80	0.11	0.10	0.03	0.01	100.44
40386769		6.32	45.8	19.45	9.37	10.45	10.55	2.00	0.22	0.029	0.79	0.11	0.09	0.03	0.01	99.29

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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Page: 4 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	LOI	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Units		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386730		1.81	<0.01	0.75	112.5	15.1	140	2.16	2.39	1.28	1.23	17.9	2.42	1.6	0.48	6.9
40386731		2.58	0.01	0.53	90.3	13.0	160	2.25	1.91	1.12	1.06	17.7	1.80	1.4	0.44	5.9
40386732		2.27	0.01	0.12	109.5	16.6	100	1.70	2.78	1.43	1.00	18.5	2.37	1.7	0.48	7.6
40386733		4.17	0.02	0.07	102.5	12.5	140	2.00	1.82	1.09	0.88	19.5	1.87	1.2	0.34	6.0
40386734		2.91	<0.01	0.01	129.0	12.1	230	2.58	1.88	1.01	0.93	18.3	1.57	1.1	0.30	5.5
40386735		0.57	<0.01	0.03	101.5	17.1	280	0.68	2.70	1.27	0.94	16.7	2.54	1.9	0.49	7.9
40386736		0.73	<0.01	0.02	102.0	16.8	280	0.82	2.39	1.32	0.99	16.5	2.09	1.6	0.51	7.7
40386737		0.59	<0.01	0.03	92.5	16.5	250	0.38	2.51	1.45	0.87	16.1	2.15	1.8	0.47	7.6
40386738		0.30	<0.01	0.02	96.7	16.7	250	0.13	2.40	1.40	0.97	16.4	2.30	1.8	0.48	7.5
40386739		0.44	<0.01	0.02	105.5	17.7	270	0.10	2.63	1.43	0.96	17.4	2.68	1.8	0.56	8.1
40386740		0.37	0.04	0.09	848	72.0	20	1.36	6.11	3.37	1.77	23.2	7.28	6.7	1.19	32.3
40386741		0.45	0.01	0.02	93.6	16.5	220	0.28	2.27	1.43	0.92	16.6	2.45	1.6	0.49	7.6
40386742		0.42	<0.01	0.03	99.6	16.3	220	0.65	2.09	1.52	0.84	17.8	2.50	1.6	0.44	7.3
40386743		0.75	<0.01	0.02	97.0	14.9	180	0.83	2.18	1.19	0.83	17.2	2.20	1.5	0.44	6.8
40386744		0.93	0.01	0.03	98.5	16.0	210	0.89	2.20	1.36	0.72	17.2	2.56	1.6	0.42	7.4
40386745		0.69	<0.01	0.02	93.7	15.5	190	0.59	2.17	1.32	0.96	16.6	2.23	1.5	0.48	7.2
40386746		0.48	<0.01	0.02	95.2	15.1	180	0.56	2.02	1.24	0.84	17.4	2.12	1.4	0.45	6.6
40386747		0.58	<0.01	0.03	100.5	13.7	170	0.70	1.72	1.27	0.95	17.0	1.97	1.3	0.39	6.4
40386748		0.44	<0.01	0.03	80.9	10.9	170	0.39	1.48	0.86	0.80	15.8	1.54	1.0	0.32	5.1
40386749		0.42	<0.01	0.03	84.6	12.4	170	0.23	1.80	0.93	0.75	17.4	1.85	1.2	0.33	5.7
40386750		1.87	0.04	0.34	332	29.4	2390	2.70	3.72	2.34	1.31	20.3	4.09	2.6	0.76	13.6
40386751		0.88	<0.01	0.01	83.6	13.4	180	0.18	1.85	1.07	0.81	16.1	1.91	1.1	0.38	6.2
40386752		1.17	0.01	0.02	82.5	14.0	190	0.29	2.10	0.93	0.75	15.0	1.76	1.1	0.40	6.5
40386753		1.02	<0.01	0.01	78.4	12.8	200	0.53	1.98	1.22	0.80	14.2	2.00	1.2	0.34	6.0
40386754		1.91	0.01	0.02	73.2	13.2	220	0.81	1.92	1.12	0.70	11.9	2.02	1.4	0.36	6.2
40386755		1.28	<0.01	0.02	73.2	12.4	210	0.29	1.77	1.01	0.62	12.2	1.92	1.3	0.38	5.7
40386756		1.60	0.01	0.04	72.7	12.7	210	0.34	1.79	1.07	0.78	13.1	1.85	1.2	0.33	5.6
40386757		1.70	<0.01	0.04	74.4	12.9	190	0.49	1.85	1.00	0.70	13.2	1.69	1.1	0.35	6.0
40386758		1.32	<0.01	0.03	78.0	12.8	210	0.22	1.77	1.13	0.67	13.7	1.76	1.3	0.35	5.8
40386759		0.71	<0.01	0.03	85.2	13.7	170	0.20	1.93	1.12	0.86	14.5	1.93	1.4	0.38	6.4
40386760		0.69	<0.01	0.03	84.0	13.6	190	0.27	2.08	1.19	0.79	14.2	1.91	1.3	0.41	6.2
40386761		0.58	<0.01	0.04	91.8	15.5	210	0.41	2.16	1.10	0.90	15.9	2.40	1.6	0.43	7.2
40386762		0.47	<0.01	0.04	97.7	17.7	230	0.55	2.48	1.18	0.93	15.7	2.48	1.6	0.55	8.2
40386763		0.20	<0.01	0.05	136.5	25.3	220	0.55	3.34	1.58	0.99	17.0	3.21	2.4	0.66	11.1
40386764		0.01	<0.01	0.05	102.5	17.4	370	0.28	2.24	1.23	0.97	17.9	2.08	1.6	0.48	7.7
40386765		0.26	<0.01	0.04	98.9	16.1	460	0.32	2.09	1.19	0.85	18.2	2.12	1.5	0.45	6.8
40386766		0.38	<0.01	0.04	100.0	16.1	530	0.40	2.25	1.21	0.79	17.5	2.46	1.3	0.48	7.3
40386767		0.67	<0.01	0.04	99.4	16.9	210	0.43	2.05	1.16	0.74	18.9	2.06	1.7	0.50	7.8
40386768		0.15	<0.01	0.04	101.0	16.4	210	0.16	2.13	1.32	0.86	17.6	2.42	1.7	0.43	7.3
40386769		0.39	<0.01	0.04	105.5	17.1	220	0.30	2.11	1.04	0.85	17.0	2.63	1.5	0.48	7.6

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - C  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386730		0.17	4.6	8.5	1.90	9.7	1.99	1	337	0.1	0.40	0.63	0.18	0.23	128	<1
40386731		0.14	3.9	7.6	1.76	6.9	1.74	1	328	0.1	0.29	0.46	0.16	0.14	101	1
40386732		0.19	4.8	9.7	2.18	9.3	2.36	1	342	0.2	0.40	0.71	0.20	0.20	128	<1
40386733		0.08	3.3	7.0	1.64	11.8	1.86	<1	395	0.1	0.28	0.50	0.14	0.16	89	1
40386734		0.12	3.5	6.9	1.59	19.7	1.65	<1	386	0.1	0.29	0.55	0.12	0.13	85	<1
40386735		0.20	5.1	9.6	2.15	6.4	2.33	<1	251	0.2	0.41	0.69	0.23	0.19	125	<1
40386736		0.22	5.3	9.9	2.17	7.2	2.24	1	254	0.2	0.37	0.73	0.20	0.16	123	<1
40386737		0.16	4.9	9.2	2.15	5.5	2.16	1	245	0.2	0.38	0.71	0.21	0.19	113	6
40386738		0.19	4.9	10.0	2.17	4.5	2.26	<1	254	0.2	0.36	0.80	0.16	0.19	111	<1
40386739		0.16	5.2	10.6	2.49	5.4	2.56	1	278	0.2	0.42	0.78	0.22	0.20	121	<1
40386740		0.43	11.9	37.2	9.33	99.9	7.75	2	571	0.5	1.06	5.48	0.53	1.67	125	2
40386741		0.18	4.6	9.1	2.12	4.9	2.36	1	263	0.2	0.39	0.72	0.14	0.15	104	<1
40386742		0.19	4.8	9.2	2.17	4.7	2.02	1	303	0.2	0.32	0.76	0.21	0.15	106	<1
40386743		0.20	4.0	8.3	2.01	5.1	2.28	<1	303	0.2	0.33	0.61	0.20	0.15	96	<1
40386744		0.19	4.6	9.0	2.02	5.7	2.32	1	303	0.2	0.34	0.59	0.16	0.14	102	<1
40386745		0.15	4.3	9.1	2.05	4.3	1.97	1	298	0.1	0.36	0.71	0.16	0.16	96	<1
40386746		0.15	4.1	8.8	1.97	4.2	2.13	<1	306	0.1	0.34	0.61	0.16	0.17	96	<1
40386747		0.16	4.0	8.2	1.79	5.6	1.99	<1	291	0.1	0.31	0.62	0.17	0.14	112	<1
40386748		0.10	3.0	6.2	1.49	4.4	1.59	<1	273	0.1	0.23	0.46	0.12	0.11	80	<1
40386749		0.10	3.3	7.1	1.67	3.7	1.63	<1	282	<0.1	0.26	0.55	0.15	0.11	85	<1
40386750		0.27	7.3	16.6	3.95	34.2	3.57	2	399	0.4	0.59	1.99	0.28	0.38	185	<1
40386751		0.15	3.5	7.7	1.75	3.9	1.80	1	271	0.1	0.29	0.63	0.15	0.14	86	<1
40386752		0.15	3.8	7.8	1.74	4.3	1.99	<1	250	0.1	0.34	0.63	0.15	0.10	89	<1
40386753		0.16	3.3	7.4	1.73	5.1	1.98	1	253	0.1	0.27	0.47	0.14	0.13	84	<1
40386754		0.16	3.6	7.5	1.63	5.7	1.95	1	188.5	0.1	0.30	0.57	0.13	0.13	83	<1
40386755		0.14	3.2	7.2	1.62	3.9	1.63	1	205	0.1	0.26	0.47	0.12	0.15	78	<1
40386756		0.12	3.4	7.3	1.57	3.9	1.39	<1	207	0.1	0.27	0.47	0.13	0.12	82	<1
40386757		0.13	3.7	7.4	1.71	4.5	1.65	1	223	0.1	0.28	0.57	0.14	0.09	85	<1
40386758		0.13	3.7	7.3	1.75	3.5	1.81	<1	216	0.1	0.29	0.56	0.17	0.37	87	<1
40386759		0.18	3.8	8.4	1.81	4.0	1.94	1	259	0.2	0.28	0.60	0.13	0.19	86	<1
40386760		0.15	3.6	8.1	1.86	3.8	1.92	<1	255	0.1	0.32	0.62	0.18	0.19	85	<1
40386761		0.15	4.3	9.6	2.03	5.3	2.22	1	270	0.1	0.30	0.68	0.18	0.16	99	<1
40386762		0.19	4.8	9.9	2.26	6.3	2.39	1	276	0.1	0.36	0.78	0.19	0.19	102	<1
40386763		0.25	6.9	14.0	3.21	8.1	3.05	1	284	0.5	0.51	1.11	0.22	0.25	124	<1
40386764		0.13	4.2	10.0	2.21	4.6	2.13	<1	289	0.3	0.35	0.68	0.16	0.19	98	<1
40386765		0.11	4.2	8.5	2.06	4.9	2.43	1	307	0.2	0.30	0.65	0.14	0.11	96	<1
40386766		0.14	4.2	9.0	2.17	4.9	2.22	1	310	0.2	0.32	0.64	0.17	0.12	101	<1
40386767		0.13	4.3	9.3	2.22	5.3	2.35	1	295	0.3	0.39	0.58	0.13	0.17	90	1
40386768		0.12	4.2	9.8	2.13	4.5	1.82	1	281	0.3	0.40	0.58	0.15	0.14	99	<1
40386769		0.14	4.4	9.4	2.24	5.4	2.39	<1	286	0.3	0.32	0.66	0.16	0.14	100	3

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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





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Page: 4 - D  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386730		12.0	1.11	64	4.6	0.26	0.007	0.048	0.008	0.08	1.9	0.07	0.05	0.47	0.40	98.9
40386731		10.0	0.91	53	4.8	0.16	<0.005	0.035	0.014	0.07	2.1	0.07	0.05	0.59	0.35	98.5
40386732		13.2	1.35	67	2.4	0.03	<0.005	0.015	0.003	0.05	0.6	0.02	0.03	0.23	0.10	46.0
40386733		9.6	0.85	49	0.3	0.03	<0.005	0.012	0.002	<0.05	0.6	0.06	0.03	0.18	0.05	38.1
40386734		9.4	0.71	47	0.7	0.01	<0.005	0.012	0.001	<0.05	0.4	0.01	<0.02	0.03	0.04	30.0
40386735		13.4	1.24	69	1.3	0.01	<0.005	0.017	0.001	<0.05	<0.2	0.01	0.03	0.07	0.08	69.8
40386736		13.3	1.34	68	1.1	0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.02	0.05	0.06	69.4
40386737		12.8	1.27	70	0.7	<0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.02	0.05	0.06	68.9
40386738		13.1	1.32	71	0.2	0.01	<0.005	0.016	0.001	<0.05	0.3	0.02	0.02	0.04	0.06	71.3
40386739		13.6	1.34	75	0.3	<0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.02	0.04	0.05	67.5
40386740		33.9	3.16	276	0.3	0.02	<0.005	0.026	0.001	<0.05	<0.2	0.02	0.37	0.04	0.08	17.5
40386741		12.3	1.26	68	0.4	<0.01	<0.005	0.014	0.001	<0.05	0.3	0.01	0.02	0.04	0.05	65.1
40386742		12.5	1.18	65	0.1	<0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.02	0.04	0.05	56.3
40386743		11.1	1.16	59	0.3	<0.01	<0.005	0.013	0.001	<0.05	0.2	0.01	0.02	0.04	0.05	51.8
40386744		11.4	1.15	58	0.3	0.01	<0.005	0.013	0.001	<0.05	0.2	0.01	0.02	0.03	0.05	53.5
40386745		11.3	1.17	61	0.3	<0.01	<0.005	0.014	<0.001	<0.05	0.2	0.01	0.02	0.04	0.05	51.3
40386746		10.9	1.05	55	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.02	0.04	0.05	49.7
40386747		10.6	0.99	58	0.5	0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.02	0.06	0.05	57.3
40386748		8.1	0.81	41	0.5	0.01	<0.005	0.015	0.001	<0.05	0.4	0.01	0.02	0.04	0.06	60.9
40386749		9.2	0.86	45	0.3	0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.02	0.03	0.06	53.9
40386750		19.7	1.78	103	6.1	0.15	0.016	0.032	0.003	0.73	1.3	0.08	0.45	0.47	0.27	66.8
40386751		9.4	0.86	48	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.3	0.01	0.02	0.03	0.04	68.3
40386752		9.9	0.89	50	0.3	<0.01	<0.005	0.016	<0.001	0.07	0.3	0.01	0.02	0.04	0.04	74.0
40386753		9.1	0.98	46	0.4	<0.01	<0.005	0.012	<0.001	0.05	0.3	0.01	0.02	0.03	0.03	71.0
40386754		10.0	0.97	50	0.8	0.01	<0.005	0.018	<0.001	<0.05	0.2	<0.01	0.02	0.04	0.07	99.3
40386755		9.0	0.89	48	0.2	<0.01	<0.005	0.018	<0.001	<0.05	<0.2	0.01	0.02	0.02	0.06	91.3
40386756		9.3	0.99	51	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.02	0.03	0.06	94.7
40386757		9.3	0.96	49	0.2	<0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.02	0.04	0.05	83.6
40386758		9.2	0.85	54	0.2	<0.01	<0.005	0.014	<0.001	<0.05	0.2	0.01	<0.02	0.03	0.04	90.4
40386759		10.2	0.98	54	0.2	<0.01	<0.005	0.014	<0.001	<0.05	0.2	0.01	0.02	0.04	0.05	70.4
40386760		10.5	0.86	54	0.3	<0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.02	0.04	0.06	71.5
40386761		11.3	1.03	58	0.3	0.01	<0.005	0.013	<0.001	<0.05	0.2	0.01	0.02	0.04	0.06	62.2
40386762		12.7	1.10	66	0.3	<0.01	<0.005	0.016	<0.001	<0.05	0.4	0.01	0.02	0.04	0.07	63.2
40386763		17.0	1.56	99	0.5	0.01	<0.005	0.017	<0.001	<0.05	0.3	0.01	0.03	0.05	0.07	63.9
40386764		11.6	1.22	66	0.2	0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.02	0.05	0.05	56.4
40386765		11.0	1.01	55	0.2	0.01	<0.005	0.012	0.001	<0.05	0.4	0.01	0.02	0.04	0.07	45.4
40386766		11.2	1.11	60	0.3	<0.01	<0.005	0.015	<0.001	<0.05	0.4	0.02	0.02	0.04	0.07	48.0
40386767		11.7	1.26	62	1.4	0.01	<0.005	0.013	<0.001	<0.05	0.3	0.01	0.02	0.05	0.10	58.3
40386768		11.2	1.17	63	0.3	<0.01	<0.005	0.013	<0.001	<0.05	0.5	0.01	0.02	0.04	0.06	61.6
40386769		12.0	1.19	62	0.5	<0.01	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.02	0.28	0.09	60.5

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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





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Page: 4 - E  
 Total # Pages: 6 (A - E)  
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 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386730		1065	10.5	0.83	614	2.9	11.2	70	0.008	0.0251	0.059
40386731		1355	12.9	0.65	779	3.8	7.3	65	0.005	0.0283	0.068
40386732		585	9.6	0.59	349	1.3	10.3	64	0.009	0.0143	0.026
40386733		499	14.1	0.39	458	2.4	6.2	44	0.004	0.0541	0.084
40386734		63.4	10.1	0.52	252	0.8	5.7	43	<0.001	0.0078	0.015
40386735		106.5	8.6	0.67	570	1.1	12.8	86	0.001	0.0032	0.004
40386736		90.8	9.3	0.65	531	1.7	11.1	79	0.002	0.0028	0.004
40386737		98.1	5.5	0.65	541	1.1	10.5	76	0.001	0.0009	0.002
40386738		103.5	4.3	0.60	544	1.2	10.5	75	0.004	0.0037	0.009
40386739		88.8	4.4	0.69	534	1.0	10.7	71	0.002	0.0021	0.003
40386740		19.0	18.6	1.09	13.8	11.4	15.2	87	0.004	0.0014	0.001
40386741		94.7	4.2	0.65	503	0.9	11.5	70	0.001	0.0019	0.002
40386742		93.7	5.0	0.60	410	0.9	9.7	63	0.003	0.0040	0.007
40386743		75.6	6.0	0.65	401	0.8	8.9	60	0.002	0.0038	0.010
40386744		78.9	5.9	0.63	389	1.0	9.1	60	0.002	0.0081	0.010
40386745		78.6	4.5	0.66	380	0.9	8.3	60	0.002	0.0035	0.006
40386746		80.7	5.0	0.60	374	1.0	7.8	63	0.002	0.0037	0.007
40386747		96.9	7.0	0.60	406	1.1	10.0	72	0.002	0.0030	0.006
40386748		102.0	7.5	0.55	462	1.1	7.7	68	0.002	0.0036	0.007
40386749		71.0	5.7	0.57	433	1.0	7.6	65	0.004	0.0043	0.007
40386750		1125	36.2	2.92	697	6.1	17.4	106	0.020	0.0413	0.218
40386751		75.7	5.3	0.68	589	0.9	9.4	68	0.002	0.0029	0.006
40386752		72.7	8.4	0.57	670	0.9	7.9	68	0.002	0.0033	0.008
40386753		65.0	11.5	0.52	642	0.9	8.6	65	0.002	0.0089	0.011
40386754		71.9	12.0	0.50	1000	1.3	9.7	87	0.002	0.0043	0.007
40386755		67.8	8.3	0.52	891	1.1	8.0	78	0.002	0.0033	0.008
40386756		68.4	11.1	0.48	965	1.3	7.7	82	0.002	0.0030	0.006
40386757		65.4	8.8	0.54	837	1.0	7.7	72	0.002	0.0028	0.005
40386758		71.5	6.3	0.51	918	1.0	8.1	78	0.002	0.0031	0.005
40386759		76.1	5.9	0.57	677	1.2	7.7	67	0.002	0.0047	0.010
40386760		77.2	6.4	0.57	691	1.2	7.4	68	0.002	0.0030	0.008
40386761		77.8	8.6	0.60	574	1.4	9.5	67	0.002	0.0062	0.008
40386762		83.5	7.7	0.64	575	1.2	9.8	68	0.002	0.0051	0.010
40386763		119.5	7.1	0.81	481	1.9	10.0	81	0.003	0.0048	0.007
40386764		119.5	5.4	0.56	411	1.5	9.2	77	0.003	0.0069	0.007
40386765		84.8	4.2	0.75	360	1.0	7.5	64	0.002	0.0035	0.005
40386766		100.5	4.7	0.63	383	0.9	10.3	63	0.002	0.0049	0.007
40386767		88.1	6.0	0.58	494	4.5	9.3	71	0.002	0.0029	0.005
40386768		89.2	4.0	0.68	510	1.0	10.7	67	0.002	0.0038	0.007
40386769		90.9	6.5	0.61	508	1.5	10.3	69	0.002	0.0036	0.007

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40386770		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386771		2.46	58.8	17.05	6.91	5.65	2.47	3.55	2.60	0.003	0.87	0.10	0.30	0.06	0.11	98.76
40386772		6.24	45.7	19.20	9.29	10.45	10.65	1.97	0.22	0.032	0.77	0.11	0.09	0.03	0.01	98.90
40386773		6.21	45.6	19.20	9.49	10.45	10.85	1.94	0.20	0.034	0.79	0.11	0.09	0.03	0.01	98.98
40386774		6.34	46.3	19.25	9.54	10.50	10.95	1.98	0.22	0.034	0.80	0.11	0.09	0.03	0.01	100.01
40386775		6.47	46.7	19.35	9.83	10.45	11.30	1.99	0.22	0.033	0.80	0.12	0.10	0.03	0.01	100.95
40386776		6.31	45.7	18.70	9.93	10.10	11.45	1.94	0.22	0.032	0.80	0.12	0.09	0.03	0.01	99.10
40386777		6.16	45.8	18.75	9.82	10.15	11.25	1.95	0.22	0.032	0.80	0.12	0.12	0.03	0.01	99.06
40386778		6.31	46.2	19.00	9.90	10.30	11.35	1.97	0.22	0.033	0.85	0.12	0.10	0.03	0.01	100.13
40386779		5.81	45.6	18.35	10.10	10.05	11.75	1.88	0.25	0.034	0.83	0.12	0.10	0.03	0.01	100.07
40386780		6.58	45.1	18.00	9.98	9.75	11.65	1.87	0.22	0.036	0.81	0.12	0.10	0.03	0.01	98.52
40386781		0.17	44.6	18.30	11.90	9.24	7.42	2.07	1.03	0.338	1.29	0.14	0.16	0.05	0.04	98.49
40386782		6.62	45.7	18.25	9.99	9.79	11.70	1.96	0.24	0.038	0.82	0.12	0.09	0.03	0.01	99.18
40386783		6.16	45.4	18.05	10.20	9.83	12.05	1.84	0.24	0.041	0.84	0.12	0.10	0.03	0.01	99.63
40386784		6.42	46.0	18.25	10.30	9.97	12.25	1.87	0.24	0.043	0.84	0.12	0.10	0.03	0.01	100.56
40386785		6.23	44.9	17.95	10.05	9.76	11.75	1.86	0.24	0.045	0.83	0.12	0.09	0.03	0.01	98.12
40386786		6.46	46.2	18.90	9.86	10.25	11.20	1.95	0.23	0.053	0.86	0.12	0.10	0.03	0.01	99.94
40386787		6.44	45.8	18.85	9.89	10.25	10.95	1.97	0.23	0.053	0.86	0.12	0.10	0.03	0.01	99.13
40386788		6.20	45.9	18.55	10.25	10.05	11.45	1.92	0.22	0.053	0.87	0.12	0.10	0.03	0.01	100.01
40386789		6.30	45.7	18.35	10.25	9.96	11.55	1.94	0.23	0.090	0.86	0.12	0.10	0.03	0.01	99.58
40386790		2.70	46.1	19.55	9.48	10.55	10.10	2.03	0.22	0.026	0.80	0.11	0.10	0.03	0.01	99.34
40386791		2.77	46.1	19.50	9.55	10.50	10.15	2.03	0.23	0.025	0.81	0.11	0.10	0.03	0.01	99.30
40386792		6.11	45.7	19.10	9.46	10.45	9.84	2.00	0.26	0.026	0.86	0.11	0.09	0.03	0.01	99.11
40386793		6.12	45.2	18.95	9.57	10.40	9.89	1.97	0.25	0.025	0.86	0.11	0.10	0.03	0.01	98.33
40386794		6.27	45.3	18.55	9.97	10.10	10.50	1.98	0.23	0.025	0.89	0.12	0.10	0.03	0.01	98.17
40386795		6.20	45.3	18.70	9.87	10.35	10.10	1.94	0.25	0.026	0.89	0.12	0.10	0.03	0.01	98.58
40386796		6.43	45.9	18.65	10.15	10.20	10.45	2.03	0.25	0.028	0.94	0.12	0.11	0.03	0.01	99.09
40386797		6.01	46.3	18.55	10.35	10.20	10.65	2.06	0.25	0.039	0.95	0.12	0.12	0.03	0.01	99.55
40386798		6.48	46.6	18.70	10.35	10.20	10.20	2.03	0.27	0.045	0.99	0.12	0.13	0.03	0.01	99.72
40386799		6.38	46.6	18.65	10.45	10.05	9.83	2.00	0.33	0.056	1.02	0.13	0.14	0.03	0.01	99.52
40386800		6.66	46.8	18.75	10.85	10.15	9.34	2.07	0.31	0.066	0.99	0.13	0.13	0.03	0.01	100.06
40386801		1.59	57.3	18.70	7.68	6.46	2.71	3.79	2.33	0.003	0.99	0.11	0.31	0.07	0.09	101.00
40386802		5.99	47.0	18.60	10.80	10.10	9.11	2.11	0.33	0.077	1.13	0.13	0.15	0.03	0.01	100.04
40386803		6.49	47.2	18.95	10.55	10.25	9.62	2.04	0.31	0.073	0.91	0.13	0.11	0.03	0.01	100.73
40386804		6.30	47.2	18.90	10.75	10.30	9.58	2.13	0.28	0.072	0.97	0.13	0.13	0.03	0.01	100.63
40386805		6.41	47.0	18.55	11.25	10.35	9.37	2.21	0.39	0.078	1.10	0.14	0.13	0.03	0.01	101.48
40386806		3.54	48.0	18.65	11.05	10.30	9.14	2.18	0.35	0.076	1.01	0.14	0.15	0.03	0.01	101.55
40386807		3.44	47.0	17.30	11.80	9.73	9.16	2.19	0.38	0.150	1.18	0.15	0.15	0.03	0.01	99.63
40386808		2.78	30.3	22.4	18.05	7.05	9.02	1.44	0.24	6.28	1.32	0.15	0.09	0.02	0.01	97.10
40386809		1.75	44.3	21.1	10.10	10.75	8.85	1.74	0.27	0.116	0.67	0.09	0.09	0.04	0.01	99.48
40386809		2.37	45.9	21.3	8.99	11.00	8.77	1.84	0.33	0.027	0.67	0.09	0.08	0.03	0.01	100.89

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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Page: 5 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386770		0.29	0.04	0.10	1005	61.7	30	1.24	5.55	3.39	1.62	22.0	7.08	6.4	1.18	26.4
40386771		0.38	<0.01	0.04	102.0	16.1	240	0.38	2.11	1.33	0.89	16.0	2.56	1.6	0.44	7.3
40386772		0.19	<0.01	0.04	98.7	16.4	260	0.31	2.12	1.18	0.83	18.0	2.08	1.7	0.44	7.3
40386773		0.20	<0.01	0.04	106.0	16.9	250	0.35	2.41	1.16	0.73	16.2	2.48	1.5	0.54	7.7
40386774		0.02	<0.01	0.05	108.0	16.7	240	0.19	2.17	1.27	0.89	16.6	2.14	1.9	0.49	7.7
40386775		-0.02	<0.01	0.05	103.5	17.1	240	0.15	2.13	1.21	0.71	15.8	2.27	1.6	0.51	7.5
40386776		0.01	<0.01	0.04	103.5	21.2	230	0.21	2.30	1.20	0.91	16.7	2.43	1.5	0.52	9.4
40386777		0.05	0.01	0.04	108.5	18.6	250	0.41	2.37	1.31	0.90	17.4	2.83	1.6	0.53	8.5
40386778		0.97	0.01	0.04	101.0	17.8	250	0.98	2.66	1.26	0.82	16.2	2.22	1.6	0.46	7.7
40386779		0.84	<0.01	0.05	104.0	17.1	260	0.65	2.31	1.16	0.81	16.1	2.36	1.8	0.46	7.4
40386780		1.91	0.03	0.35	345	28.4	2270	2.60	3.36	2.13	1.10	19.7	3.74	2.5	0.74	12.5
40386781		0.44	<0.01	0.06	107.0	17.6	270	0.42	2.22	1.36	0.72	16.7	2.61	1.4	0.44	7.8
40386782		0.88	0.01	0.04	105.5	17.2	300	0.95	2.29	1.33	0.81	16.5	2.12	1.6	0.43	7.7
40386783		0.54	0.01	0.05	109.0	18.6	330	0.71	2.50	1.29	0.97	16.8	2.53	1.6	0.48	8.2
40386784		0.48	0.01	0.04	110.0	18.4	340	0.66	2.38	1.17	0.82	16.6	2.44	1.7	0.50	7.8
40386785		0.18	<0.01	0.04	109.0	18.2	390	0.76	2.63	1.29	0.86	16.8	2.55	1.5	0.45	8.3
40386786		0.02	<0.01	0.05	107.5	18.5	400	0.51	2.68	1.45	1.00	17.0	2.86	1.7	0.47	8.2
40386787		0.49	0.01	0.05	97.8	17.1	360	0.85	2.47	1.26	0.95	15.6	2.34	1.8	0.45	7.9
40386788		0.39	<0.01	0.06	102.0	17.3	610	0.66	2.22	1.28	0.79	16.0	2.18	1.4	0.55	7.5
40386789		0.23	0.01	0.05	110.0	16.9	190	0.61	2.51	1.34	0.80	16.7	2.47	1.6	0.46	7.7
40386790		0.15	<0.01	0.05	102.0	16.4	170	0.68	2.27	1.28	0.85	16.9	2.04	1.4	0.48	7.3
40386791		1.17	<0.01	0.04	122.5	17.1	190	1.17	2.17	1.38	0.83	16.6	2.18	1.6	0.46	7.4
40386792		0.96	0.01	0.04	137.5	17.4	180	0.94	2.51	1.39	0.86	15.8	2.78	1.6	0.50	8.0
40386793		0.36	0.01	0.04	104.5	18.7	190	0.75	2.43	1.18	0.90	17.3	2.46	1.8	0.57	8.2
40386794		0.89	<0.01	0.04	111.0	19.2	200	1.07	2.54	1.64	0.86	17.1	2.95	1.9	0.52	8.7
40386795		0.22	0.01	0.04	119.5	20.4	220	0.71	2.67	1.42	0.96	18.3	2.80	2.0	0.55	9.3
40386796		-0.08	<0.01	0.05	118.0	20.3	290	0.40	3.10	1.44	1.05	18.3	3.03	1.9	0.60	9.1
40386797		0.04	0.01	0.04	116.0	20.4	350	0.69	2.91	1.70	1.07	17.1	2.86	2.0	0.50	9.2
40386798		0.22	<0.01	0.06	120.0	20.9	410	0.91	2.77	1.75	1.01	16.9	3.22	2.2	0.58	9.5
40386799		0.43	0.01	0.06	122.5	20.5	510	1.08	2.79	1.61	1.10	17.2	2.99	1.9	0.52	9.4
40386800		0.46	0.04	0.11	801	72.5	30	1.32	6.28	3.52	1.73	21.2	7.98	6.7	1.29	32.1
40386801		0.46	<0.01	0.06	129.0	23.5	580	1.04	3.22	1.68	1.08	17.5	2.91	2.4	0.63	10.5
40386802		0.55	<0.01	0.05	114.5	18.8	540	1.17	2.55	1.52	0.88	16.2	2.51	1.6	0.48	8.5
40386803		0.15	<0.01	0.05	118.0	20.9	560	0.83	2.76	1.55	1.03	18.2	3.09	2.2	0.58	9.6
40386804		0.87	0.01	0.05	121.5	21.4	550	1.39	2.99	1.72	0.92	16.7	2.91	2.0	0.66	9.5
40386805		0.46	0.01	0.05	123.5	21.4	560	1.37	2.78	1.72	0.96	16.8	2.96	2.0	0.56	9.7
40386806		0.40	<0.01	0.07	128.0	21.6	1000	1.43	2.82	1.67	1.04	15.9	3.14	2.2	0.60	9.9
40386807		0.73	<0.01	1.44	79.4	14.6	>10000	1.00	2.06	1.06	0.64	38.4	1.87	1.5	0.39	6.7
40386808		1.35	0.07	1.05	87.6	13.4	800	1.51	1.67	1.04	0.67	15.1	1.74	1.3	0.31	6.2
40386809		1.85	0.01	0.59	100.5	14.7	210	1.87	1.85	1.03	0.80	16.9	2.09	1.6	0.39	6.7

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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Page: 5 - C  
 Total # Pages: 6 (A - E)  
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 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386770		0.42	11.1	34.2	8.11	97.1	7.69	2	515	0.7	0.88	3.31	0.41	1.23	116	<1
40386771		0.12	4.1	8.9	2.13	5.3	2.18	1	276	0.3	0.37	0.56	0.14	0.17	97	1
40386772		0.13	4.0	9.3	1.99	4.5	2.24	1	276	0.3	0.39	0.54	0.17	0.14	108	<1
40386773		0.14	4.3	9.8	2.03	5.4	2.26	1	281	0.3	0.35	0.70	0.16	0.15	106	<1
40386774		0.12	4.0	9.9	2.11	4.5	2.41	<1	279	0.3	0.40	0.65	0.14	0.12	104	<1
40386775		0.14	4.6	9.8	2.14	5.0	2.44	1	274	0.3	0.38	0.72	0.14	0.11	101	<1
40386776		0.13	6.6	11.7	2.63	5.1	2.63	1	275	0.3	0.30	0.93	0.13	0.17	108	<1
40386777		0.19	5.2	9.5	2.37	5.3	2.62	1	276	0.3	0.35	0.66	0.15	0.15	113	1
40386778		0.10	4.4	9.8	2.14	6.0	2.18	1	261	0.2	0.39	0.72	0.14	0.18	107	<1
40386779		0.13	4.4	9.4	2.34	5.2	2.39	1	258	0.3	0.38	0.68	0.11	0.18	101	<1
40386780		0.22	7.1	15.4	3.69	35.2	3.98	2	398	0.4	0.57	1.16	0.23	0.30	108	<1
40386781		0.13	4.5	10.9	2.31	6.4	2.18	<1	258	0.3	0.34	0.76	0.17	0.23	101	<1
40386782		0.15	4.6	10.0	2.27	6.3	2.42	1	272	0.3	0.37	0.59	0.13	0.14	101	<1
40386783		0.14	5.0	9.6	2.32	6.1	2.58	1	284	0.4	0.33	0.73	0.18	0.15	112	<1
40386784		0.11	4.7	10.0	2.22	6.3	2.77	1	269	0.3	0.36	0.72	0.17	0.16	110	<1
40386785		0.16	5.2	10.3	2.36	5.9	2.54	1	281	0.4	0.40	0.68	0.17	0.19	108	<1
40386786		0.16	4.7	10.2	2.44	5.8	2.58	1	281	0.3	0.41	0.71	0.14	0.21	110	<1
40386787		0.15	4.7	9.8	2.31	5.0	2.33	1	259	0.3	0.41	0.68	0.13	0.14	97	<1
40386788		0.16	4.4	9.5	2.10	5.8	2.39	<1	258	0.3	0.35	0.61	0.13	0.28	107	<1
40386789		0.13	4.1	9.3	2.02	5.4	2.16	1	288	0.2	0.39	0.67	0.19	0.16	92	<1
40386790		0.13	4.5	8.8	2.18	5.3	2.10	1	277	0.3	0.36	0.55	0.12	0.12	86	<1
40386791		0.12	4.4	9.2	2.10	8.1	2.17	1	276	0.7	0.35	0.65	0.12	0.11	101	1
40386792		0.14	4.6	10.1	2.08	7.1	2.11	1	280	0.2	0.33	0.73	0.15	0.17	104	<1
40386793		0.19	4.8	10.8	2.34	5.9	2.38	1	283	0.3	0.32	0.79	0.15	0.14	107	<1
40386794		0.17	4.5	11.0	2.58	7.1	2.74	1	281	0.3	0.40	0.74	0.16	0.17	114	<1
40386795		0.15	5.2	12.0	2.86	6.6	2.94	1	293	0.3	0.45	0.75	0.17	0.13	122	<1
40386796		0.19	5.3	11.7	2.68	6.2	2.95	1	282	0.3	0.45	0.78	0.22	0.15	123	<1
40386797		0.20	5.2	11.4	2.58	7.3	2.58	1	257	0.4	0.45	0.80	0.19	0.19	127	<1
40386798		0.20	5.7	12.8	2.75	8.7	2.56	1	245	0.4	0.51	0.83	0.23	0.20	132	<1
40386799		0.21	5.2	11.5	2.58	8.5	2.47	1	252	0.4	0.46	0.78	0.20	0.24	133	<1
40386800		0.46	12.4	41.8	9.47	103.5	8.51	2	520	0.8	1.15	4.30	0.48	1.59	133	1
40386801		0.22	6.3	13.3	2.98	9.1	2.70	1	248	0.5	0.53	0.87	0.27	0.27	142	<1
40386802		0.15	4.8	11.0	2.50	9.8	2.33	1	253	0.5	0.40	0.81	0.19	0.18	121	<1
40386803		0.22	5.2	12.3	2.64	8.2	2.76	1	259	0.5	0.46	0.81	0.22	0.23	131	37
40386804		0.19	5.3	12.0	2.74	10.8	2.77	1	242	0.5	0.48	0.85	0.22	0.26	135	<1
40386805		0.20	5.3	12.6	2.85	10.6	2.63	1	241	0.4	0.45	0.83	0.21	0.23	130	<1
40386806		0.23	5.5	12.9	2.67	12.4	2.83	1	219	0.4	0.50	0.89	0.24	0.57	150	<1
40386807		0.12	3.5	8.9	1.89	6.4	1.91	1	157.5	0.3	0.31	0.54	0.14	0.19	645	<1
40386808		0.13	3.5	7.1	1.67	9.5	1.50	1	243	0.3	0.30	0.46	0.15	0.13	65	<1
40386809		0.14	3.8	8.4	1.86	12.6	1.91	1	283	0.4	0.32	0.53	0.18	0.15	77	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 5 - D  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386770		31.4	3.14	253	0.5	0.02	<0.005	0.033	<0.001	<0.05	<0.2	0.01	0.32	0.02	0.07	17.8
40386771		11.5	1.07	60	0.2	0.01	<0.005	0.014	0.001	<0.05	0.3	0.01	0.02	0.07	0.07	59.5
40386772		11.5	1.28	60	0.9	0.01	<0.005	0.013	<0.001	0.07	0.3	0.01	0.03	0.07	0.07	59.7
40386773		11.9	1.25	62	0.4	0.01	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.03	0.05	0.06	61.1
40386774		11.7	1.08	60	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.3	0.01	0.02	0.04	0.05	62.6
40386775		12.0	1.26	63	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.02	0.05	0.07	65.8
40386776		12.2	1.21	66	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.03	0.05	0.05	63.7
40386777		12.1	1.21	65	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.4	0.01	0.02	0.04	0.06	63.8
40386778		11.6	1.23	67	2.1	0.01	<0.005	0.016	0.001	0.06	0.4	0.01	0.04	0.07	0.06	64.7
40386779		11.6	0.91	65	1.1	0.01	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.04	0.06	0.05	67.4
40386780		18.3	1.89	100	3.8	0.14	0.011	0.032	0.002	0.33	1.1	0.05	0.46	0.49	0.25	64.8
40386781		11.7	1.20	66	0.4	0.01	<0.005	0.016	0.001	<0.05	0.4	0.01	0.03	0.05	0.06	66.1
40386782		12.4	1.23	65	1.6	<0.01	<0.005	0.016	<0.001	0.05	0.2	<0.01	0.03	0.05	0.07	66.5
40386783		12.2	1.41	66	1.2	<0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.03	0.05	0.06	70.4
40386784		12.3	1.10	66	0.2	<0.01	<0.005	0.013	0.001	<0.05	0.4	0.01	0.03	0.05	0.06	69.1
40386785		12.8	1.43	65	0.5	0.01	<0.005	0.015	0.001	<0.05	0.2	0.01	0.02	0.04	0.05	63.5
40386786		13.0	1.48	65	0.5	0.02	<0.005	0.013	0.001	<0.05	0.2	0.02	0.02	0.05	0.06	63.0
40386787		11.6	1.18	63	0.4	0.01	<0.005	0.014	<0.001	<0.05	0.2	<0.01	0.03	0.06	0.06	64.7
40386788		11.5	1.18	62	0.4	0.01	<0.005	0.016	0.001	<0.05	0.2	0.01	0.03	0.06	0.06	65.5
40386789		11.6	1.41	60	0.3	0.01	<0.005	0.014	0.001	<0.05	<0.2	<0.01	0.04	0.06	0.06	60.5
40386790		11.4	1.36	58	0.4	0.01	<0.005	0.014	<0.001	<0.05	<0.2	0.01	0.03	0.05	0.06	60.6
40386791		12.1	1.22	62	5.3	0.01	<0.005	0.015	<0.001	0.19	0.2	<0.01	0.17	0.06	0.08	56.6
40386792		12.2	1.10	65	0.4	0.01	0.007	0.014	<0.001	<0.05	0.3	0.01	0.05	0.06	0.08	59.3
40386793		12.6	1.20	66	0.7	0.01	<0.005	0.015	<0.001	<0.05	<0.2	0.01	0.03	0.05	0.06	62.1
40386794		13.2	1.22	74	0.5	<0.01	<0.005	0.015	0.001	<0.05	0.2	<0.01	0.07	0.04	0.06	61.7
40386795		14.1	1.26	74	0.1	<0.01	<0.005	0.017	<0.001	<0.05	0.2	0.01	0.02	0.05	0.06	61.3
40386796		13.9	1.50	79	0.4	0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.02	0.06	0.08	63.2
40386797		15.1	1.72	76	0.2	0.01	<0.005	0.015	0.001	<0.05	0.2	<0.01	0.03	0.05	0.07	62.7
40386798		15.9	1.43	83	0.5	0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.03	0.05	0.07	61.4
40386799		15.6	1.51	82	0.4	0.02	<0.005	0.015	<0.001	<0.05	0.2	<0.01	0.03	0.05	0.09	58.6
40386800		36.3	3.46	271	0.7	0.01	<0.005	0.032	0.001	<0.05	<0.2	0.03	0.37	0.05	0.10	18.6
40386801		16.8	1.61	91	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.2	<0.01	0.04	0.04	0.07	58.4
40386802		13.3	1.17	68	0.6	0.01	0.006	0.015	<0.001	<0.05	0.3	0.01	0.03	0.06	0.08	61.1
40386803		15.6	1.39	84	0.4	0.01	<0.005	0.015	<0.001	<0.05	0.2	<0.01	0.03	0.05	0.06	60.3
40386804		15.9	1.62	82	0.9	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.05	0.09	0.08	60.3
40386805		15.8	1.40	82	0.4	0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.03	0.06	0.10	59.5
40386806		16.0	1.48	84	0.7	0.01	<0.005	0.020	0.001	<0.05	0.3	0.02	0.03	0.13	0.10	63.5
40386807		11.0	1.12	58	0.3	0.29	<0.005	0.051	0.012	<0.05	2.8	0.19	0.04	1.67	0.49	180.5
40386808		9.3	0.82	51	0.4	0.26	<0.005	0.041	0.012	<0.05	2.8	0.16	0.02	1.25	0.36	98.9
40386809		10.3	1.07	54	0.4	0.11	<0.005	0.025	0.009	<0.05	1.3	0.07	0.03	0.75	0.22	78.0

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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





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 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386770		17.4	17.4	1.31	14.8	12.0	15.4	84	0.001	<0.0005	0.001
40386771		87.8	5.3	0.61	516	1.5	10.0	68	0.002	0.0036	0.007
40386772		85.5	5.8	1.09	517	4.2	12.4	71	0.002	0.0034	0.007
40386773		75.2	5.8	0.74	530	1.9	10.8	69	0.002	0.0040	0.007
40386774		77.3	4.9	0.65	532	1.3	13.1	68	0.002	0.0043	0.006
40386775		93.4	4.6	0.70	574	1.3	11.7	71	0.002	0.0045	0.009
40386776		95.3	4.6	0.66	544	1.2	12.8	69	0.002	0.0035	0.006
40386777		98.1	4.7	0.62	547	1.2	12.1	70	0.002	0.0037	0.005
40386778		113.0	8.2	0.63	585	1.7	11.7	76	0.002	0.0088	0.019
40386779		114.0	7.6	0.67	590	1.6	13.0	74	0.002	0.0033	0.005
40386780		1065	37.0	2.87	671	6.0	17.5	103	0.025	0.0394	0.242
40386781		123.5	5.8	0.76	598	1.6	13.4	73	0.002	0.0054	0.019
40386782		96.1	7.5	0.62	603	2.0	12.3	75	0.002	0.0036	0.007
40386783		99.3	6.1	0.65	628	2.5	10.7	75	0.002	0.0037	0.007
40386784		99.4	5.7	0.74	616	1.4	11.8	75	0.001	0.0041	0.007
40386785		100.0	5.5	0.63	551	1.2	12.9	71	0.001	0.0043	0.006
40386786		105.0	4.7	0.66	544	1.2	13.7	73	0.002	0.0058	0.012
40386787		111.5	6.6	0.62	553	1.2	11.8	73	0.003	0.0022	0.002
40386788		148.5	5.7	0.62	561	1.3	14.8	72	0.003	0.0079	0.022
40386789		120.0	6.3	0.68	453	1.4	13.7	70	0.001	0.0056	0.021
40386790		120.0	6.2	0.70	449	1.4	12.0	70	0.001	0.0028	0.003
40386791		109.0	9.8	1.52	446	2.0	12.4	72	0.001	0.0038	0.006
40386792		126.5	10.7	0.67	448	1.8	14.0	74	0.002	0.0063	0.017
40386793		122.5	6.7	0.70	500	1.5	14.1	75	0.001	0.0041	0.006
40386794		118.5	8.4	0.69	475	1.4	13.3	73	0.001	0.0038	0.005
40386795		112.5	5.5	0.67	476	1.4	15.6	74	0.001	0.0047	0.007
40386796		139.0	4.7	0.72	513	1.4	15.4	77	0.003	0.0086	0.023
40386797		133.5	5.3	0.68	489	1.5	15.6	77	0.001	0.0060	0.014
40386798		108.0	7.7	0.74	463	1.9	17.1	82	0.001	0.0024	0.014
40386799		107.5	8.2	0.72	398	1.8	18.5	87	0.001	0.0057	0.014
40386800		21.4	18.8	0.94	15.2	10.8	17.5	95	0.001	<0.0005	0.001
40386801		111.5	7.8	0.85	347	1.7	18.2	82	0.002	0.0083	0.011
40386802		135.0	7.2	0.70	392	2.0	15.2	78	0.002	0.0049	0.007
40386803		143.0	5.1	0.75	405	1.7	17.4	79	0.001	0.0081	0.011
40386804		168.5	8.9	0.65	384	2.1	18.2	84	0.006	0.0122	0.024
40386805		150.5	7.7	0.78	360	3.1	19.6	85	0.005	0.0081	0.013
40386806		346	7.0	0.79	421	2.9	25.0	99	0.007	0.0131	0.035
40386807		4390	5.1	0.89	2850	4.6	14.0	257	0.059	0.1445	0.826
40386808		3500	7.1	0.59	1925	3.4	11.5	64	0.064	0.0986	0.499
40386809		2130	8.1	0.57	1130	2.9	9.8	59	0.017	0.0480	0.247

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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Page: 6 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40386810		0.17	44.3	18.10	13.95	9.37	7.58	2.08	0.63	0.324	1.27	0.14	0.17	0.04	0.02	99.47
40386811		3.22	45.1	19.95	10.90	10.45	8.64	1.84	0.38	0.024	0.73	0.10	0.10	0.03	0.01	100.71
40386812		3.07	45.0	19.15	12.30	9.94	8.58	2.03	0.36	0.024	0.86	0.11	0.11	0.04	0.01	100.05
40386813		3.11	46.3	19.90	10.45	9.35	7.94	2.46	0.34	0.040	0.69	0.10	0.10	0.04	0.01	98.11
40386814		3.10	46.2	19.85	12.85	9.14	7.87	2.52	0.40	0.032	0.61	0.10	0.09	0.04	0.01	100.74
40386815		3.16	45.2	19.45	12.70	8.41	6.71	2.41	0.80	0.023	0.67	0.10	0.09	0.04	0.02	98.88
40386816		2.55	43.7	15.85	16.10	7.63	7.76	2.19	0.73	0.031	1.02	0.13	0.14	0.03	0.02	98.93
40386817		1.68	44.0	14.80	18.85	6.93	6.05	2.42	0.91	0.034	1.44	0.14	0.18	0.03	0.02	99.57
40386818		3.29	45.3	17.95	14.05	8.52	7.28	2.09	0.86	0.028	0.90	0.12	0.11	0.03	0.02	99.83
40386819		1.46	46.1	18.15	13.75	8.00	7.31	2.20	1.08	0.029	0.95	0.12	0.12	0.04	0.02	101.03
40386820		1.44	46.0	18.15	13.65	7.85	7.30	2.20	1.09	0.027	0.95	0.12	0.13	0.04	0.02	100.61
40386821		2.95	47.0	17.85	13.05	7.93	7.12	2.33	0.92	0.047	0.99	0.12	0.15	0.04	0.02	100.44
40386822		3.19	47.4	18.15	12.25	8.39	7.20	2.40	0.96	0.053	0.80	0.12	0.12	0.04	0.02	99.70
40386823		2.89	46.5	18.10	14.00	7.69	7.04	2.38	0.99	0.042	0.82	0.12	0.11	0.04	0.02	100.56
40386824		2.57	46.5	17.05	13.40	8.73	6.99	2.38	0.81	0.073	0.86	0.14	0.10	0.03	0.02	100.45
40386825		2.94	46.8	17.10	13.80	8.45	6.92	2.31	0.81	0.050	0.78	0.14	0.10	0.04	0.03	100.69
40386826		2.42	44.5	16.10	18.10	6.86	7.40	2.10	0.72	0.039	0.79	0.16	0.11	0.03	0.02	100.38
40386827		2.53	48.8	16.55	14.75	8.69	7.26	2.40	0.73	0.046	0.89	0.16	0.12	0.03	0.02	101.70
40386828		3.41	48.9	16.70	14.15	8.57	6.86	2.45	0.94	0.048	0.93	0.16	0.11	0.04	0.02	100.70
40386829		3.24	48.3	16.35	15.65	8.57	6.76	2.29	0.74	0.038	0.93	0.16	0.12	0.03	0.02	101.63

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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



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 Account: RTEICKBZ

Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	OA-GRA05 LOI %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
40386810		1.50	0.02	0.88	162.5	25.8	2430	2.49	3.18	1.77	1.19	18.5	3.32	2.8	0.65	11.7
40386811		2.46	0.01	1.08	90.2	15.3	170	2.58	2.11	1.07	0.84	15.8	2.08	1.3	0.38	7.1
40386812		1.54	<0.01	1.40	97.0	16.9	180	1.96	1.94	1.26	0.96	15.3	2.20	1.7	0.45	7.9
40386813		0.39	0.01	0.71	108.5	16.8	300	1.17	1.92	1.03	1.16	17.9	2.12	1.5	0.39	8.0
40386814		1.03	<0.01	1.53	107.5	15.5	250	1.42	1.89	1.12	1.01	17.6	1.92	1.4	0.41	7.1
40386815		2.26	0.12	1.94	165.5	16.3	180	2.70	1.98	1.12	1.28	18.4	1.91	1.5	0.33	7.7
40386816		3.60	1.34	2.34	152.0	28.2	250	2.65	3.26	2.03	1.36	18.1	3.11	2.8	0.65	13.2
40386817		3.77	1.66	3.32	220	39.3	260	3.96	4.41	2.81	1.46	18.9	4.62	3.8	0.91	18.7
40386818		2.57	0.01	1.78	170.0	22.9	220	4.73	2.57	1.56	1.54	18.2	2.83	2.0	0.52	11.0
40386819		3.16	0.02	1.60	178.0	22.4	200	4.12	2.55	1.49	1.41	16.6	2.95	1.8	0.53	10.7
40386820		3.08	0.01	1.71	188.5	26.7	190	4.14	2.70	1.52	1.37	16.7	3.02	2.0	0.55	12.6
40386821		2.87	0.01	1.55	188.5	25.7	350	3.90	2.87	1.68	1.25	16.8	2.86	2.3	0.60	12.3
40386822		1.80	<0.01	1.30	172.0	19.8	380	3.04	2.51	1.42	1.16	17.6	2.58	1.6	0.48	8.9
40386823		2.71	0.01	1.65	207	20.7	300	3.75	2.50	1.43	1.37	17.8	2.42	1.6	0.49	9.6
40386824		3.37	0.02	1.78	215	20.3	510	3.19	2.68	1.47	1.26	17.7	2.77	1.8	0.56	9.7
40386825		3.36	0.01	1.68	233	18.6	360	3.10	2.58	1.42	1.24	16.5	2.51	1.7	0.48	8.9
40386826		3.45	0.08	2.45	204	21.9	270	3.82	2.31	1.33	1.28	18.1	2.54	1.8	0.48	10.6
40386827		1.25	0.01	0.90	186.5	19.5	320	2.81	2.48	1.53	1.27	19.0	2.45	1.9	0.48	8.9
40386828		0.82	<0.01	0.61	212	20.2	330	3.14	2.60	1.46	1.07	17.6	2.62	1.7	0.53	9.2
40386829		1.67	0.01	1.17	216	21.7	290	3.30	2.71	1.76	1.40	17.4	3.06	2.2	0.53	10.4

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386810		0.24	6.8	15.4	3.16	23.3	3.13	2	315	0.6	0.50	1.05	0.28	0.28	167	1
40386811		0.16	3.8	9.0	1.93	14.3	1.85	1	260	0.3	0.35	0.60	0.15	0.15	81	1
40386812		0.20	4.3	9.6	2.09	13.2	2.06	1	264	0.4	0.35	0.60	0.18	0.15	106	<1
40386813		0.17	4.1	9.1	2.15	11.1	2.16	1	290	0.4	0.29	0.73	0.12	0.41	87	<1
40386814		0.14	3.5	8.2	1.86	17.3	1.90	1	305	0.4	0.33	0.57	0.15	0.26	83	1
40386815		0.16	3.7	9.4	1.95	37.5	2.03	1	331	0.4	0.37	0.81	0.14	0.76	92	3
40386816		0.27	6.7	15.5	3.55	35.3	3.52	2	252	0.5	0.55	1.60	0.28	1.74	150	1
40386817		0.39	9.4	21.7	5.02	42.0	4.79	2	235	0.7	0.82	2.37	0.38	2.54	190	1
40386818		0.21	5.0	12.5	2.89	38.2	2.77	1	282	0.5	0.48	1.42	0.21	1.41	153	1
40386819		0.21	4.8	11.9	2.70	47.9	2.48	1	292	0.5	0.46	1.23	0.17	1.00	137	1
40386820		0.20	5.5	14.5	3.24	48.4	2.85	1	301	0.5	0.47	2.06	0.25	1.05	131	1
40386821		0.25	6.3	14.7	3.11	39.7	3.00	1	299	0.5	0.48	1.45	0.26	1.21	152	<1
40386822		0.19	4.5	11.7	2.56	40.5	2.49	1	330	0.4	0.37	1.09	0.15	0.94	165	<1
40386823		0.18	4.4	11.6	2.63	41.7	2.42	1	321	0.5	0.34	1.13	0.19	0.94	129	<1
40386824		0.21	4.6	12.0	2.63	30.6	2.48	1	282	0.4	0.45	1.13	0.19	0.91	253	<1
40386825		0.21	4.2	10.3	2.36	31.6	2.36	1	280	0.4	0.40	0.89	0.17	0.68	264	<1
40386826		0.20	4.5	11.7	2.71	27.6	2.32	1	209	0.4	0.35	1.31	0.19	1.20	247	1
40386827		0.18	4.5	10.8	2.47	27.2	2.48	1	243	0.4	0.39	1.11	0.20	0.83	274	<1
40386828		0.19	4.5	11.9	2.48	37.8	2.73	1	273	0.4	0.46	1.06	0.21	0.82	308	1
40386829		0.21	5.0	12.7	2.69	28.9	2.88	1	250	0.4	0.43	1.12	0.21	0.82	360	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y ppm 0.1	Yb ppm 0.03	Zr ppm 2	As ppm 0.1	Bi ppm 0.01	Hg ppm 0.005	In ppm 0.005	Re ppm 0.001	Sb ppm 0.05	Se ppm 0.2	Te ppm 0.01	Tl ppm 0.02	Ag ppm 0.01	Cd ppm 0.02	Co ppm 0.1
40386810		18.3	1.65	113	6.6	0.44	0.006	0.054	0.007	0.39	3.0	0.21	0.31	1.45	0.42	91.7
40386811		10.5	1.03	57	0.8	0.37	<0.005	0.044	0.013	<0.05	2.4	0.13	0.06	1.40	0.45	114.5
40386812		11.8	0.98	64	1.6	0.32	<0.005	0.057	0.013	0.06	2.6	0.12	0.09	1.34	0.54	120.0
40386813		10.9	0.93	57	1.5	0.26	<0.005	0.041	0.005	0.07	1.2	0.07	0.08	0.81	0.35	74.9
40386814		10.1	0.93	55	1.4	0.56	<0.005	0.065	0.008	0.07	2.4	0.15	0.10	1.51	0.85	114.5
40386815		10.9	0.99	55	5.3	0.39	<0.005	0.072	0.012	0.34	2.4	0.14	0.56	1.44	0.97	116.0
40386816		19.2	1.71	98	32.8	0.56	<0.005	0.118	0.020	0.91	2.9	0.18	0.84	1.36	1.35	160.5
40386817		25.8	2.58	135	38.7	0.23	<0.005	0.079	0.030	0.54	2.6	0.10	0.87	1.12	1.77	159.5
40386818		14.9	1.57	74	33.5	0.22	<0.005	0.054	0.012	0.55	2.1	0.13	0.69	1.09	0.95	83.2
40386819		15.0	1.43	74	22.8	0.32	<0.005	0.060	0.014	0.40	2.1	0.12	1.19	1.25	1.02	88.4
40386820		16.0	1.61	75	18.9	0.25	0.009	0.057	0.012	0.35	2.1	0.11	1.13	1.19	0.96	88.3
40386821		17.2	1.75	92	19.1	0.21	0.007	0.047	0.011	0.38	2.2	0.14	1.44	1.24	0.89	86.7
40386822		13.4	1.27	67	9.8	0.19	<0.005	0.035	0.008	0.37	1.9	0.10	0.98	0.95	0.59	92.1
40386823		13.0	1.17	66	25.8	0.11	0.009	0.049	0.012	0.37	2.2	0.11	1.18	1.31	1.00	123.0
40386824		14.4	1.44	76	45.1	0.16	0.013	0.062	0.008	0.41	2.2	0.12	1.07	1.05	1.08	112.0
40386825		13.3	1.17	65	11.5	0.24	0.013	0.037	0.010	0.35	2.2	0.09	1.26	0.94	0.95	117.0
40386826		13.1	1.41	72	20.7	0.11	0.021	0.032	0.019	0.49	2.3	0.07	2.12	0.64	0.80	138.5
40386827		13.2	1.32	66	6.0	0.07	0.006	0.022	0.006	0.25	0.9	0.02	0.73	0.27	0.49	76.1
40386828		13.7	1.23	66	4.2	0.09	0.005	0.025	0.005	0.20	0.8	0.03	0.53	0.40	0.31	63.7
40386829		15.0	1.48	74	5.2	0.20	0.011	0.039	0.008	0.31	1.5	0.07	1.04	0.72	0.52	89.5

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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





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Project: EB80000960

**CERTIFICATE OF ANALYSIS TB18204960**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386810		3780	23.4	4.61	1905	7.4	19.1	107	0.075	0.1465	0.799
40386811		3710	10.5	0.73	1880	4.4	14.7	66	0.038	0.0978	0.435
40386812		3620	10.6	1.00	1775	4.4	15.4	73	0.044	0.0752	0.374
40386813		1985	7.7	0.87	827	4.4	12.0	68	0.025	0.0545	0.220
40386814		3450	10.2	0.77	1415	8.0	11.5	69	0.049	0.0709	0.328
40386815		3400	18.4	2.04	1525	7.5	12.6	81	0.083	0.0684	0.325
40386816		2890	16.3	6.55	1240	15.1	18.6	125	0.034	0.0642	0.296
40386817		1825	15.8	18.00	828	23.0	23.9	167	0.016	0.0170	0.112
40386818		2580	25.1	6.00	1395	7.8	18.7	137	0.028	0.0679	0.343
40386819		3130	28.5	5.02	1495	4.9	19.5	150	0.060	0.1420	0.372
40386820		2860	28.8	5.16	1455	4.8	18.7	146	0.040	0.0660	0.344
40386821		3170	24.5	3.18	1590	4.0	18.0	156	0.040	0.0838	0.368
40386822		2480	20.8	2.01	1225	3.7	19.2	144	0.028	0.0567	0.240
40386823		3210	26.2	3.35	1620	5.7	16.8	209	0.037	0.0757	0.307
40386824		2530	24.8	3.07	1280	4.1	22.7	220	0.028	0.0622	0.245
40386825		2210	25.7	3.17	1085	7.7	23.8	162	0.029	0.0539	0.204
40386826		1560	20.9	9.83	884	8.2	21.8	223	0.018	0.0275	0.129
40386827		641	16.5	2.82	372	7.8	29.2	177	0.008	0.0178	0.056
40386828		957	18.1	2.20	544	6.1	30.9	157	0.012	0.0255	0.088
40386829		1770	17.0	4.16	940	7.1	30.3	149	0.020	0.0434	0.173

Comments: \*\*Corrected copy for PGM-MS24 on samples 40386715-40386725 (except 40386719) and 40386805-40386815\*\*

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Project: EB80000960

<b>CERTIFICATE OF ANALYSIS TB18204960</b>
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	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	<p>REE's may not be totally soluble in this method.            ME-MS61</p>												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">C-IR07</td> <td style="width: 25%;">ME-ICP06</td> <td style="width: 25%;">ME-MS42</td> <td style="width: 25%;">ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06			
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-MS24	S-IR08										
TOT-ICP06													



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**CERTIFICATE TB18208332**

Project: EB80000961  
 P.O. No.: 3103290934  
 This report is for 192 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 24-AUG-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP81	ICP Fusion - Ore Grade	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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 \*\*\*\*\*  
 Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOD	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386830		1.57	55.0	18.55	7.90	6.78	3.04	3.80	2.14	0.003	0.96	0.12	0.28	0.07	0.09	99.01
40386831		3.20	45.7	16.85	14.70	7.92	6.67	2.30	0.79	0.027	0.99	0.14	0.11	0.03	0.02	98.02
40386832		2.19	46.0	16.60	16.25	8.42	6.48	2.26	0.73	0.033	0.87	0.14	0.09	0.03	0.02	99.13
40386833		2.08	46.6	15.95	17.20	7.09	6.31	1.75	0.78	0.035	1.42	0.13	0.05	0.02	0.02	100.24
40386834		3.08	55.1	16.70	12.25	0.71	3.38	2.11	3.38	0.024	0.65	0.03	0.10	0.01	0.05	100.77
40386835		2.90	55.7	16.50	12.45	0.78	3.00	2.21	3.35	0.023	0.68	0.03	0.09	0.01	0.05	100.67
40386836		3.01	55.4	16.75	13.45	0.76	2.95	2.16	3.52	0.023	0.69	0.03	0.10	0.01	0.05	101.53
40386837		3.08	56.0	16.65	11.70	0.76	3.04	2.23	3.62	0.023	0.70	0.03	0.10	0.01	0.06	100.27
40386838		3.01	57.8	15.95	9.22	0.71	2.83	2.04	3.43	0.021	0.66	0.02	0.11	0.01	0.05	99.15
40386839		2.57	56.7	16.30	10.55	0.71	2.93	2.04	3.42	0.021	0.68	0.02	0.10	0.01	0.05	99.57
40386840		0.17	43.6	18.20	13.95	9.33	7.70	2.14	0.63	0.317	1.26	0.14	0.15	0.04	0.02	98.79
40386841		2.86	56.5	16.05	11.00	0.71	2.98	2.07	3.30	0.022	0.64	0.02	0.10	0.01	0.04	100.13
40386842		2.51	56.3	15.40	11.40	0.99	3.78	2.01	4.52	0.021	1.68	0.06	0.10	0.03	0.11	101.17
40386843		2.49	51.7	15.40	16.15	1.87	4.11	1.69	3.19	0.022	1.76	0.11	0.14	0.02	0.09	101.38
40386844		3.78	49.0	16.70	13.05	8.70	7.08	2.38	1.16	0.035	1.91	0.16	0.18	0.04	0.04	101.41
40386845		1.76	46.3	14.40	19.95	5.03	4.69	2.09	1.85	0.022	1.73	0.13	0.18	0.03	0.05	100.19
40386846		2.53	48.5	16.95	13.70	8.86	6.82	2.40	0.87	0.027	2.04	0.16	0.12	0.03	0.03	100.51
40386847		2.96	46.4	17.55	15.05	9.07	6.44	2.51	0.73	0.035	1.65	0.14	0.13	0.04	0.02	100.23
40386848		2.50	46.6	18.40	13.40	7.94	7.00	2.23	0.96	0.029	0.53	0.11	0.05	0.04	0.02	98.21
40386849		1.15	49.3	14.55	16.05	1.04	3.80	1.98	2.76	0.028	0.62	0.05	0.10	0.02	0.05	99.11
40386850		1.21	49.2	14.55	16.00	1.23	3.59	2.05	2.84	0.028	0.57	0.04	0.08	0.02	0.05	99.21
40386851		0.78	34.6	12.10	33.1	2.33	4.60	0.78	1.63	0.042	0.39	0.07	0.05	0.01	0.04	99.39
40386852		3.24	54.8	15.40	13.60	0.72	2.94	2.02	3.28	0.020	0.62	0.03	0.09	0.01	0.05	100.38
40386853		3.05	56.4	15.30	13.35	0.69	2.61	2.15	3.27	0.018	0.62	0.03	0.11	0.01	0.04	100.84
40386854		3.20	59.5	15.80	10.50	0.83	2.96	2.79	3.15	0.017	0.63	0.03	0.10	0.02	0.05	101.25
40386855		2.40	66.3	13.50	8.03	0.66	2.50	2.04	3.04	0.014	0.51	0.04	0.10	0.01	0.05	101.58
40386856		2.02	59.7	15.50	8.76	0.85	3.17	2.39	3.40	0.015	0.60	0.04	0.11	0.02	0.06	101.09
40386857		2.77	44.3	16.65	13.85	4.01	6.52	1.09	5.27	0.032	0.68	0.13	0.05	0.13	0.29	99.28
40386858		3.47	42.3	15.30	17.15	4.95	5.97	2.08	1.84	0.039	2.50	0.15	0.08	0.03	0.05	98.03
40386859		2.83	57.9	15.05	8.57	0.95	3.42	2.21	3.71	0.017	0.61	0.05	0.10	0.02	0.06	98.80
40386860		1.41	57.3	18.40	6.82	6.17	2.32	3.83	2.40	0.002	0.82	0.10	0.23	0.06	0.07	98.79
40386861		2.58	46.2	18.00	11.15	2.98	6.84	0.84	6.45	0.023	0.75	0.16	0.08	0.19	0.42	99.68
40386862		2.29	46.1	16.60	11.20	3.84	6.86	1.56	5.12	0.025	1.13	0.18	0.12	0.05	0.22	98.97
40386863		1.11	37.5	11.05	6.68	30.5	4.31	0.13	0.06	0.013	0.40	0.14	0.04	0.04	<0.01	98.14
40386864		0.85	45.2	12.75	22.1	4.34	3.79	1.94	2.32	0.018	1.85	0.17	0.25	0.04	0.08	98.84
40386865		7.65	47.6	13.25	17.60	7.73	4.59	2.14	0.93	0.007	3.72	0.20	0.41	0.06	0.04	99.41
40386866		7.43	63.7	15.35	5.84	1.06	2.41	1.70	5.33	0.022	0.76	0.05	0.14	0.02	0.09	100.30
40386867		1.92	51.6	6.92	3.78	23.1	5.12	0.40	1.49	0.014	0.27	0.30	0.20	0.02	0.03	99.07
40386868		10.24	69.3	13.15	4.01	0.83	1.62	0.98	6.22	0.011	0.49	0.03	0.10	0.02	0.08	99.27
40386869		7.97	49.4	13.30	16.80	7.46	4.26	2.74	0.91	0.005	3.55	0.19	0.39	0.05	0.03	99.71

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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 Account: RTECIKZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386830		0.28	0.05	0.11	757	64.2	30	1.18	6.41	3.60	1.56	21.0	7.61	9.3	1.35	30.3
40386831		1.77	0.01	1.61	192.0	20.7	190	4.10	2.81	1.53	1.19	18.4	3.02	1.7	0.54	10.5
40386832		1.21	<0.01	2.08	168.0	16.6	240	3.67	2.37	1.26	1.21	18.3	2.65	1.4	0.45	8.5
40386833		2.88	0.02	2.45	196.5	16.8	250	3.91	1.88	1.18	1.05	16.5	1.92	1.2	0.35	9.1
40386834		6.28	2.18	3.93	431	61.1	180	5.76	5.13	3.01	1.56	21.9	6.26	4.1	0.98	33.8
40386835		5.80	1.64	4.17	434	61.1	160	5.83	4.98	3.18	1.47	21.4	6.11	3.7	1.05	34.3
40386836		5.64	1.32	4.95	449	65.4	170	6.11	5.41	3.22	1.37	21.6	6.72	3.7	1.01	35.5
40386837		5.35	1.53	3.57	522	63.8	170	5.12	5.04	3.08	1.27	20.8	6.11	3.8	0.91	35.5
40386838		6.30	3.01	2.70	454	69.6	150	5.27	5.54	3.51	1.43	20.7	6.59	3.9	1.17	38.6
40386839		6.04	2.22	3.60	409	61.8	160	5.58	5.02	2.77	1.42	20.8	6.03	3.7	1.11	34.4
40386840		1.31	0.03	0.91	149.5	23.1	2130	2.61	3.16	1.74	1.13	18.2	3.67	2.4	0.62	11.4
40386841		6.69	2.92	3.70	388	59.5	160	5.15	5.29	3.56	1.38	20.4	6.64	4.0	1.02	33.4
40386842		4.77	1.25	2.70	954	60.5	160	3.44	5.03	3.39	1.61	18.9	6.40	3.7	1.03	33.9
40386843		5.13	0.87	4.05	792	51.7	160	4.24	4.53	2.95	1.48	21.3	5.45	3.8	0.95	29.1
40386844		0.97	0.01	0.12	340	32.6	250	4.19	4.72	2.47	1.46	20.1	5.08	3.5	0.87	16.2
40386845		3.74	0.64	3.99	469	52.8	160	6.35	6.22	3.36	1.53	21.2	6.96	5.4	1.17	28.1
40386846		0.00	0.01	0.11	262	24.1	190	2.70	3.58	1.86	1.60	20.7	4.33	2.6	0.66	12.4
40386847		0.46	0.01	1.62	170.5	21.6	250	2.20	2.99	1.80	1.30	19.8	3.65	2.4	0.63	10.8
40386848		0.90	0.02	1.55	198.5	14.9	210	3.51	1.73	1.02	1.12	17.0	1.92	1.2	0.37	8.1
40386849		8.76	4.07	5.15	451	51.9	200	3.50	4.38	2.67	1.28	18.8	4.73	3.3	0.96	29.9
40386850		8.96	4.37	5.34	466	53.4	200	3.56	4.15	2.74	1.15	17.8	5.13	3.1	0.87	31.1
40386851		9.65	1.97	13.25	321	25.1	300	4.59	2.22	1.39	0.74	14.1	2.45	1.6	0.44	14.2
40386852		6.80	2.72	4.97	440	64.5	150	6.00	5.62	3.16	1.22	20.0	6.56	3.7	1.11	36.2
40386853		6.24	2.26	5.21	404	67.9	140	6.16	6.02	3.39	1.43	20.5	6.82	4.2	1.08	38.0
40386854		4.87	1.68	2.54	491	72.8	130	3.90	5.65	3.26	1.37	21.1	7.48	5.0	1.19	40.8
40386855		4.79	1.37	2.56	456	71.2	100	4.23	5.42	3.61	1.08	17.9	6.47	5.2	1.12	40.1
40386856		6.47	2.12	3.24	506	76.8	110	5.77	5.84	3.63	1.40	19.6	6.85	5.1	1.13	43.1
40386857		6.28	0.06	2.92	2640	19.1	240	5.17	1.96	1.03	0.97	17.0	2.18	1.3	0.40	9.2
40386858		5.59	0.06	3.39	414	26.4	290	3.59	2.80	1.62	1.25	20.6	2.87	2.3	0.60	12.5
40386859		6.13	2.09	2.59	503	66.9	130	4.37	5.32	3.12	1.44	20.6	5.62	4.7	1.12	34.2
40386860		0.27	0.03	0.12	672	66.6	20	1.48	5.74	3.27	1.60	24.4	6.68	7.9	1.30	29.8
40386861		5.60	0.15	1.10	3720	20.7	170	6.55	2.19	1.20	0.89	15.8	2.44	1.8	0.51	9.6
40386862		5.96	0.51	1.44	1995	29.1	190	4.58	3.11	1.50	1.01	17.9	3.30	2.6	0.64	14.1
40386863		7.28	1.58	0.47	23.6	58.3	90	0.09	6.19	3.36	1.97	16.1	6.42	1.4	1.33	30.4
40386864		3.99	1.02	4.31	676	57.4	140	5.64	4.40	2.34	1.91	20.4	5.65	4.3	0.87	29.3
40386865		1.13	0.05	0.34	342	64.7	50	4.18	6.76	3.40	2.76	25.3	8.02	5.5	1.34	28.2
40386866		3.83	1.74	0.49	803	67.5	170	5.32	4.27	2.36	1.19	20.9	4.89	4.5	0.90	34.7
40386867		5.83	1.35	0.53	262	55.2	100	2.45	5.01	2.92	1.46	12.5	5.91	2.3	1.14	28.4
40386868		2.43	1.03	0.52	696	89.5	90	8.77	5.55	3.10	1.21	19.4	6.11	6.2	1.20	42.6
40386869		0.62	0.07	0.22	296	72.7	50	6.34	7.12	3.78	2.75	25.5	8.39	6.7	1.53	32.2

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386830		0.48	13.9	36.9	8.73	84.9	8.22	2	534	0.8	1.17	3.62	0.49	1.82	130	1
40386831		0.17	5.1	11.7	2.74	30.3	2.76	1	248	0.4	0.50	1.44	0.21	1.46	252	<1
40386832		0.16	4.0	9.6	2.21	28.9	2.22	1	251	0.4	0.41	1.19	0.14	1.40	220	1
40386833		0.20	4.1	9.2	2.23	34.3	1.99	1	222	0.5	0.33	1.78	0.14	2.77	262	<1
40386834		0.45	10.3	32.6	8.35	150.5	6.43	1	100.5	0.9	0.96	8.46	0.44	14.55	258	2
40386835		0.48	10.4	31.3	8.19	142.0	6.99	1	75.6	0.7	0.93	8.45	0.42	15.95	252	2
40386836		0.45	10.7	32.2	8.67	147.5	7.11	1	72.9	0.9	0.99	8.48	0.47	16.45	244	2
40386837		0.39	10.5	32.2	8.48	155.0	6.80	1	108.0	0.8	0.78	8.48	0.44	16.75	242	2
40386838		0.65	13.1	35.0	9.11	148.0	7.07	1	87.6	0.8	1.01	9.13	0.55	18.70	261	2
40386839		0.52	11.4	32.2	8.25	150.0	6.65	2	79.7	0.8	0.90	8.76	0.43	16.00	242	2
40386840		0.27	7.4	13.5	3.09	20.5	3.18	3	310	0.4	0.59	0.99	0.23	0.25	163	<1
40386841		0.55	11.2	30.0	7.93	138.0	6.76	1	91.7	0.9	1.04	8.79	0.50	15.15	266	3
40386842		0.53	12.6	30.9	7.94	175.0	6.39	1	211	0.9	0.91	8.41	0.46	14.05	352	2
40386843		0.38	11.4	27.1	6.80	118.5	5.82	1	190.0	0.9	0.89	5.96	0.36	9.37	303	1
40386844		0.34	9.5	19.7	4.38	47.0	4.35	1	305	0.8	0.85	1.86	0.33	1.65	225	<1
40386845		0.49	13.4	28.8	7.19	67.9	6.59	2	205	0.9	1.11	4.37	0.47	5.52	280	1
40386846		0.24	7.9	14.3	3.33	30.2	3.68	1	294	0.6	0.58	1.29	0.25	0.96	242	<1
40386847		0.21	6.9	13.0	2.96	24.0	3.04	1	301	0.5	0.57	1.13	0.23	0.76	237	<1
40386848		0.13	3.2	8.6	1.94	37.9	1.66	1	309	0.3	0.33	1.36	0.14	1.65	134	<1
40386849		0.42	8.8	25.7	6.81	93.4	5.45	1	146.5	0.7	0.78	6.67	0.35	13.15	318	2
40386850		0.45	8.5	27.0	7.03	98.1	5.53	1	153.0	0.7	0.73	6.98	0.42	14.20	313	2
40386851		0.24	4.5	12.3	3.40	69.1	2.39	1	115.0	0.4	0.44	3.30	0.22	6.90	253	1
40386852		0.53	10.6	33.3	8.85	145.0	6.55	2	90.3	0.9	0.98	8.95	0.51	15.75	240	2
40386853		0.54	11.7	34.9	9.11	146.0	6.89	2	84.8	0.9	1.04	9.03	0.55	12.80	259	2
40386854		0.48	13.4	36.3	9.66	126.0	7.16	2	149.5	1.0	1.02	10.20	0.50	11.80	215	2
40386855		0.52	13.8	34.3	9.00	122.0	6.92	2	119.5	1.2	0.95	11.10	0.46	14.00	171	2
40386856		0.52	13.9	37.7	9.93	135.5	7.67	3	152.0	1.1	1.01	10.70	0.52	16.90	248	2
40386857		0.16	3.9	10.2	2.49	170.0	2.29	1	1095	0.3	0.33	1.80	0.14	0.92	201	1
40386858		0.27	8.2	14.3	3.54	65.1	3.05	2	233	0.5	0.51	2.29	0.25	2.51	434	1
40386859		0.60	12.9	32.8	8.78	139.0	6.82	2	127.0	0.9	0.93	11.15	0.47	17.85	280	2
40386860		0.50	12.8	36.5	9.00	94.5	8.04	2	555	0.7	1.07	5.47	0.45	2.47	116	1
40386861		0.22	5.2	11.2	2.73	205	2.53	1	1600	0.3	0.39	1.74	0.18	1.43	117	<1
40386862		0.27	8.2	15.2	3.85	175.0	3.41	1	401	0.6	0.50	2.75	0.22	1.94	179	1
40386863		0.43	6.8	31.8	7.69	0.8	5.81	3	351	0.5	0.99	7.40	0.50	5.92	64	1
40386864		0.40	15.2	28.2	7.26	67.4	5.85	2	350	1.1	0.80	5.97	0.37	4.84	356	1
40386865		0.42	26.1	37.5	8.96	30.8	8.51	1	490	1.7	1.23	3.58	0.50	1.49	468	1
40386866		0.43	11.4	31.3	8.60	148.0	6.11	2	160.0	0.8	0.73	10.25	0.36	12.25	278	2
40386867		0.37	5.5	27.1	6.93	53.3	6.00	3	182.0	0.4	0.86	5.90	0.37	13.40	463	1
40386868		0.50	14.6	38.8	10.80	187.5	7.60	2	136.5	1.0	0.91	13.65	0.47	10.55	160	1
40386869		0.51	26.0	40.5	9.78	37.9	9.01	2	444	1.7	1.34	4.34	0.57	1.55	432	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
	Units LOD	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386830		34.4	3.41	356	0.4	0.02	<0.005	0.028	0.001	<0.05	0.2	0.01	0.33	0.04	0.09	19.8
40386831		14.0	1.18	68	56.3	0.26	0.012	0.063	0.009	0.70	2.3	0.13	1.22	1.36	1.03	118.0
40386832		12.1	1.42	48	32.5	0.42	0.008	0.073	0.010	0.56	2.8	0.14	1.14	1.35	1.03	137.5
40386833		10.9	1.05	43	45.2	0.47	0.012	0.059	0.011	0.92	2.7	0.13	1.14	1.33	0.98	127.5
40386834		29.1	3.32	138	64.0	0.28	0.014	0.053	0.025	0.36	2.2	0.12	0.95	0.47	2.64	33.6
40386835		30.3	3.43	137	18.6	0.31	0.017	0.074	0.024	0.36	1.9	0.11	1.09	0.46	3.52	27.8
40386836		29.9	3.39	138	14.2	0.39	0.014	0.067	0.021	0.32	2.3	0.14	0.96	0.56	3.34	27.8
40386837		28.2	2.82	134	24.6	0.34	0.013	0.031	0.024	0.42	1.9	0.11	0.83	0.62	2.14	26.5
40386838		33.3	3.44	154	43.5	0.21	0.015	0.068	0.028	0.31	1.8	0.11	0.95	0.53	3.19	22.6
40386839		29.9	3.19	142	9.0	0.23	0.015	0.076	0.023	0.29	2.2	0.17	0.96	0.48	3.90	23.7
40386840		16.7	1.76	94	6.8	0.47	0.010	0.047	0.008	0.33	3.0	0.18	0.31	1.35	0.45	91.1
40386841		31.8	3.84	145	25.4	0.24	0.015	0.092	0.029	0.30	2.1	0.14	0.98	0.57	3.76	28.0
40386842		29.1	3.47	139	75.6	0.15	0.023	0.043	0.018	0.50	1.8	0.10	0.40	0.47	2.83	29.3
40386843		26.9	3.42	138	157.0	0.19	0.024	0.059	0.022	2.73	2.6	0.13	1.02	1.43	2.98	77.1
40386844		24.2	2.42	132	1.9	0.02	0.006	0.017	0.001	0.19	0.4	0.01	0.58	0.10	0.22	51.1
40386845		32.6	3.41	209	43.7	0.69	0.018	0.089	0.020	1.15	4.0	0.20	1.91	1.58	1.71	153.5
40386846		18.2	1.76	95	2.4	0.05	<0.005	0.017	0.001	0.17	0.3	0.01	0.29	0.10	0.14	56.1
40386847		16.2	1.59	92	25.8	0.47	<0.005	0.054	0.006	0.99	1.9	0.10	0.58	1.09	0.92	108.5
40386848		9.6	1.03	42	14.7	0.31	0.005	0.052	0.008	0.70	1.9	0.09	0.88	1.04	0.79	107.5
40386849		25.1	3.01	114	>250	0.41	0.027	0.137	0.052	9.61	4.2	0.37	1.69	2.35	2.75	131.5
40386850		25.3	2.73	115	>250	0.40	0.035	0.144	0.052	5.00	4.4	0.34	1.67	2.39	2.80	123.5
40386851		13.0	1.49	63	>250	0.48	0.031	0.148	0.096	3.10	11.5	0.45	2.29	4.02	2.56	302
40386852		31.8	4.06	147	191.5	0.40	0.025	0.077	0.031	1.32	3.6	0.23	1.81	1.44	2.66	85.3
40386853		31.9	3.93	161	>250	0.52	0.025	0.109	0.031	2.35	3.0	0.21	1.90	1.49	3.02	83.8
40386854		31.9	3.64	198	100.5	0.40	0.009	0.049	0.023	0.39	1.4	0.11	0.69	0.59	1.18	32.1
40386855		31.5	3.31	197	11.6	0.55	0.011	0.052	0.018	0.46	1.3	0.07	1.07	0.30	1.32	14.5
40386856		33.0	3.87	189	14.5	0.69	0.025	0.090	0.029	0.88	2.0	0.11	1.63	0.59	3.83	19.3
40386857		10.4	0.90	49	27.7	0.62	0.053	0.083	0.011	0.88	3.8	0.19	2.48	1.69	1.23	140.5
40386858		15.6	1.71	75	59.4	1.25	0.074	0.122	0.014	1.51	4.2	0.29	3.24	2.76	2.20	168.0
40386859		32.4	3.75	167	38.9	0.42	0.027	0.062	0.025	0.77	1.8	0.10	1.42	0.56	2.95	26.9
40386860		34.8	3.03	298	0.6	0.02	<0.005	0.026	0.001	<0.05	<0.2	0.02	0.32	0.04	0.08	16.7
40386861		13.1	1.17	65	14.6	0.29	0.030	0.047	0.006	0.32	1.7	0.08	0.81	0.73	0.88	81.2
40386862		17.4	1.67	100	33.3	0.28	0.036	0.045	0.011	0.50	1.8	0.06	1.11	0.84	0.62	90.1
40386863		43.8	3.36	51	101.5	8.40	0.018	0.049	0.006	2.39	2.5	0.32	1.16	1.07	3.11	27.2
40386864		26.0	2.35	162	116.5	0.44	0.010	0.060	0.016	0.53	6.1	0.17	1.23	0.67	0.71	211
40386865		34.2	3.28	199	12.1	0.08	<0.005	0.021	0.002	0.26	0.6	0.02	0.29	0.21	0.45	57.8
40386866		26.0	2.64	162	27.3	0.29	0.006	0.051	0.015	0.79	1.3	0.05	0.38	0.43	1.54	17.4
40386867		43.6	2.37	82	42.1	0.12	0.008	0.016	0.003	1.94	1.3	0.04	0.16	0.18	0.88	7.6
40386868		32.8	3.28	205	26.8	0.22	0.005	0.046	0.010	0.28	1.2	0.08	0.30	0.38	0.62	11.1
40386869		38.3	3.35	258	27.2	0.03	<0.005	0.025	0.002	0.77	0.6	0.02	0.32	0.17	0.27	54.0

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40386830		20.8	20.9	1.39	19.7	11.7	18.0	97	<0.001	0.0009	0.002					
40386831		2790	21.4	2.40	1445	9.1	21.1	175	0.039	0.0687	0.289					
40386832		3170	19.4	3.07	1585	11.5	23.3	135	0.044	0.0745	0.322					
40386833		2610	33.4	5.55	1335	15.5	27.5	164	0.032	0.0736	0.261					
40386834		370	71.4	29.8	211	38.8	20.4	420	0.007	0.0049	0.010					
40386835		165.5	57.4	29.8	160.0	37.2	22.4	569	<0.001	0.0026	0.004					
40386836		154.0	52.8	24.5	148.0	33.6	21.2	532	0.006	0.0030	0.004					
40386837		174.0	64.3	27.6	140.5	32.9	22.7	333	<0.001	0.0026	0.003					
40386838		178.0	60.2	31.9	146.0	27.9	20.9	463	0.010	0.0033	0.005					
40386839		173.0	61.0	27.8	139.0	24.4	20.9	541	0.006	0.0033	0.005					
40386840		3720	26.1	4.73	1865	9.8	16.2	113	0.075	0.1410	0.829					
40386841		273	62.2	35.9	205	30.4	21.9	546	0.006	0.0048	0.010					
40386842		437	80.4	22.5	234	45.1	36.7	481	0.007	0.0059	0.024					
40386843		965	75.2	23.3	628	30.9	30.5	442	0.004	0.0154	0.076					
40386844		183.5	30.5	0.95	176.5	6.3	28.1	128	0.003	0.0088	0.011					
40386845		3790	40.1	16.30	1900	27.5	28.6	278	0.050	0.1020	0.366					
40386846		172.0	22.5	1.16	187.0	5.5	28.6	120	0.004	0.0108	0.019					
40386847		2470	15.5	3.32	1185	13.1	23.9	130	0.032	0.0607	0.243					
40386848		2350	23.1	2.54	1265	11.1	14.9	124	0.032	0.0410	0.283					
40386849		2620	73.2	50.4	1575	32.4	22.5	401	0.022	0.0391	0.208	14.45	0.08	0.89	0.014	0.02
40386850		2490	73.5	50.7	1405	33.0	22.6	397	0.011	0.0253	0.175	14.40	0.05	1.09	0.013	0.02
40386851		5700	65.4	56.3	3380	21.1	14.8	359	0.025	0.0478	0.312	11.95	0.05	2.24	0.032	0.03
40386852		1700	61.6	31.1	962	51.4	21.8	414	0.007	0.0377	0.113					
40386853		1510	56.8	36.1	912	49.9	22.3	495	0.009	0.0282	0.140	14.95	0.06	0.63	0.009	0.01
40386854		406	65.0	28.7	235	29.6	21.6	208	0.001	0.0063	0.022					
40386855		144.5	61.1	25.7	88.9	31.1	16.6	188	<0.001	0.0015	0.002					
40386856		184.5	72.6	35.6	150.0	40.7	19.7	472	0.002	0.0025	0.004					
40386857		3940	128.0	3.59	1970	8.9	17.1	122	0.047	0.1055	0.383					
40386858		5420	61.4	6.06	2480	16.1	29.7	218	0.068	0.1570	0.638					
40386859		503	77.1	32.6	272	28.6	20.5	331	0.007	0.0116	0.033					
40386860		24.4	21.1	1.14	15.4	11.8	14.1	83	0.001	0.0012	0.002					
40386861		1650	212	3.94	842	8.3	12.2	110	0.019	0.0353	0.154					
40386862		1420	98.6	5.86	904	9.3	18.4	107	0.010	0.0192	0.096					
40386863		1780	47.0	2.98	529	177.5	8.6	195	0.005	0.0317	0.133					
40386864		2780	32.7	9.39	1700	16.1	25.3	216	0.017	0.0194	0.117					
40386865		379	23.7	2.15	122.0	5.4	30.1	161	0.006	0.0055	0.023					
40386866		163.0	67.1	17.75	105.0	29.7	20.2	223	0.005	0.0105	0.010					
40386867		37.9	129.5	4.57	27.3	13.7	9.2	169	0.002	0.0009	0.002					
40386868		210	54.1	11.40	48.6	26.9	13.2	137	0.002	0.0038	0.007					
40386869		272	22.0	2.01	76.1	7.6	29.1	169	0.005	0.0026	0.010					

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	
		Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %	TiO2 %	Zn %
40386830		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40386831													
40386832													
40386833													
40386834													
40386835													
40386836													
40386837													
40386838													
40386839													
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40386841													
40386842													
40386843													
40386844													
40386845													
40386846													
40386847													
40386848													
40386849		0.265	11.25	16.10	2.4	3.74	0.06	0.154	<0.01	5.10	50.7	0.66	0.040
40386850		0.252	11.25	16.10	2.4	3.50	0.05	0.141	<0.01	5.07	50.5	0.59	0.040
40386851		0.567	22.2	31.7	1.3	4.52	0.07	0.334	<0.01	13.30	36.4	0.41	0.036
40386852													
40386853		0.154	9.24	13.20	2.8	2.52	0.04	0.090	<0.01	5.05	57.3	0.65	0.049
40386854													
40386855													
40386856													
40386857													
40386858													
40386859													
40386860													
40386861													
40386862													
40386863													
40386864													
40386865													
40386866													
40386867													
40386868													
40386869													

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**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40386870	0.02	0.17	44.7	18.60	12.15	9.42	7.54	2.07	1.10	0.341	1.29	0.14	0.16	0.05	0.04	99.49
40386871	0.02	2.69	73.7	11.55	3.42	0.80	1.38	0.98	5.94	0.014	0.51	0.03	0.09	0.02	0.11	99.86
40386872	0.02	11.95	48.1	5.35	6.28	18.40	7.64	0.37	1.95	0.006	0.19	0.99	0.31	0.02	0.04	99.30
40386873	0.02	12.45	45.2	0.95	7.79	23.8	8.26	0.10	0.11	<0.002	0.03	1.52	0.32	0.02	<0.01	98.50
40386874	0.02	11.56	50.6	14.05	13.30	9.50	5.86	2.28	1.55	0.012	1.31	0.34	0.11	0.04	0.05	100.08
40386875	0.02	11.80	58.3	3.92	8.64	14.90	5.45	0.11	1.50	0.011	0.19	0.87	0.44	0.02	0.02	99.86
40386876	0.02	9.14	61.7	3.75	24.2	5.50	3.88	0.13	0.08	0.004	0.19	0.48	0.12	0.01	<0.01	101.38
40387525	0.02	1.39	57.0	18.80	6.76	6.11	2.29	3.90	2.55	0.002	0.90	0.10	0.26	0.07	0.12	99.15
40387526	0.02	4.38	47.7	16.20	12.80	9.47	7.16	2.59	0.57	0.035	1.72	0.16	0.19	0.03	0.02	99.70
40387527	0.02	3.43	48.3	15.45	13.65	9.05	7.01	2.64	0.62	0.034	2.06	0.16	0.18	0.04	0.02	100.30
40387528	0.02	2.04	47.5	16.35	14.35	6.75	6.78	2.35	1.03	0.025	2.41	0.14	0.07	0.05	0.02	100.00
40387529	0.02	2.09	51.2	16.70	13.20	6.26	6.37	2.29	1.20	0.039	2.16	0.13	0.10	0.03	0.02	101.65
40387530	0.02	0.17	43.4	18.35	14.00	9.56	7.81	2.11	0.66	0.318	1.28	0.14	0.14	0.04	0.02	99.22
40387531	0.02	3.12	50.8	16.50	11.55	5.94	5.37	2.54	1.60	0.027	2.58	0.11	0.13	0.04	0.04	99.58
40387532	0.02	2.00	50.1	18.45	10.65	7.35	6.45	5.01	1.02	0.037	0.81	0.11	0.07	0.03	0.03	99.59
40387533	0.02	1.63	50.4	18.60	11.05	7.37	6.47	2.62	0.78	0.039	1.12	0.11	0.07	0.04	0.02	100.33
40387534	0.02	2.54	48.1	19.60	9.95	9.35	6.30	2.25	1.15	0.036	1.08	0.11	0.07	0.04	0.03	100.71
40387535	0.02	1.98	49.5	20.2	8.89	8.56	4.78	2.61	1.59	0.048	0.94	0.09	0.08	0.04	0.03	100.60
40387536	0.02	2.03	51.6	19.05	9.11	7.40	5.27	2.73	1.31	0.065	1.14	0.10	0.09	0.04	0.02	100.96
40387537	0.02	2.84	50.7	19.10	10.15	7.38	6.48	2.36	0.93	0.044	0.68	0.10	0.09	0.04	0.02	100.46
40387538	0.02	2.15	49.9	21.4	8.22	8.65	4.75	2.47	1.29	0.076	0.57	0.08	0.07	0.04	0.02	100.20
40387539	0.02	0.94	51.3	13.60	16.50	4.13	6.17	2.15	1.65	0.070	0.85	0.11	0.15	0.03	0.03	99.55
40387540	0.02	0.95	52.1	13.70	16.10	4.16	5.97	2.21	1.58	0.071	0.86	0.11	0.16	0.02	0.03	99.69
40387541	0.02	2.46	51.5	16.45	10.80	6.32	7.38	2.69	0.90	0.056	0.89	0.11	0.14	0.03	0.02	100.57
40387542	0.02	2.29	48.0	21.3	8.60	10.05	6.06	2.48	0.78	0.048	0.67	0.09	0.08	0.04	0.02	100.07
40387543	0.02	1.66	45.2	20.5	10.45	10.10	7.10	2.06	0.44	0.397	0.78	0.10	0.06	0.03	0.01	99.66
40387544	0.02	1.42	46.3	20.3	10.55	10.15	7.22	2.26	0.46	0.035	0.76	0.11	0.08	0.03	0.01	100.41
40387545	0.02	3.05	44.9	19.65	10.50	10.50	7.24	2.11	0.44	0.032	0.91	0.12	0.09	0.03	0.01	98.91
40387546	0.02	2.32	43.4	19.65	10.20	10.50	7.74	1.93	0.35	0.036	0.71	0.12	0.08	0.03	0.01	99.46
40387547	0.02	1.73	43.4	19.25	10.70	10.15	7.86	1.97	0.36	0.035	0.74	0.12	0.07	0.03	0.01	98.62
40387548	0.02	1.98	44.4	20.1	10.55	10.20	7.54	2.05	0.48	0.049	0.67	0.11	0.08	0.03	0.01	99.42
40387549	0.02	1.93	44.2	20.4	11.00	10.95	5.45	2.26	0.60	0.170	0.91	0.10	0.10	0.04	0.01	99.52
40387550	0.02	1.23	58.3	17.70	7.18	5.81	2.52	3.70	2.75	0.003	0.99	0.11	0.32	0.06	0.13	99.93
40387551	0.02	2.27	44.5	21.2	9.55	10.75	5.83	2.26	0.74	0.121	0.75	0.09	0.07	0.04	0.01	99.41
40387552	0.02	2.54	44.1	21.7	7.07	11.90	5.74	2.36	0.60	0.051	0.59	0.08	0.06	0.05	0.01	99.10
40387553	0.02	2.92	45.7	22.4	6.91	11.85	5.66	2.39	0.75	0.066	0.75	0.09	0.09	0.05	0.01	100.96
40387554	0.02	3.07	44.5	21.0	9.03	10.35	8.15	2.01	0.53	0.197	0.71	0.11	0.08	0.05	0.01	100.95
40387555	0.02	1.86	44.6	20.8	8.83	10.80	6.00	2.35	0.52	0.345	0.98	0.10	0.14	0.04	0.02	98.55
40387556	0.02	2.89	44.5	21.6	9.05	10.75	6.69	2.08	0.47	0.545	0.86	0.10	0.09	0.04	0.01	99.59
40387557	0.02	2.91	45.4	20.00	10.45	10.25	7.40	2.29	0.40	0.194	0.87	0.12	0.09	0.04	0.01	99.68

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
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Page: 3 - B  
 Total # Pages: 6 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386870		1.89	0.02	0.35	335	27.9	2600	2.66	3.36	1.83	1.25	20.9	3.60	2.8	0.77	12.6
40386871		1.32	0.24	0.06	942	66.3	110	4.16	6.00	3.94	1.24	17.2	6.24	4.9	1.34	32.5
40386872		9.65	2.81	0.56	363	53.5	40	4.96	5.68	3.21	1.24	9.9	5.71	2.8	1.23	27.1
40386873		10.40	2.97	0.42	38.1	15.3	10	0.30	1.16	0.73	0.27	3.5	1.31	0.3	0.27	7.4
40386874		1.08	0.02	0.04	446	25.4	90	1.92	4.00	2.09	1.24	20.5	4.01	2.8	0.83	10.9
40386875		5.49	1.49	0.38	135.0	36.3	90	3.15	4.80	3.11	1.34	8.7	5.95	1.2	1.15	23.7
40386876		1.34	0.18	0.04	15.4	23.3	40	3.94	1.06	0.54	0.33	6.5	1.56	1.6	0.21	9.7
40387525		0.29	0.03	0.10	1075	65.7	20	1.21	5.83	3.28	1.82	23.7	6.77	7.3	1.25	28.6
40387526		1.05	<0.01	0.08	191.5	35.2	260	2.15	4.57	2.81	1.50	21.7	5.16	3.5	1.05	15.9
40387527		1.09	<0.01	0.13	175.0	32.5	250	1.29	4.07	2.14	1.60	21.0	4.50	3.1	0.83	14.5
40387528		2.17	0.01	0.53	217	21.9	190	3.28	1.94	1.05	1.71	20.3	2.17	1.4	0.39	10.5
40387529		1.95	0.01	0.11	204	31.8	290	4.94	2.93	1.69	1.62	22.2	3.29	2.5	0.66	15.9
40387530		1.39	0.02	0.92	156.5	25.0	2350	2.70	3.18	1.79	1.13	19.7	3.55	2.5	0.69	11.3
40387531		2.35	0.02	0.07	363	38.6	190	4.76	3.60	2.03	1.46	21.1	3.83	2.9	0.79	18.6
40387532		1.97	<0.01	0.18	218	20.9	270	3.05	2.01	1.12	1.17	19.9	1.96	1.7	0.43	10.4
40387533		1.64	<0.01	0.25	176.5	21.3	290	2.62	1.90	1.26	1.13	19.0	2.05	1.8	0.46	10.4
40387534		2.64	<0.01	0.15	224	19.3	270	1.69	2.16	1.18	1.06	19.0	2.43	1.9	0.46	8.9
40387535		3.24	0.05	0.35	246	23.3	370	1.67	2.04	1.18	1.13	20.6	2.65	1.8	0.45	11.2
40387536		3.03	0.04	0.13	220	30.3	500	2.36	2.70	1.47	1.04	20.9	2.91	2.8	0.58	14.6
40387537		2.39	0.03	0.08	184.5	26.5	340	3.20	2.29	1.29	1.40	21.0	2.52	2.0	0.49	12.4
40387538		2.66	0.03	0.34	215	25.0	590	3.03	2.13	1.21	1.24	21.8	2.41	2.0	0.45	11.8
40387539		2.81	0.03	2.54	301	52.7	540	4.44	4.72	2.85	1.30	19.7	5.09	4.9	0.98	25.2
40387540		2.62	0.03	2.35	324	53.4	590	4.77	4.82	2.82	1.57	20.7	5.52	4.8	1.07	26.6
40387541		3.28	0.04	0.10	188.5	38.1	430	2.70	3.67	2.02	1.13	19.9	4.34	3.1	0.80	18.9
40387542		1.85	0.02	0.11	178.5	17.8	370	2.23	1.82	1.24	0.96	20.4	2.02	1.7	0.39	8.7
40387543		2.43	0.02	0.66	118.0	13.7	3050	2.19	1.79	1.00	0.94	19.2	1.79	1.2	0.34	6.8
40387544		2.14	0.02	0.36	125.0	15.9	270	2.58	2.17	1.19	1.00	19.2	2.09	1.5	0.44	7.7
40387545		2.38	0.02	0.11	117.5	16.1	240	2.10	2.18	1.21	0.98	18.1	2.23	1.6	0.50	7.8
40387546		4.70	0.03	0.12	83.7	12.5	270	2.32	1.87	0.92	0.89	17.2	2.04	1.4	0.40	6.0
40387547		3.92	0.03	0.17	91.2	15.4	270	2.59	2.11	1.13	0.89	17.8	2.20	1.5	0.45	7.6
40387548		3.15	0.02	0.15	114.0	15.6	370	2.68	2.02	1.15	0.80	17.7	2.15	1.5	0.41	7.5
40387549		3.33	0.02	0.37	127.5	18.5	1290	2.45	2.51	1.38	1.01	19.5	2.93	2.1	0.48	8.7
40387550		0.36	0.05	0.11	1190	60.4	30	1.22	6.13	3.09	1.82	22.7	6.83	8.9	1.27	27.9
40387551		3.50	0.02	0.47	129.0	11.9	920	3.03	1.99	1.07	0.87	18.0	1.93	1.2	0.38	5.6
40387552		4.79	0.02	0.11	99.5	13.4	400	2.61	1.89	0.93	0.82	18.4	1.95	1.3	0.38	6.6
40387553		4.24	0.02	0.04	116.5	15.3	520	3.10	2.15	1.26	0.91	19.9	2.14	1.5	0.46	7.5
40387554		4.22	0.03	0.04	96.5	12.7	1500	2.96	1.77	1.09	0.85	18.6	1.97	1.3	0.40	6.0
40387555		3.02	0.02	0.28	143.5	23.5	2650	2.50	3.11	1.75	1.06	20.3	3.62	2.3	0.70	11.1
40387556		2.80	0.02	0.05	112.5	15.9	4160	2.62	2.15	1.19	0.85	20.2	2.40	1.9	0.43	7.7
40387557		2.17	0.03	0.04	113.0	13.8	1460	1.90	1.99	1.26	0.92	18.5	1.97	1.6	0.43	6.6

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
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Page: 3 - C  
 Total # Pages: 6 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386870		0.26	7.8	15.1	3.75	34.5	3.77	2	421	0.5	0.59	1.34	0.30	0.36	180	<1
40386871		0.66	12.1	31.8	8.42	149.0	6.75	1	165.5	0.8	1.03	8.04	0.61	8.73	197	2
40386872		0.41	6.6	28.6	7.19	70.8	6.11	3	196.5	0.4	0.90	3.95	0.46	6.84	235	1
40386873		0.11	1.0	6.2	1.54	3.2	1.04	1	141.0	0.1	0.18	0.41	0.10	3.18	50	<1
40386874		0.33	4.3	15.5	3.42	52.7	4.00	1	338	0.3	0.70	1.43	0.32	0.46	329	<1
40386875		0.33	3.1	24.7	5.92	57.0	4.95	1	149.0	0.3	0.83	2.06	0.38	26.3	2010	1
40386876		0.05	5.4	8.0	2.08	5.8	1.34	<1	37.7	0.2	0.15	3.38	0.08	0.45	28	4
40387525		0.50	14.8	36.3	8.98	93.9	7.87	2	605	0.8	1.06	4.38	0.51	1.50	109	1
40387526		0.39	10.3	19.7	4.68	16.4	4.76	1	261	0.6	0.84	1.90	0.42	0.54	245	<1
40387527		0.34	10.6	17.9	4.30	17.0	4.32	1	323	0.7	0.72	1.94	0.36	0.75	317	<1
40387528		0.17	8.0	10.9	2.89	37.5	2.54	1	448	0.6	0.37	2.11	0.15	1.20	474	1
40387529		0.29	8.9	16.1	4.06	49.0	3.37	1	274	0.6	0.50	2.80	0.30	1.67	416	1
40387530		0.24	7.5	13.6	3.27	21.8	3.19	2	348	0.5	0.58	1.12	0.26	0.27	168	1
40387531		0.32	11.0	19.2	4.92	58.7	4.03	1	312	0.8	0.59	3.27	0.31	1.83	306	1
40387532		0.18	4.8	10.6	2.70	33.1	2.33	1	287	0.4	0.35	1.84	0.16	0.95	153	1
40387533		0.17	5.9	10.6	2.72	24.5	2.27	1	274	0.4	0.31	1.81	0.18	0.93	160	1
40387534		0.19	5.1	10.0	2.53	35.3	2.35	1	321	0.4	0.37	1.49	0.19	0.76	138	1
40387535		0.20	5.5	12.1	2.96	49.2	2.56	1	340	0.4	0.40	2.10	0.17	1.01	140	1
40387536		0.25	7.2	14.9	3.83	41.7	3.39	1	296	0.5	0.44	2.81	0.23	1.43	147	1
40387537		0.18	5.5	13.4	3.32	33.9	2.69	1	292	0.4	0.40	2.23	0.20	1.07	141	<1
40387538		0.16	5.1	12.1	3.26	45.8	2.79	1	327	0.4	0.38	2.12	0.19	1.15	109	1
40387539		0.46	9.6	26.2	6.72	66.4	5.53	1	200	0.6	0.81	5.07	0.42	2.50	315	1
40387540		0.45	13.0	27.0	6.64	69.2	5.70	1	210	0.6	0.92	5.01	0.44	2.53	332	1
40387541		0.32	9.5	19.3	4.78	35.1	4.13	1	227	0.4	0.69	3.52	0.34	1.51	169	1
40387542		0.18	4.5	10.0	2.20	28.4	2.19	<1	321	0.1	0.33	1.20	0.17	0.54	93	2
40387543		0.16	3.7	7.6	1.76	13.3	1.98	1	284	0.2	0.31	0.80	0.15	0.27	172	<1
40387544		0.17	4.4	8.8	2.11	14.0	2.11	<1	300	0.1	0.36	0.83	0.16	0.24	109	<1
40387545		0.18	4.8	9.1	2.07	13.7	2.24	1	278	0.1	0.34	0.70	0.16	0.28	115	1
40387546		0.15	3.7	7.3	1.64	10.8	1.98	1	259	0.1	0.34	0.52	0.14	0.14	98	<1
40387547		0.20	4.1	8.9	1.98	11.9	2.39	1	259	0.1	0.37	0.74	0.15	0.25	97	<1
40387548		0.16	4.1	8.8	1.96	17.0	2.15	1	280	0.1	0.34	0.98	0.15	0.32	91	1
40387549		0.19	5.1	10.4	2.34	23.3	2.59	1	304	0.1	0.39	0.94	0.20	0.27	148	1
40387550		0.48	13.0	35.3	7.86	101.0	7.89	2	551	0.5	1.03	3.11	0.48	1.40	127	1
40387551		0.12	3.6	6.8	1.54	29.5	1.78	2	384	0.1	0.36	0.45	0.16	0.14	126	1
40387552		0.12	3.5	7.6	1.75	24.5	1.81	1	405	0.1	0.31	0.68	0.17	0.22	86	<1
40387553		0.15	4.4	8.7	2.03	30.2	2.32	1	448	0.2	0.36	0.67	0.18	0.19	101	<1
40387554		0.14	3.7	7.5	1.70	17.3	1.91	1	382	0.1	0.32	0.61	0.15	0.13	105	<1
40387555		0.24	6.6	13.6	3.10	18.4	3.41	1	354	0.3	0.55	1.18	0.25	0.28	140	1
40387556		0.19	4.5	9.2	2.10	14.7	2.07	1	369	0.1	0.38	0.76	0.17	0.22	167	<1
40387557		0.14	4.2	7.9	1.74	11.4	2.00	<1	307	0.1	0.31	0.51	0.16	0.12	141	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386870		19.2	1.98	103	4.1	0.13	0.008	0.030	0.003	0.34	1.1	0.05	0.45	0.46	0.29	64.4
40386871		37.7	3.98	181	22.5	0.09	<0.005	0.042	0.013	0.33	0.6	0.09	0.18	0.33	0.14	11.0
40386872		41.0	2.67	99	32.9	0.05	<0.005	0.026	0.003	0.45	0.6	0.04	0.13	0.11	0.42	7.2
40386873		10.7	0.60	10	27.2	0.02	<0.005	0.005	0.001	0.14	0.4	0.03	0.08	0.07	0.28	6.2
40386874		22.6	2.09	99	31.2	0.03	<0.005	0.010	0.001	0.09	0.2	0.01	0.10	0.08	0.14	47.8
40386875		50.7	2.12	47	76.7	0.03	0.006	0.017	0.007	0.36	0.8	0.04	0.32	0.11	0.79	11.4
40386876		7.5	0.54	67	31.2	0.03	0.006	0.009	<0.001	0.08	<0.2	0.03	0.06	0.02	0.05	20.6
40387525		35.0	3.42	285	0.6	0.01	<0.005	0.026	0.001	<0.05	<0.2	0.01	0.33	0.02	0.07	15.9
40387526		26.5	2.59	137	2.1	0.01	<0.005	0.017	0.001	0.06	0.3	0.01	0.13	0.70	0.18	51.1
40387527		22.3	1.87	128	28.2	0.03	<0.005	0.018	0.001	0.30	0.5	0.02	0.16	0.12	0.18	57.3
40387528		10.7	1.00	54	121.5	0.07	<0.005	0.035	0.004	0.82	2.0	0.06	0.61	0.31	0.32	98.2
40387529		17.5	1.90	88	15.2	0.02	0.006	0.017	0.002	0.23	0.5	0.02	0.43	0.05	0.19	50.6
40387530		18.1	1.71	102	8.3	0.53	0.009	0.053	0.010	0.33	3.2	0.19	0.33	1.47	0.44	97.7
40387531		20.2	2.20	107	8.6	0.02	0.007	0.018	0.001	0.19	<0.2	<0.01	0.36	0.02	0.12	37.9
40387532		11.4	1.08	61	120.0	0.05	<0.005	0.036	0.003	0.78	0.9	0.06	0.34	0.19	0.23	55.0
40387533		11.2	1.20	66	3.7	0.08	0.008	0.029	0.003	0.21	1.0	0.05	0.42	0.29	0.17	53.3
40387534		12.1	1.24	68	17.7	0.04	<0.005	0.024	0.004	0.19	0.9	0.03	0.26	0.25	0.17	52.0
40387535		12.4	1.33	69	3.1	0.08	0.009	0.042	0.005	0.12	1.6	0.08	0.23	0.44	0.28	47.0
40387536		14.7	1.48	103	8.2	0.11	<0.005	0.028	0.001	0.17	0.8	0.04	0.20	0.21	0.17	37.4
40387537		13.3	1.41	78	2.9	0.04	0.007	0.017	0.001	0.09	<0.2	0.01	0.29	0.07	0.15	40.9
40387538		12.4	1.29	76	16.0	0.09	0.005	0.045	0.003	0.22	1.1	0.09	0.29	0.46	0.35	42.2
40387539		27.5	2.48	182	3.5	0.08	<0.005	0.036	0.009	0.12	2.7	0.06	0.39	0.18	0.23	131.5
40387540		26.9	2.85	187	3.3	0.07	<0.005	0.035	0.008	0.11	2.5	0.05	0.39	0.19	0.21	126.5
40387541		19.5	2.15	122	2.3	0.03	0.005	0.019	0.001	0.10	0.2	0.02	0.27	0.05	0.11	41.6
40387542		10.4	1.05	62	1.7	0.01	0.005	0.014	0.001	0.06	0.3	0.01	0.16	0.09	0.08	43.5
40387543		9.0	1.01	48	4.9	0.61	0.007	0.045	0.011	0.41	3.2	0.20	0.21	0.95	0.32	78.5
40387544		11.0	0.93	59	12.4	0.25	0.007	0.039	0.005	0.35	1.9	0.16	0.20	0.61	0.39	55.9
40387545		11.6	1.20	63	4.5	0.02	0.005	0.019	0.001	0.10	0.3	0.03	0.11	0.23	0.23	53.5
40387546		9.6	0.99	53	3.4	0.02	0.010	0.020	0.001	0.07	0.5	0.03	0.09	0.20	0.36	57.0
40387547		11.1	1.10	64	8.8	0.03	<0.005	0.022	0.002	0.10	0.7	0.04	0.09	0.30	0.28	72.3
40387548		10.8	1.07	64	5.2	0.04	<0.005	0.024	0.002	0.13	0.7	0.05	0.12	0.33	0.31	73.6
40387549		13.5	1.30	77	40.1	0.12	0.008	0.049	0.002	0.44	1.3	0.10	0.10	0.61	0.57	85.6
40387550		32.7	3.15	351	0.8	0.01	<0.005	0.031	0.001	<0.05	0.2	0.02	0.38	0.02	0.07	18.5
40387551		9.3	0.97	49	41.9	0.15	0.005	0.045	0.001	0.52	2.4	0.15	0.10	0.77	0.30	74.6
40387552		9.6	0.88	54	14.6	0.02	0.006	0.015	0.001	0.14	0.7	0.04	0.04	0.17	0.11	38.7
40387553		11.3	0.96	61	5.6	0.01	<0.005	0.013	0.001	0.10	0.3	0.01	0.04	0.07	0.07	33.6
40387554		9.6	1.02	50	20.0	0.01	0.009	0.011	0.001	0.18	0.3	0.01	0.10	0.06	0.06	51.1
40387555		16.7	1.68	94	141.0	0.05	<0.005	0.030	0.004	0.66	2.9	0.15	0.09	0.51	0.18	50.6
40387556		11.2	1.20	74	38.8	0.05	0.005	0.014	0.001	0.39	0.6	0.04	0.11	0.11	0.07	48.8
40387557		10.5	1.00	60	31.5	0.05	<0.005	0.015	0.001	0.20	0.3	0.02	0.06	0.07	0.10	50.0

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40386870		1100	38.5	2.97	684	6.3	17.1	108	0.018	0.0405	0.203					
40386871		291	36.0	17.55	57.5	33.7	14.7	63	0.001	0.0051	0.009					
40386872		39.7	33.0	3.73	15.9	8.9	5.0	117	0.001	0.0007	0.001					
40386873		28.6	19.5	1.91	7.0	5.9	0.8	74	0.001	<0.0005	0.001					
40386874		149.5	27.2	0.83	76.0	4.9	32.9	98	0.005	0.0062	0.021					
40386875		31.8	42.9	12.20	27.0	11.3	5.6	161	0.002	0.0006	0.001					
40386876		12.5	29.1	0.73	10.1	6.2	4.3	26	0.001	<0.0005	<0.001					
40387525		15.4	17.3	0.83	11.4	11.5	14.7	82	0.001	<0.0005	0.001					
40387526		236	20.2	2.41	141.0	5.2	29.4	112	0.004	0.0081	0.008					
40387527		357	18.4	2.84	144.0	3.8	32.4	107	0.006	0.0068	0.009					
40387528		1040	39.9	4.86	374	5.4	24.2	112	0.017	0.0088	0.027					
40387529		118.0	32.9	2.18	139.5	5.4	38.6	104	0.003	0.0047	0.007					
40387530		3900	24.2	4.77	1940	7.9	19.8	113	0.078	0.1670	0.782					
40387531		47.7	35.9	1.80	68.4	4.7	30.5	86	0.002	0.0016	0.002					
40387532		525	26.9	1.55	304	3.6	20.6	92	0.012	0.0169	0.044					
40387533		858	23.1	0.91	489	3.3	19.3	96	0.014	0.0324	0.123					
40387534		767	27.1	0.78	552	2.5	16.6	79	0.020	0.0340	0.101					
40387535		1190	20.3	0.86	714	3.0	14.6	91	0.015	0.0510	0.117					
40387536		539	22.1	0.95	358	4.3	15.9	86	0.014	0.0438	0.190					
40387537		153.0	23.1	1.09	143.0	4.5	17.9	102	0.005	0.0111	0.030					
40387538		989	22.9	1.02	637	5.3	11.8	89	0.026	0.0475	0.138					
40387539		764	28.4	14.95	563	8.4	28.9	121	0.011	0.0148	0.026					
40387540		717	31.2	15.55	482	8.7	29.2	123	0.007	0.0058	0.013					
40387541		91.1	23.5	1.21	142.5	5.0	21.2	90	0.004	0.0034	0.006					
40387542		254	17.8	0.64	249	1.8	13.0	65	0.003	0.0060	0.020					
40387543		2710	20.4	0.73	1735	1.7	13.4	90	0.063	0.1550	0.910					
40387544		1610	15.8	0.68	919	1.7	13.0	83	0.029	0.0977	0.352					
40387545		262	18.7	0.64	293	2.3	15.1	79	0.009	0.0071	0.014					
40387546		403	24.6	0.51	317	3.0	12.9	73	0.002	0.0068	0.011					
40387547		438	21.6	1.07	374	2.1	13.0	73	0.020	0.0102	0.009					
40387548		410	20.4	1.22	423	2.9	11.4	72	0.006	0.0119	0.010					
40387549		963	20.9	2.47	623	5.4	16.8	72	0.026	0.0325	0.079					
40387550		21.4	17.6	0.86	16.6	11.3	16.5	90	0.001	<0.0005	0.001					
40387551		1100	26.0	1.76	686	4.6	13.9	62	0.020	0.0394	0.103					
40387552		318	31.9	0.43	263	1.8	9.4	50	0.009	0.0401	0.019					
40387553		132.0	24.8	0.49	187.5	1.1	9.7	49	0.005	0.0311	0.042					
40387554		126.0	30.0	0.40	350	2.1	11.4	66	0.004	0.0108	0.045					
40387555		1810	19.6	0.81	1180	1.1	15.0	73	0.041	0.108	0.377					
40387556		268	17.6	0.57	417	1.0	11.6	80	0.016	0.0553	0.199					
40387557		211	12.9	0.50	234	0.9	14.7	78	0.009	0.0269	0.090					

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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 Account: RTECIKBZ

Project: EB80000961

<b>CERTIFICATE OF ANALYSIS TB18208332</b>
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Sample Description	Method Analyte Units LOD	ME-ICP81 Cu %	ME-ICP81 Fe %	ME-ICP81 Fe2O3 %	ME-ICP81 K %	ME-ICP81 MgO %	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40386870		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40386871													
40386872													
40386873													
40386874													
40386875													
40386876													
40387525													
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Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387558		2.16	48.7	16.30	10.50	11.25	7.36	2.76	0.44	0.108	1.19	0.14	0.11	0.03	0.02	100.45
40387559		2.17	47.7	16.80	12.50	9.91	7.95	2.78	0.37	0.052	1.43	0.16	0.13	0.03	0.02	100.39
40387560		0.17	43.3	18.15	14.10	9.46	7.66	2.15	0.65	0.326	1.31	0.15	0.15	0.04	0.02	98.77
40387561		2.63	48.6	19.00	10.15	10.05	7.30	3.02	0.44	0.066	1.01	0.13	0.10	0.03	0.02	100.43
40387562		2.56	47.2	18.00	11.60	10.15	8.18	2.51	0.40	0.073	1.22	0.14	0.12	0.03	0.02	100.80
40387563		3.17	46.8	18.80	11.15	10.25	7.77	2.47	0.39	0.055	1.22	0.14	0.13	0.04	0.01	100.44
40387564		4.01	46.8	19.85	10.35	10.65	8.37	2.39	0.30	0.063	0.93	0.13	0.10	0.03	0.01	100.64
40387565		6.32	45.5	20.3	9.43	10.75	7.74	2.29	0.32	0.065	0.91	0.11	0.10	0.04	0.01	98.85
40387566		6.19	45.8	20.5	9.44	10.85	8.09	2.26	0.25	0.067	0.83	0.11	0.10	0.03	0.01	99.28
40387567		6.26	45.9	20.3	9.73	10.90	8.46	2.22	0.24	0.065	0.84	0.12	0.09	0.03	0.01	99.60
40387568		6.35	46.4	20.6	9.86	11.20	7.89	2.20	0.29	0.036	0.98	0.12	0.12	0.04	0.01	100.32
40387569		2.93	46.9	20.0	10.95	10.95	7.60	2.32	0.34	0.032	1.24	0.14	0.15	0.03	0.02	101.23
40387570		2.86	46.7	19.90	10.80	10.85	7.58	2.33	0.34	0.030	1.25	0.13	0.15	0.03	0.02	100.62
40387571		6.12	47.4	19.95	11.10	11.05	6.83	2.44	0.38	0.034	1.28	0.14	0.17	0.03	0.02	101.33
40387572		6.58	48.4	17.65	12.45	10.30	6.63	2.78	0.46	0.035	1.57	0.16	0.19	0.03	0.02	101.20
40387573		6.57	48.2	16.95	12.75	10.55	7.63	2.60	0.39	0.047	1.38	0.17	0.14	0.03	0.02	101.16
40387574		6.56	47.2	16.85	12.80	10.55	7.76	2.55	0.39	0.046	1.35	0.17	0.13	0.03	0.02	100.43
40387575		6.18	47.6	15.35	14.35	10.05	6.63	2.73	0.52	0.033	2.08	0.19	0.21	0.03	0.02	100.30
40387576		6.63	48.3	14.70	14.95	9.68	5.78	2.92	0.65	0.026	2.40	0.20	0.26	0.03	0.03	100.49
40387577		6.35	48.0	14.65	14.85	9.96	5.94	2.86	0.62	0.034	2.23	0.20	0.25	0.03	0.03	100.26
40387578		6.39	48.4	15.05	14.95	9.41	5.90	2.96	0.68	0.026	2.19	0.20	0.27	0.03	0.03	100.75
40387579		6.60	48.4	14.55	14.15	10.35	6.17	2.82	0.61	0.041	2.18	0.19	0.24	0.03	0.03	100.24
40387580		1.31	57.9	19.00	6.87	6.29	2.28	4.03	2.48	0.002	0.89	0.10	0.26	0.07	0.11	100.61
40387581		6.39	48.7	14.85	14.20	10.35	6.18	2.86	0.62	0.038	2.32	0.19	0.24	0.03	0.03	101.31
40387582		6.81	48.5	14.90	13.85	10.60	6.44	2.79	0.58	0.045	2.13	0.19	0.21	0.03	0.02	100.67
40387583		6.25	48.6	15.60	14.55	9.66	6.09	2.92	0.64	0.026	2.05	0.19	0.24	0.03	0.03	101.37
40387584		6.23	48.6	15.55	13.75	10.25	6.24	2.87	0.56	0.034	2.06	0.18	0.23	0.03	0.02	101.11
40387585		5.99	48.9	15.30	13.00	10.85	6.54	2.77	0.53	0.054	1.85	0.18	0.21	0.03	0.02	100.81
40387586		6.26	49.0	15.70	13.40	10.45	6.38	2.84	0.56	0.041	1.89	0.18	0.21	0.03	0.02	101.17
40387587		6.31	49.0	15.60	13.65	10.40	6.24	2.85	0.59	0.039	2.02	0.18	0.22	0.03	0.03	101.52
40387588		6.44	47.5	15.50	14.00	9.80	6.17	2.81	0.53	0.033	2.14	0.19	0.21	0.03	0.03	99.99
40387589		6.46	47.5	15.60	14.40	9.59	6.12	2.83	0.57	0.030	2.20	0.19	0.22	0.03	0.02	99.92
40387590		0.17	44.0	18.50	12.20	9.32	7.40	2.12	1.09	0.352	1.34	0.14	0.14	0.05	0.04	98.61
40387591		6.30	47.9	15.65	14.00	9.94	6.15	2.84	0.57	0.035	2.16	0.18	0.22	0.03	0.02	100.22
40387592		6.49	47.9	15.85	14.10	9.72	5.80	2.86	0.59	0.030	2.09	0.18	0.22	0.03	0.02	100.03
40387593		5.98	47.1	15.55	14.15	9.93	5.50	2.83	0.56	0.032	2.24	0.18	0.22	0.03	0.03	99.25
40387594		5.07	47.0	15.40	13.05	10.50	5.77	2.72	0.51	0.043	1.99	0.17	0.19	0.03	0.02	98.32
40387595		5.62	47.8	15.30	13.50	10.25	5.05	3.03	0.65	0.036	2.81	0.18	0.24	0.03	0.02	99.77
40387596		6.05	49.1	15.05	12.75	10.80	5.28	2.99	0.65	0.051	2.31	0.18	0.24	0.03	0.02	100.34
40387597		4.23	48.3	15.85	12.30	10.50	4.38	3.36	0.83	0.042	2.70	0.16	0.20	0.03	0.03	99.53

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - B  
 Total # Pages: 6 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40387558		1.54	0.02	0.04	162.0	20.5	840	1.19	3.49	1.96	1.25	19.6	3.37	2.4	0.77	9.5
40387559		0.56	0.02	0.05	146.0	21.2	410	0.97	3.35	1.80	1.14	20.5	3.50	2.4	0.69	9.9
40387560		1.30	0.04	0.91	160.0	23.8	2420	2.52	3.45	1.85	1.25	19.5	3.46	2.6	0.69	11.4
40387561		0.51	0.01	0.04	146.0	16.4	500	0.90	2.59	1.36	0.97	19.5	2.58	1.7	0.53	7.7
40387562		1.16	0.02	0.04	138.0	23.0	560	1.31	3.09	1.99	1.16	18.9	3.32	2.5	0.66	10.7
40387563		1.21	0.02	0.03	135.5	21.6	420	1.04	3.21	1.76	1.08	19.1	3.27	2.5	0.69	10.1
40387564		0.67	0.02	0.03	115.0	17.4	480	0.96	2.56	1.52	1.04	18.2	2.75	1.7	0.55	8.4
40387565		1.28	0.02	0.02	119.0	18.6	510	1.38	2.50	1.43	0.90	18.4	2.85	1.8	0.53	9.1
40387566		0.94	0.01	0.02	106.0	16.0	510	0.84	2.37	1.27	0.89	17.9	2.37	1.6	0.47	7.8
40387567		0.69	0.02	0.01	104.5	15.1	510	0.84	1.99	1.29	0.87	17.9	2.40	1.7	0.47	7.1
40387568		0.57	0.01	0.02	120.0	19.3	270	0.66	2.79	1.54	1.02	18.7	2.89	2.1	0.62	9.0
40387569		0.56	0.01	0.03	146.0	25.2	240	0.80	3.33	1.92	1.21	20.1	3.66	2.6	0.71	12.0
40387570		0.51	0.02	0.03	144.0	24.1	230	1.00	3.44	2.02	1.21	19.5	3.72	2.8	0.76	11.4
40387571		0.51	0.02	0.04	158.0	25.8	250	0.81	3.44	2.06	1.23	20.7	3.78	2.6	0.76	12.3
40387572		0.52	0.02	0.04	194.0	29.5	260	0.69	4.53	2.53	1.37	21.2	4.81	3.1	0.88	13.8
40387573		0.30	0.02	0.04	153.5	25.2	350	0.68	3.69	1.93	1.10	19.6	3.75	2.7	0.77	12.1
40387574		0.58	0.02	0.04	150.5	23.1	340	0.89	3.58	1.94	1.22	17.7	3.50	2.6	0.73	10.4
40387575		0.51	0.02	0.05	199.5	37.2	250	0.71	5.25	3.34	1.59	20.2	5.73	3.9	1.12	16.3
40387576		0.56	0.02	0.10	246	47.3	200	0.78	6.81	3.66	1.86	21.7	6.94	5.1	1.29	20.9
40387577		0.61	0.02	0.09	232	43.3	260	0.69	6.17	3.52	1.79	21.5	6.90	4.4	1.25	19.2
40387578		0.65	0.02	0.08	243	45.8	200	0.82	6.20	3.56	1.79	21.2	6.88	5.0	1.21	20.5
40387579		0.48	0.03	0.09	225	42.7	310	0.69	6.14	3.39	1.77	20.8	6.97	4.9	1.24	18.6
40387580		0.33	0.06	0.10	946	64.7	20	1.15	6.56	3.31	1.62	22.1	7.41	8.3	1.20	28.4
40387581		0.70	0.02	0.07	223	42.7	280	0.73	6.32	3.62	1.85	21.0	6.41	4.5	1.17	19.0
40387582		0.38	0.01	0.06	207	39.4	340	0.67	5.71	3.50	1.66	20.0	5.98	4.4	1.07	17.1
40387583		0.74	0.02	0.06	230	42.8	200	0.74	5.81	3.40	1.71	21.4	6.52	4.8	1.32	19.0
40387584		0.74	0.03	0.06	213	41.1	250	0.78	5.54	3.41	1.60	20.6	5.94	4.4	1.13	18.1
40387585		0.58	0.02	0.04	195.0	35.7	410	0.71	5.26	3.09	1.59	20.2	5.54	3.7	1.04	15.9
40387586		0.47	0.02	0.06	207	37.8	310	0.64	5.43	3.20	1.57	20.1	5.89	4.0	1.05	16.4
40387587		0.67	0.02	0.06	263	39.2	300	0.71	5.42	3.34	1.73	21.0	5.76	4.3	1.10	17.6
40387588		1.05	0.02	0.04	227	43.9	260	0.74	5.65	3.27	1.82	21.0	6.75	4.3	1.16	19.8
40387589		0.62	0.02	0.04	216	42.0	230	0.74	5.50	3.60	1.58	21.2	6.26	4.4	1.14	18.7
40387590		1.92	0.04	0.35	340	27.9	2660	2.42	3.60	1.94	1.22	19.2	3.73	2.7	0.68	12.6
40387591		0.52	0.02	0.06	207	38.0	260	0.59	5.70	3.17	1.70	20.7	6.03	4.1	1.12	16.8
40387592		0.64	0.02	0.03	220	39.9	230	0.77	5.56	3.30	1.72	20.9	5.88	4.3	1.11	17.8
40387593		0.90	0.02	0.05	266	39.0	240	0.73	5.41	3.21	1.69	21.2	5.42	4.4	1.10	17.3
40387594		0.93	0.02	0.04	196.0	34.2	320	0.64	4.87	2.85	1.57	19.9	5.67	3.7	0.97	15.0
40387595		0.87	0.01	0.02	209	44.2	270	0.82	6.33	3.65	1.96	21.0	6.59	5.0	1.28	19.6
40387596		0.89	0.01	0.02	208	44.8	390	0.81	6.51	3.67	1.86	21.7	6.70	4.9	1.31	19.6
40387597		0.85	0.02	0.04	256	39.6	310	1.33	5.76	3.30	1.84	21.7	6.26	4.4	1.15	17.6

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - C  
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 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40387558		0.28	6.1	12.5	2.66	11.6	3.38	1	265	0.2	0.58	0.82	0.28	0.20	237	<1
40387559		0.27	6.9	12.5	2.77	8.5	3.38	1	257	0.3	0.54	0.87	0.29	0.18	226	1
40387560		0.26	7.3	13.8	3.07	20.8	3.35	2	331	0.4	0.63	1.11	0.27	0.25	164	1
40387561		0.19	5.3	9.8	2.13	10.6	2.43	1	294	0.2	0.44	0.74	0.20	0.21	143	1
40387562		0.25	6.6	13.0	3.03	9.3	3.12	1	263	0.3	0.56	0.96	0.26	0.26	173	<1
40387563		0.24	6.9	12.1	2.80	8.1	3.04	1	270	0.3	0.56	0.88	0.24	0.24	151	<1
40387564		0.17	5.2	10.3	2.25	6.8	2.69	1	280	0.2	0.43	0.77	0.19	0.16	120	1
40387565		0.21	5.4	10.5	2.43	7.1	2.46	1	318	0.2	0.42	0.78	0.19	0.19	120	<1
40387566		0.17	4.4	9.2	2.11	5.7	2.07	<1	299	0.1	0.38	0.63	0.17	0.15	110	<1
40387567		0.17	4.6	8.5	1.93	5.3	2.05	1	291	0.2	0.34	0.63	0.17	0.14	114	<1
40387568		0.23	5.7	11.3	2.46	6.0	2.71	1	291	0.2	0.48	0.81	0.26	0.22	123	<1
40387569		0.24	7.5	14.7	3.22	7.7	3.56	1	284	0.4	0.59	1.14	0.29	0.25	149	1
40387570		0.27	7.2	14.1	3.12	7.5	3.39	1	277	0.3	0.56	1.05	0.28	0.24	146	1
40387571		0.32	7.6	14.9	3.34	8.1	3.66	1	282	0.3	0.65	1.20	0.26	0.33	159	<1
40387572		0.38	8.9	17.7	3.89	10.4	4.52	1	252	0.4	0.74	1.35	0.35	0.48	223	<1
40387573		0.27	7.2	14.6	3.21	8.5	3.72	1	237	0.3	0.60	1.15	0.30	0.40	230	<1
40387574		0.27	6.5	13.4	3.12	8.8	3.54	1	241	0.5	0.62	1.01	0.29	0.30	221	1
40387575		0.45	11.2	20.6	4.85	12.8	5.16	1	230	0.8	0.90	1.76	0.51	0.79	298	<1
40387576		0.50	13.5	25.5	6.07	15.8	6.95	2	238	0.9	1.08	2.21	0.57	0.63	355	<1
40387577		0.47	12.5	23.7	5.65	14.6	6.26	2	235	0.9	0.98	1.81	0.50	0.49	336	1
40387578		0.48	13.1	25.9	6.08	16.1	6.57	2	233	1.0	1.00	2.10	0.57	0.53	289	1
40387579		0.50	12.2	23.5	5.66	14.5	6.39	2	233	0.9	1.06	2.15	0.50	0.63	322	<1
40387580		0.47	13.9	33.6	8.59	101.0	7.79	3	611	0.7	1.07	3.82	0.50	1.40	120	1
40387581		0.49	12.6	24.2	5.44	15.5	6.51	2	230	0.9	1.06	2.01	0.58	0.59	320	15
40387582		0.51	11.5	22.7	5.14	13.7	5.62	1	234	0.8	0.99	1.93	0.51	0.54	318	1
40387583		0.46	12.1	23.4	5.70	15.8	6.06	1	239	0.9	0.96	1.93	0.52	0.54	279	<1
40387584		0.46	11.8	22.4	5.32	13.8	5.51	2	241	0.9	0.91	1.91	0.49	0.63	292	<1
40387585		0.44	10.1	20.3	4.73	12.5	4.87	1	235	0.8	0.85	1.72	0.42	0.46	293	<1
40387586		0.41	10.6	19.9	4.90	13.3	5.35	1	237	0.8	0.88	1.57	0.45	0.49	261	<1
40387587		0.40	11.3	21.9	5.10	14.4	5.76	2	243	0.9	0.93	1.81	0.52	0.51	286	1
40387588		0.44	11.8	23.2	5.73	13.2	5.96	2	243	0.8	0.94	2.67	0.45	0.47	295	1
40387589		0.41	12.0	22.7	5.51	14.0	5.74	1	245	1.0	0.90	2.15	0.46	0.49	307	<1
40387590		0.29	7.7	14.9	3.49	35.1	3.84	2	406	0.6	0.60	1.32	0.32	0.34	182	1
40387591		0.45	11.4	21.5	5.04	13.4	5.55	1	242	0.9	0.88	1.89	0.45	0.46	301	1
40387592		0.43	11.4	22.2	5.23	14.4	5.15	2	246	0.8	0.84	1.93	0.48	0.55	299	<1
40387593		0.40	11.6	21.3	5.10	14.1	5.58	1	242	1.0	0.90	1.73	0.44	0.46	337	<1
40387594		0.41	9.9	19.2	4.36	12.8	4.81	1	236	0.8	0.90	1.53	0.46	0.39	296	<1
40387595		0.50	14.2	23.9	5.76	17.3	6.44	2	249	1.0	1.04	2.08	0.48	0.67	348	<1
40387596		0.52	13.1	25.5	5.84	17.1	6.57	2	245	1.0	1.10	2.24	0.59	0.59	308	<1
40387597		0.46	12.1	22.1	5.19	23.1	5.38	1	284	0.9	0.98	1.84	0.48	0.57	393	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387558		18.1	1.66	91	17.7	0.02	<0.005	0.017	<0.001	0.10	0.3	0.01	0.04	0.07	0.10	45.9
40387559		17.4	1.72	88	19.1	0.04	<0.005	0.017	0.001	0.11	0.5	0.02	0.05	0.19	0.10	54.3
40387560		17.5	1.75	96	7.1	0.47	0.010	0.053	0.008	0.32	3.3	0.17	0.34	1.41	0.43	96.1
40387561		13.1	1.31	69	17.4	0.04	<0.005	0.016	0.001	0.10	0.4	0.02	0.04	0.07	0.09	47.4
40387562		17.1	1.72	91	32.0	0.03	<0.005	0.017	<0.001	0.16	0.4	0.02	0.07	0.05	0.11	51.5
40387563		16.5	1.75	96	29.4	0.03	<0.005	0.015	0.001	0.13	0.2	0.01	0.04	0.06	0.07	49.6
40387564		13.4	1.24	68	18.5	0.03	<0.005	0.015	0.001	0.14	0.3	0.01	0.03	0.06	0.07	49.7
40387565		13.3	1.31	72	17.2	0.02	<0.005	0.012	0.001	0.12	<0.2	0.01	0.03	0.03	0.05	45.1
40387566		11.9	1.11	63	12.9	0.02	<0.005	0.010	0.001	0.11	0.2	0.01	0.02	0.04	0.07	49.1
40387567		11.4	1.20	64	17.5	0.03	0.005	0.013	0.001	0.10	0.2	0.01	0.02	0.03	0.06	46.8
40387568		14.4	1.60	84	11.7	0.02	<0.005	0.013	0.001	0.10	<0.2	0.01	0.03	0.04	0.06	47.1
40387569		18.2	1.89	106	2.8	0.01	<0.005	0.018	0.001	0.06	<0.2	0.01	0.03	0.03	0.08	46.9
40387570		17.9	1.74	108	2.7	0.01	<0.005	0.017	0.001	0.05	0.3	0.01	0.02	0.04	0.08	48.0
40387571		18.9	1.61	102	13.1	0.03	<0.005	0.018	0.002	0.12	0.4	0.01	0.04	0.05	0.10	43.7
40387572		22.7	2.34	115	10.1	0.03	<0.005	0.018	0.001	0.07	0.3	0.01	0.03	0.05	0.12	46.4
40387573		19.1	1.72	99	1.7	0.01	<0.005	0.019	0.001	<0.05	0.3	0.01	0.03	0.07	0.10	47.8
40387574		19.0	1.89	92	5.1	0.01	<0.005	0.019	0.001	0.06	<0.2	0.01	0.03	0.07	0.11	52.7
40387575		28.8	2.96	144	4.4	0.03	<0.005	0.024	0.001	0.05	0.2	0.01	0.03	0.10	0.15	51.4
40387576		35.7	3.34	187	0.6	0.01	<0.005	0.027	0.001	<0.05	0.2	0.01	0.03	0.09	0.16	45.9
40387577		34.0	3.41	164	0.7	0.01	<0.005	0.027	0.002	<0.05	<0.2	0.02	0.04	0.08	0.15	44.0
40387578		34.1	3.56	181	1.8	0.01	<0.005	0.029	0.002	<0.05	<0.2	0.02	0.03	0.08	0.16	46.8
40387579		33.8	3.44	178	0.8	0.01	<0.005	0.025	0.002	<0.05	0.3	0.01	0.03	0.06	0.16	44.7
40387580		34.4	3.17	300	0.4	0.01	<0.005	0.030	0.001	<0.05	<0.2	0.01	0.38	0.03	0.07	15.4
40387581		33.6	3.02	172	1.9	0.01	<0.005	0.026	0.002	<0.05	0.3	0.02	0.04	0.08	0.15	45.1
40387582		31.7	3.16	162	1.4	0.01	<0.005	0.023	0.001	<0.05	0.4	0.01	0.03	0.08	0.17	46.1
40387583		32.8	3.08	171	2.8	0.02	<0.005	0.025	0.001	<0.05	0.4	0.02	0.04	0.09	0.16	46.8
40387584		31.1	3.00	158	2.4	0.02	<0.005	0.023	0.001	<0.05	0.3	0.02	0.04	0.08	0.17	44.3
40387585		28.8	2.91	145	2.0	0.02	<0.005	0.021	0.002	<0.05	0.2	0.01	0.04	0.09	0.14	43.3
40387586		28.6	2.92	142	1.5	0.01	<0.005	0.021	0.001	<0.05	0.3	0.02	0.03	0.07	0.13	43.9
40387587		31.1	3.16	157	1.1	0.01	<0.005	0.021	0.002	<0.05	<0.2	0.01	0.03	0.06	0.15	44.6
40387588		30.8	2.91	157	2.3	0.03	<0.005	0.022	0.002	<0.05	<0.2	0.03	0.06	0.08	0.16	46.2
40387589		31.0	3.07	157	1.8	0.01	<0.005	0.023	0.002	<0.05	<0.2	0.03	0.04	0.07	0.14	46.1
40387590		19.7	1.67	103	4.7	0.21	0.014	0.031	0.003	0.32	0.8	0.07	0.44	0.45	0.28	63.2
40387591		29.9	2.82	150	0.5	<0.01	<0.005	0.023	0.001	<0.05	0.3	0.01	0.04	0.07	0.14	46.4
40387592		30.1	2.81	162	3.0	0.02	<0.005	0.020	0.001	<0.05	<0.2	0.01	0.03	0.08	0.15	46.3
40387593		30.7	3.13	160	2.4	0.04	<0.005	0.028	0.002	<0.05	0.3	0.02	0.04	0.09	0.16	43.4
40387594		27.6	2.66	136	1.9	0.05	<0.005	0.019	0.001	<0.05	0.2	0.02	0.04	0.07	0.15	42.4
40387595		34.4	3.28	183	2.2	0.02	<0.005	0.023	0.002	<0.05	<0.2	0.01	0.03	0.07	0.15	37.0
40387596		35.1	3.57	179	2.3	0.01	<0.005	0.019	0.002	<0.05	0.2	0.01	0.02	0.12	0.16	37.0
40387597		31.5	3.15	163	1.6	0.01	<0.005	0.019	0.001	<0.05	<0.2	<0.01	<0.02	0.08	0.18	33.8

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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





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Page: 4 - E  
 Total # Pages: 6 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387558		213	10.1	0.73	138.5	0.9	37.9	72	0.011	0.0256	0.022					
40387559		243	7.2	0.74	168.5	1.0	27.8	89	0.014	0.0293	0.029					
40387560		4000	25.2	4.99	1950	8.6	18.5	114	0.075	0.150	0.764					
40387561		214	8.0	0.68	172.5	1.0	18.5	74	0.014	0.0323	0.049					
40387562		231	9.1	0.76	212	1.3	20.6	84	0.011	0.0209	0.010					
40387563		163.0	7.0	0.76	214	1.1	17.0	82	0.011	0.0172	0.014					
40387564		142.5	7.5	0.65	260	1.0	15.5	76	0.009	0.0090	0.009					
40387565		101.5	9.3	0.64	263	1.0	12.2	69	0.004	0.0219	0.025					
40387566		90.2	5.9	0.67	276	1.0	13.5	71	0.002	0.0072	0.011					
40387567		80.8	4.3	0.66	268	0.9	13.3	71	0.002	0.0049	0.007					
40387568		99.3	5.3	0.70	240	1.2	14.4	74	0.003	0.0050	0.006					
40387569		123.5	5.3	0.84	216	1.4	15.6	85	0.003	0.0054	0.006					
40387570		128.0	5.9	0.82	216	1.5	15.6	86	0.003	0.0055	0.006					
40387571		137.0	5.7	0.87	165.5	1.6	16.9	90	0.004	0.0077	0.008					
40387572		190.0	6.1	1.02	113.0	1.8	25.5	105	0.004	0.0105	0.010					
40387573		195.0	5.9	0.87	126.5	1.7	27.5	98	0.004	0.0089	0.008					
40387574		209	8.0	0.76	133.5	1.7	29.3	96	0.005	0.0119	0.012					
40387575		245	7.9	1.16	88.4	2.6	37.1	126	0.005	0.0111	0.010					
40387576		274	7.7	1.28	60.7	3.5	35.7	128	0.004	0.0082	0.007					
40387577		253	7.4	1.20	60.1	3.3	35.9	125	0.004	0.0090	0.008					
40387578		261	7.6	1.27	63.6	3.4	32.3	131	0.004	0.0093	0.008					
40387579		248	7.5	1.25	63.1	3.2	40.4	120	0.005	0.0093	0.008					
40387580		18.4	13.3	1.35	11.8	13.5	12.8	88	0.001	<0.0005	0.002					
40387581		245	7.7	1.21	64.8	3.0	39.7	123	0.005	0.0104	0.008					
40387582		223	7.4	1.14	68.5	2.8	41.9	113	0.004	0.0145	0.013					
40387583		253	7.8	1.18	73.4	2.7	31.9	126	0.003	0.0110	0.010					
40387584		245	7.5	1.10	71.5	2.6	35.4	123	0.004	0.0112	0.010					
40387585		231	7.2	1.08	71.5	2.4	39.6	106	0.005	0.0122	0.008					
40387586		218	7.8	1.12	69.4	2.7	36.3	108	0.005	0.0164	0.014					
40387587		209	7.8	1.14	70.5	3.2	36.4	114	0.003	0.0094	0.008					
40387588		215	8.0	1.09	73.1	2.3	33.5	124	0.003	0.0191	0.032					
40387589		223	7.5	1.09	72.5	2.6	30.9	120	0.003	0.0074	0.002					
40387590		1140	35.5	2.99	689	6.2	18.9	112	0.020	0.0375	0.210					
40387591		230	7.5	1.14	74.1	3.0	34.6	116	0.004	0.0103	0.018					
40387592		242	7.8	1.18	67.9	2.7	31.4	125	0.003	0.0117	0.022					
40387593		258	8.3	1.14	59.8	2.4	34.6	126	0.004	0.0125	0.009					
40387594		223	8.1	1.03	59.5	2.3	38.7	111	0.003	0.0096	0.008					
40387595		212	9.2	1.25	45.5	3.1	39.0	117	0.004	0.0055	0.006					
40387596		176.5	8.2	1.22	44.5	3.7	41.7	115	0.004	0.0035	0.004					
40387597		192.0	8.5	1.21	35.7	3.4	41.9	107	0.003	0.0021	0.002					

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 4 - F  
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 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTECIKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	
		Cu	Fe	Fe2O3	K	MgO	MnO	Ni	Pb	S	SiO2	TiO2	Zn
		%	%	%	%	%	%	%	%	%	%	%	%
40387558		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40387559													
40387560													
40387561													
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40387596													
40387597													

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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Page: 5 - A  
 Total # Pages: 6 (A - F)  
 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387598		4.47	48.6	15.95	12.25	10.55	4.38	3.39	0.84	0.042	2.69	0.16	0.22	0.03	0.03	100.03
40387599		2.97	48.0	15.45	13.20	10.80	5.12	2.97	0.60	0.046	2.40	0.18	0.20	0.03	0.02	99.76
40387600		3.06	47.4	15.30	13.50	10.75	5.08	2.93	0.59	0.045	2.64	0.18	0.21	0.03	0.02	99.41
40387601		5.70	47.1	15.95	14.25	9.93	4.85	3.04	0.60	0.025	2.85	0.18	0.22	0.03	0.02	99.86
40387602		6.29	47.0	15.55	14.60	9.63	3.80	3.55	0.80	0.005	3.86	0.19	0.25	0.04	0.03	100.00
40387603		6.44	47.6	15.30	14.25	9.96	4.29	3.21	0.76	0.018	3.14	0.18	0.25	0.03	0.03	99.95
40387604		6.42	47.8	12.95	15.90	9.21	4.84	3.10	0.68	0.010	4.07	0.21	0.32	0.03	0.03	99.91
40387605		6.75	47.8	14.20	14.65	10.20	5.32	3.03	0.62	0.025	3.19	0.19	0.22	0.03	0.03	100.24
40387606		6.41	48.3	13.70	14.95	10.35	5.47	2.98	0.70	0.025	2.84	0.20	0.23	0.03	0.03	100.52
40387607		6.51	49.1	13.90	14.40	9.12	4.67	3.27	0.82	0.020	2.64	0.20	0.30	0.03	0.03	99.45
40387608		6.38	47.4	12.90	16.45	9.47	4.79	3.12	0.82	0.008	3.80	0.22	0.30	0.03	0.03	100.06
40387609		6.43	48.6	13.60	15.75	9.16	4.80	3.12	0.71	0.013	3.35	0.19	0.29	0.03	0.03	100.52
40387610		2.04	59.2	18.50	7.13	6.01	2.37	3.95	2.50	0.003	0.95	0.09	0.30	0.07	0.11	101.47
40387611		6.41	49.4	12.40	15.45	9.84	5.67	2.77	0.75	0.023	2.94	0.20	0.27	0.02	0.03	100.47
40387612		3.53	47.9	12.35	17.30	9.51	4.90	2.89	0.71	0.007	4.93	0.21	0.31	0.03	0.03	101.58
40387613		2.68	49.5	12.05	17.10	7.95	4.06	3.29	1.04	0.004	4.05	0.21	0.49	0.03	0.04	100.73
40387614		0.80	51.8	12.25	15.50	7.32	3.98	3.47	0.79	0.008	3.46	0.19	0.38	0.03	0.04	100.33
40387615		5.71	48.5	12.80	15.55	9.69	5.43	2.75	0.72	0.020	3.34	0.19	0.28	0.03	0.03	100.05
40387616		6.27	47.8	12.40	15.25	10.10	5.86	2.68	0.64	0.022	3.10	0.19	0.25	0.02	0.03	99.44
40387617		6.72	45.8	12.60	15.90	10.45	5.78	2.46	0.54	0.026	3.75	0.20	0.21	0.02	0.02	98.24
40387618		6.70	47.4	12.70	16.05	10.25	5.66	2.64	0.57	0.030	3.84	0.18	0.21	0.02	0.02	100.20
40387619		6.65	46.9	12.80	16.15	10.20	5.99	2.60	0.52	0.029	3.73	0.18	0.19	0.03	0.02	99.61
40387620		0.17	45.7	18.65	12.05	9.30	7.36	2.10	1.06	0.350	1.32	0.12	0.15	0.05	0.04	100.03
40387621		6.61	46.5	12.90	15.75	10.15	5.94	2.60	0.48	0.023	3.24	0.18	0.20	0.03	0.02	98.43
40387622		6.66	49.9	13.70	14.00	10.70	6.78	2.75	0.54	0.046	2.11	0.17	0.21	0.03	0.02	101.59
40387623		6.38	49.8	13.65	13.80	10.55	6.91	2.80	0.53	0.045	2.07	0.17	0.22	0.03	0.02	101.38
40387624		6.45	49.4	14.05	13.85	10.85	6.72	2.65	0.48	0.046	2.22	0.17	0.19	0.03	0.02	101.27
40387625		6.50	48.7	13.40	14.30	10.30	6.38	2.71	0.49	0.039	2.55	0.18	0.22	0.03	0.02	100.21
40387626		6.53	48.3	13.85	13.35	10.45	5.88	2.79	0.57	0.043	2.27	0.16	0.21	0.03	0.02	98.86
40387627		6.30	48.7	14.05	14.60	9.55	6.69	2.65	0.52	0.038	2.17	0.17	0.26	0.03	0.02	100.24
40387628		6.44	48.2	14.55	14.25	10.00	6.86	2.60	0.49	0.047	1.98	0.17	0.19	0.03	0.02	100.08
40387629		2.92	47.8	14.00	14.75	10.05	7.22	2.48	0.46	0.050	2.10	0.17	0.18	0.03	0.02	99.84
40387630		2.92	48.2	14.30	14.80	10.00	7.19	2.55	0.48	0.046	2.14	0.17	0.19	0.03	0.02	100.68
40387631		6.38	49.0	14.55	13.60	9.97	6.14	2.67	0.63	0.034	2.52	0.16	0.19	0.03	0.02	100.23
40387632		6.22	50.5	13.40	14.55	8.47	5.14	2.90	0.88	0.018	3.50	0.16	0.26	0.03	0.03	100.90
40387633		6.16	48.5	14.30	15.75	9.48	7.21	2.61	0.51	0.032	2.39	0.18	0.21	0.03	0.02	101.81
40387634		6.44	48.7	14.65	14.50	9.63	7.02	2.64	0.55	0.039	1.94	0.17	0.21	0.03	0.02	100.97
40387635		6.35	48.3	14.25	14.10	10.30	7.21	2.50	0.47	0.051	2.01	0.17	0.19	0.03	0.02	100.54
40387636		6.62	48.2	13.40	13.75	10.85	7.39	2.36	0.45	0.070	2.20	0.17	0.19	0.03	0.02	99.81
40387637		6.49	48.2	13.90	14.35	10.25	7.78	2.43	0.46	0.058	1.85	0.17	0.20	0.03	0.02	100.22

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - B  
 Total # Pages: 6 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40387598		0.90	0.03	0.04	257	40.5	310	1.25	5.82	3.25	1.79	22.2	6.52	4.6	1.16	17.8
40387599		0.74	0.01	0.02	207	37.7	350	0.67	5.59	3.28	1.65	21.0	5.88	4.0	1.03	16.6
40387600		0.73	0.02	0.03	203	36.2	340	0.65	5.27	2.99	1.71	20.7	5.66	4.2	1.07	15.5
40387601		0.81	0.02	0.02	213	37.3	200	0.71	5.40	3.03	1.73	21.6	5.84	4.2	1.07	16.5
40387602		0.69	0.01	0.04	242	43.2	40	1.02	6.32	3.87	2.11	22.9	6.60	5.0	1.26	19.3
40387603		0.93	0.02	0.03	246	43.5	140	0.75	6.20	3.40	1.92	22.6	6.79	4.5	1.28	19.5
40387604		0.76	0.01	0.04	247	59.0	70	0.37	8.22	4.94	2.30	22.4	8.49	6.5	1.71	26.3
40387605		0.73	0.02	0.04	225	39.1	190	0.49	5.58	3.51	1.94	21.4	6.25	4.7	1.18	17.6
40387606		0.71	0.01	0.03	249	41.6	190	0.49	5.88	3.62	1.74	21.5	6.97	4.6	1.28	18.4
40387607		0.95	0.02	0.05	285	54.6	150	0.58	7.55	4.36	2.17	22.3	8.11	6.1	1.51	24.4
40387608		0.72	0.04	0.06	281	54.8	70	0.50	7.57	4.56	2.16	22.3	8.36	5.9	1.50	24.5
40387609		0.88	0.02	0.06	278	48.6	100	0.73	6.83	4.01	2.08	27.3	7.23	5.6	1.40	21.2
40387610		0.29	0.05	0.10	924	67.1	30	1.18	5.92	3.55	1.72	24.0	7.41	8.0	1.18	29.3
40387611		0.71	0.02	0.04	266	55.1	180	0.66	6.83	4.40	2.10	25.7	7.92	5.9	1.42	24.4
40387612		0.50	0.01	0.03	272	51.9	60	0.41	7.13	4.33	2.34	25.6	8.02	5.7	1.51	22.7
40387613		0.92	0.02	0.04	360	82.9	40	0.50	10.30	6.03	3.28	27.1	11.40	8.6	2.20	36.5
40387614		1.11	0.02	0.03	331	74.3	70	0.46	9.86	5.32	2.55	23.8	10.30	7.1	2.04	33.2
40387615		0.72	0.01	0.03	269	52.7	150	0.57	7.03	3.94	2.09	24.5	7.42	5.2	1.56	23.4
40387616		1.10	0.03	0.03	239	43.6	170	0.55	6.09	3.29	1.88	21.4	6.48	4.5	1.25	19.2
40387617		0.48	0.01	0.03	195.5	37.1	200	0.50	5.65	3.17	1.76	23.3	6.24	4.5	1.26	16.0
40387618		0.63	0.02	0.05	201	39.3	210	0.47	5.91	3.66	1.68	23.3	6.14	4.1	1.15	17.4
40387619		0.27	0.01	0.04	191.0	35.4	230	0.46	4.84	3.12	1.50	22.7	5.37	3.9	1.09	16.0
40387620		1.78	0.05	0.34	325	27.1	2520	2.47	3.42	1.82	1.18	22.5	3.80	2.6	0.66	12.7
40387621		0.42	0.01	0.04	179.5	33.3	170	0.43	5.14	2.76	1.66	22.3	4.79	3.7	1.06	14.6
40387622		0.63	0.02	0.02	211	37.3	340	0.51	4.72	2.84	1.44	21.7	5.54	4.0	1.12	16.5
40387623		0.78	0.01	0.02	176.5	40.6	340	0.58	5.13	2.96	1.66	21.4	5.32	4.2	1.07	17.7
40387624		0.59	0.01	0.02	179.0	34.1	350	0.49	5.04	2.75	1.42	20.5	5.13	3.6	1.01	15.1
40387625		0.89	0.02	0.03	186.0	39.5	290	0.44	5.47	3.23	1.61	21.9	5.75	4.0	1.09	17.2
40387626		0.94	0.01	0.03	197.5	38.4	320	0.52	5.12	2.87	1.53	22.4	5.71	3.9	1.05	16.9
40387627		0.79	0.01	0.02	191.5	41.4	280	0.67	5.22	2.99	1.67	21.8	5.89	3.8	1.00	18.5
40387628		0.69	0.01	0.02	178.0	34.5	350	0.66	4.57	2.80	1.51	20.8	4.88	3.1	1.09	16.3
40387629		0.53	0.02	0.02	170.0	34.4	370	0.59	4.67	2.85	1.43	21.0	4.54	3.5	0.99	15.5
40387630		0.56	0.01	0.01	169.0	34.3	340	0.59	4.53	2.41	1.50	20.8	5.25	3.4	0.95	15.3
40387631		0.72	0.01	0.03	191.0	30.9	260	0.59	4.15	2.26	1.43	21.8	4.27	3.3	0.81	13.7
40387632		1.06	0.02	0.06	255	49.7	140	0.69	6.12	3.51	1.93	23.1	7.13	5.1	1.29	22.6
40387633		0.59	0.01	0.05	183.5	36.9	240	0.64	5.22	2.59	1.57	21.7	4.95	3.7	1.08	16.9
40387634		0.87	0.02	0.03	190.5	36.3	280	0.67	5.08	3.06	1.49	21.2	5.45	3.6	1.17	16.5
40387635		0.94	0.01	0.07	163.5	33.1	350	0.52	4.54	2.57	1.48	21.2	4.69	3.2	0.94	15.1
40387636		0.73	0.01	0.04	164.0	34.1	490	0.48	4.72	2.88	1.38	21.0	5.10	3.5	1.05	15.0
40387637		0.52	0.01	0.04	164.5	34.0	430	0.53	4.76	2.59	1.53	20.2	4.92	3.2	0.95	15.3

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Total # Pages: 6 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40387598		0.46	12.1	23.0	5.19	23.6	5.73	2	285	1.0	0.95	1.84	0.51	0.51	388	<1
40387599		0.41	10.9	21.4	4.88	15.7	5.34	2	260	0.8	0.92	1.72	0.44	0.45	369	<1
40387600		0.41	11.2	21.0	4.79	14.9	5.16	1	255	0.9	0.91	1.69	0.45	0.44	395	<1
40387601		0.43	12.1	21.5	4.89	14.6	5.62	1	264	0.9	0.90	1.64	0.49	0.54	367	<1
40387602		0.52	14.5	23.9	5.66	23.0	5.90	2	289	1.1	1.05	1.96	0.57	0.51	525	<1
40387603		0.50	12.8	25.1	5.86	19.9	6.11	2	264	0.9	0.95	1.99	0.57	0.61	511	<1
40387604		0.65	18.1	32.1	7.73	16.3	8.27	2	218	1.3	1.27	2.84	0.74	0.89	504	1
40387605		0.48	12.1	21.4	5.21	15.9	6.07	1	247	0.9	0.95	1.72	0.48	0.48	559	1
40387606		0.53	12.0	23.9	5.41	17.2	6.09	2	230	0.9	1.02	1.95	0.53	0.56	602	1
40387607		0.58	15.8	30.1	7.29	21.5	7.64	2	240	1.1	1.24	2.74	0.65	0.74	385	<1
40387608		0.62	17.4	29.8	7.09	20.8	8.35	2	227	1.2	1.22	2.42	0.59	0.64	585	3
40387609		0.59	13.8	28.7	6.41	21.7	6.59	2	247	1.0	1.16	2.33	0.54	0.60	548	1
40387610		0.48	12.5	37.5	8.63	107.0	8.12	2	574	0.7	1.00	4.02	0.55	1.50	127	1
40387611		0.56	14.4	32.3	7.27	20.6	7.85	1	227	1.1	1.23	2.57	0.59	0.71	513	1
40387612		0.54	17.5	29.8	6.85	18.2	6.81	2	224	1.3	1.35	2.39	0.64	0.61	591	1
40387613		0.84	23.9	47.1	11.15	28.7	10.85	3	233	1.7	1.85	3.99	0.90	1.14	466	1
40387614		0.71	21.7	44.0	9.72	21.0	9.67	2	215	1.4	1.59	4.29	0.84	1.50	468	1
40387615		0.57	13.9	29.7	6.82	21.0	6.64	2	223	1.0	1.18	2.58	0.64	0.73	514	<1
40387616		0.43	12.1	25.8	5.77	18.0	6.17	1	208	0.8	0.99	1.92	0.55	0.60	457	1
40387617		0.43	12.4	21.9	4.94	14.5	5.36	2	215	0.8	0.89	1.68	0.48	0.48	618	<1
40387618		0.48	11.2	22.2	5.20	15.4	5.71	1	210	0.9	1.08	1.84	0.41	0.54	656	1
40387619		0.37	11.2	20.4	4.80	13.8	5.11	1	221	0.8	0.91	1.61	0.43	0.48	688	1
40387620		0.24	7.6	15.3	3.40	36.3	3.51	2	406	0.5	0.58	1.22	0.27	0.31	185	1
40387621		0.39	9.7	19.0	4.52	11.8	4.82	1	212	0.6	0.85	1.52	0.42	0.47	605	<1
40387622		0.36	9.1	21.3	4.98	14.6	5.25	1	225	1.2	0.90	1.54	0.47	0.46	377	1
40387623		0.49	10.1	23.7	5.44	14.6	5.78	1	224	0.7	0.88	1.82	0.52	0.47	369	1
40387624		0.33	9.0	20.5	4.46	12.3	5.37	1	231	0.6	0.94	1.44	0.43	0.42	389	1
40387625		0.40	11.0	22.1	4.93	12.5	6.17	1	220	0.8	0.95	1.94	0.49	0.97	396	1
40387626		0.35	9.9	22.8	5.06	15.4	5.06	1	231	0.7	0.85	1.68	0.47	0.53	409	<1
40387627		0.43	9.8	23.7	5.28	13.0	6.16	1	214	0.7	0.89	2.36	0.47	0.60	323	1
40387628		0.37	9.2	21.1	4.74	13.1	5.29	1	232	0.7	0.80	1.86	0.34	0.35	330	<1
40387629		0.33	8.5	20.1	4.39	13.0	4.67	1	222	0.7	0.76	1.55	0.37	0.45	355	<1
40387630		0.32	8.9	19.9	4.64	12.0	4.91	1	224	0.7	0.78	1.46	0.38	0.43	337	<1
40387631		0.33	9.0	18.7	4.06	18.3	4.66	1	235	0.6	0.71	1.62	0.37	0.56	361	<1
40387632		0.47	14.6	28.7	6.43	25.8	6.30	2	215	1.1	1.11	2.99	0.54	1.01	440	<1
40387633		0.39	9.6	20.6	4.76	12.4	5.35	1	226	0.8	0.78	1.66	0.43	0.42	324	<1
40387634		0.34	9.8	20.8	4.96	14.3	5.36	1	224	0.8	0.88	1.75	0.40	0.49	254	<1
40387635		0.35	8.7	19.4	4.49	12.2	4.86	1	212	0.7	0.74	1.64	0.39	0.48	312	<1
40387636		0.34	9.1	18.9	4.41	11.7	4.78	1	207	0.6	0.77	1.54	0.38	0.42	344	<1
40387637		0.38	7.8	20.2	4.56	12.7	4.68	1	218	0.6	0.82	1.54	0.40	0.36	293	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387598		32.1	3.28	161	1.6	0.02	0.006	0.020	0.002	<0.05	0.2	0.01	<0.02	0.07	0.16	32.6
40387599		29.8	2.96	143	1.9	0.02	<0.005	0.018	0.001	<0.05	0.3	0.01	0.02	0.06	0.17	37.1
40387600		29.5	2.83	142	2.1	0.02	<0.005	0.018	0.001	<0.05	<0.2	0.02	0.02	0.07	0.16	38.1
40387601		29.6	2.74	152	1.6	0.04	<0.005	0.018	0.001	0.20	0.5	0.01	0.02	0.07	0.15	41.3
40387602		34.6	3.39	176	0.3	0.03	<0.005	0.024	0.001	0.23	0.4	0.02	<0.02	0.08	0.17	37.3
40387603		33.5	3.31	169	0.9	0.03	0.005	0.022	0.001	0.19	0.2	0.01	<0.02	0.09	0.18	39.2
40387604		44.6	4.47	240	1.1	0.03	0.005	0.023	0.001	0.14	<0.2	0.01	0.02	0.09	0.20	42.2
40387605		32.4	3.01	164	0.8	0.04	<0.005	0.026	0.001	0.08	0.2	0.02	0.02	0.10	0.21	45.3
40387606		34.6	3.44	169	0.9	0.03	0.005	0.022	0.001	0.06	<0.2	0.01	0.02	0.11	0.18	44.2
40387607		42.0	4.34	223	0.5	0.03	0.007	0.028	0.001	0.05	<0.2	0.01	0.05	0.08	0.20	39.9
40387608		42.3	4.19	220	0.7	0.03	0.007	0.028	0.002	<0.05	<0.2	0.02	0.06	0.13	0.19	43.4
40387609		36.9	3.66	197	0.7	0.04	<0.005	0.027	0.002	<0.05	0.4	0.01	0.02	0.10	0.21	42.8
40387610		35.4	3.14	317	0.4	0.02	<0.005	0.030	0.001	<0.05	<0.2	0.02	0.35	0.03	0.07	15.9
40387611		41.8	3.66	216	1.1	0.03	<0.005	0.020	0.001	<0.05	<0.2	0.02	0.02	0.07	0.21	45.9
40387612		40.1	3.60	214	0.9	0.02	0.006	0.021	0.001	<0.05	0.2	0.01	0.02	0.08	0.21	45.5
40387613		58.0	5.18	316	0.3	0.03	<0.005	0.028	0.002	<0.05	<0.2	0.01	<0.02	0.08	0.24	40.8
40387614		51.7	4.80	264	0.3	0.03	<0.005	0.028	0.002	<0.05	0.2	0.01	<0.02	0.09	0.22	39.0
40387615		38.7	3.39	201	0.4	0.03	<0.005	0.020	0.001	<0.05	<0.2	0.01	0.03	0.11	0.19	48.0
40387616		33.4	2.91	167	0.3	0.02	<0.005	0.024	0.001	<0.05	0.3	0.01	0.03	0.09	0.19	49.6
40387617		31.1	2.86	159	0.5	0.02	<0.005	0.021	0.002	<0.05	<0.2	0.01	0.03	0.12	0.20	49.2
40387618		30.7	3.22	156	0.9	0.03	<0.005	0.023	0.002	<0.05	0.2	0.01	0.04	0.10	0.19	49.8
40387619		28.7	2.52	145	0.6	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.03	0.10	0.19	51.7
40387620		18.9	1.84	101	5.0	0.18	0.007	0.031	0.003	0.37	0.8	0.05	0.45	0.50	0.27	64.2
40387621		27.3	2.68	130	0.7	0.02	<0.005	0.020	0.002	<0.05	<0.2	0.01	0.04	0.09	0.18	52.8
40387622		28.6	2.60	132	1.0	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.02	0.06	0.17	48.5
40387623		30.3	2.89	149	1.6	0.02	<0.005	0.019	0.001	<0.05	0.3	0.01	0.02	0.08	0.19	45.7
40387624		27.2	2.79	131	1.4	0.02	<0.005	0.017	0.002	<0.05	0.2	0.01	<0.02	0.07	0.18	46.6
40387625		29.5	2.92	150	1.2	0.02	<0.005	0.019	0.001	<0.05	0.3	0.01	<0.02	0.12	0.21	48.5
40387626		29.1	2.60	139	1.0	0.01	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.02	0.06	0.18	44.5
40387627		28.0	2.45	144	1.1	0.02	<0.005	0.021	0.001	<0.05	<0.2	0.02	0.03	0.08	0.18	51.8
40387628		26.1	2.30	125	0.5	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.05	0.08	0.16	52.1
40387629		26.0	2.42	129	1.3	0.02	<0.005	0.019	0.001	<0.05	<0.2	0.02	0.02	0.08	0.17	54.9
40387630		26.5	2.29	132	1.3	0.02	<0.005	0.019	0.001	<0.05	0.2	0.01	0.03	0.11	0.15	53.1
40387631		24.2	2.10	112	0.6	0.02	<0.005	0.020	0.001	<0.05	0.3	0.01	0.05	0.08	0.16	48.0
40387632		34.1	3.21	190	1.2	0.01	<0.005	0.028	0.001	<0.05	<0.2	<0.01	0.03	0.13	0.20	44.4
40387633		27.0	2.66	136	1.1	0.01	<0.005	0.024	0.001	<0.05	0.4	0.01	0.04	0.11	0.17	55.6
40387634		26.8	2.42	135	0.9	0.02	<0.005	0.024	<0.001	<0.05	<0.2	0.02	0.04	0.11	0.15	54.2
40387635		25.4	2.27	128	0.5	0.01	<0.005	0.025	0.002	<0.05	0.2	0.01	0.04	0.10	0.14	53.9
40387636		26.4	2.54	130	0.5	0.01	<0.005	0.022	0.002	<0.05	0.2	0.02	0.05	0.10	0.17	49.1
40387637		25.8	2.64	119	0.7	0.01	<0.005	0.021	0.001	0.05	0.6	0.01	0.04	0.09	0.17	56.2

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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





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 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387598		197.0	8.3	1.13	34.1	3.3	40.6	110	0.002	0.0020	0.002					
40387599		188.5	7.2	1.06	42.5	3.0	39.1	109	0.002	0.0052	0.004					
40387600		205	7.3	1.12	44.4	2.9	40.9	116	0.002	0.0055	0.003					
40387601		239	7.2	1.13	43.3	2.9	33.5	120	0.002	0.0119	0.010					
40387602		244	8.7	1.21	25.3	2.4	38.5	132	0.001	0.0035	0.001					
40387603		253	7.8	1.28	32.9	2.9	39.5	123	0.003	0.0063	0.006					
40387604		255	8.2	1.42	32.6	3.1	43.5	134	0.003	<0.0005	0.001					
40387605		286	8.3	1.10	45.3	2.2	44.3	132	0.002	0.0006	0.001					
40387606		252	8.6	1.24	45.4	2.5	47.3	129	0.002	<0.0005	0.001					
40387607		213	8.8	1.45	35.4	2.9	40.2	138	0.001	0.0021	0.001					
40387608		258	8.4	1.47	33.9	3.2	44.5	149	0.002	0.0005	0.001					
40387609		272	8.8	1.30	37.0	2.6	40.1	140	0.002	0.0011	0.002					
40387610		15.5	18.2	1.01	11.0	11.2	14.9	85	0.001	<0.0005	0.001					
40387611		270	8.8	1.38	44.6	3.7	49.1	134	0.003	0.0047	0.002					
40387612		250	8.1	1.51	38.9	3.8	49.6	147	0.003	<0.0005	<0.001					
40387613		238	10.1	1.95	27.4	4.2	40.5	178	0.002	<0.0005	<0.001					
40387614		243	12.9	1.92	32.8	5.6	40.8	167	0.001	0.0005	0.001					
40387615		293	8.6	1.32	42.3	3.4	48.9	139	0.004	0.0038	0.002					
40387616		278	11.0	1.12	45.1	2.7	52.7	138	0.004	0.0073	0.002					
40387617		308	7.5	1.05	48.9	3.0	52.8	130	0.004	0.0051	0.001					
40387618		306	7.7	1.27	51.6	3.1	51.5	131	0.004	0.0007	0.001					
40387619		308	6.8	1.28	58.2	3.1	51.0	127	0.004	0.0007	0.001					
40387620		1160	34.7	3.07	694	6.1	19.1	107	0.021	0.0579	0.211					
40387621		314	7.7	1.13	63.3	3.2	51.0	129	0.003	0.0007	0.001					
40387622		249	8.4	1.05	68.5	3.3	47.7	114	0.003	0.0016	0.004					
40387623		248	9.1	1.07	69.6	3.6	45.7	115	0.004	0.0046	0.006					
40387624		254	8.1	0.97	68.1	3.0	47.1	111	0.005	0.0037	0.006					
40387625		272	9.1	1.13	66.9	3.1	47.7	122	0.005	0.0012	0.001					
40387626		230	9.5	1.24	63.9	3.1	48.1	118	0.003	0.0012	0.002					
40387627		265	8.9	1.09	79.2	3.5	40.2	125	0.005	0.0133	0.025					
40387628		243	7.8	1.03	77.8	2.7	39.0	118	0.005	0.0226	0.042					
40387629		253	8.2	0.96	88.6	2.4	40.9	124	0.004	0.0282	0.050					
40387630		246	7.9	1.01	85.2	2.3	38.1	122	0.005	0.0264	0.050					
40387631		222	10.2	0.99	65.5	2.7	41.9	115	0.003	0.0162	0.031					
40387632		216	19.7	2.03	59.1	8.8	44.8	139	0.003	0.0017	0.003					
40387633		250	9.2	1.05	86.8	2.9	36.1	127	0.004	0.0077	0.010					
40387634		234	9.6	1.11	87.6	3.1	36.1	128	0.003	0.0062	0.008					
40387635		235	9.5	1.01	92.6	2.2	41.7	120	0.005	0.0063	0.008					
40387636		195.5	8.5	1.13	85.5	2.7	44.8	114	0.005	0.0055	0.007					
40387637		230	8.7	0.91	100.0	2.4	40.6	116	0.005	0.0032	0.007					

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	
		Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %	TiO2 %	Zn %
40387598		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40387599													
40387600													
40387601													
40387602													
40387603													
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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387638		6.74	48.7	14.05	14.30	10.30	7.39	2.52	0.52	0.057	2.04	0.17	0.20	0.03	0.02	101.00
40387639		6.36	48.3	14.55	13.50	10.40	6.44	2.62	0.53	0.052	2.32	0.16	0.21	0.03	0.02	100.08
40387640		1.64	56.8	18.45	7.63	6.27	2.63	3.83	2.30	0.003	1.03	0.10	0.32	0.07	0.11	99.91
40387641		6.31	47.0	14.35	14.90	9.27	6.78	2.62	0.51	0.029	2.33	0.18	0.21	0.03	0.02	99.02
40387642		6.45	48.3	15.70	13.15	10.05	6.14	2.72	0.50	0.045	2.12	0.15	0.20	0.03	0.02	99.88
40387643		6.34	48.0	15.75	14.10	9.37	6.31	2.76	0.52	0.025	2.04	0.16	0.21	0.03	0.02	99.91
40387644		6.73	46.9	14.80	14.25	9.37	6.94	2.63	0.49	0.037	2.11	0.18	0.20	0.03	0.02	98.64
40387645		6.25	47.5	15.20	13.95	9.43	6.55	2.71	0.54	0.031	2.08	0.18	0.21	0.03	0.02	99.23
40387646		6.44	47.3	15.35	13.75	9.68	6.86	2.65	0.49	0.035	2.04	0.18	0.18	0.03	0.02	99.12
40387647		6.43	47.5	15.35	13.75	9.75	6.87	2.63	0.50	0.044	1.99	0.18	0.20	0.03	0.02	99.44
40387648		6.29	47.3	15.45	14.25	9.36	6.61	2.71	0.53	0.038	2.16	0.18	0.21	0.03	0.02	99.48
40387649		6.41	47.7	15.30	14.25	9.48	6.67	2.68	0.54	0.038	2.20	0.18	0.21	0.03	0.02	100.21
40387650		0.17	44.9	18.40	11.90	9.20	7.48	2.09	1.05	0.344	1.29	0.14	0.16	0.05	0.04	98.82
40387651		6.59	46.8	14.80	14.70	9.10	7.35	2.54	0.53	0.040	2.03	0.19	0.22	0.03	0.02	99.05
40387652		6.25	48.1	15.30	13.60	8.99	6.49	2.74	0.57	0.039	1.95	0.17	0.21	0.03	0.02	99.27
40387653		6.33	46.9	14.40	15.10	9.06	8.21	2.48	0.45	0.039	1.80	0.19	0.18	0.03	0.02	99.44
40387654		6.23	47.9	16.30	12.50	9.65	5.66	2.89	0.59	0.022	1.97	0.16	0.23	0.03	0.03	99.30
40387655		6.18	47.9	16.30	12.35	9.91	6.88	2.76	0.45	0.044	1.83	0.16	0.17	0.03	0.02	99.55
40387656		6.40	47.2	16.20	12.80	9.34	6.97	2.71	0.45	0.035	1.71	0.16	0.17	0.03	0.02	98.42
40387657		6.56	47.8	16.00	13.90	9.30	7.65	2.67	0.45	0.035	1.78	0.18	0.18	0.03	0.02	100.51
40387658		6.46	47.8	16.35	13.45	9.22	7.12	2.74	0.49	0.035	1.67	0.17	0.20	0.03	0.02	99.96
40387659		2.78	48.5	16.15	12.95	9.66	6.75	2.72	0.51	0.043	1.72	0.17	0.20	0.03	0.02	100.44
40387660		2.84	47.5	16.20	13.15	9.53	6.55	2.73	0.53	0.040	1.66	0.17	0.21	0.03	0.02	99.24
40387661		5.96	47.0	15.35	13.75	9.76	6.66	2.61	0.48	0.042	1.96	0.18	0.21	0.03	0.02	98.68
40387662		4.93	49.1	20.5	8.70	10.30	2.85	3.65	0.84	0.015	1.73	0.11	0.19	0.04	0.02	99.60
40387663		3.96	47.1	16.10	13.80	9.72	6.19	2.68	0.45	0.044	2.00	0.18	0.19	0.03	0.02	99.19
40387664		5.48	48.0	17.05	12.95	9.23	5.97	2.91	0.52	0.019	1.79	0.16	0.23	0.03	0.02	99.68
40387665		6.14	47.4	17.05	12.35	9.60	5.53	2.90	0.54	0.032	1.87	0.16	0.21	0.03	0.02	98.51
40387666		1.40	50.2	19.10	9.46	10.70	4.57	3.28	0.65	0.034	1.69	0.13	0.18	0.04	0.02	101.14
40387667		5.52	47.9	16.75	13.20	9.51	6.18	2.82	0.48	0.031	1.81	0.17	0.22	0.03	0.02	99.74
40387668		3.59	46.4	14.30	15.85	8.64	5.96	2.84	0.44	0.009	3.22	0.21	0.36	0.03	0.02	99.06
40387669		5.48	46.6	16.30	13.75	9.28	6.21	2.71	0.49	0.025	2.09	0.18	0.20	0.03	0.02	98.54

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387638		0.70	0.01	0.01	182.5	36.2	410	0.52	4.81	2.62	1.53	19.9	4.81	3.4	1.05	15.3
40387639		0.95	0.01	0.04	188.0	38.7	370	0.57	5.04	2.85	1.65	21.3	4.96	3.8	1.06	17.2
40387640		0.37	0.04	0.11	871	65.5	20	1.16	6.39	4.08	1.76	22.7	7.12	7.9	1.33	28.3
40387641		0.79	0.01	0.07	184.5	39.0	210	0.61	5.08	2.74	1.52	21.0	5.08	4.0	0.96	17.6
40387642		0.75	0.01	0.07	181.0	35.4	320	0.44	4.96	2.73	1.47	20.5	5.14	3.9	1.04	15.6
40387643		0.61	0.02	0.05	187.0	37.0	180	0.52	5.19	2.71	1.64	21.5	4.65	3.7	0.99	16.2
40387644		0.68	0.01	0.05	188.0	32.7	280	0.59	5.29	2.78	1.51	22.8	5.25	3.8	1.02	15.6
40387645		0.80	0.01	0.03	208	35.7	240	0.55	4.82	2.99	1.73	23.9	5.72	4.4	1.20	16.5
40387646		0.55	0.01	0.09	185.5	32.7	270	0.48	4.65	2.66	1.60	22.9	5.48	3.8	1.08	15.2
40387647		0.63	0.01	0.09	187.0	33.4	330	0.57	5.14	2.89	1.52	23.1	5.68	3.8	1.11	16.0
40387648		0.63	0.01	0.08	197.0	35.2	290	0.64	5.13	2.93	1.71	23.7	5.66	4.2	1.13	16.3
40387649		0.91	0.01	0.05	202	36.5	290	0.46	5.35	3.20	1.61	23.9	5.68	4.2	1.15	17.1
40387650		1.78	0.05	0.32	354	26.9	2640	2.66	3.67	1.86	1.28	21.9	3.97	2.7	0.77	12.2
40387651		0.70	0.02	0.04	196.5	35.0	300	0.63	5.06	2.76	1.55	22.5	5.21	4.0	1.07	16.3
40387652		1.06	0.02	0.05	209	38.5	290	0.71	5.23	3.18	1.56	23.2	5.33	4.6	1.14	17.6
40387653		0.58	0.01	0.06	172.5	30.1	300	0.59	4.39	2.57	1.44	21.4	4.45	3.6	0.96	13.9
40387654		1.37	0.02	0.02	233	37.8	170	0.54	5.67	3.05	1.72	23.7	5.29	4.3	1.22	18.1
40387655		0.75	0.01	0.05	165.5	28.2	330	0.51	3.97	2.33	1.57	22.4	4.66	3.4	1.01	13.0
40387656		0.62	0.01	0.05	171.5	30.8	270	0.50	4.41	2.13	1.50	21.9	4.44	3.3	0.96	14.0
40387657		0.51	0.01	0.06	175.0	30.5	270	0.53	4.67	2.34	1.44	21.9	5.01	3.4	0.97	14.4
40387658		0.66	0.01	0.05	186.5	33.3	260	0.57	4.62	2.39	1.60	22.7	5.01	4.0	0.96	15.6
40387659		1.02	0.01	0.06	195.0	35.8	330	0.54	5.14	2.74	1.65	22.2	6.26	3.8	1.16	16.7
40387660		0.92	0.02	0.06	198.0	36.8	300	0.59	5.18	3.10	1.70	22.4	5.64	4.4	1.10	16.8
40387661		0.63	0.01	0.05	182.0	34.6	320	0.41	5.15	2.71	1.59	22.5	5.58	3.4	1.17	15.5
40387662		1.55	<0.01	0.02	219	32.9	110	0.69	4.69	2.42	1.67	25.5	5.14	3.4	1.08	14.9
40387663		0.69	0.01	0.03	183.5	33.4	320	0.48	4.60	2.56	1.70	23.9	5.19	3.6	1.04	15.5
40387664		0.80	0.01	0.03	200.0	36.1	150	0.48	5.01	2.75	1.60	23.4	5.41	4.2	1.08	17.1
40387665		0.82	0.01	0.03	201	35.8	250	0.41	4.80	2.71	1.77	23.4	5.69	3.6	1.17	16.2
40387666		1.09	0.01	0.03	214	33.6	260	0.33	4.55	2.64	1.66	24.8	5.01	3.8	1.08	15.7
40387667		0.62	0.01	0.07	189.5	34.4	230	0.47	5.02	2.67	1.75	23.0	5.45	3.6	1.03	15.9
40387668		0.78	0.01	0.05	188.5	50.8	70	0.31	7.15	4.40	2.35	23.9	7.89	5.7	1.59	24.0
40387669		0.65	0.01	0.03	159.5	28.3	160	0.40	3.85	2.16	1.32	19.6	4.79	3.0	0.85	13.0

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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Page: 6 - C  
 Total # Pages: 6 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 13-SEP-2018  
 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387638		0.36	9.5	19.4	4.55	14.2	4.79	1	220	0.7	0.78	1.55	0.36	0.38	287	1
40387639		0.42	10.1	22.4	4.97	14.0	5.04	1	227	0.7	0.93	1.58	0.44	0.42	299	<1
40387640		0.46	13.6	36.0	8.80	97.7	8.13	3	581	0.9	1.06	3.80	0.60	1.72	128	1
40387641		0.38	10.4	22.2	5.03	12.5	4.87	1	230	0.7	0.91	1.73	0.38	0.45	272	<1
40387642		0.34	9.5	19.6	4.53	11.6	5.05	1	241	0.7	0.75	1.54	0.41	0.40	260	<1
40387643		0.38	9.1	21.1	5.00	12.7	4.53	2	244	0.8	0.77	1.63	0.41	0.42	270	1
40387644		0.42	10.7	19.7	4.54	12.0	4.91	2	237	0.8	0.81	1.73	0.37	0.60	292	<1
40387645		0.41	11.7	22.0	4.86	14.3	5.26	1	247	0.8	0.92	1.78	0.42	0.50	281	<1
40387646		0.39	11.0	20.7	4.39	12.4	4.31	1	249	0.8	0.82	1.59	0.40	0.46	255	<1
40387647		0.37	11.0	20.4	4.60	13.0	4.62	1	249	0.7	0.81	1.68	0.37	0.41	258	<1
40387648		0.42	11.8	21.2	4.75	13.5	4.67	2	250	0.8	0.94	1.68	0.44	0.51	284	<1
40387649		0.42	11.6	22.5	4.87	13.9	5.61	2	245	0.9	0.92	1.72	0.44	0.52	321	<1
40387650		0.26	8.2	15.7	3.54	36.3	3.80	2	422	0.5	0.63	1.23	0.26	0.35	189	1
40387651		0.38	11.6	21.0	4.61	14.1	4.88	1	236	0.8	0.90	1.65	0.41	0.43	267	<1
40387652		0.45	12.4	23.1	5.25	15.6	5.32	1	242	0.8	0.91	1.97	0.39	0.67	288	<1
40387653		0.39	10.4	18.6	4.14	12.0	3.77	1	229	0.6	0.72	1.49	0.34	0.41	257	<1
40387654		0.41	12.1	23.2	5.17	16.0	4.60	1	265	0.9	0.93	1.84	0.46	0.56	247	1
40387655		0.37	9.6	17.5	3.94	11.0	4.21	1	256	0.7	0.81	1.32	0.30	0.36	235	<1
40387656		0.37	9.9	19.0	4.14	10.7	4.65	1	253	0.7	0.74	1.47	0.37	0.40	235	1
40387657		0.35	9.6	19.9	4.08	11.2	4.31	1	254	0.8	0.70	1.56	0.36	0.39	261	<1
40387658		0.38	10.6	20.6	4.51	12.6	4.64	1	254	0.7	0.72	1.59	0.33	0.45	232	<1
40387659		0.39	11.1	21.2	4.89	12.6	5.03	1	254	0.7	0.89	1.64	0.43	0.41	238	<1
40387660		0.38	10.8	21.7	5.11	13.7	5.08	2	256	0.7	0.87	1.78	0.40	0.57	228	<1
40387661		0.42	11.5	21.3	4.48	12.2	4.83	2	241	0.7	0.87	1.57	0.39	0.42	288	<1
40387662		0.36	10.2	20.5	4.43	23.8	4.53	1	344	0.7	0.73	1.53	0.32	0.40	209	6
40387663		0.37	11.0	20.6	4.66	12.3	5.63	1	248	0.7	0.81	1.43	0.40	0.37	291	<1
40387664		0.39	11.9	21.8	5.04	12.9	5.50	1	265	0.8	0.89	1.88	0.38	0.49	212	<1
40387665		0.43	11.2	20.8	4.78	13.7	4.44	1	270	0.7	0.80	1.62	0.40	0.43	258	<1
40387666		0.37	10.8	20.8	4.68	15.5	4.77	1	308	0.9	0.83	1.51	0.32	0.41	200	<1
40387667		0.35	10.7	21.1	4.67	11.5	4.86	2	260	0.8	0.76	1.59	0.35	0.39	241	<1
40387668		0.58	18.2	32.6	6.93	11.1	7.18	2	228	1.1	1.13	2.43	0.62	0.63	269	1
40387669		0.29	9.9	16.4	3.92	9.7	3.93	1	217	0.6	0.68	1.35	0.35	0.41	218	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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Page: 6 - D  
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 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	
40387638		26.8	2.26	131	0.9	0.02	<0.005	0.018	0.001	0.05	0.3	0.01	0.03	0.10	0.16	52.8
40387639		28.0	2.59	135	0.4	0.01	<0.005	0.022	0.001	<0.05	0.3	0.01	0.04	0.09	0.15	45.4
40387640		35.8	2.95	306	0.4	0.02	<0.005	0.030	0.001	<0.05	0.2	0.01	0.36	0.04	0.09	17.2
40387641		27.1	2.79	142	0.5	0.01	<0.005	0.023	0.002	<0.05	0.6	<0.01	0.04	0.09	0.17	55.9
40387642		26.0	2.32	130	0.5	0.01	<0.005	0.020	0.002	<0.05	0.4	0.01	0.03	0.08	0.18	47.2
40387643		26.3	2.54	139	0.8	0.01	<0.005	0.021	0.001	0.05	0.4	0.01	0.04	0.09	0.17	52.5
40387644		25.7	2.60	142	0.4	0.01	<0.005	0.019	0.001	0.05	0.5	0.01	0.05	0.09	0.15	53.2
40387645		27.8	2.96	160	0.3	0.01	<0.005	0.022	0.002	0.05	0.4	0.01	0.04	0.07	0.14	49.5
40387646		26.5	3.00	151	0.6	0.01	<0.005	0.023	0.001	<0.05	0.4	0.01	0.04	0.07	0.15	49.0
40387647		26.2	2.95	139	0.6	0.01	<0.005	0.022	0.002	<0.05	0.5	0.01	0.04	0.07	0.15	49.1
40387648		27.6	2.56	161	0.8	0.01	<0.005	0.021	0.002	<0.05	0.3	0.02	0.04	0.09	0.15	52.5
40387649		28.2	2.99	159	0.6	0.01	<0.005	0.024	0.001	0.05	0.3	0.01	0.04	0.06	0.15	51.0
40387650		19.2	1.97	118	4.7	0.18	0.011	0.028	0.003	0.42	0.9	0.06	0.44	0.48	0.26	64.3
40387651		27.2	2.53	147	0.9	0.01	<0.005	0.021	0.001	0.05	0.4	0.01	0.05	0.08	0.14	56.7
40387652		28.8	2.68	173	1.1	0.01	<0.005	0.024	0.001	0.05	0.4	0.02	0.06	0.08	0.16	49.4
40387653		24.7	2.73	146	0.4	0.01	<0.005	0.024	0.002	0.05	0.5	0.01	0.05	0.09	0.16	59.9
40387654		28.5	2.80	166	0.5	0.02	<0.005	0.020	<0.001	0.05	0.3	<0.01	0.03	0.11	0.14	44.5
40387655		22.8	2.35	128	0.3	0.01	<0.005	0.019	0.002	<0.05	0.4	0.02	0.03	0.08	0.13	46.2
40387656		23.0	2.38	128	0.4	0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.03	0.07	0.12	49.9
40387657		24.0	2.16	138	0.6	0.01	<0.005	0.022	0.001	<0.05	0.4	0.01	0.05	0.08	0.12	53.8
40387658		25.3	2.73	156	0.5	0.01	<0.005	0.025	0.001	0.05	0.4	0.01	0.05	0.06	0.12	49.6
40387659		27.6	2.92	148	0.4	0.01	<0.005	0.025	0.002	0.05	0.5	0.01	0.05	0.07	0.12	48.1
40387660		27.9	2.72	166	0.4	0.01	<0.005	0.024	0.001	<0.05	0.5	0.01	0.06	0.07	0.13	51.3
40387661		27.1	2.87	144	0.9	0.01	<0.005	0.022	0.002	<0.05	0.3	0.01	0.04	0.07	0.13	49.2
40387662		24.4	2.33	132	0.3	0.01	<0.005	0.019	<0.001	0.06	0.3	<0.01	<0.02	0.05	0.10	22.2
40387663		25.7	2.41	141	0.8	0.01	<0.005	0.023	0.001	0.05	0.3	0.01	0.05	0.07	0.14	48.9
40387664		27.6	2.90	158	0.9	0.01	<0.005	0.022	<0.001	<0.05	0.3	<0.01	0.04	0.07	0.15	47.2
40387665		26.3	2.69	140	0.7	0.01	<0.005	0.022	<0.001	<0.05	0.2	<0.01	0.03	0.07	0.14	42.6
40387666		25.6	2.61	145	0.4	<0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.03	0.06	0.11	31.0
40387667		26.1	2.75	133	0.7	0.01	<0.005	0.025	0.001	<0.05	0.3	0.01	0.04	0.08	0.12	46.5
40387668		39.0	4.17	221	0.4	0.01	<0.005	0.031	0.001	0.05	0.2	0.01	0.05	0.08	0.18	53.3
40387669		21.3	2.56	126	0.6	0.01	<0.005	0.021	0.002	<0.05	0.3	0.01	0.05	0.09	0.12	53.0

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387638		207	9.2	1.03	89.6	2.9	40.6	120	0.004	0.0029	0.006					
40387639		207	8.4	0.96	71.7	2.3	39.0	114	0.003	0.0037	0.007					
40387640		17.5	19.5	0.92	13.6	11.3	16.1	95	0.002	0.0008	0.001					
40387641		230	8.9	1.10	92.3	2.6	35.5	129	0.005	0.0046	0.007					
40387642		204	8.0	1.08	80.9	2.7	35.8	114	0.005	0.0066	0.008					
40387643		212	8.7	1.19	90.9	2.8	31.3	126	0.004	0.0124	0.019					
40387644		207	8.8	1.08	97.5	2.6	33.7	123	0.005	0.0147	0.021					
40387645		191.5	8.5	0.99	89.3	2.5	32.7	122	0.004	0.0096	0.017					
40387646		189.5	8.0	0.92	94.7	2.5	32.4	113	0.005	0.0065	0.011					
40387647		196.0	8.2	1.01	98.0	2.5	32.3	115	0.005	0.0065	0.012					
40387648		221	8.5	1.09	102.0	2.7	31.6	121	0.004	0.0088	0.013					
40387649		218	8.3	1.01	107.0	2.5	32.3	121	0.003	0.0197	0.032					
40387650		1130	36.0	2.95	723	6.0	17.0	112	0.028	0.0464	0.228					
40387651		198.5	9.5	0.99	130.0	2.3	31.1	128	0.003	0.0157	0.038					
40387652		192.0	8.6	1.15	104.0	2.9	29.6	120	0.003	0.0051	0.016					
40387653		212	9.0	0.87	134.0	2.4	31.0	123	0.004	0.0107	0.023					
40387654		174.5	9.2	0.98	78.6	2.5	28.9	128	0.003	0.0095	0.020					
40387655		167.5	7.5	1.05	103.0	2.1	29.0	103	0.006	0.0149	0.019					
40387656		199.0	7.6	0.96	114.0	2.2	27.4	111	0.007	0.0135	0.023					
40387657		211	7.9	0.87	124.0	2.1	27.0	112	0.006	0.0107	0.019					
40387658		190.0	7.6	0.89	111.0	2.3	24.5	111	0.004	0.0247	0.038					
40387659		177.5	7.4	0.98	106.5	2.5	29.0	110	0.004	0.0278	0.049					
40387660		183.5	7.9	1.02	111.5	2.6	29.1	116	0.003	0.0266	0.051					
40387661		192.0	7.4	0.90	101.5	2.4	32.9	120	0.002	0.0205	0.018					
40387662		103.0	7.9	0.85	30.7	2.0	18.6	86	0.001	0.0022	0.002					
40387663		169.5	7.6	0.90	101.5	2.1	29.3	124	0.002	0.0039	0.006					
40387664		165.0	7.7	1.00	91.1	2.2	24.6	118	0.002	0.0007	0.001					
40387665		172.0	11.5	1.00	79.5	2.3	27.3	119	0.003	0.0052	0.007					
40387666		120.0	6.9	0.98	56.3	2.1	25.9	82	0.002	0.0125	0.013					
40387667		188.5	7.4	0.98	94.6	2.2	24.8	109	0.007	0.0216	0.022					
40387668		179.0	8.4	1.56	89.2	4.1	34.1	144	0.006	0.0134	0.018					
40387669		184.5	7.8	0.98	108.5	2.3	26.6	122	0.002	0.0058	0.003					

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	
		Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %	TiO2 %	Zn %
40387638		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40387639													
40387640													
40387641													
40387642													
40387643													
40387644													
40387645													
40387646													
40387647													
40387648													
40387649													
40387650													
40387651													
40387652													
40387653													
40387654													
40387655													
40387656													
40387657													
40387658													
40387659													
40387660													
40387661													
40387662													
40387663													
40387664													
40387665													
40387666													
40387667													
40387668													
40387669													

Comments: \*\*Corrected copy for PGM-MS24 on samples 40387555 to 40387565\*\*

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



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Page: Appendix 1  
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 Finalized Date: 13-SEP-2018  
 Account: RTECIKBZ

Project: EB80000961

**CERTIFICATE OF ANALYSIS TB18208332**

	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">C-IR07</td> <td style="width: 25%;">ME-ICP06</td> <td style="width: 25%;">ME-ICP81</td> <td style="width: 25%;">ME-MS42</td> </tr> <tr> <td>ME-MS61</td> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> </tr> <tr> <td>S-IR08</td> <td>TOT-ICP06</td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-ICP81	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06		
C-IR07	ME-ICP06	ME-ICP81	ME-MS42										
ME-MS61	ME-MS81	OA-GRA05	PGM-MS24										
S-IR08	TOT-ICP06												



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 Finalized Date: 16-SEP-2018  
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**CERTIFICATE TB18213559**

Project: EB80000962  
 P.O. No.: 3103290934  
 This report is for 115 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 29-AUG-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
--	-----------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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:   
 Colin Ramshaw, Vancouver Laboratory Manager





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Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387670		2.25	58.1	18.75	7.02	6.37	2.43	3.91	2.29	0.002	0.88	0.11	0.27	0.07	0.11	100.72
40387671		4.35	50.0	20.3	8.91	10.65	3.17	3.49	0.68	0.014	1.66	0.11	0.17	0.04	0.02	100.59
40387672		3.95	46.9	16.20	13.30	10.20	7.22	2.49	0.39	0.046	1.41	0.16	0.15	0.03	0.02	100.00
40387673		6.34	47.3	16.30	13.25	10.45	7.04	2.51	0.41	0.048	1.56	0.17	0.15	0.03	0.02	99.76
40387674		4.42	46.9	16.65	14.40	9.77	6.35	2.68	0.45	0.028	1.87	0.17	0.16	0.03	0.02	100.15
40387675		5.03	47.3	16.30	14.15	9.99	6.65	2.61	0.43	0.033	1.89	0.17	0.19	0.03	0.02	100.25
40387676		3.27	49.2	19.25	10.20	11.15	3.73	3.31	0.67	0.032	1.85	0.13	0.18	0.04	0.02	100.77
40387677		3.33	46.6	16.20	13.75	10.00	6.28	2.61	0.41	0.036	2.02	0.17	0.20	0.03	0.02	98.94
40387678		3.12	48.4	19.75	9.46	10.70	3.32	3.44	0.90	0.028	1.78	0.12	0.20	0.04	0.03	99.72
40387679		6.76	46.8	16.55	12.75	10.10	5.96	2.77	0.48	0.040	1.79	0.16	0.20	0.03	0.03	98.54
40387680		0.17	45.5	18.85	12.60	9.48	7.58	2.09	1.06	0.346	1.31	0.14	0.15	0.05	0.04	101.05
40387681		6.03	48.5	16.85	13.05	10.40	6.38	2.72	0.46	0.043	1.82	0.16	0.21	0.03	0.02	101.34
40387682		6.09	48.7	16.75	13.30	10.40	6.25	2.73	0.48	0.043	2.01	0.16	0.18	0.03	0.02	101.79
40387683		6.07	47.3	16.55	13.20	10.20	6.17	2.68	0.47	0.040	1.88	0.16	0.21	0.03	0.02	99.69
40387684		6.60	47.7	16.45	13.40	10.25	6.54	2.66	0.47	0.041	1.92	0.17	0.20	0.03	0.02	100.59
40387685		6.26	47.6	16.45	13.15	10.35	6.30	2.66	0.46	0.043	1.91	0.16	0.19	0.03	0.02	100.06
40387686		6.49	47.7	16.65	13.65	10.15	5.99	2.72	0.50	0.037	2.15	0.17	0.21	0.03	0.02	100.77
40387687		6.55	46.9	16.60	13.40	10.20	5.90	2.72	0.48	0.038	2.20	0.17	0.20	0.03	0.02	99.57
40387688		6.22	47.6	16.75	13.35	9.99	5.94	2.76	0.51	0.036	2.20	0.17	0.22	0.03	0.02	100.43
40387689		2.91	46.3	16.15	13.45	9.60	6.02	2.67	0.51	0.032	2.11	0.17	0.22	0.03	0.02	98.20
40387690		2.97	47.2	16.25	12.95	10.20	6.16	2.66	0.49	0.041	2.02	0.16	0.20	0.03	0.02	99.31
40387691		6.36	47.2	16.10	13.15	9.95	6.00	2.68	0.51	0.038	2.05	0.17	0.22	0.03	0.02	99.05
40387692		6.05	46.9	16.05	13.05	9.91	6.02	2.68	0.54	0.039	1.99	0.16	0.23	0.03	0.02	98.75
40387693		6.49	46.6	15.85	13.55	9.91	6.20	2.65	0.51	0.038	1.96	0.17	0.21	0.03	0.02	98.49
40387694		6.77	47.2	15.95	13.50	10.05	6.14	2.69	0.51	0.039	2.01	0.17	0.22	0.03	0.02	99.29
40387695		6.60	46.7	15.45	13.90	9.83	6.78	2.63	0.49	0.041	1.98	0.17	0.20	0.03	0.02	98.97
40387696		6.72	46.5	15.40	14.25	9.74	6.73	2.61	0.48	0.036	2.04	0.18	0.22	0.03	0.02	99.07
40387697		6.41	47.3	15.95	13.45	10.05	5.90	2.76	0.52	0.036	2.04	0.17	0.23	0.03	0.03	99.86
40387698		6.21	47.0	15.50	14.05	9.85	6.77	2.63	0.50	0.038	2.14	0.18	0.23	0.03	0.02	99.65
40387699		6.59	47.0	15.35	14.85	9.52	7.01	2.59	0.49	0.034	2.15	0.19	0.22	0.03	0.02	100.13
40387700		1.67	59.8	18.00	6.45	5.83	2.28	3.68	2.48	0.002	0.76	0.10	0.22	0.07	0.13	100.15
40387701		6.57	46.4	15.05	14.70	9.49	7.37	2.56	0.48	0.033	2.09	0.18	0.22	0.03	0.02	99.41
40387702		6.23	46.0	13.85	15.60	9.10	9.19	2.30	0.44	0.039	1.88	0.19	0.20	0.02	0.02	99.55
40387703		6.09	46.4	14.90	14.85	9.43	7.72	2.48	0.47	0.034	2.01	0.18	0.20	0.03	0.02	99.40
40387704		6.15	47.5	16.20	13.35	10.20	5.74	2.71	0.51	0.033	2.05	0.17	0.21	0.03	0.02	99.63
40387705		6.05	47.6	16.55	13.35	10.10	5.26	2.77	0.54	0.027	2.08	0.17	0.25	0.03	0.02	99.64
40387706		6.14	47.2	16.05	13.80	10.15	5.95	2.67	0.50	0.031	2.09	0.17	0.21	0.03	0.02	99.52
40387707		6.52	47.7	16.05	13.35	10.30	5.84	2.72	0.52	0.031	2.25	0.17	0.24	0.03	0.02	100.20
40387708		6.05	48.8	16.40	14.05	9.86	5.67	2.83	0.55	0.021	2.20	0.18	0.26	0.03	0.03	101.66
40387709		4.36	47.8	16.25	13.90	9.86	5.50	2.81	0.55	0.020	2.33	0.18	0.24	0.03	0.03	100.36



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Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40387670		0.41	0.06	0.11	1005	71.4	20	1.33	6.57	4.04	1.91	24.8	6.88	7.1	1.31	30.6
40387671		1.38	0.02	0.03	223	32.1	110	0.35	4.32	2.40	1.56	25.4	4.07	3.0	0.87	14.3
40387672		1.48	0.02	0.04	150.0	28.1	390	0.55	4.41	2.22	1.33	19.1	4.39	3.2	0.84	12.4
40387673		0.52	0.02	0.04	146.0	26.0	390	0.39	4.02	2.06	1.30	19.2	4.27	3.0	0.85	12.7
40387674		0.67	0.01	0.06	161.5	30.4	220	0.46	4.21	2.34	1.51	19.8	4.48	3.3	0.91	13.4
40387675		0.49	0.02	0.05	157.5	30.4	260	0.43	4.45	2.61	1.39	19.4	4.63	3.6	0.98	13.7
40387676		1.01	0.02	0.03	177.5	31.5	250	0.55	5.18	2.64	1.67	22.2	4.81	3.3	0.97	14.1
40387677		0.61	0.01	0.05	150.5	31.5	270	0.39	4.30	2.30	1.39	18.3	4.52	3.3	1.00	16.9
40387678		1.55	<0.01	0.04	221	32.7	210	0.66	4.74	2.42	1.60	21.4	4.89	3.2	0.90	16.8
40387679		0.88	0.01	0.06	217	39.1	330	0.49	5.49	2.88	1.88	21.3	5.90	3.7	1.11	17.4
40387680		1.85	0.03	0.33	330	28.5	2680	2.69	3.74	2.20	1.30	19.4	3.87	2.7	0.81	12.7
40387681		0.70	0.01	0.06	181.5	35.3	330	0.44	4.84	2.71	1.62	20.7	4.95	3.8	1.05	15.5
40387682		0.74	0.01	0.07	187.5	33.6	310	0.49	4.84	2.65	1.61	19.6	5.07	3.6	0.99	14.8
40387683		0.78	0.01	0.06	184.5	36.4	300	0.38	4.90	2.85	1.56	20.5	5.52	3.8	1.08	16.2
40387684		0.74	0.01	0.08	168.0	33.9	290	0.42	4.75	2.42	1.55	18.9	4.76	3.7	0.95	14.9
40387685		0.74	0.01	0.05	162.5	31.1	290	0.44	4.44	2.56	1.51	17.7	4.85	3.5	0.97	13.9
40387686		0.79	0.01	0.07	184.5	33.8	250	0.50	4.98	2.66	1.62	19.3	5.21	3.8	0.93	15.2
40387687		0.71	0.01	0.07	179.0	35.0	250	0.46	4.80	2.79	1.59	18.2	4.74	3.6	1.07	15.4
40387688		0.85	0.02	0.06	194.0	38.3	260	0.52	5.39	2.75	1.63	19.0	5.34	3.7	1.09	17.0
40387689		0.92	0.02	0.06	187.5	38.0	230	0.54	5.37	2.82	1.77	18.6	4.99	4.0	1.06	16.8
40387690		0.93	0.01	0.06	197.0	36.8	300	0.50	5.35	2.87	1.73	20.6	5.33	3.9	1.11	16.2
40387691		0.93	0.01	0.06	180.5	35.4	250	0.44	4.87	2.70	1.62	17.0	5.00	3.9	0.99	15.5
40387692		1.13	0.01	0.06	197.0	38.3	270	0.45	4.99	2.76	1.56	19.2	5.74	3.7	1.04	17.3
40387693		0.79	0.02	0.06	198.5	39.4	290	0.54	5.61	3.12	1.81	20.3	5.50	4.2	1.15	17.6
40387694		0.76	0.02	0.06	190.0	36.4	270	0.47	5.12	2.90	1.59	19.7	5.47	4.2	1.07	16.0
40387695		0.75	0.01	0.07	179.0	35.8	280	0.45	4.61	2.90	1.54	18.3	5.35	3.6	1.12	15.7
40387696		0.83	0.02	0.08	178.0	34.3	250	0.53	4.89	2.83	1.51	18.5	4.85	3.7	0.99	15.1
40387697		1.39	0.02	0.06	222	38.6	250	0.53	5.23	3.17	1.65	19.9	5.41	4.2	1.19	17.1
40387698		0.71	0.01	0.08	176.0	40.2	250	0.47	5.34	2.85	1.59	18.3	5.22	3.3	1.02	18.0
40387699		0.68	0.01	0.08	184.5	36.9	240	0.60	5.01	2.78	1.68	18.7	5.25	3.9	1.06	16.0
40387700		0.35	0.04	0.08	1055	57.9	20	1.08	5.16	3.02	1.60	18.4	5.98	7.0	1.09	24.8
40387701		0.79	0.02	0.08	195.5	40.3	240	0.66	5.94	2.99	1.72	18.8	5.14	4.1	1.10	17.6
40387702		0.72	0.02	0.07	166.0	34.1	270	0.64	4.93	2.62	1.49	17.2	4.83	3.6	1.04	15.2
40387703		0.68	0.02	0.06	189.0	37.2	250	0.61	5.31	2.94	1.65	18.7	5.30	4.1	1.00	16.7
40387704		0.91	0.02	0.07	200	38.6	230	0.57	5.68	2.82	1.75	19.1	5.00	3.9	1.13	19.4
40387705		0.89	0.02	0.08	209	41.0	190	0.60	5.70	3.05	1.73	19.7	5.81	4.1	1.11	17.9
40387706		0.65	0.01	0.08	193.0	35.7	210	0.57	5.42	2.84	1.59	17.8	5.02	4.1	1.03	15.7
40387707		0.98	0.01	0.07	216	43.1	240	0.55	5.65	3.39	2.00	19.3	6.19	4.3	1.16	19.8
40387708		0.78	0.01	0.08	238	44.5	170	0.64	5.98	3.46	1.86	21.3	6.73	4.3	1.39	19.4
40387709		0.86	0.02	0.08	235	42.1	160	0.80	6.41	3.50	1.90	20.5	6.48	5.2	1.17	18.7



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Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40387670		0.58	14.2	39.4	9.46	97.2	8.05	2	617	0.9	1.06	4.81	0.50	1.71	127	126
40387671		0.31	8.7	16.6	4.14	17.8	3.70	1	340	0.7	0.67	1.47	0.35	0.36	227	<1
40387672		0.28	8.1	16.1	3.68	10.1	4.02	1	237	0.6	0.69	1.58	0.35	0.34	240	<1
40387673		0.33	8.1	15.6	3.38	10.6	3.72	1	243	0.5	0.67	1.18	0.33	0.29	306	1
40387674		0.36	9.5	18.5	3.97	11.7	4.23	1	240	0.6	0.73	1.42	0.36	0.34	317	<1
40387675		0.38	9.5	18.0	3.98	10.8	4.38	1	238	0.6	0.71	1.31	0.35	0.32	283	<1
40387676		0.37	10.0	18.9	4.02	17.8	4.65	1	303	0.6	0.73	1.50	0.35	0.34	313	<1
40387677		0.37	9.9	19.2	4.10	9.9	4.64	1	231	0.7	0.77	1.43	0.40	0.34	310	1
40387678		0.36	9.9	19.1	4.40	26.4	4.36	1	320	0.6	0.70	1.59	0.37	0.35	307	1
40387679		0.34	11.0	21.9	5.06	13.2	5.46	1	260	0.7	0.88	2.24	0.43	0.36	284	<1
40387680		0.25	8.0	16.8	3.69	37.1	4.11	2	417	0.5	0.61	1.33	0.32	0.26	188	<1
40387681		0.38	10.7	21.2	4.68	11.9	5.39	1	263	0.8	0.78	1.64	0.46	0.34	279	<1
40387682		0.40	10.4	20.1	4.33	12.1	4.99	1	251	0.7	0.78	1.74	0.45	0.33	277	<1
40387683		0.40	10.4	21.4	4.80	12.0	5.41	1	265	0.7	0.81	1.54	0.45	0.37	293	<1
40387684		0.35	9.9	20.4	4.42	11.2	4.86	1	240	0.6	0.76	1.50	0.43	0.34	256	<1
40387685		0.32	9.3	18.8	4.19	10.4	4.45	1	229	0.6	0.74	1.42	0.42	0.31	244	<1
40387686		0.40	11.2	20.9	4.55	12.7	5.17	1	243	0.7	0.74	1.61	0.38	0.29	274	1
40387687		0.35	10.7	21.6	4.72	11.6	5.05	1	236	0.7	0.80	1.44	0.41	0.32	265	<1
40387688		0.41	11.9	23.4	5.05	12.9	5.31	1	248	0.8	0.82	1.56	0.41	0.38	248	<1
40387689		0.43	11.8	22.5	4.88	12.6	5.70	1	237	0.8	0.79	1.65	0.44	0.38	253	<1
40387690		0.38	11.4	22.4	4.73	13.0	5.84	2	252	0.8	0.81	1.59	0.45	0.35	260	<1
40387691		0.41	10.8	20.5	4.72	11.7	5.00	1	224	0.7	0.76	1.70	0.46	0.34	235	<1
40387692		0.42	11.6	23.2	5.02	13.7	5.40	2	236	0.8	0.82	1.77	0.46	0.35	240	<1
40387693		0.45	11.7	23.3	5.16	13.2	5.82	1	246	0.8	0.86	1.74	0.41	0.34	253	<1
40387694		0.41	11.0	21.5	4.90	12.3	5.82	1	242	0.7	0.81	1.69	0.43	0.68	263	<1
40387695		0.43	10.8	21.2	4.70	11.4	5.45	1	226	0.7	0.77	1.69	0.40	0.38	254	<1
40387696		0.39	10.3	21.3	4.50	11.6	4.97	1	225	0.8	0.84	1.52	0.39	0.34	244	<1
40387697		0.42	11.3	23.0	5.04	13.5	5.71	1	236	0.7	0.87	1.85	0.43	0.41	272	<1
40387698		0.39	11.1	22.6	5.17	11.5	5.40	1	219	0.7	0.80	1.68	0.47	0.35	254	<1
40387699		0.36	11.2	22.2	4.79	11.7	5.56	1	229	0.7	0.85	1.58	0.39	0.39	268	<1
40387700		0.39	11.7	32.8	7.80	91.3	7.36	2	521	0.7	0.85	3.56	0.49	1.76	106	<1
40387701		0.43	12.2	25.1	5.41	12.3	6.19	1	236	0.8	0.91	2.01	0.43	0.39	283	<1
40387702		0.39	9.9	19.8	4.46	11.3	4.73	1	206	0.6	0.79	1.40	0.37	0.31	252	<1
40387703		0.37	11.0	21.9	4.87	11.6	5.24	1	238	0.7	0.81	1.65	0.38	0.40	267	<1
40387704		0.41	11.4	23.8	5.04	12.3	5.68	1	248	0.8	0.92	1.65	0.42	0.37	301	1
40387705		0.44	11.8	26.1	5.35	13.5	6.85	1	256	0.8	0.91	1.86	0.52	0.40	262	<1
40387706		0.40	10.6	21.6	4.78	11.6	5.58	1	238	0.8	0.81	1.63	0.41	0.34	259	<1
40387707		0.43	12.3	23.7	5.40	13.4	5.55	2	252	0.8	1.02	2.29	0.58	0.78	293	<1
40387708		0.48	12.7	24.1	5.63	13.2	6.16	1	257	0.9	1.05	1.95	0.57	0.60	287	<1
40387709		0.57	13.8	23.4	5.37	13.8	5.98	1	249	1.0	0.93	1.91	0.44	0.43	302	<1



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 Account: RTEICKBZ

Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387670		36.9	3.51	283	0.5	0.02	<0.005	0.030	0.001	<0.05	0.3	0.03	0.36	0.05	0.06	15.9
40387671		23.1	2.19	124	0.5	<0.01	<0.005	0.017	0.001	0.05	0.4	0.01	0.02	0.07	0.09	27.6
40387672		22.9	2.20	113	1.0	0.01	<0.005	0.021	0.001	0.05	0.4	0.01	0.05	0.09	0.12	53.2
40387673		21.7	2.21	109	1.1	0.01	<0.005	0.020	0.001	<0.05	0.4	0.01	0.04	0.10	0.13	50.4
40387674		24.1	2.24	112	0.7	0.01	<0.005	0.027	0.001	<0.05	0.4	0.01	0.04	0.09	0.13	54.5
40387675		24.3	2.19	127	1.8	0.01	<0.005	0.023	0.001	<0.05	0.5	0.02	0.04	0.10	0.12	52.9
40387676		25.4	2.24	124	0.5	<0.01	<0.005	0.020	0.001	<0.05	0.4	0.01	0.02	0.08	0.11	29.9
40387677		25.0	2.44	114	1.3	0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.03	0.10	0.14	48.1
40387678		24.8	2.49	119	0.5	0.01	<0.005	0.025	0.001	0.05	0.3	0.01	<0.02	0.07	0.10	29.0
40387679		28.8	2.82	137	0.7	0.01	<0.005	0.026	0.001	<0.05	0.6	0.02	0.03	0.09	0.12	46.3
40387680		19.8	1.80	100	4.9	0.14	0.009	0.030	0.003	0.50	1.3	0.07	0.45	0.48	0.28	64.5
40387681		26.8	2.68	133	0.6	0.01	<0.005	0.021	0.001	<0.05	0.4	0.01	0.04	0.47	0.25	63.8
40387682		26.5	2.40	137	0.7	0.01	<0.005	0.022	0.001	<0.05	0.4	0.01	0.04	0.09	0.14	47.6
40387683		27.8	2.33	135	0.5	0.01	<0.005	0.025	0.001	<0.05	0.5	0.02	0.04	0.09	0.12	44.0
40387684		25.8	2.53	121	0.5	0.01	<0.005	0.022	0.001	<0.05	0.4	0.01	0.04	0.09	0.13	49.5
40387685		24.4	2.40	117	0.6	0.01	<0.005	0.022	0.001	<0.05	0.5	0.01	0.04	0.08	0.11	43.4
40387686		26.4	2.64	134	0.6	0.01	<0.005	0.024	0.002	<0.05	0.3	0.01	0.04	0.10	0.16	52.7
40387687		26.1	2.63	131	0.7	0.01	<0.005	0.026	0.001	<0.05	0.4	0.01	0.04	0.09	0.14	47.2
40387688		27.6	2.56	138	0.8	0.01	<0.005	0.023	0.001	<0.05	0.3	0.01	0.04	0.09	0.13	43.8
40387689		28.1	2.67	145	0.7	0.01	<0.005	0.023	0.001	<0.05	0.5	0.01	0.05	0.13	0.16	51.2
40387690		28.1	2.86	134	0.9	0.01	<0.005	0.022	0.001	<0.05	0.3	0.01	0.04	0.08	0.14	44.1
40387691		26.7	2.55	130	1.1	0.01	<0.005	0.023	0.001	<0.05	0.3	0.01	0.04	0.09	0.13	44.1
40387692		28.6	2.53	143	0.5	0.01	<0.005	0.022	0.001	<0.05	0.3	0.01	0.04	0.10	0.13	42.6
40387693		29.5	2.92	143	0.9	0.01	<0.005	0.023	0.002	<0.05	0.5	0.02	0.04	0.10	0.13	48.0
40387694		28.0	2.91	146	0.8	0.01	<0.005	0.022	0.002	<0.05	0.5	0.02	0.04	0.08	0.13	47.0
40387695		27.0	2.57	130	0.7	0.01	<0.005	0.024	0.001	<0.05	0.4	0.01	0.04	0.07	0.13	47.8
40387696		26.5	2.33	134	0.4	0.01	<0.005	0.025	0.001	<0.05	0.5	0.01	0.04	0.09	0.13	51.6
40387697		29.7	3.06	158	0.5	0.01	<0.005	0.023	0.001	<0.05	0.3	0.02	0.04	0.09	0.13	45.4
40387698		27.5	2.52	128	0.9	0.01	<0.005	0.024	0.002	<0.05	0.4	0.02	0.04	0.08	0.13	49.0
40387699		27.5	2.95	138	1.0	0.01	<0.005	0.024	0.001	<0.05	0.4	0.02	0.04	0.09	0.15	54.6
40387700		30.3	2.67	254	0.3	0.01	<0.005	0.027	<0.001	<0.05	<0.2	0.02	0.29	0.03	0.06	14.6
40387701		29.8	2.67	146	0.3	0.01	0.014	0.023	0.001	<0.05	0.2	0.01	0.05	0.09	0.15	56.5
40387702		25.9	2.55	132	0.4	0.01	0.011	0.019	0.001	<0.05	0.3	0.01	0.05	0.09	0.14	69.7
40387703		27.4	2.60	140	0.8	0.01	0.007	0.021	0.002	<0.05	0.2	0.02	0.04	0.09	0.15	61.0
40387704		30.1	2.82	140	0.4	0.01	0.015	0.023	0.001	<0.05	0.3	0.01	0.04	0.08	0.14	47.8
40387705		29.7	2.92	152	0.7	0.01	0.012	0.023	0.001	<0.05	0.3	0.01	0.04	0.08	0.14	45.4
40387706		27.2	2.54	139	0.5	0.01	0.011	0.021	0.001	<0.05	0.5	0.01	0.04	0.08	0.13	48.9
40387707		30.4	3.06	167	1.4	0.01	0.011	0.020	0.001	<0.05	0.3	<0.01	0.05	0.08	0.13	46.7
40387708		31.2	3.43	175	0.5	0.01	0.013	0.024	0.001	<0.05	0.3	0.01	0.05	0.09	0.14	48.6
40387709		31.7	3.38	174	0.5	0.01	0.006	0.021	0.001	<0.05	0.3	<0.01	0.05	0.09	0.15	49.9





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Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40387670		18.3	22.2	0.82	12.1	11.9	14.2	89	<0.001	<0.0005	0.001
40387671		115.5	8.7	1.13	41.7	2.3	22.2	84	<0.001	0.0005	0.001
40387672		186.5	10.4	0.91	124.0	1.8	30.8	114	0.001	0.0013	0.001
40387673		202	8.0	0.83	110.5	1.8	33.0	111	0.002	0.0006	0.001
40387674		212	9.7	1.03	98.8	2.5	30.2	125	0.002	0.0011	0.001
40387675		230	8.0	0.96	105.0	2.3	33.8	115	0.004	0.0009	0.001
40387676		153.0	6.6	0.98	38.1	2.0	29.9	92	0.001	<0.0005	<0.001
40387677		225	7.1	0.93	94.6	2.2	32.7	114	0.003	<0.0005	<0.001
40387678		140.0	8.9	0.93	39.0	2.2	26.8	100	<0.001	<0.0005	0.001
40387679		197.5	7.9	0.97	93.8	2.6	32.7	110	0.002	0.0068	0.010
40387680		1135	37.3	3.17	700	6.9	18.8	110	0.021	0.0367	0.213
40387681		1130	36.2	2.95	708	5.9	18.1	111	0.003	0.0131	0.013
40387682		208	7.8	1.07	102.0	2.6	31.8	111	0.003	0.0108	0.010
40387683		180.0	7.1	0.93	90.4	2.4	30.4	107	0.002	0.0127	0.015
40387684		221	8.1	1.09	103.0	2.7	34.1	118	0.002	0.0121	0.012
40387685		170.0	6.9	0.93	94.6	2.6	30.2	96	0.003	0.0100	0.010
40387686		218	8.4	1.11	112.5	2.9	38.7	119	0.001	0.0090	0.008
40387687		203	8.2	1.01	96.2	2.5	33.6	116	0.002	0.0073	0.007
40387688		179.5	7.2	1.02	89.1	2.6	32.8	104	0.002	0.0055	0.004
40387689		202	8.8	1.19	105.5	3.0	35.5	118	0.002	0.0104	0.008
40387690		172.5	7.8	0.93	99.5	3.0	33.6	106	0.002	0.0101	0.008
40387691		174.0	8.0	1.03	95.0	2.6	32.4	110	0.002	0.0064	0.006
40387692		176.5	8.6	0.99	93.9	2.4	30.5	111	0.001	0.0055	0.006
40387693		188.0	7.8	0.94	102.0	2.7	34.2	112	0.002	0.0061	0.005
40387694		188.0	7.7	1.07	102.5	2.9	33.8	110	0.002	0.0048	0.004
40387695		184.5	7.7	1.06	117.5	2.8	31.7	113	0.002	0.0045	0.004
40387696		195.5	8.1	1.04	118.0	3.0	35.0	116	0.002	0.0049	0.004
40387697		181.0	9.5	0.96	96.2	2.5	35.3	117	0.002	0.0043	0.004
40387698		179.0	7.9	1.06	118.0	3.0	33.7	111	0.002	0.0038	0.004
40387699		190.0	8.1	1.05	128.0	3.0	33.3	118	0.002	0.0041	0.003
40387700		15.4	16.7	0.87	12.8	12.1	13.9	78	<0.001	0.0005	0.002
40387701		194.0	9.0	1.05	137.5	2.7	33.3	115	0.002	0.0045	0.003
40387702		198.5	10.2	0.93	185.5	2.5	35.9	119	0.003	0.0055	0.005
40387703		193.5	9.1	0.94	145.0	2.6	34.2	120	0.001	0.0080	0.009
40387704		183.5	8.0	1.07	89.9	2.8	35.0	112	0.001	0.0016	0.002
40387705		189.5	8.1	1.11	80.4	3.1	32.8	112	0.001	0.0007	0.001
40387706		190.5	8.0	0.98	94.8	2.6	35.4	112	0.001	0.0009	0.001
40387707		187.5	8.3	1.03	84.7	2.6	36.1	112	0.001	0.0032	0.003
40387708		189.5	8.4	1.10	80.0	3.2	32.9	116	0.002	0.0074	0.008
40387709		197.0	8.8	1.17	82.9	3.3	34.0	119	0.002	0.0032	0.002





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**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387710		0.17	45.6	18.80	12.20	9.43	7.48	2.09	1.06	0.344	1.29	0.14	0.18	0.05	0.04	100.58
40387711		5.45	48.0	16.35	13.35	9.85	5.62	2.81	0.56	0.024	2.21	0.17	0.25	0.03	0.03	100.25
40387712		3.19	46.9	16.15	13.30	9.29	5.84	2.85	0.61	0.026	1.99	0.17	0.27	0.03	0.03	98.41
40387713		6.60	46.7	16.10	13.10	9.26	5.07	2.91	0.67	0.023	2.19	0.17	0.26	0.03	0.03	98.13
40387714		6.13	46.2	15.75	13.80	9.24	5.64	2.77	0.57	0.027	2.13	0.17	0.26	0.03	0.03	98.52
40387715		6.64	48.1	15.95	14.15	9.26	5.89	2.84	0.62	0.032	2.27	0.18	0.26	0.03	0.03	100.71
40387716		4.59	48.3	15.75	13.40	9.85	6.14	2.77	0.57	0.020	2.07	0.17	0.25	0.03	0.02	100.58
40387717		4.95	46.1	15.45	13.55	9.50	5.85	2.91	0.53	0.013	2.09	0.17	0.23	0.03	0.03	99.07
40387718		5.51	48.2	15.15	14.60	9.94	6.81	2.66	0.51	0.031	1.99	0.19	0.21	0.03	0.02	100.98
40387719		1.79	48.3	15.25	14.65	9.74	6.96	2.68	0.52	0.030	2.11	0.19	0.21	0.03	0.02	101.28
40387720		1.78	47.3	14.80	14.05	10.00	7.02	2.57	0.48	0.037	1.97	0.18	0.21	0.03	0.02	99.29
40387721		6.02	47.6	15.15	13.75	10.10	6.88	2.60	0.49	0.035	2.03	0.18	0.21	0.03	0.02	99.86
40387722		6.74	48.3	14.70	12.60	10.75	7.19	2.60	0.49	0.068	1.70	0.17	0.19	0.03	0.02	99.68
40387723		6.33	48.3	14.70	14.15	9.57	6.37	2.80	0.56	0.027	2.13	0.18	0.24	0.03	0.02	100.41
40387724		6.71	47.2	15.80	14.05	9.45	6.88	2.70	0.48	0.037	1.75	0.18	0.21	0.03	0.02	99.59
40387725		6.42	47.9	16.05	13.75	9.65	6.93	2.71	0.48	0.037	1.82	0.17	0.18	0.03	0.02	100.23
40387726		6.24	47.6	16.40	12.80	10.10	7.23	2.59	0.44	0.046	1.57	0.16	0.17	0.03	0.02	100.05
40387727		6.06	48.5	16.65	12.05	10.55	7.48	2.57	0.43	0.054	1.30	0.16	0.16	0.03	0.02	101.04
40387728		6.23	47.9	14.80	13.65	9.84	6.29	2.92	0.53	0.037	2.25	0.18	0.26	0.03	0.02	100.45
40387729		6.32	47.8	15.15	14.20	9.75	6.57	2.70	0.52	0.041	1.98	0.18	0.23	0.03	0.02	100.33
40387730		2.06	57.2	18.35	7.87	6.35	2.63	3.75	2.31	0.003	0.99	0.11	0.35	0.07	0.10	100.39
40387731		6.49	47.6	15.55	14.00	9.85	8.46	2.46	0.39	0.055	1.38	0.18	0.15	0.03	0.02	100.59
40387732		6.34	46.9	14.90	12.70	10.85	7.43	2.43	0.43	0.058	1.62	0.17	0.17	0.03	0.02	99.04
40387733		6.17	49.2	15.80	11.95	10.55	6.04	3.06	0.56	0.050	1.65	0.16	0.27	0.03	0.02	100.68
40387734		6.05	47.8	15.75	12.80	10.10	6.57	2.77	0.52	0.042	1.69	0.17	0.21	0.03	0.02	100.04
40387735		6.09	48.2	15.75	12.75	10.50	7.37	2.60	0.43	0.057	1.52	0.17	0.17	0.03	0.02	100.67
40387736		6.02	47.9	14.25	13.35	11.25	7.15	2.52	0.43	0.062	1.94	0.18	0.22	0.03	0.02	101.19
40387737		6.40	47.9	16.20	12.85	9.83	6.98	2.72	0.46	0.037	1.60	0.16	0.22	0.03	0.02	99.80
40387738		6.21	47.9	16.25	11.95	10.20	7.22	2.67	0.42	0.043	1.52	0.16	0.18	0.03	0.02	100.05
40387739		6.35	47.3	18.35	11.10	9.88	7.96	2.48	0.44	0.036	1.14	0.13	0.15	0.03	0.02	100.11
40387740		0.17	45.6	18.85	12.20	9.44	7.49	2.09	1.05	0.347	1.30	0.14	0.17	0.05	0.04	100.68
40387741		6.11	46.9	18.25	11.35	10.05	7.69	2.52	0.36	0.036	1.30	0.14	0.15	0.03	0.02	100.06
40387742		5.92	47.4	19.00	11.15	10.25	7.87	2.54	0.35	0.038	1.18	0.14	0.13	0.03	0.02	101.11
40387743		6.36	46.9	19.45	10.25	10.40	8.20	2.43	0.33	0.038	0.99	0.13	0.10	0.03	0.01	100.08
40387744		6.30	46.9	19.80	10.15	10.65	7.79	2.39	0.31	0.038	1.01	0.13	0.12	0.03	0.01	99.96
40387745		5.98	46.9	19.75	10.25	10.45	8.01	2.41	0.32	0.034	1.01	0.13	0.11	0.03	0.01	100.20
40387746		5.92	47.0	18.75	11.15	10.40	7.96	2.48	0.35	0.030	1.26	0.14	0.14	0.04	0.02	100.29
40387747		6.15	46.7	17.70	11.10	10.65	7.55	2.45	0.37	0.034	1.41	0.14	0.16	0.03	0.02	99.34
40387748		6.21	46.4	17.65	11.50	9.97	7.99	2.42	0.42	0.027	1.40	0.14	0.17	0.03	0.02	99.01
40387749		2.83	45.6	17.20	11.50	9.72	10.25	2.16	0.31	0.032	1.16	0.14	0.13	0.03	0.01	98.91



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Account: RTEICKBZ

Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40387710		1.88	0.03	0.32	358	27.7	2660	2.31	4.01	2.16	1.56	19.4	3.70	3.0	0.71	12.1
40387711		1.00	0.02	0.08	239	43.0	180	0.72	6.46	3.75	2.03	20.3	7.41	5.0	1.35	18.9
40387712		0.95	0.01	0.07	243	43.1	200	0.74	6.19	3.64	2.23	19.6	6.68	4.5	1.26	19.5
40387713		1.62	0.01	0.06	256	43.9	170	0.69	6.77	3.73	1.88	19.7	6.74	5.2	1.33	19.6
40387714		1.90	0.01	0.05	249	41.5	210	0.79	6.58	3.51	2.12	20.1	6.51	4.5	1.34	18.5
40387715		1.10	0.01	0.08	247	45.2	240	0.87	6.71	3.81	2.15	20.7	7.40	5.3	1.22	20.5
40387716		1.24	0.01	0.07	228	45.6	150	0.75	6.40	4.03	1.92	19.6	6.25	4.6	1.14	19.9
40387717		2.62	0.03	0.06	231	40.4	110	1.10	5.89	3.32	1.48	20.1	6.37	4.5	1.24	18.2
40387718		0.64	0.01	0.08	219	37.1	240	0.75	6.26	3.22	1.86	18.9	5.49	4.0	1.17	15.9
40387719		0.59	0.01	0.08	215	38.3	220	0.70	5.69	3.53	1.83	20.5	5.94	4.5	1.08	17.5
40387720		0.62	0.10	0.07	204	36.0	280	0.78	5.59	3.30	1.69	18.2	5.53	4.2	0.98	15.3
40387721		0.78	0.02	0.07	196.5	35.7	260	0.84	5.60	2.70	1.85	19.5	5.68	3.6	0.96	15.9
40387722		0.87	0.01	0.06	195.0	33.3	490	0.50	5.21	2.81	1.55	18.5	5.61	3.8	1.14	14.9
40387723		1.33	0.01	0.08	219	43.8	210	0.60	7.13	3.83	1.79	19.4	6.36	4.8	1.41	19.4
40387724		0.80	0.03	0.09	214	33.8	270	0.71	5.53	3.16	1.55	19.4	4.96	3.7	1.02	15.3
40387725		0.50	0.01	0.07	197.5	35.8	270	0.72	5.74	3.14	1.40	18.4	5.54	3.7	1.09	15.8
40387726		0.89	0.01	0.04	173.5	28.7	340	0.84	4.35	2.40	1.32	17.1	4.34	3.0	0.95	12.4
40387727		1.09	0.01	0.03	170.5	26.5	380	0.79	3.79	2.39	1.52	17.4	3.39	2.9	0.90	11.6
40387728		1.74	0.02	0.05	216	43.1	270	0.88	6.80	3.80	1.77	18.8	5.75	4.6	1.26	19.0
40387729		1.16	0.01	0.07	217	39.5	290	0.91	5.84	3.00	1.46	19.0	5.74	3.8	1.22	17.2
40387730		0.31	0.05	0.11	923	66.9	30	1.01	6.59	3.47	1.83	19.1	7.82	7.7	1.30	29.4
40387731		0.46	0.01	0.06	150.0	24.8	390	0.60	3.79	2.43	1.23	16.8	4.14	3.1	0.80	10.9
40387732		1.33	0.02	0.03	177.0	28.9	440	0.81	4.41	2.53	1.44	17.2	4.86	3.2	0.86	12.6
40387733		1.34	0.01	0.03	211	46.6	360	0.68	6.21	3.58	1.97	19.6	7.52	4.8	1.35	20.1
40387734		1.57	0.02	0.04	205	34.3	310	0.56	5.23	2.48	1.72	18.1	5.10	3.6	1.07	15.2
40387735		1.10	0.01	0.03	167.5	30.4	400	0.73	4.30	2.61	1.42	18.5	4.77	3.4	0.90	12.7
40387736		1.89	0.02	0.03	171.5	33.3	430	0.59	5.28	3.00	1.71	17.2	4.84	4.1	1.14	15.0
40387737		0.79	0.01	0.05	183.0	33.3	260	0.76	4.55	2.60	1.33	17.2	4.81	3.8	0.82	14.7
40387738		1.49	0.02	0.03	168.5	29.0	300	0.76	4.67	2.49	1.44	16.7	4.42	3.6	0.89	13.3
40387739		1.09	0.02	0.02	173.5	24.4	260	0.96	3.74	1.61	1.11	16.3	3.63	2.3	0.71	11.1
40387740		1.91	0.04	0.33	348	26.8	2490	2.38	3.70	2.04	1.42	17.8	3.78	2.8	0.69	12.3
40387741		1.26	0.01	0.02	138.5	25.3	260	1.23	3.43	1.86	1.17	20.5	3.23	2.4	0.69	11.3
40387742		1.01	0.02	0.04	136.0	24.2	270	1.09	3.23	1.61	1.10	20.1	3.36	2.5	0.67	11.1
40387743		0.82	0.02	0.03	125.0	20.7	280	1.20	2.69	1.45	0.91	19.7	2.92	2.1	0.55	9.5
40387744		0.63	0.01	0.04	120.5	20.7	280	0.82	2.53	1.51	1.00	19.1	3.19	2.0	0.64	9.7
40387745		0.79	0.02	0.03	124.5	21.8	250	1.04	2.74	1.42	0.92	19.5	3.07	2.1	0.56	10.0
40387746		0.57	0.01	0.05	145.5	26.8	210	1.08	3.85	1.97	1.19	19.7	3.31	2.7	0.72	12.0
40387747		1.03	0.01	0.04	150.5	29.1	250	1.08	4.03	2.23	1.51	19.7	4.07	3.5	0.88	12.8
40387748		0.87	0.02	0.04	160.5	29.6	190	1.11	3.86	2.26	1.38	20.4	3.91	3.2	0.75	13.0
40387749		0.67	0.02	0.04	132.0	24.7	230	1.22	3.11	1.78	1.09	17.8	3.36	2.4	0.73	11.2



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Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387710		0.29	8.3	14.6	3.41	36.2	3.89	2	412	0.6	0.62	1.45	0.35	0.34	203	1
40387711		0.56	13.5	24.1	5.42	13.6	5.96	2	247	0.9	1.08	2.11	0.48	0.49	285	<1
40387712		0.50	13.0	23.2	5.27	15.8	6.08	1	251	0.9	0.99	2.08	0.56	0.65	262	<1
40387713		0.52	14.0	24.4	5.67	18.5	6.17	2	245	0.9	1.11	1.97	0.57	0.62	258	<1
40387714		0.50	12.7	22.8	5.00	15.3	5.65	2	244	0.9	1.02	1.91	0.58	0.52	267	<1
40387715		0.54	14.0	26.3	5.84	15.8	6.06	2	248	0.9	1.02	2.18	0.51	0.68	283	<1
40387716		0.46	13.0	24.7	5.60	13.3	5.68	1	242	0.8	0.90	2.05	0.58	0.51	291	1
40387717		0.46	12.1	23.5	5.13	13.0	6.18	1	237	0.9	1.04	1.78	0.49	0.55	272	<1
40387718		0.39	11.1	22.6	4.62	12.7	6.05	1	235	1.0	1.04	1.84	0.47	0.52	292	<1
40387719		0.40	11.8	22.4	4.94	12.5	5.28	1	235	0.9	0.97	1.79	0.44	0.54	283	1
40387720		0.48	10.8	21.5	4.79	11.6	5.57	1	232	0.8	0.91	2.05	0.47	0.55	296	<1
40387721		0.47	10.9	21.6	4.64	11.0	5.26	2	231	0.8	0.99	1.54	0.46	0.43	293	<1
40387722		0.43	9.3	19.5	4.18	12.1	4.28	1	224	0.6	0.80	1.32	0.49	0.52	270	1
40387723		0.51	12.7	24.9	5.46	14.1	5.73	1	228	1.0	1.14	1.96	0.58	0.62	308	1
40387724		0.51	10.3	18.7	4.28	12.0	4.66	1	239	0.7	0.82	1.56	0.38	0.46	240	<1
40387725		0.44	10.5	21.5	4.49	11.3	5.15	1	241	0.8	0.84	1.71	0.43	0.60	244	<1
40387726		0.29	8.9	17.5	3.45	10.6	4.27	1	237	0.6	0.65	1.16	0.32	0.38	224	<1
40387727		0.33	7.7	15.1	3.62	10.3	3.66	1	238	0.6	0.70	1.24	0.28	0.34	201	<1
40387728		0.44	13.4	25.0	5.52	14.0	6.50	1	224	1.0	1.00	1.98	0.54	0.55	274	1
40387729		0.51	11.7	23.8	4.89	12.1	6.31	1	222	0.7	0.88	1.78	0.42	0.48	250	<1
40387730		0.51	12.8	39.6	8.71	89.7	9.41	2	550	0.7	1.03	3.70	0.63	2.17	127	1
40387731		0.34	7.6	15.1	3.12	8.8	3.76	1	218	0.5	0.61	1.21	0.31	0.37	203	<1
40387732		0.40	9.1	17.4	3.65	11.2	4.19	1	221	0.6	0.76	1.32	0.47	0.33	262	<1
40387733		0.48	12.7	25.3	5.91	15.2	6.70	1	242	0.8	1.09	2.22	0.48	0.57	232	1
40387734		0.44	10.9	19.3	4.39	13.3	5.43	1	244	0.7	0.80	1.56	0.44	0.37	240	1
40387735		0.34	8.8	16.9	3.91	9.7	4.38	1	226	0.7	0.81	1.30	0.39	0.29	227	1
40387736		0.46	10.0	21.1	4.45	11.0	5.55	1	199.5	0.7	0.95	1.40	0.49	0.39	295	1
40387737		0.33	9.7	18.7	4.41	10.5	4.52	1	237	0.6	0.88	1.50	0.45	0.39	212	<1
40387738		0.32	8.9	17.5	3.83	10.0	4.28	1	228	0.7	0.76	1.36	0.36	0.37	220	<1
40387739		0.26	6.6	14.1	3.07	10.6	3.14	1	263	0.5	0.55	1.07	0.24	0.26	146	49
40387740		0.35	7.4	16.0	3.46	33.9	3.45	2	392	0.7	0.57	1.20	0.32	0.32	<5	1
40387741		0.30	7.0	14.5	3.09	8.6	3.32	1	274	0.6	0.64	1.11	0.28	0.20	165	<1
40387742		0.22	6.9	12.8	2.92	8.1	3.31	1	280	0.6	0.52	1.09	0.29	0.32	150	<1
40387743		0.17	5.5	11.5	2.54	7.5	2.60	1	289	0.4	0.44	0.88	0.23	0.22	131	<1
40387744		0.20	5.7	11.6	2.55	7.0	2.68	1	289	0.5	0.47	0.81	0.24	0.21	133	<1
40387745		0.22	5.8	11.6	2.61	7.1	3.10	1	293	0.5	0.49	0.88	0.23	0.20	127	<1
40387746		0.28	7.5	15.8	3.27	8.0	3.63	1	282	0.5	0.55	1.11	0.28	0.52	153	<1
40387747		0.31	8.5	16.1	3.58	8.5	3.81	1	274	0.6	0.66	1.29	0.28	0.36	192	3
40387748		0.31	8.1	16.3	3.63	9.6	3.51	1	276	0.6	0.68	1.41	0.33	0.34	168	<1
40387749		0.23	6.6	13.8	3.11	7.1	3.03	1	270	0.4	0.45	1.01	0.26	0.27	148	<1



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 Account: RTEICKBZ

Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387710		19.2	1.78	120	5.7	0.12	0.021	0.030	0.002	0.41	0.8	0.07	0.44	0.49	0.27	67.7
40387711		32.9	3.49	180	0.7	0.01	0.012	0.019	0.001	<0.05	0.2	<0.01	0.04	0.07	0.13	47.3
40387712		31.2	2.88	176	0.8	0.01	0.011	0.022	0.001	<0.05	0.3	0.01	0.04	0.08	0.14	50.4
40387713		33.0	3.29	186	0.9	0.01	0.012	0.020	0.001	<0.05	0.3	0.01	0.03	0.09	0.14	47.8
40387714		31.6	3.27	182	0.5	0.01	0.015	0.025	0.002	<0.05	0.4	0.01	0.05	0.12	0.14	52.5
40387715		32.8	3.04	192	0.5	0.01	0.014	0.025	0.001	<0.05	0.4	0.01	0.05	0.09	0.17	52.0
40387716		31.0	3.18	164	0.8	0.01	0.006	0.024	0.002	<0.05	0.4	0.01	0.06	0.11	0.15	51.3
40387717		29.9	3.04	165	0.5	0.01	0.012	0.023	0.002	<0.05	0.2	0.01	0.14	0.10	0.12	50.3
40387718		29.5	3.13	154	0.3	0.02	0.006	0.023	0.001	<0.05	0.5	0.02	0.06	0.09	0.13	54.9
40387719		30.1	2.94	162	0.4	0.01	0.007	0.023	0.001	<0.05	0.3	0.01	0.07	0.10	0.14	59.5
40387720		28.2	2.73	162	0.4	0.01	0.009	0.021	0.001	<0.05	0.4	0.01	0.06	0.10	0.15	57.9
40387721		27.8	2.86	147	0.6	0.01	0.005	0.020	0.001	<0.05	0.3	<0.01	0.06	0.09	0.13	54.8
40387722		26.6	2.64	133	0.6	0.01	0.009	0.019	0.001	<0.05	0.5	<0.01	0.04	0.08	0.13	50.6
40387723		33.5	3.14	195	0.8	0.01	0.007	0.022	0.001	<0.05	0.3	<0.01	0.05	0.10	0.14	51.1
40387724		26.6	2.59	149	0.5	0.01	0.007	0.023	0.001	<0.05	0.5	<0.01	0.06	0.10	0.13	56.4
40387725		26.5	2.58	145	0.9	0.01	<0.005	0.023	0.001	<0.05	0.5	0.01	0.04	0.10	0.13	56.7
40387726		21.6	2.12	113	0.8	0.01	0.006	0.018	0.001	<0.05	0.2	0.02	0.04	0.11	0.12	57.5
40387727		20.6	2.10	109	0.9	0.01	<0.005	0.020	0.001	<0.05	<0.2	0.02	0.04	0.08	0.11	54.4
40387728		32.2	2.80	178	0.7	0.01	<0.005	0.022	0.001	<0.05	0.4	0.01	0.03	0.08	0.14	47.6
40387729		29.3	2.72	149	0.7	0.01	<0.005	0.024	0.001	<0.05	0.4	<0.01	0.04	0.10	0.13	54.2
40387730		36.2	3.84	312	0.7	0.01	0.008	0.031	0.001	<0.05	0.2	0.02	0.36	0.05	0.10	20.8
40387731		19.6	2.01	101	0.6	0.01	<0.005	0.020	0.001	<0.05	0.5	0.02	0.04	0.10	0.12	64.2
40387732		23.4	2.11	124	0.9	0.01	<0.005	0.020	0.001	<0.05	0.4	0.02	0.03	0.10	0.14	56.7
40387733		33.5	3.27	184	0.7	0.01	<0.005	0.020	0.001	<0.05	0.2	0.01	0.03	0.08	0.13	42.6
40387734		25.4	2.32	130	0.7	0.01	0.007	0.018	0.001	<0.05	0.3	0.02	0.03	0.08	0.11	48.0
40387735		22.8	2.03	122	0.9	0.01	<0.005	0.018	<0.001	<0.05	0.3	0.02	0.04	0.09	0.10	52.3
40387736		26.4	2.35	129	0.5	0.02	<0.005	0.021	0.001	<0.05	0.3	0.02	0.02	0.10	0.13	48.4
40387737		24.9	2.46	156	0.4	0.01	<0.005	0.022	0.001	<0.05	0.4	0.01	0.04	0.11	0.12	53.4
40387738		23.5	1.94	126	0.8	0.01	<0.005	0.019	<0.001	<0.05	0.4	0.01	0.03	0.08	0.10	49.1
40387739		17.7	1.69	96	1.9	0.01	<0.005	0.019	<0.001	<0.05	0.2	<0.01	0.03	0.05	0.09	55.1
40387740		18.2	2.02	107	5.2	0.17	0.017	0.031	0.003	0.40	1.3	0.04	0.45	0.47	0.26	65.4
40387741		17.9	1.82	99	2.0	0.01	0.007	0.016	0.001	<0.05	0.3	<0.01	0.03	0.07	0.09	50.7
40387742		17.7	1.61	98	2.1	0.01	<0.005	0.017	<0.001	<0.05	0.3	0.01	0.03	0.08	0.09	56.2
40387743		15.3	1.53	77	1.7	0.01	<0.005	0.014	<0.001	<0.05	0.3	<0.01	0.02	0.06	0.07	52.6
40387744		15.2	1.29	82	0.2	0.01	<0.005	0.014	<0.001	<0.05	0.3	<0.01	0.02	0.06	0.06	49.2
40387745		15.9	1.44	82	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.4	0.01	0.02	0.06	0.07	50.6
40387746		19.3	1.89	105	0.1	0.01	<0.005	0.016	<0.001	<0.05	0.3	0.01	0.02	0.05	0.08	50.2
40387747		21.8	2.03	130	0.5	0.01	<0.005	0.016	<0.001	<0.05	0.4	0.01	0.02	0.08	0.09	48.7
40387748		22.1	2.29	124	0.4	0.01	<0.005	0.019	<0.001	<0.05	0.4	0.01	0.03	0.07	0.09	53.7
40387749		18.1	1.59	101	0.1	0.01	0.006	0.019	<0.001	<0.05	<0.2	<0.01	0.03	0.05	0.09	63.8





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Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40387710		1105	36.2	3.03	687	6.5	17.9	108	0.020	0.0499	0.224
40387711		185.0	8.9	1.22	79.4	3.3	32.6	116	0.002	0.0027	0.003
40387712		187.0	9.7	1.19	95.7	3.2	29.5	118	0.002	0.0049	0.005
40387713		186.5	10.3	1.28	80.5	3.4	30.4	120	0.001	0.0029	0.002
40387714		235	11.9	1.08	95.2	2.5	30.3	151	0.002	0.0040	0.002
40387715		221	9.6	1.25	93.4	3.4	31.0	127	0.002	0.0029	0.003
40387716		203	9.9	1.21	98.0	3.1	37.2	115	0.002	0.0055	0.005
40387717		224	12.2	1.02	92.9	2.7	32.8	116	0.003	0.0039	0.002
40387718		238	8.5	0.98	100.5	2.7	37.5	118	0.003	0.0095	0.006
40387719		229	9.3	1.18	112.5	3.0	38.6	122	0.003	0.0081	0.007
40387720		223	8.9	1.14	111.0	2.8	42.1	119	0.003	0.0083	0.007
40387721		208	8.6	1.01	108.5	2.7	39.4	113	0.002	0.0051	0.003
40387722		212	8.3	1.09	104.0	2.5	45.3	99	0.003	0.0063	0.005
40387723		201	8.7	1.32	87.8	3.4	39.0	118	0.002	0.0078	0.005
40387724		209	8.2	0.99	108.5	2.5	31.3	113	0.003	0.0198	0.015
40387725		211	8.1	1.00	111.0	2.7	33.3	112	0.004	0.0188	0.013
40387726		213	9.0	0.90	117.5	1.8	30.9	106	0.005	0.0234	0.013
40387727		181.0	9.0	0.80	115.5	1.6	31.2	100	0.003	0.0125	0.008
40387728		187.0	8.5	1.16	74.3	2.7	40.0	114	0.001	0.0070	0.005
40387729		215	8.4	1.00	92.1	2.9	37.1	118	0.003	0.0163	0.008
40387730		21.1	18.9	1.18	15.0	11.7	17.4	96	<0.001	<0.0005	0.001
40387731		222	8.0	0.91	134.0	1.9	32.3	105	0.007	0.0247	0.019
40387732		223	9.3	0.90	104.0	1.6	44.2	103	0.003	0.0146	0.011
40387733		173.0	6.5	1.04	77.4	2.5	35.3	108	0.003	0.0116	0.011
40387734		214	7.6	0.87	89.9	1.8	32.6	108	0.004	0.0165	0.016
40387735		211	7.2	0.87	110.0	1.7	37.2	102	0.005	0.0157	0.013
40387736		209	8.9	0.90	92.1	2.0	43.2	111	0.003	0.0084	0.008
40387737		218	7.6	1.31	122.5	4.2	30.8	107	0.004	0.0132	0.012
40387738		166.5	9.7	0.90	126.5	2.2	31.5	107	0.002	0.0061	0.005
40387739		132.5	8.5	0.77	193.0	1.6	17.2	95	0.001	0.0050	0.005
40387740		1110	35.7	3.06	686	6.5	17.9	109	0.020	0.0459	0.232
40387741		136.5	8.1	0.71	179.0	1.4	17.0	89	0.003	0.0050	0.005
40387742		139.5	8.1	0.86	200	1.7	19.3	89	0.002	0.0089	0.010
40387743		109.5	6.4	0.64	223	1.4	12.1	78	0.002	0.0055	0.006
40387744		115.0	5.8	0.60	212	1.3	11.7	77	0.002	0.0070	0.008
40387745		116.5	5.5	0.61	240	1.3	12.5	79	0.001	0.0058	0.006
40387746		139.0	5.9	0.76	227	1.6	17.0	86	0.002	0.0059	0.007
40387747		141.5	7.2	0.80	202	1.6	21.1	89	0.002	0.0059	0.007
40387748		151.0	7.8	0.75	251	1.9	20.4	94	0.001	0.0052	0.007
40387749		133.0	9.1	0.76	416	1.7	17.6	91	0.001	0.0062	0.010





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**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40387750		2.84	45.6	17.25	11.60	9.63	10.50	2.12	0.30	0.031	1.12	0.14	0.13	0.03	0.01	99.18
40387751		6.14	46.5	18.70	10.90	10.30	8.96	2.24	0.34	0.077	1.15	0.13	0.12	0.03	0.01	100.52
40387752		6.34	46.3	17.85	11.30	9.87	10.25	2.16	0.36	0.034	1.13	0.14	0.13	0.03	0.01	100.31
40387753		6.03	45.8	19.00	10.15	10.20	10.45	1.91	0.44	0.092	0.91	0.12	0.10	0.03	0.01	101.46
40387754		6.08	46.1	17.55	11.80	10.00	8.75	2.21	0.50	0.049	1.32	0.15	0.14	0.04	0.02	99.84
40387755		6.47	46.7	17.50	11.90	10.35	8.41	2.23	0.48	0.074	1.47	0.15	0.15	0.03	0.02	100.58
40387756		6.31	47.5	17.65	12.05	10.30	8.31	2.34	0.51	0.076	1.50	0.15	0.17	0.03	0.02	101.70
40387757		6.19	46.5	16.55	12.60	10.05	7.85	2.33	0.58	0.061	1.78	0.16	0.18	0.04	0.02	99.94
40387758		3.01	47.2	16.90	12.55	10.10	7.93	2.43	0.50	0.058	1.67	0.16	0.19	0.03	0.02	100.42
40387759		3.62	47.1	17.30	12.50	10.15	8.18	2.37	0.54	0.090	1.58	0.16	0.17	0.04	0.02	101.07
40387760		1.52	57.6	18.45	7.74	5.92	2.53	3.70	2.70	0.004	0.98	0.11	0.32	0.07	0.12	100.55
40387761		2.66	45.6	19.55	9.48	9.69	9.85	2.00	0.56	0.058	0.74	0.12	0.08	0.04	0.02	99.54
40387762		2.99	47.6	18.00	11.90	9.90	8.18	2.25	0.93	0.069	1.24	0.16	0.12	0.05	0.05	101.64
40387763		0.74	46.6	21.1	8.55	9.15	6.61	1.89	1.52	0.193	0.96	0.12	0.10	0.05	0.12	99.73
40387764		3.18	52.1	16.25	11.10	5.77	6.73	2.02	1.47	0.041	1.23	0.12	0.16	0.03	0.08	100.39
40387765		7.97	72.1	12.35	5.27	0.77	1.89	3.22	2.50	0.022	0.50	0.03	0.09	0.02	0.05	100.68
40387766		11.20	66.6	15.45	6.59	0.35	2.45	2.59	2.94	0.024	0.66	0.03	0.11	0.01	0.06	100.23
40387767		11.41	67.2	15.40	6.73	0.55	2.44	2.58	2.69	0.024	0.70	0.02	0.10	0.01	0.05	101.13
40387768		9.60	67.2	15.25	6.44	0.57	2.36	2.81	3.06	0.025	0.68	0.03	0.11	0.01	0.05	101.13
40387769		10.05	66.8	14.95	6.39	0.41	2.39	2.48	3.05	0.025	0.65	0.03	0.10	0.01	0.06	99.69
40387770		0.17	45.8	18.85	12.35	9.46	7.48	2.13	1.08	0.350	1.34	0.14	0.15	0.05	0.04	101.12
40387771		11.02	68.9	13.95	5.96	0.24	2.25	2.81	2.63	0.023	0.61	0.02	0.09	0.01	0.05	99.62
40387772		9.50	67.1	15.70	7.08	0.29	2.61	2.39	3.12	0.024	0.75	0.03	0.12	0.01	0.06	101.81
40387773		10.45	65.0	16.70	7.36	0.24	2.88	2.16	3.16	0.025	0.76	0.02	0.10	0.01	0.06	101.38
40387774		4.13	66.1	15.95	6.76	0.49	2.69	2.54	3.26	0.024	0.73	0.03	0.11	0.01	0.07	101.51
40387775		7.05	49.3	13.15	16.85	6.16	4.59	2.49	1.77	0.003	3.68	0.19	0.41	0.06	0.09	101.05
40387776		6.18	48.4	12.80	17.00	7.07	4.16	2.75	1.42	0.002	3.53	0.19	0.41	0.07	0.05	98.88
40387777		5.88	48.9	12.90	17.05	7.06	4.21	2.78	1.78	0.003	3.56	0.19	0.41	0.07	0.06	100.17
40387778		6.55	49.3	13.05	17.30	7.38	4.27	2.86	1.20	0.003	3.59	0.19	0.40	0.06	0.04	100.46
40387779		1.99	48.6	12.90	16.90	7.30	4.20	2.79	1.37	<0.002	3.56	0.19	0.40	0.07	0.04	99.55
40387780		1.82	49.0	12.95	17.15	7.31	4.21	2.81	1.32	0.002	3.58	0.19	0.41	0.07	0.04	100.23
40387781		6.04	49.6	12.90	17.20	7.30	4.24	2.57	1.67	0.002	3.48	0.19	0.40	0.07	0.06	100.74
40387782		4.64	47.7	13.85	16.05	8.50	5.23	2.17	0.91	0.017	3.29	0.19	0.46	0.03	0.04	100.31
40387783		3.07	48.4	13.05	17.05	6.31	4.70	2.08	1.76	0.004	3.52	0.19	0.38	0.05	0.11	100.03
40387784		4.04	73.2	12.45	5.30	0.69	1.88	3.79	1.39	0.020	0.51	0.02	0.09	0.02	0.04	101.05



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 Account: RTEICKBZ

Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40387750		0.72	0.02	0.04	124.0	23.8	220	1.15	3.36	1.53	1.16	17.4	3.19	2.3	0.66	10.5
40387751		1.06	0.02	0.03	131.0	23.1	550	1.19	3.13	1.72	1.07	18.7	3.20	2.4	0.61	10.3
40387752		0.75	0.01	0.03	137.0	24.3	250	1.40	3.28	1.57	1.18	18.1	3.43	2.4	0.65	10.8
40387753		2.25	0.02	0.04	122.0	18.8	640	2.45	2.72	1.41	0.93	18.4	2.51	1.8	0.51	8.9
40387754		1.21	0.01	0.03	148.0	26.0	350	1.78	3.76	1.84	1.34	18.7	3.76	2.6	0.74	11.4
40387755		1.12	0.02	0.03	155.5	29.0	520	1.60	4.10	2.06	1.31	20.7	3.87	3.2	0.84	12.8
40387756		1.09	0.02	0.04	163.0	31.0	530	1.72	4.19	2.13	1.30	20.9	4.07	3.8	0.89	13.6
40387757		1.24	0.02	0.04	188.0	37.1	440	1.49	4.61	2.53	1.55	22.2	5.62	3.2	1.01	17.2
40387758		0.68	0.01	0.05	183.5	35.1	420	1.65	4.64	2.29	1.32	22.0	4.56	3.8	0.97	15.7
40387759		0.87	0.01	0.05	173.0	32.7	640	1.43	4.25	2.34	1.28	21.5	4.35	3.3	0.95	14.6
40387760		0.31	0.05	0.10	1060	69.7	20	1.27	6.44	3.55	1.81	23.1	7.10	6.8	1.34	30.1
40387761		1.75	0.01	0.02	186.0	15.8	420	1.79	2.12	1.09	0.75	17.1	2.01	1.5	0.40	7.2
40387762		1.19	0.01	0.08	424	21.7	490	1.96	3.23	1.75	0.96	20.1	2.71	2.4	0.68	9.7
40387763		2.77	0.02	0.15	1040	21.3	1360	2.92	2.61	1.63	0.98	20.3	2.73	2.1	0.54	9.5
40387764		3.29	0.10	0.22	665	44.4	290	3.06	3.88	2.51	1.32	20.3	4.11	3.6	0.87	20.4
40387765		1.87	0.13	0.07	445	44.4	160	0.88	2.99	1.63	0.84	13.3	2.96	4.8	0.65	20.8
40387766		2.37	0.02	0.05	532	45.7	190	2.20	3.53	2.16	1.11	20.1	3.18	5.1	0.70	21.5
40387767		2.64	0.08	0.04	480	53.5	180	2.12	3.39	1.78	1.07	21.0	3.98	4.7	0.71	26.7
40387768		2.53	0.09	0.11	473	38.1	180	1.95	3.40	1.98	0.98	20.1	2.72	5.1	0.71	18.7
40387769		2.34	0.05	0.03	553	55.8	180	1.81	3.57	2.09	1.16	19.0	4.34	5.2	0.77	26.1
40387770		1.90	0.04	0.33	347	29.3	2500	2.71	3.83	2.16	1.28	21.4	4.05	3.0	0.81	13.2
40387771		2.08	0.01	0.03	454	44.8	170	1.45	3.07	1.90	1.00	17.9	3.58	4.7	0.62	20.9
40387772		2.53	0.01	0.04	572	51.0	180	2.15	3.86	1.87	1.20	20.6	3.73	4.8	0.75	24.8
40387773		2.90	0.01	0.07	559	51.6	190	2.62	4.15	2.15	1.25	23.2	4.35	5.1	0.83	25.1
40387774		2.75	0.09	0.02	651	49.6	180	1.89	3.70	2.07	1.27	21.0	3.80	4.4	0.77	23.4
40387775		2.31	0.04	0.06	776	77.0	20	2.39	7.29	3.63	2.89	26.2	8.37	7.1	1.53	34.0
40387776		1.03	0.02	0.04	449	70.0	20	5.25	7.16	3.61	2.66	27.0	8.41	5.7	1.32	29.8
40387777		1.20	0.02	0.04	513	67.0	30	3.97	6.94	3.65	2.75	25.5	8.11	6.0	1.28	28.6
40387778		0.82	0.01	0.04	370	68.3	20	6.25	6.65	3.80	2.85	26.6	8.59	6.0	1.24	29.1
40387779		1.23	0.02	0.06	378	70.2	20	4.52	7.54	3.97	2.87	26.9	8.73	6.2	1.35	30.0
40387780		1.19	0.02	0.06	379	71.6	20	4.53	7.44	3.55	2.86	27.5	8.76	5.9	1.44	30.3
40387781		1.06	0.01	0.05	562	70.2	20	4.77	7.45	3.75	2.89	25.7	8.71	6.1	1.34	29.6
40387782		1.87	0.05	0.04	385	63.1	120	4.05	8.10	4.62	2.37	25.5	8.52	6.3	1.58	27.6
40387783		2.43	0.01	0.10	995	70.9	30	2.03	7.35	3.83	2.62	25.7	8.67	6.3	1.30	29.4
40387784		1.65	0.04	0.02	405	36.7	150	0.70	3.05	1.65	1.07	16.5	3.23	4.4	0.61	16.4



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Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387750		0.25	6.2	13.1	2.88	6.8	3.04	1	267	0.5	0.54	1.00	0.26	0.28	145	<1
40387751		0.28	6.5	12.9	2.99	8.1	3.18	1	285	0.4	0.45	0.99	0.27	0.24	146	<1
40387752		0.28	7.0	13.3	2.84	8.6	3.46	1	283	0.5	0.49	1.14	0.25	0.26	146	<1
40387753		0.21	5.1	10.3	2.38	12.8	2.48	1	308	0.4	0.37	0.76	0.22	0.23	109	<1
40387754		0.27	7.2	14.6	3.11	12.8	3.65	1	315	0.5	0.53	1.16	0.31	0.28	171	<1
40387755		0.32	8.1	15.7	3.55	12.7	3.49	1	302	0.6	0.63	1.22	0.38	0.34	193	<1
40387756		0.28	8.7	17.2	3.79	13.3	4.93	1	303	0.6	0.65	1.37	0.34	0.35	192	<1
40387757		0.35	10.5	20.0	4.61	14.7	5.31	1	331	0.8	0.80	2.15	0.45	0.40	221	<1
40387758		0.31	10.0	19.3	4.54	13.0	4.90	1	298	0.6	0.75	1.61	0.37	0.44	216	<1
40387759		0.36	9.2	17.8	3.92	14.3	4.80	1	317	0.7	0.67	1.52	0.36	0.33	206	<1
40387760		0.50	13.5	37.9	8.53	96.2	8.28	2	568	0.8	1.09	4.45	0.48	1.67	130	<1
40387761		0.15	4.3	8.6	1.91	15.8	2.15	<1	354	0.4	0.31	0.74	0.20	0.21	89	<1
40387762		0.29	6.1	12.2	2.68	31.6	3.50	1	398	0.4	0.50	0.94	0.26	0.23	191	<1
40387763		0.20	5.3	10.8	2.53	66.5	2.68	1	409	0.4	0.40	0.96	0.22	0.23	133	1
40387764		0.34	9.3	21.1	5.05	57.4	5.02	1	255	0.6	0.70	4.04	0.34	2.63	209	1
40387765		0.28	7.1	19.3	4.85	91.5	3.69	1	134.5	0.6	0.46	7.01	0.28	3.15	80	1
40387766		0.30	9.9	21.0	5.09	105.0	4.42	1	97.9	0.9	0.55	8.57	0.32	4.09	119	1
40387767		0.34	9.8	24.6	6.08	95.4	4.64	1	86.3	0.8	0.55	8.47	0.30	3.46	121	1
40387768		0.35	9.6	16.7	4.09	103.5	3.18	2	88.0	0.8	0.49	8.54	0.35	3.60	116	1
40387769		0.27	9.8	24.2	6.08	105.5	4.63	1	110.0	0.8	0.55	8.72	0.36	4.71	119	1
40387770		0.24	8.0	15.6	3.59	36.8	3.70	2	430	0.6	0.59	1.45	0.30	0.38	181	<1
40387771		0.36	9.0	20.6	5.17	95.2	3.86	1	106.0	0.8	0.51	8.31	0.29	3.42	103	1
40387772		0.34	10.4	23.2	5.98	112.5	4.68	1	93.9	0.8	0.59	8.65	0.32	3.93	129	1
40387773		0.39	10.6	24.3	6.01	108.5	5.03	2	69.6	0.8	0.63	9.40	0.40	6.17	152	2
40387774		0.32	10.4	22.7	5.68	101.5	4.54	1	102.0	0.9	0.55	8.70	0.30	3.73	130	1
40387775		0.48	26.5	40.9	9.36	73.1	9.74	2	522	1.8	1.27	4.69	0.55	1.43	439	1
40387776		0.42	26.0	40.8	8.83	52.6	8.62	2	527	1.4	1.31	3.85	0.47	1.23	404	1
40387777		0.39	25.0	40.0	8.74	64.9	9.17	2	518	1.5	1.19	3.83	0.50	1.15	394	1
40387778		0.41	24.8	38.4	8.89	48.7	9.79	2	504	1.6	1.25	3.67	0.44	1.22	416	1
40387779		0.36	26.1	41.5	9.03	51.9	9.36	2	517	1.6	1.31	4.10	0.43	1.27	399	1
40387780		0.41	26.1	41.5	9.27	51.0	8.69	2	523	1.6	1.26	3.89	0.44	1.25	397	1
40387781		0.41	24.9	39.8	9.18	65.7	9.84	2	547	1.7	1.18	3.83	0.43	1.18	388	1
40387782		0.57	20.1	36.5	8.19	37.6	8.45	2	243	1.3	1.43	3.94	0.56	1.36	272	1
40387783		0.36	25.7	39.6	9.32	75.9	9.67	2	402	1.6	1.29	3.83	0.45	1.29	392	1
40387784		0.24	7.9	17.8	4.28	42.1	3.91	1	126.5	0.6	0.51	6.63	0.23	2.53	78	1



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**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387750		16.8	1.55	85	0.1	0.01	<0.005	0.017	<0.001	<0.05	0.2	<0.01	0.03	0.06	0.06	63.0
40387751		17.2	1.70	93	0.4	0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.04	0.05	0.07	56.1
40387752		17.6	1.56	90	0.2	0.01	<0.005	0.016	<0.001	<0.05	0.3	<0.01	0.06	0.05	0.06	60.7
40387753		14.3	1.29	75	0.9	0.01	<0.005	0.013	<0.001	<0.05	0.2	0.01	0.19	0.06	0.07	59.8
40387754		19.0	1.84	107	5.6	0.04	<0.005	0.016	<0.001	0.05	0.2	0.01	0.08	0.09	0.07	55.7
40387755		21.7	2.07	121	2.3	0.02	<0.005	0.016	0.001	<0.05	0.2	0.01	0.10	0.10	0.11	54.7
40387756		22.8	1.95	141	0.8	0.02	0.007	0.015	<0.001	<0.05	0.3	0.01	0.19	0.13	0.10	53.6
40387757		26.4	2.44	129	0.6	0.02	<0.005	0.019	0.001	<0.05	0.2	0.01	0.27	0.09	0.11	53.4
40387758		26.6	2.50	146	0.2	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.21	0.08	0.12	52.7
40387759		24.1	2.34	121	0.4	0.01	0.005	0.016	<0.001	<0.05	<0.2	<0.01	0.34	0.08	0.09	56.1
40387760		37.1	3.31	252	0.4	0.01	<0.005	0.031	<0.001	<0.05	<0.2	0.01	0.38	0.05	0.09	18.3
40387761		11.1	1.02	60	0.6	<0.01	<0.005	0.010	<0.001	<0.05	0.4	<0.01	0.58	0.04	0.05	56.2
40387762		17.5	1.52	87	1.5	0.04	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.79	0.10	0.10	56.1
40387763		14.9	1.47	76	4.3	0.09	0.015	0.021	0.002	0.13	0.6	0.03	2.91	0.51	0.16	55.9
40387764		23.2	2.22	137	4.8	0.13	0.008	0.043	0.005	0.15	0.9	0.09	0.74	0.52	0.31	61.3
40387765		17.0	1.86	203	2.2	0.01	0.008	0.025	<0.001	0.25	0.2	<0.01	0.14	0.03	0.05	12.6
40387766		20.0	2.26	196	2.7	0.01	<0.005	0.020	<0.001	0.28	0.2	<0.01	0.16	0.03	0.03	17.1
40387767		19.5	2.19	189	1.5	0.01	<0.005	0.016	<0.001	0.20	0.2	<0.01	0.10	0.03	<0.02	18.6
40387768		19.2	2.16	192	3.2	0.05	0.006	0.045	<0.001	0.33	0.2	0.02	0.16	0.04	0.04	16.9
40387769		20.9	2.21	200	1.5	0.04	<0.005	0.033	0.001	0.21	0.3	<0.01	0.11	0.05	0.04	17.0
40387770		20.8	1.84	120	5.2	0.14	<0.005	0.032	0.004	0.39	1.2	0.07	0.45	0.52	0.26	67.4
40387771		17.9	1.97	194	1.4	0.03	<0.005	0.015	<0.001	0.15	<0.2	0.01	0.08	0.03	0.03	16.2
40387772		20.2	2.16	188	1.5	0.04	0.005	0.024	<0.001	0.17	<0.2	0.01	0.10	0.03	0.02	19.1
40387773		23.4	2.28	186	4.6	0.07	0.006	0.031	0.002	0.31	<0.2	0.03	0.20	0.08	0.13	20.5
40387774		19.9	2.10	168	1.1	0.01	0.005	0.012	<0.001	0.19	0.2	0.01	0.05	0.04	0.02	17.0
40387775		37.8	3.15	273	1.8	0.05	0.009	0.047	<0.001	0.29	0.4	0.01	0.16	0.16	0.16	54.9
40387776		33.6	3.08	245	1.7	0.04	0.007	0.025	<0.001	0.12	0.3	0.01	0.24	0.12	0.15	53.8
40387777		32.0	3.17	232	2.1	0.04	0.005	0.024	<0.001	0.15	0.3	<0.01	0.19	0.13	0.16	55.9
40387778		33.2	2.93	239	1.7	0.04	<0.005	0.022	<0.001	0.08	0.3	<0.01	0.25	0.12	0.13	56.5
40387779		33.6	2.81	243	1.8	0.04	0.007	0.024	0.001	0.16	0.2	0.01	0.19	0.13	0.15	55.2
40387780		34.3	2.54	247	1.9	0.04	<0.005	0.025	0.001	0.16	0.6	<0.01	0.20	0.14	0.16	54.1
40387781		33.3	3.01	243	1.9	0.04	0.008	0.024	<0.001	0.21	0.2	0.01	0.21	0.14	0.15	52.7
40387782		40.8	4.12	262	1.8	0.03	0.012	0.030	0.001	0.30	0.2	0.01	0.20	0.17	0.21	49.2
40387783		33.9	3.02	242	3.3	0.05	0.008	0.044	0.001	0.39	<0.2	0.02	0.17	0.19	0.19	55.3
40387784		15.4	1.77	169	0.8	0.02	0.006	0.032	<0.001	0.14	0.2	0.01	0.05	0.03	0.02	13.2



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**CERTIFICATE OF ANALYSIS TB18213559**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40387750		128.5	9.0	0.66	422	1.6	14.8	89	0.001	0.0059	0.010
40387751		130.5	10.3	0.63	347	1.4	14.1	86	0.002	0.0062	0.013
40387752		121.5	12.8	0.71	416	1.6	13.6	87	0.002	0.0064	0.013
40387753		106.0	26.9	0.48	463	1.6	10.6	79	0.002	0.0054	0.019
40387754		151.5	16.6	0.59	295	2.2	17.9	94	0.001	0.0070	0.011
40387755		165.5	18.8	0.70	301	2.9	23.3	102	0.002	0.0065	0.011
40387756		170.5	19.4	0.69	289	3.0	20.4	103	0.003	0.0074	0.012
40387757		181.0	21.6	0.73	240	2.4	27.3	106	0.002	0.0074	0.012
40387758		179.0	15.6	0.74	246	2.3	25.9	105	0.002	0.0069	0.011
40387759		172.5	18.1	0.73	263	2.5	21.9	105	0.002	0.0072	0.012
40387760		19.2	19.5	1.09	13.9	13.4	16.9	97	<0.001	<0.0005	0.001
40387761		77.3	37.5	0.51	368	1.5	8.5	70	<0.001	0.0064	0.011
40387762		253	26.1	1.06	246	2.7	24.9	88	0.004	0.0126	0.020
40387763		345	41.8	1.13	522	1.8	13.1	77	0.005	0.0279	0.095
40387764		549	52.9	8.36	469	8.2	23.4	124	0.009	0.0349	0.035
40387765		24.1	43.6	3.33	45.5	7.5	11.3	53	<0.001	0.0008	0.001
40387766		18.9	64.6	2.98	67.0	9.2	17.9	64	<0.001	0.0012	0.001
40387767		6.7	72.5	1.77	71.8	7.9	20.0	56	<0.001	0.0011	0.001
40387768		57.7	58.6	4.19	62.1	6.6	16.3	73	<0.001	0.0011	0.001
40387769		27.1	62.7	5.55	67.4	8.4	17.9	67	<0.001	0.0011	0.002
40387770		1125	41.1	3.14	706	7.1	17.6	108	0.020	0.0368	0.221
40387771		14.0	59.2	1.65	62.0	6.5	17.0	52	<0.001	0.0008	0.001
40387772		31.9	66.2	2.11	71.2	7.6	19.1	75	<0.001	0.0012	0.002
40387773		103.0	66.4	9.34	73.0	9.4	20.9	94	<0.001	0.0016	0.002
40387774		14.3	61.9	1.79	63.0	4.7	18.6	57	<0.001	0.0011	0.001
40387775		269	32.7	1.73	64.0	7.1	27.7	166	0.002	0.0021	0.010
40387776		260	20.4	1.65	63.8	6.0	27.3	153	0.003	0.0021	0.010
40387777		262	23.4	1.71	66.3	8.0	27.9	161	0.002	0.0022	0.010
40387778		265	18.4	1.86	71.1	5.9	27.7	155	0.003	0.0022	0.010
40387779		264	21.4	1.67	66.3	8.1	28.0	159	0.002	0.0021	0.010
40387780		262	20.7	1.62	64.5	8.0	27.3	157	0.002	0.0021	0.010
40387781		243	21.2	1.63	63.5	8.1	26.3	164	0.002	0.0022	0.010
40387782		270	27.2	1.70	86.0	7.7	32.6	156	0.001	0.0037	0.003
40387783		278	35.0	1.56	72.4	7.8	27.0	159	<0.001	0.0024	0.011
40387784		23.4	31.3	1.35	41.7	6.4	12.9	43	<0.001	0.0007	0.001





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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 16-SEP-2018  
 Account: RTECIKBZ

Project: EB80000962

**CERTIFICATE OF ANALYSIS TB18213559**

<b>CERTIFICATE COMMENTS</b>													
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">C-IR07</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS42</td> <td style="width: 33%;">ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06			
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-MS24	S-IR08										
TOT-ICP06													



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Plus Appendix Pages  
Finalized Date: 15-OCT-2018  
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**CERTIFICATE TB18247632**

Project: EB80000963

P.O. No.: 3103290934

This report is for 70 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 3-OCT-2018.

The following have access to data associated with this certificate:

RACHELLE BOULANGER  
RTXAMRNA ASSAY RESULTS

SUE DRIEBERG  
ROBERT RUSH

BRIAN GOLDNER

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	

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:

Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 15-OCT-2018  
 Account: RTEICKBZ

Project: EB80000963

**CERTIFICATE OF ANALYSIS TB18247632**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd WL	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
40214262		2.04	0.03	8.58	0.7	990	2.14	0.02	4.69	0.09	66.1	18.7	28	1.16	18.4	5.28
40388405		11.00	0.13	9.16	12.1	720	1.71	0.17	0.31	0.34	53.2	22.5	165	8.00	66.8	6.18
40388406		10.32	0.13	8.91	18.9	680	1.70	0.19	0.49	0.65	53.3	21.6	159	4.98	69.9	6.09
40388407		11.14	0.13	8.71	18.6	620	1.65	0.21	0.54	0.71	56.0	24.0	153	3.90	77.8	5.86
40388408		9.71	0.14	9.22	24.4	620	1.82	0.25	0.56	0.65	54.6	25.6	168	5.11	101.5	6.47
40388409		10.54	0.16	9.00	22.1	580	1.68	0.23	0.56	0.61	57.7	25.0	154	4.80	92.2	6.46
40388410		0.17	0.46	8.92	4.7	350	0.59	0.12	6.88	0.26	22.2	62.0	1760	1.92	1130	8.08
40388411		11.37	0.15	9.01	19.4	680	1.96	0.23	0.28	0.62	48.3	23.6	159	6.29	81.9	5.83
40388412		11.49	0.17	8.51	15.0	680	1.78	0.16	0.34	0.54	57.6	20.9	146	7.04	79.2	5.42
40388413		11.27	0.21	8.89	19.0	630	1.69	0.19	0.27	0.55	55.9	22.0	156	7.27	81.9	5.77
40388414		11.82	0.14	8.88	16.6	630	1.68	0.18	0.31	0.36	52.4	21.5	162	7.85	71.7	5.74
40388415		11.01	0.16	8.79	17.6	680	1.83	0.16	0.33	0.47	55.5	22.3	158	14.05	84.8	5.99
40388416		11.88	0.13	8.72	21.2	650	1.69	0.16	0.30	0.39	55.6	24.0	165	7.35	74.1	6.03
40388417		11.71	0.12	8.78	20.9	760	1.73	0.15	0.33	0.36	51.7	22.0	174	7.90	67.6	5.84
40388418		5.30	0.11	9.04	17.1	750	1.86	0.19	0.36	0.44	46.6	21.6	173	7.33	83.3	6.00
40388425		2.17	0.04	8.94	0.6	1200	2.34	0.03	4.83	0.07	49.1	17.4	24	1.15	19.7	5.22
40388426		8.14	0.06	9.43	10.0	630	1.96	0.22	0.29	0.21	49.8	24.6	182	10.50	52.1	6.04
40388427		11.22	0.02	8.45	6.6	550	1.55	0.16	0.72	0.05	56.1	20.8	164	8.05	37.2	5.30
40388428		11.38	0.10	8.78	11.5	550	1.76	0.20	0.27	0.26	56.7	22.7	171	8.76	57.7	5.51
40388429		12.09	0.02	7.43	5.7	420	1.24	0.11	0.52	0.02	47.1	15.5	150	4.57	27.3	4.35
40388430		0.17	0.46	9.48	6.1	370	0.64	0.16	7.27	0.26	24.2	65.7	1810	1.97	1190	8.67
40388431		11.42	0.04	7.87	5.3	430	1.41	0.14	0.34	0.04	54.1	17.8	165	6.02	29.2	4.65
40388432		11.41	0.02	7.48	5.0	410	1.19	0.13	0.43	<0.02	49.9	15.8	152	4.83	23.3	4.21
40388433		11.46	0.07	8.13	10.7	460	1.42	0.18	0.84	0.14	56.1	17.9	154	6.48	39.7	4.83
40388434		11.18	0.16	9.55	21.6	640	1.88	0.29	0.54	0.65	53.5	25.2	173	11.10	99.3	6.44
40388435		11.50	0.11	9.24	16.1	600	1.78	0.26	0.36	0.48	46.5	23.6	182	10.80	78.1	6.07
40388436		11.42	0.05	9.16	8.1	580	1.76	0.23	0.39	0.18	48.7	23.6	185	10.50	50.8	5.92
40388437		11.19	0.05	8.90	5.2	530	1.56	0.19	0.77	0.08	59.7	20.7	172	9.29	43.1	5.47
40388438		11.45	0.03	7.92	5.8	430	1.40	0.16	0.46	0.06	57.1	18.1	154	6.84	35.0	4.79
40388439		5.07	0.03	8.03	5.1	420	1.36	0.16	0.63	0.05	55.7	18.3	151	6.45	31.7	4.93
40388440		5.02	0.02	7.67	4.9	400	1.32	0.15	0.52	0.07	53.4	17.9	148	6.28	32.2	4.73
40388441		11.50	0.07	8.77	10.4	550	1.73	0.22	0.27	0.17	48.4	22.8	165	10.10	58.5	5.64
40388442		11.78	0.03	8.26	10.4	470	1.47	0.20	0.65	0.13	58.0	18.8	157	8.49	38.4	5.11
40388443		11.61	0.32	8.95	37.4	570	1.83	0.32	0.25	1.41	55.9	25.5	163	10.80	182.5	6.14
40388444		11.37	0.04	7.51	11.8	390	1.31	0.16	0.98	0.20	55.4	17.3	147	6.35	33.4	4.45
40388445		11.60	0.05	7.76	7.7	430	1.44	0.18	1.13	0.09	58.6	18.4	148	7.85	38.1	4.63
40388446		11.60	0.14	8.53	14.6	500	1.55	0.23	0.65	0.47	61.4	20.4	163	9.53	85.7	5.19
40388447		11.53	0.03	7.90	5.7	460	1.55	0.19	0.36	0.06	58.4	17.5	148	7.74	32.2	4.65
40388448		11.55	0.04	8.03	5.3	440	1.52	0.18	0.36	0.04	58.3	18.4	155	7.73	34.1	4.65
40388449		12.00	0.03	7.34	6.1	410	1.40	0.16	0.58	0.03	52.5	17.0	137	6.39	32.5	4.43



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 Plus Appendix Pages  
 Finalized Date: 15-OCT-2018  
 Account: RTEICKBZ

Project: EB80000963

**CERTIFICATE OF ANALYSIS TB18247632**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
40214262		23.0	0.13	2.8	0.077	1.97	25.6	17.9	1.51	927	1.06	2.68	13.2	14.7	1710	11.0
40388405		22.3	0.13	3.8	0.072	3.54	25.1	108.0	1.64	454	5.62	1.11	9.9	90.5	510	18.0
40388406		22.7	0.12	3.8	0.073	3.12	25.1	82.8	1.82	459	6.66	1.29	10.4	89.9	520	16.0
40388407		22.8	0.12	3.7	0.065	2.81	26.8	67.5	1.68	301	8.30	1.21	10.2	90.5	490	17.2
40388408		24.0	0.13	3.9	0.074	3.21	24.1	76.7	1.80	272	14.20	1.35	10.9	103.5	530	21.3
40388409		23.0	0.16	3.7	0.069	2.74	27.4	71.0	1.74	256	10.15	1.26	10.0	92.8	500	22.6
40388410		18.90	0.09	2.5	0.059	0.82	9.6	34.7	4.37	1100	2.77	1.49	7.3	702	710	6.5
40388411		23.4	0.12	3.8	0.067	3.26	22.8	104.5	1.72	284	6.69	0.93	10.5	89.9	500	20.1
40388412		22.2	0.12	3.9	0.062	3.00	27.9	108.0	1.59	355	6.59	1.24	9.7	82.8	490	22.1
40388413		22.7	0.13	3.6	0.070	3.14	26.6	118.5	1.67	275	6.86	1.04	10.2	88.8	500	19.8
40388414		22.4	0.13	3.8	0.068	2.99	25.4	108.5	1.70	335	5.30	1.08	10.0	86.8	520	19.5
40388415		22.2	0.13	3.7	0.075	3.64	26.9	130.0	1.58	378	6.44	1.04	9.7	88.8	480	20.7
40388416		22.5	0.14	3.9	0.068	3.24	26.6	88.9	1.67	395	11.15	1.20	9.2	92.5	520	20.1
40388417		22.0	0.14	3.9	0.069	3.32	24.6	92.9	1.69	482	6.41	1.24	9.9	92.5	530	16.8
40388418		22.5	0.13	3.9	0.068	3.72	20.9	106.5	1.87	451	7.27	1.08	10.7	93.9	520	20.5
40388425		23.0	0.14	3.4	0.075	2.08	18.7	19.0	1.45	971	0.89	2.84	14.3	13.3	1470	12.0
40388426		24.4	0.14	4.1	0.072	3.09	22.9	80.7	1.77	260	1.99	1.20	11.5	90.7	580	14.4
40388427		20.5	0.10	4.2	0.060	2.49	26.4	69.0	1.46	306	0.76	1.60	10.2	74.7	570	13.8
40388428		21.5	0.12	4.2	0.069	2.62	26.8	73.1	1.50	281	4.31	1.48	10.3	79.1	540	15.1
40388429		16.20	0.11	4.6	0.045	1.71	22.2	57.0	1.13	259	0.83	2.09	8.5	55.8	550	6.4
40388430		20.2	0.10	2.6	0.064	0.86	10.3	37.1	4.66	1170	2.94	1.60	7.7	755	770	6.5
40388431		17.65	0.13	4.9	0.051	1.93	26.0	60.6	1.20	246	0.58	1.96	9.4	63.6	610	9.7
40388432		15.85	0.09	4.9	0.043	1.71	23.9	54.4	1.10	254	0.56	2.14	8.5	56.2	570	6.3
40388433		18.15	0.11	4.3	0.051	2.16	27.6	66.1	1.31	339	2.83	1.84	9.0	63.5	520	13.5
40388434		24.6	0.12	3.9	0.073	3.34	24.7	93.8	1.84	335	10.25	1.08	11.0	90.9	510	24.5
40388435		23.8	0.14	4.0	0.070	3.15	20.9	89.6	1.75	299	6.77	1.14	11.0	88.2	540	19.6
40388436		23.6	0.12	4.2	0.065	3.01	21.3	89.3	1.67	293	1.79	1.25	11.6	88.5	580	15.4
40388437		21.1	0.12	4.2	0.062	2.74	29.6	78.9	1.54	317	0.85	1.39	10.7	79.2	570	13.8
40388438		18.50	0.11	4.3	0.054	2.06	28.1	70.0	1.26	248	1.02	1.66	9.4	65.4	540	14.6
40388439		18.25	0.12	4.2	0.053	2.02	27.0	70.0	1.27	280	0.55	1.85	9.2	65.5	560	12.0
40388440		17.50	0.11	4.1	0.056	1.90	25.5	67.2	1.22	259	0.51	1.80	8.8	63.1	530	11.6
40388441		22.4	0.11	4.0	0.072	2.84	22.4	85.2	1.55	261	3.57	1.21	10.6	79.4	520	16.2
40388442		19.95	0.12	4.0	0.056	2.37	27.5	77.6	1.40	299	1.00	1.50	9.8	70.9	580	12.9
40388443		22.5	0.13	3.9	0.074	3.04	26.2	88.6	1.60	275	23.5	1.06	10.3	95.5	470	36.3
40388444		17.20	0.11	4.6	0.049	1.93	27.2	64.3	1.20	315	1.95	1.70	8.7	58.6	500	14.5
40388445		19.05	0.12	4.1	0.055	2.19	28.2	66.1	1.24	314	1.46	1.51	9.5	66.4	500	13.4
40388446		21.1	0.13	4.1	0.061	2.60	30.2	75.9	1.46	297	8.61	1.37	10.1	77.9	500	22.3
40388447		19.45	0.12	4.1	0.061	2.32	26.9	63.9	1.25	236	0.93	1.50	9.3	66.2	490	12.2
40388448		20.0	0.12	4.5	0.058	2.30	27.1	67.4	1.24	224	0.78	1.58	9.6	66.6	530	12.2
40388449		18.10	0.12	4.3	0.059	1.97	23.7	68.2	1.12	247	0.94	1.68	8.8	58.9	470	13.2



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Project: EB80000963

**CERTIFICATE OF ANALYSIS TB18247632**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
40214262		73.1	<0.002	0.11	0.06	18.8	1	1.9	541	0.64	<0.05	3.86	0.613	0.43	1.3	125
40388405		171.5	0.004	1.25	1.13	21.8	<1	1.7	139.0	0.70	<0.05	7.05	0.464	1.56	5.8	160
40388406		143.5	0.003	0.93	0.96	21.6	1	2.0	111.5	0.72	<0.05	7.48	0.455	1.36	5.6	160
40388407		120.5	0.004	0.95	0.94	21.5	1	1.8	82.6	0.71	<0.05	7.52	0.443	1.39	6.5	159
40388408		129.0	0.006	1.28	1.08	22.6	1	1.8	91.3	0.78	0.05	7.36	0.483	1.79	7.4	180
40388409		125.0	0.004	1.49	1.00	22.4	1	1.7	81.1	0.71	<0.05	7.80	0.446	1.45	7.3	164
40388410		14.8	0.002	0.34	0.48	16.5	1	1.6	426	0.45	0.05	0.94	0.757	0.50	0.3	175
40388411		130.0	0.004	0.81	1.04	22.8	1	1.7	108.5	0.74	<0.05	6.74	0.471	1.34	5.9	167
40388412		155.0	0.003	0.81	1.40	20.7	1	1.7	129.5	0.69	<0.05	7.83	0.411	1.37	6.1	149
40388413		153.5	0.005	0.99	1.42	21.6	1	1.8	115.0	0.73	<0.05	7.41	0.442	1.35	6.4	163
40388414		141.5	0.003	0.90	1.23	21.4	<1	1.8	111.5	0.72	<0.05	7.30	0.451	1.27	5.8	159
40388415		215	0.005	1.37	1.40	21.0	<1	1.7	135.5	0.70	<0.05	7.33	0.433	2.00	6.5	159
40388416		170.0	0.003	1.26	1.20	21.8	1	1.7	114.5	0.65	<0.05	7.53	0.414	1.70	6.2	152
40388417		167.5	0.002	1.09	1.51	20.8	1	1.7	126.0	0.70	<0.05	7.08	0.452	1.86	5.6	156
40388418		158.5	0.005	0.96	1.12	22.3	1	1.8	107.0	0.77	<0.05	7.00	0.479	1.62	5.9	170
40388425		57.7	<0.002	0.12	0.06	15.3	<1	2.2	592	0.75	<0.05	2.80	0.619	0.47	1.7	129
40388426		135.0	<0.002	0.54	1.30	24.2	1	1.9	81.8	0.78	<0.05	6.84	0.520	1.07	4.2	163
40388427		121.5	<0.002	0.17	1.07	20.3	<1	1.6	103.0	0.72	<0.05	7.23	0.462	0.77	3.3	133
40388428		133.0	0.002	0.51	1.77	21.6	1	1.8	91.7	0.72	<0.05	7.59	0.467	1.16	4.5	143
40388429		88.8	<0.002	0.02	0.62	14.8	<1	1.2	122.0	0.60	<0.05	7.30	0.392	0.50	2.8	102
40388430		14.6	0.002	0.36	0.57	16.9	2	1.8	456	0.49	<0.05	1.01	0.796	0.54	0.3	187
40388431		99.3	<0.002	0.02	0.68	16.4	<1	1.4	105.0	0.65	<0.05	7.54	0.421	0.58	3.1	111
40388432		87.8	<0.002	0.02	0.61	14.5	1	1.3	108.0	0.61	<0.05	7.18	0.390	0.48	2.9	100
40388433		114.0	<0.002	0.35	1.40	16.9	1	1.4	103.0	0.61	<0.05	7.78	0.414	0.88	3.7	120
40388434		150.0	0.003	1.28	3.37	24.1	1	2.0	71.7	0.77	<0.05	7.40	0.494	2.30	6.9	177
40388435		129.5	0.002	0.67	2.25	23.1	1	1.9	72.1	0.76	<0.05	6.55	0.505	1.61	5.5	169
40388436		126.5	<0.002	0.26	1.48	23.1	<1	1.9	79.7	0.81	<0.05	6.66	0.522	1.02	3.9	159
40388437		138.5	<0.002	0.17	1.19	21.6	1	1.6	87.8	0.77	<0.05	7.54	0.494	0.83	3.5	143
40388438		113.0	<0.002	0.07	0.84	17.2	1	1.4	91.7	0.67	<0.05	7.56	0.422	0.62	3.1	116
40388439		107.5	<0.002	0.03	0.65	16.5	<1	1.5	104.5	0.63	<0.05	7.28	0.421	0.54	2.9	114
40388440		101.5	<0.002	0.03	0.64	15.9	<1	1.4	100.0	0.61	<0.05	6.94	0.396	0.54	2.8	106
40388441		130.5	<0.002	0.48	2.08	21.7	1	1.8	73.6	0.75	<0.05	6.49	0.470	1.10	4.2	147
40388442		126.0	<0.002	0.11	0.96	19.0	<1	1.6	94.4	0.67	<0.05	7.55	0.438	0.78	3.3	127
40388443		149.5	0.005	1.68	4.97	22.5	1	1.8	68.4	0.72	0.07	7.57	0.445	2.41	10.0	170
40388444		105.0	<0.002	0.07	1.02	15.8	1	1.4	103.0	0.60	<0.05	7.40	0.385	0.63	3.3	105
40388445		119.0	<0.002	0.07	1.02	17.9	<1	1.4	102.0	0.66	<0.05	7.50	0.402	0.61	3.2	112
40388446		144.5	0.002	0.29	2.41	19.8	1	1.7	90.1	0.70	<0.05	8.12	0.432	0.99	5.6	139
40388447		129.0	<0.002	0.02	1.07	17.9	1	1.4	91.1	0.61	0.05	7.41	0.429	0.60	3.0	112
40388448		128.5	<0.002	0.03	1.04	18.1	<1	1.5	89.3	0.64	<0.05	7.86	0.443	0.65	3.2	114
40388449		112.5	<0.002	0.02	1.00	16.1	1	1.4	100.0	0.56	<0.05	7.40	0.395	0.51	2.9	97





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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		W	Y	Zn	Zr	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5	0.001	0.0005	0.001
40214262		0.2	35.8	102	103.5	0.002	<0.0005	0.001
40388405		1.2	18.9	203	130.0	0.003	0.0014	0.002
40388406		1.3	22.1	225	132.5	0.002	0.0014	0.002
40388407		1.2	22.8	229	129.0	0.002	0.0014	0.002
40388408		1.4	24.2	268	134.5	0.001	0.0015	0.002
40388409		1.2	25.2	234	128.5	0.002	0.0016	0.002
40388410		0.2	16.0	115	94.8	0.021	0.0425	0.211
40388411		1.2	19.8	228	128.0	0.002	0.0014	0.002
40388412		1.2	21.9	193	134.0	0.003	0.0014	0.002
40388413		1.3	21.0	213	126.0	0.003	0.0015	0.002
40388414		1.2	20.8	190	130.5	0.003	0.0013	0.002
40388415		1.3	20.7	214	128.0	0.003	0.0015	0.002
40388416		1.0	21.5	193	136.5	0.002	0.0014	0.002
40388417		1.1	19.3	196	135.5	0.003	0.0014	0.002
40388418		1.4	20.1	216	137.0	0.003	0.0015	0.002
40388425		0.2	29.4	103	121.5	0.002	<0.0005	0.001
40388426		1.3	21.1	164	143.0	0.003	0.0012	0.002
40388427		1.1	20.8	116	148.5	0.003	0.0012	0.001
40388428		1.2	20.6	160	149.5	0.004	0.0012	0.002
40388429		0.9	17.5	61	164.5	0.002	0.0009	0.001
40388430		0.3	16.6	123	97.1	0.021	0.0403	0.231
40388431		1.0	18.7	103	175.0	0.003	0.0010	0.001
40388432		0.9	17.5	71	176.5	0.002	0.0010	0.001
40388433		1.0	19.5	122	154.5	0.003	0.0010	0.001
40388434		1.4	22.2	229	135.0	0.006	0.0015	0.002
40388435		1.3	20.3	196	141.0	0.004	0.0013	0.002
40388436		1.3	20.1	147	148.5	0.004	0.0012	0.002
40388437		1.2	20.7	117	145.5	0.003	0.0012	0.002
40388438		1.0	18.6	110	148.0	0.003	0.0010	0.001
40388439		1.0	18.5	103	146.5	0.003	0.0010	0.001
40388440		1.0	17.7	111	146.0	0.003	0.0009	0.001
40388441		1.3	19.4	137	137.5	0.004	0.0013	0.002
40388442		1.1	19.9	121	142.5	0.003	0.0012	0.002
40388443		1.4	22.2	240	135.0	0.008	0.0024	0.003
40388444		1.0	17.9	109	161.5	0.003	0.0014	0.001
40388445		1.1	20.3	102	145.0	0.003	0.0011	0.001
40388446		1.1	21.8	147	148.5	0.006	0.0014	0.002
40388447		1.2	18.4	88	147.5	0.003	0.0010	0.001
40388448		1.3	18.7	106	157.5	0.003	0.0010	0.001
40388449		1.1	17.1	87	160.5	0.003	0.0009	0.001



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**CERTIFICATE OF ANALYSIS TB18247632**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd WL kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
40388450		2.16	0.03	8.78	0.9	860	2.47	0.04	4.33	0.08	62.0	15.6	18	1.19	18.2	4.68
40388451		11.60	0.08	8.47	9.1	490	1.74	0.23	0.30	0.16	58.5	19.8	158	9.80	60.5	5.01
40388452		10.83	0.06	7.27	8.6	410	1.35	0.18	0.37	0.14	53.4	15.9	140	6.46	47.0	4.31
40388453		11.00	0.04	7.94	6.3	450	1.62	0.19	0.47	0.05	59.1	17.9	155	7.82	34.3	4.74
40388454		11.74	0.05	7.95	6.2	450	1.48	0.19	0.39	0.07	59.3	17.7	151	7.90	37.6	4.81
40388455		11.60	0.11	8.91	10.9	540	1.93	0.24	0.25	0.31	62.6	20.9	160	10.90	79.2	5.28
40388456		11.81	0.06	8.06	6.4	470	1.64	0.18	0.40	0.05	58.2	17.5	151	7.76	38.7	4.65
40388457		11.35	0.05	8.59	6.0	520	1.84	0.21	0.50	0.06	64.0	20.1	156	8.67	44.8	5.03
40388458		11.75	0.07	8.84	7.7	540	1.91	0.24	0.30	0.11	58.8	20.6	161	8.55	53.0	5.20
40388459		11.84	0.05	8.62	7.9	500	1.73	0.19	0.29	0.05	63.3	19.9	162	6.33	42.2	4.83
40388460		0.17	0.47	9.45	4.2	340	0.70	0.14	6.63	0.27	25.3	64.0	1720	2.38	1115	8.20
40388461		11.46	0.14	7.97	13.8	450	1.52	0.20	0.31	0.32	64.8	18.7	152	4.25	76.7	4.77
40388462		11.41	0.21	8.61	17.0	550	1.78	0.23	0.26	0.66	59.3	19.9	154	5.01	124.5	4.99
40388463		11.30	0.03	6.77	5.0	370	1.25	0.09	0.79	0.03	49.2	13.8	130	1.90	20.8	4.04
40388464		11.60	0.06	8.00	8.0	490	1.65	0.16	0.36	0.09	58.0	18.6	143	3.37	40.8	4.78
40388465		11.40	0.21	8.85	18.3	630	2.04	0.23	0.31	0.60	64.5	21.5	152	4.86	126.5	5.32
40388466		11.28	0.16	8.74	15.3	640	1.86	0.15	0.38	0.40	58.8	20.0	155	3.80	97.8	5.17
40388467		11.38	0.04	7.94	14.6	650	1.63	0.06	0.42	0.03	52.4	16.4	145	2.35	29.0	4.46
40388468		11.85	0.04	7.74	7.8	480	1.34	0.05	0.57	0.06	49.6	15.2	140	2.02	27.5	4.47
40388469		4.97	0.17	8.69	25.7	550	1.76	0.12	0.49	0.33	57.2	20.4	157	2.97	116.0	5.22
40388470		5.25	0.14	8.71	22.7	560	1.60	0.10	0.48	0.22	58.3	19.6	158	2.99	94.3	5.16
40388471		10.99	0.08	7.24	13.9	480	1.42	0.08	0.55	0.12	56.1	14.2	139	1.71	54.0	4.21
40388472		11.35	0.19	8.40	17.6	590	1.62	0.18	0.74	0.35	60.2	21.1	160	2.91	105.0	5.38
40388473		10.98	0.07	8.11	10.8	520	1.67	0.11	0.53	0.10	60.0	17.7	148	2.92	48.8	4.78
40388474		11.57	0.10	7.21	7.0	430	1.27	0.09	1.56	0.05	58.6	20.4	108	1.63	89.4	5.62
40388475		12.11	0.05	6.91	6.3	400	1.29	0.10	0.66	0.05	54.5	13.5	124	2.50	36.4	4.03
40388476		11.63	0.14	8.28	18.3	560	1.87	0.29	0.67	0.07	67.1	18.3	141	4.13	92.5	4.81
40388477		11.86	0.05	7.68	8.3	480	1.47	0.13	0.52	0.04	58.4	15.6	140	2.92	33.5	4.46
40388478		12.01	0.06	7.72	6.6	450	1.54	0.14	0.75	0.11	59.0	15.6	145	3.96	35.6	4.53
40388479		11.42	0.17	8.57	15.3	520	1.82	0.25	0.38	0.47	64.9	19.3	155	6.08	76.4	5.27

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



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**CERTIFICATE OF ANALYSIS TB18247632**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5
40388450		23.1	0.16	3.2	0.072	1.99	24.5	20.1	1.32	792	1.01	2.81	12.8	13.2	1200	12.2
40388451		21.9	0.13	4.3	0.070	2.61	28.6	75.6	1.37	229	3.87	1.39	10.1	74.1	480	16.2
40388452		17.90	0.11	3.9	0.055	2.04	25.7	64.8	1.13	245	3.51	1.59	8.3	59.7	450	15.5
40388453		20.2	0.11	4.3	0.063	2.34	29.0	69.6	1.24	251	0.68	1.57	9.6	67.7	500	11.7
40388454		19.80	0.11	4.3	0.057	2.27	28.8	71.1	1.27	241	1.07	1.55	9.3	66.7	510	13.6
40388455		23.9	0.12	3.9	0.075	2.94	30.7	77.0	1.49	236	5.44	1.17	10.5	81.0	470	18.6
40388456		20.2	0.13	4.4	0.067	2.31	28.7	68.9	1.25	230	1.43	1.60	9.6	66.2	500	12.1
40388457		23.0	0.14	4.2	0.065	2.60	31.4	78.1	1.40	228	0.97	1.43	10.6	75.1	500	13.5
40388458		24.0	0.11	4.3	0.070	2.77	28.3	93.1	1.46	214	3.09	1.26	10.8	78.5	470	12.1
40388459		23.1	0.12	4.4	0.067	2.66	31.0	92.5	1.34	206	1.25	1.39	10.6	73.4	460	11.2
40388460		20.8	0.10	2.7	0.072	0.86	11.3	38.3	4.42	1080	2.93	1.54	7.4	703	720	6.5
40388461		20.9	0.12	4.2	0.061	2.24	32.3	85.4	1.30	217	7.60	1.60	9.2	71.1	480	17.2
40388462		22.4	0.13	4.1	0.066	2.80	29.0	92.1	1.44	192	13.45	1.29	9.9	81.0	500	21.6
40388463		15.55	0.09	4.3	0.048	1.70	22.0	62.4	1.06	232	1.05	1.93	7.5	48.5	450	9.2
40388464		20.9	0.11	4.2	0.060	2.47	28.0	82.6	1.29	192	1.30	1.53	9.4	66.4	500	14.9
40388465		24.2	0.12	4.0	0.072	3.36	31.6	101.5	1.57	213	12.80	0.99	10.4	85.8	480	20.9
40388466		24.0	0.14	4.4	0.066	3.31	28.2	91.1	1.53	221	7.78	1.22	10.6	79.9	590	18.6
40388467		19.35	0.11	4.3	0.044	3.01	23.9	69.5	1.25	253	2.75	1.55	9.1	62.6	500	10.5
40388468		18.55	0.12	4.0	0.055	2.42	21.9	70.7	1.19	250	1.03	1.80	8.3	58.0	490	11.6
40388469		23.2	0.14	4.2	0.068	2.69	25.4	87.9	1.47	250	12.00	1.59	10.3	84.5	520	18.3
40388470		23.3	0.12	4.2	0.065	2.74	26.4	86.2	1.48	243	10.25	1.56	10.3	81.4	520	15.1
40388471		17.35	0.13	4.3	0.049	2.03	27.1	61.7	1.10	257	5.02	2.00	8.3	57.6	480	12.3
40388472		21.1	0.12	4.2	0.072	2.94	28.1	73.5	1.35	270	11.10	1.54	9.4	81.3	510	20.6
40388473		21.0	0.13	4.1	0.061	2.55	27.4	74.5	1.28	211	3.07	1.55	9.4	70.3	490	12.7
40388474		19.10	0.13	4.7	0.077	1.33	26.1	58.8	1.40	609	1.77	2.48	11.5	56.2	780	10.5
40388475		16.35	0.10	4.0	0.052	1.74	25.4	59.4	1.05	241	2.22	1.85	7.5	51.1	440	15.1
40388476		21.6	0.12	4.6	0.061	2.48	32.8	70.0	1.33	215	8.90	1.55	9.6	76.4	480	14.8
40388477		19.35	0.12	4.0	0.051	2.02	28.5	67.3	1.18	212	1.86	1.76	8.8	62.4	500	10.6
40388478		19.15	0.11	4.4	0.065	2.03	29.0	65.6	1.18	272	1.63	1.80	8.9	61.8	490	10.4
40388479		21.6	0.13	4.2	0.064	2.48	31.9	74.4	1.36	228	5.50	1.57	9.6	77.8	510	17.1



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 Account: RTEICKBZ

Project: EB80000963

**CERTIFICATE OF ANALYSIS TB18247632**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
40388450		80.5	<0.002	0.10	0.18	16.3	1	1.9	514	0.66	<0.05	5.26	0.520	0.44	2.6	108
40388451		147.5	0.004	0.15	1.77	20.2	1	1.7	85.9	0.67	<0.05	8.20	0.455	0.83	4.2	126
40388452		113.0	<0.002	0.13	1.53	15.8	<1	1.3	94.9	0.55	<0.05	7.04	0.386	0.63	3.6	102
40388453		129.0	<0.002	0.03	0.95	18.3	<1	1.5	95.9	0.60	<0.05	7.72	0.436	0.62	3.0	112
40388454		128.0	<0.002	0.04	0.98	18.1	<1	1.5	95.6	0.63	<0.05	7.86	0.428	0.61	3.2	112
40388455		165.0	<0.002	0.24	2.25	22.4	1	1.8	75.1	0.69	0.06	8.26	0.479	0.94	5.0	143
40388456		129.0	<0.002	0.07	0.96	18.3	1	1.5	95.4	0.64	<0.05	7.84	0.443	0.65	3.3	117
40388457		145.5	<0.002	0.06	0.82	21.1	1	1.7	92.9	0.70	<0.05	8.41	0.480	0.71	3.5	130
40388458		151.5	0.002	0.15	0.98	22.3	<1	1.8	88.8	0.72	<0.05	8.17	0.490	0.75	4.3	142
40388459		147.0	<0.002	0.03	0.75	21.1	<1	1.7	86.5	0.69	0.06	8.27	0.478	0.66	3.6	131
40388460		23.6	0.004	0.34	0.59	18.7	1	1.7	420	0.45	0.08	1.27	0.797	0.51	0.3	174
40388461		122.5	0.005	0.14	1.24	18.2	1	1.6	96.9	0.61	<0.05	8.15	0.411	0.70	5.1	123
40388462		136.0	0.002	0.30	1.47	20.6	1	1.7	81.4	0.66	<0.05	7.86	0.448	0.90	6.6	146
40388463		80.2	<0.002	0.02	0.67	13.1	<1	1.2	104.0	0.54	<0.05	6.91	0.351	0.42	2.8	87
40388464		117.5	0.002	0.03	0.91	18.3	<1	1.5	98.6	0.62	<0.05	7.88	0.420	0.66	3.2	113
40388465		152.5	0.002	0.38	1.51	22.2	1	1.9	94.5	0.71	<0.05	8.50	0.457	1.11	6.7	152
40388466		138.5	0.002	0.25	1.19	21.5	1	1.8	106.5	0.72	0.05	8.53	0.464	0.96	5.6	142
40388467		127.5	<0.002	0.03	1.05	16.8	1	1.5	153.5	0.61	<0.05	8.25	0.419	0.81	3.7	112
40388468		118.0	0.002	0.02	0.69	15.7	1	1.3	129.5	0.57	<0.05	7.72	0.387	0.67	3.2	106
40388469		127.0	0.004	0.29	1.63	21.0	<1	1.7	108.0	0.71	0.08	8.52	0.457	0.84	6.3	147
40388470		124.5	0.003	0.23	1.35	21.5	1	1.7	102.5	0.70	<0.05	8.93	0.465	0.79	6.0	150
40388471		97.7	<0.002	0.16	0.96	15.1	1	1.4	140.0	0.55	<0.05	7.44	0.373	0.60	4.1	102
40388472		140.5	0.005	0.75	1.21	19.6	1	1.8	129.5	0.64	0.07	8.43	0.427	0.99	6.7	139
40388473		123.0	<0.002	0.22	0.90	18.7	<1	1.7	123.5	0.59	<0.05	8.18	0.422	0.78	3.9	119
40388474		58.7	<0.002	0.18	0.95	17.0	1	1.6	174.0	0.76	<0.05	6.62	0.764	0.35	2.8	164
40388475		84.0	<0.002	0.08	0.74	13.7	<1	1.3	95.8	0.51	<0.05	7.01	0.342	0.42	3.1	93
40388476		128.0	0.003	0.37	1.28	19.3	1	1.8	104.5	0.63	0.05	8.77	0.426	0.71	6.4	134
40388477		110.0	0.002	0.08	0.82	16.6	<1	1.5	116.5	0.59	<0.05	7.75	0.400	0.53	3.4	108
40388478		115.5	<0.002	0.13	0.74	16.5	<1	1.5	121.5	0.59	<0.05	7.69	0.406	0.59	3.4	108
40388479		143.5	<0.002	0.58	1.14	19.3	1	1.6	107.0	0.63	<0.05	8.45	0.442	0.86	5.4	137



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Project: EB80000963

**CERTIFICATE OF ANALYSIS TB18247632**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		W	Y	Zn	Zr	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5	0.001	0.0005	0.001
40388450		0.2	32.6	86	117.0	0.001	0.0011	0.001
40388451		1.3	20.5	113	150.5	0.003	0.0012	0.002
40388452		1.0	16.7	98	146.5	0.003	0.0010	0.001
40388453		1.1	18.4	96	153.5	0.003	0.0010	0.001
40388454		1.1	18.8	105	149.5	0.003	0.0011	0.001
40388455		1.3	22.7	146	142.0	0.006	0.0015	0.002
40388456		1.0	18.8	97	156.0	0.002	0.0012	0.001
40388457		1.2	21.6	110	151.5	0.002	0.0012	0.001
40388458		1.3	21.0	107	152.5	0.002	0.0013	0.002
40388459		1.3	19.6	90	157.0	0.002	0.0012	0.002
40388460		0.3	18.0	110	100.0	0.025	0.0423	0.218
40388461		1.2	20.1	113	152.5	0.002	0.0013	0.002
40388462		1.3	21.8	159	143.5	0.002	0.0017	0.002
40388463		0.9	15.8	59	155.0	0.002	0.0008	0.001
40388464		1.2	19.4	101	148.5	0.001	0.0010	0.001
40388465		1.4	23.5	154	143.5	0.002	0.0015	0.002
40388466		1.4	23.2	129	150.0	0.001	0.0017	0.002
40388467		1.1	18.7	67	149.5	0.001	0.0011	0.001
40388468		1.3	17.5	82	146.5	0.001	0.0011	0.001
40388469		1.4	24.0	134	146.5	0.001	0.0020	0.003
40388470		1.4	23.7	116	145.5	0.001	0.0020	0.003
40388471		1.0	18.2	77	153.5	0.001	0.0012	0.002
40388472		1.2	22.3	127	145.0	0.002	0.0018	0.002
40388473		1.1	20.2	80	153.5	0.001	0.0013	0.002
40388474		1.0	20.6	69	171.5	0.001	0.0012	0.003
40388475		1.0	16.6	66	142.0	0.001	0.0010	0.001
40388476		1.2	22.3	68	142.0	0.001	0.0016	0.002
40388477		1.1	18.6	68	145.0	0.001	0.0011	0.001
40388478		1.1	18.8	93	152.0	0.002	0.0010	0.001
40388479		1.2	21.4	159	151.0	0.002	0.0013	0.002





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Project: EB80000963

**CERTIFICATE OF ANALYSIS TB18247632**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REE's may not be totally soluble in this method.  
ME-MS61

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-32 PUL-QC SPL-22 SPL-22X  
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
ME-MS61 PGM-MS24



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**CERTIFICATE TB18253991**

Project: EB80000964  
 P.O. No.: 3103290934  
 This report is for 122 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 10-OCT-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386900		2.27	58.3	18.25	7.08	6.04	2.47	4.02	2.50	0.004	0.95	0.11	0.31	0.07	0.11	100.54
40386901		10.03	66.9	14.45	6.51	1.73	2.14	2.49	2.58	0.025	0.67	0.05	0.09	0.02	0.05	101.50
40386902		2.78	49.5	13.10	16.20	6.74	3.55	2.66	1.31	0.003	3.56	0.19	0.51	0.06	0.06	100.84
40386903		10.43	66.4	15.45	7.11	0.89	2.34	2.23	2.92	0.025	0.71	0.04	0.09	0.01	0.06	101.89
40386904		3.18	60.9	17.90	8.22	0.73	2.85	1.78	3.74	0.028	0.91	0.04	0.12	0.01	0.08	100.89
40386905		4.14	55.5	13.65	11.90	4.42	2.96	3.58	1.92	<0.002	2.30	0.12	0.62	0.05	0.11	100.91
40386906		4.94	65.1	16.05	7.62	0.58	2.53	2.15	3.00	0.027	0.80	0.04	0.11	0.01	0.06	101.06
40386907		9.46	70.5	13.50	5.69	1.13	2.01	2.58	3.02	0.025	0.60	0.04	0.10	0.02	0.05	101.75
40386908		2.39	48.7	13.05	16.90	7.31	4.18	2.91	0.84	0.005	3.63	0.20	0.40	0.05	0.03	100.21
40386909		6.41	50.5	13.45	16.40	7.49	3.87	3.22	1.18	0.004	3.56	0.19	0.42	0.06	0.05	101.64
40386910		0.17	45.2	18.85	12.40	9.62	7.79	2.21	1.06	0.360	1.36	0.15	0.14	0.05	0.04	101.31
40386911		6.75	49.6	12.55	17.15	7.66	4.01	3.07	1.07	0.002	3.84	0.20	0.42	0.06	0.05	100.90
40386912		6.66	48.8	13.60	16.25	7.51	4.31	3.10	0.96	0.008	3.32	0.19	0.38	0.07	0.03	99.92
40386913		6.77	48.1	13.15	16.90	7.39	4.27	2.99	1.08	0.006	3.55	0.19	0.39	0.07	0.04	99.52
40386914		6.64	48.0	12.80	17.25	7.56	4.28	2.96	0.97	0.005	3.72	0.20	0.40	0.06	0.03	99.56
40386915		6.91	47.7	12.65	17.25	7.55	4.29	2.88	0.94	0.006	3.68	0.20	0.39	0.06	0.03	99.22
40386916		6.18	49.7	16.65	11.55	6.25	5.88	2.09	2.42	0.026	1.68	0.13	0.16	0.06	0.07	100.14
40386917		6.06	45.2	17.95	11.55	8.84	7.09	2.32	1.22	0.024	1.55	0.15	0.15	0.06	0.04	98.81
40386918		5.77	46.0	18.25	12.15	9.88	6.43	2.63	0.76	0.026	1.74	0.15	0.19	0.04	0.02	99.52
40386919		2.86	45.6	16.10	13.50	9.25	6.57	2.70	0.74	0.026	2.08	0.18	0.24	0.03	0.03	98.03
40386920		2.90	45.7	16.20	13.55	9.32	6.54	2.70	0.71	0.028	2.07	0.18	0.23	0.03	0.03	98.07
40386921		6.16	46.5	16.15	14.30	9.50	7.02	2.70	0.65	0.028	2.21	0.19	0.24	0.03	0.03	100.67
40386922		6.64	45.8	14.10	14.60	9.92	6.24	2.66	0.82	0.021	2.68	0.20	0.29	0.04	0.03	99.08
40386923		6.61	46.0	15.55	14.35	9.32	6.65	2.65	0.74	0.025	2.36	0.19	0.27	0.03	0.03	99.90
40386924		6.74	46.1	15.95	13.75	9.56	6.39	2.69	0.67	0.026	2.23	0.18	0.25	0.03	0.03	99.25
40386925		6.61	46.6	16.40	13.80	9.62	6.36	2.74	0.71	0.026	2.23	0.18	0.26	0.04	0.03	100.39
40386926		6.57	45.7	18.30	12.20	10.15	5.84	2.66	0.59	0.022	1.87	0.15	0.22	0.04	0.02	98.80
40386927		6.45	45.8	18.45	12.10	10.20	6.40	2.64	0.68	0.025	1.75	0.15	0.22	0.04	0.02	98.83
40386928		6.61	47.1	18.70	11.65	9.76	6.62	2.61	0.76	0.029	1.58	0.14	0.17	0.04	0.02	99.89
40386929		6.85	46.3	18.25	12.15	9.59	6.94	2.56	0.72	0.033	1.35	0.15	0.17	0.04	0.02	99.24
40386930		1.92	55.6	18.65	7.42	6.49	2.53	3.96	2.40	0.003	0.97	0.11	0.31	0.07	0.12	98.96
40386931		6.67	46.2	17.05	13.85	9.51	6.61	2.72	0.83	0.028	1.94	0.17	0.25	0.04	0.03	99.55
40386932		6.66	46.6	15.35	15.05	8.93	5.80	2.80	0.78	0.019	2.68	0.19	0.32	0.04	0.03	99.42
40386933		6.82	47.1	12.70	17.15	7.69	4.42	2.59	0.79	0.004	3.71	0.21	0.41	0.05	0.03	99.03
40386934		5.44	67.1	13.55	6.15	0.97	2.02	2.73	2.53	0.024	0.59	0.04	0.11	0.02	0.05	98.26
40386935		3.95	70.9	12.40	5.02	1.15	1.69	3.33	1.81	0.023	0.53	0.03	0.09	0.02	0.04	99.12
40386936		3.21	48.8	13.35	16.00	5.96	3.95	2.88	1.81	0.005	3.46	0.18	0.40	0.06	0.06	99.01
40386937		5.88	49.7	12.55	16.45	6.18	4.01	2.64	1.85	0.003	3.49	0.19	0.40	0.06	0.06	99.50
40386938		4.65	72.2	12.15	5.98	1.24	1.77	4.19	1.06	0.020	0.68	0.04	0.11	0.01	0.03	101.34
40386939		4.21	68.6	14.65	6.71	0.99	2.16	2.70	2.29	0.025	0.69	0.06	0.10	0.02	0.05	101.59



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**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386900		0.33	0.05	0.10	1020	70.7	30	1.17	6.16	3.36	1.90	24.4	6.89	7.0	1.32	30.7
40386901		3.79	0.38	0.02	492	61.5	200	7.18	3.48	2.17	1.10	18.8	4.06	5.0	0.85	28.8
40386902		3.40	0.39	0.26	494	83.1	10	5.70	8.13	4.26	3.02	26.5	9.09	7.2	1.60	36.2
40386903		3.61	0.40	0.23	502	59.9	180	8.65	3.75	2.34	1.21	20.8	4.29	3.9	0.84	28.9
40386904		3.58	0.09	0.11	671	69.9	210	8.86	4.44	2.70	1.37	25.7	5.03	4.0	0.96	34.5
40386905		3.78	0.33	0.47	917	138.0	<10	1.10	7.83	3.78	3.78	26.0	10.50	9.2	1.42	61.8
40386906		2.98	0.04	0.01	540	65.0	210	6.45	3.82	2.46	1.42	21.9	4.05	4.6	0.84	31.2
40386907		2.48	0.15	0.01	458	52.6	180	1.80	3.15	1.99	1.02	17.2	3.58	4.9	0.74	24.7
40386908		2.00	0.16	0.08	262	74.9	30	5.86	6.96	3.80	2.87	26.1	8.60	6.4	1.40	33.4
40386909		1.25	0.09	0.06	422	78.3	20	5.42	7.11	3.85	2.99	27.1	8.71	6.6	1.58	33.8
40386910		2.08	0.04	0.33	352	27.7	2800	2.78	3.80	2.23	1.26	22.6	3.82	2.6	0.70	12.4
40386911		1.22	0.10	0.04	436	81.5	10	6.46	7.34	3.93	3.11	28.1	8.55	7.4	1.51	35.7
40386912		1.39	0.13	0.05	295	68.7	50	5.63	6.66	3.46	2.75	26.0	7.49	5.6	1.29	29.7
40386913		1.39	0.11	0.27	349	73.1	40	5.80	7.11	3.85	2.79	26.5	8.51	6.4	1.52	31.9
40386914		1.32	0.10	0.04	287	73.9	40	5.64	7.34	4.11	2.91	26.9	8.70	6.4	1.44	32.3
40386915		1.59	0.09	0.18	277	70.8	40	5.08	6.96	3.55	2.90	26.3	8.11	6.3	1.40	30.6
40386916		3.47	0.12	0.09	604	40.3	200	3.86	3.68	2.42	1.51	21.5	3.96	3.2	0.86	18.5
40386917		2.67	0.16	0.12	379	29.9	180	4.76	3.94	2.37	1.28	21.7	3.92	3.1	0.85	13.8
40386918		1.25	0.08	0.06	204	34.9	200	2.86	4.41	2.65	1.61	23.2	4.88	3.4	0.97	15.3
40386919		0.98	0.05	0.06	239	43.6	210	3.55	5.77	3.58	1.80	24.4	5.80	4.4	1.21	19.3
40386920		0.78	0.05	0.05	232	43.6	220	3.57	5.92	3.40	1.82	24.6	5.74	4.3	1.21	19.5
40386921		1.12	0.08	0.07	225	44.3	210	4.17	5.83	3.45	1.86	23.9	6.25	4.2	1.25	19.6
40386922		1.68	0.09	0.06	241	51.6	150	4.58	6.96	4.31	2.11	24.4	7.35	5.0	1.58	22.8
40386923		1.73	0.08	0.06	242	46.8	180	4.30	6.49	3.61	1.94	25.1	6.15	4.4	1.34	20.6
40386924		1.39	0.06	0.05	220	46.1	200	4.31	5.52	3.29	1.85	24.5	6.30	4.4	1.20	20.8
40386925		1.39	0.04	0.06	227	46.1	200	4.26	6.07	3.55	1.72	24.6	5.94	4.5	1.27	20.4
40386926		1.04	0.08	0.07	197.5	37.8	180	3.36	5.01	3.08	1.69	24.1	4.93	3.7	1.06	16.8
40386927		0.35	0.04	0.06	202	35.8	180	2.43	4.56	2.79	1.58	23.2	4.54	3.2	0.97	16.0
40386928		0.71	0.04	0.06	190.5	30.6	220	2.59	3.70	2.23	1.29	22.4	3.80	3.0	0.79	13.9
40386929		0.97	0.05	0.22	181.5	29.2	250	2.75	3.59	2.06	1.33	22.0	3.32	2.6	0.75	12.8
40386930		0.33	0.05	0.10	1060	69.1	20	1.45	6.77	3.61	1.87	25.7	7.44	7.5	1.37	29.9
40386931		0.32	0.05	0.20	245	40.6	220	2.23	4.97	3.00	1.65	24.4	5.38	4.0	1.09	18.2
40386932		0.83	0.06	0.05	286	52.8	150	3.90	6.56	3.45	2.29	25.8	7.01	5.2	1.33	23.4
40386933		2.18	0.15	0.05	290	71.4	20	5.69	7.28	3.68	2.92	26.2	8.25	6.3	1.39	30.8
40386934		2.38	0.19	0.08	433	52.3	190	1.71	3.51	1.95	0.94	18.2	3.93	4.9	0.74	24.7
40386935		2.09	0.13	<0.01	365	52.5	170	1.29	2.78	1.72	0.85	15.9	3.00	5.0	0.64	26.1
40386936		2.09	0.10	0.18	541	72.4	30	3.16	7.16	3.45	2.85	26.3	8.18	6.1	1.33	31.8
40386937		1.92	0.15	0.14	606	79.6	30	3.16	7.43	4.09	3.07	28.3	9.66	7.0	1.39	34.8
40386938		1.86	0.13	0.02	306	55.4	170	0.54	3.65	2.27	1.13	17.5	4.44	5.9	0.68	26.0
40386939		2.54	0.07	0.02	442	59.5	190	3.67	3.39	2.22	1.24	19.8	4.26	4.6	0.70	28.9



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 Account: RTECIKBZ

Project: EB80000964

**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
	Analyte	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386900		0.46	13.8	39.7	9.24	96.7	8.57	2	574	0.8	1.06	3.90	0.53	1.41	123	5
40386901		0.30	9.6	28.4	7.20	119.5	4.85	1	126.5	0.7	0.60	7.99	0.35	3.54	112	3
40386902		0.56	25.2	46.3	11.10	59.0	10.15	3	467	1.9	1.44	4.98	0.61	1.42	334	2
40386903		0.34	9.1	27.7	7.33	145.0	5.34	1	106.0	0.8	0.63	8.20	0.32	5.32	134	2
40386904		0.38	12.3	32.5	8.63	188.0	5.94	2	115.0	1.0	0.72	9.05	0.40	4.40	161	2
40386905		0.43	42.0	71.5	17.55	67.8	13.85	3	441	3.0	1.41	7.22	0.51	1.77	123	1
40386906		0.35	10.8	30.5	8.10	149.0	5.26	3	107.5	0.8	0.60	8.39	0.33	3.40	132	2
40386907		0.34	7.9	23.9	6.45	116.0	4.62	1	159.5	0.6	0.55	7.46	0.31	3.04	98	1
40386908		0.48	24.0	41.8	10.05	37.7	9.49	2	413	1.8	1.30	4.49	0.52	1.36	417	1
40386909		0.43	25.0	44.2	10.45	46.5	9.98	1	531	1.9	1.34	4.54	0.53	1.27	383	1
40386910		0.28	7.4	15.7	3.89	38.5	3.70	1	404	0.6	0.63	1.37	0.28	0.37	189	<1
40386911		0.53	24.6	45.8	10.85	49.1	10.05	2	502	1.9	1.34	5.50	0.61	1.33	455	1
40386912		0.37	21.9	37.6	9.17	38.9	8.35	1	516	1.6	1.15	3.98	0.47	1.10	428	1
40386913		0.48	24.1	40.9	9.98	43.6	9.24	1	521	1.8	1.21	4.20	0.55	1.29	427	1
40386914		0.48	25.1	42.6	9.93	41.1	9.59	2	479	1.9	1.29	4.37	0.50	1.18	447	1
40386915		0.48	24.6	40.2	9.24	39.9	9.26	2	486	1.7	1.24	4.06	0.47	1.22	444	1
40386916		0.29	10.1	21.3	5.24	89.2	4.28	1	504	0.8	0.65	3.23	0.32	1.23	246	1
40386917		0.27	8.6	17.1	4.01	47.4	4.01	1	453	0.6	0.65	1.64	0.34	0.41	185	<1
40386918		0.37	9.9	20.3	4.63	26.5	4.74	1	342	0.7	0.71	1.57	0.37	0.34	205	1
40386919		0.40	12.3	24.8	5.95	25.7	5.95	1	308	0.9	0.94	2.03	0.48	0.47	246	<1
40386920		0.45	12.1	25.1	5.77	25.8	6.08	1	308	0.8	0.95	2.17	0.47	0.49	253	1
40386921		0.48	13.1	25.1	5.99	23.2	5.97	1	282	0.9	0.94	2.11	0.48	0.50	257	<1
40386922		0.53	15.1	29.6	7.11	27.7	6.93	2	306	1.0	1.15	2.55	0.54	0.62	307	<1
40386923		0.52	13.3	26.5	6.38	25.5	6.36	2	285	0.9	0.97	2.19	0.53	0.56	269	<1
40386924		0.44	12.5	25.7	6.16	23.9	6.60	1	277	0.8	0.98	2.26	0.47	0.51	257	<1
40386925		0.48	13.0	25.5	6.06	24.6	6.18	1	289	0.9	1.03	2.19	0.43	0.50	249	<1
40386926		0.39	10.7	21.8	5.03	21.0	5.13	1	308	0.7	0.83	1.85	0.38	0.41	215	<1
40386927		0.34	10.0	20.7	4.90	21.4	4.90	1	325	0.7	0.79	1.68	0.40	0.68	199	<1
40386928		0.32	8.4	17.1	4.13	27.1	4.28	1	328	0.6	0.64	1.72	0.35	0.61	196	<1
40386929		0.32	7.5	16.5	3.90	26.1	3.98	1	322	0.5	0.59	1.63	0.30	0.46	177	<1
40386930		0.53	12.8	39.0	9.33	114.0	8.71	2	599	0.7	1.09	3.69	0.59	1.50	140	<1
40386931		0.40	11.0	23.4	5.48	26.7	6.10	1	342	0.8	0.87	1.87	0.44	0.45	238	<1
40386932		0.43	16.7	30.8	7.05	28.2	7.37	1	345	1.1	1.09	2.55	0.50	0.69	326	<1
40386933		0.47	24.6	41.6	9.63	34.7	9.18	1	432	1.9	1.27	4.14	0.55	1.17	465	1
40386934		0.34	8.0	24.8	6.57	114.0	4.76	1	128.5	0.6	0.62	7.74	0.33	4.96	118	1
40386935		0.28	7.1	23.4	6.23	70.0	3.98	1	151.5	0.5	0.52	7.30	0.25	2.80	88	2
40386936		0.42	23.9	41.0	9.79	84.5	9.57	2	480	1.8	1.17	4.69	0.45	1.45	435	1
40386937		0.49	26.6	45.1	10.40	88.3	10.25	2	566	1.8	1.34	4.64	0.51	1.56	450	1
40386938		0.34	9.0	25.4	6.54	36.2	4.45	1	107.5	0.8	0.60	7.37	0.36	3.02	106	1
40386939		0.35	9.3	26.3	7.07	95.5	4.89	1	151.0	0.7	0.65	7.80	0.35	3.26	111	1





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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386900		34.1	3.08	293	0.3	0.01	<0.005	0.025	0.001	<0.05	<0.2	<0.01	0.32	0.03	0.07	15.8
40386901		20.6	2.15	206	5.6	0.14	0.017	0.028	<0.001	0.34	<0.2	0.01	0.12	0.04	0.09	15.7
40386902		41.8	3.86	264	3.0	0.09	0.040	0.067	0.001	1.09	0.4	<0.01	0.36	0.14	0.25	42.3
40386903		21.2	2.30	147	10.8	0.19	0.016	0.031	0.002	1.33	0.3	0.03	0.24	0.12	0.26	17.5
40386904		24.0	2.80	154	10.7	0.25	0.017	0.039	0.001	0.41	0.2	0.03	0.25	0.08	0.21	21.1
40386905		36.8	3.05	355	3.8	0.25	0.059	0.128	0.001	0.99	0.8	<0.01	0.06	0.07	2.13	24.0
40386906		21.3	2.44	165	5.2	0.16	0.011	0.030	<0.001	0.30	<0.2	0.01	0.19	0.04	0.05	19.9
40386907		18.8	2.05	186	11.5	0.03	0.006	0.031	<0.001	0.54	<0.2	0.01	0.05	0.02	0.07	14.5
40386908		36.6	3.36	238	3.4	0.04	0.013	0.036	0.001	0.37	0.4	<0.01	0.26	0.17	0.15	49.4
40386909		37.4	3.34	246	2.1	0.03	0.010	0.021	0.001	0.12	0.3	<0.01	0.20	0.11	0.14	46.6
40386910		19.8	2.09	99	4.0	0.16	0.009	0.028	0.004	0.38	1.2	0.06	0.44	0.51	0.26	64.9
40386911		38.4	3.47	277	1.2	0.02	0.009	0.021	0.001	0.08	0.3	<0.01	0.19	0.11	0.16	48.2
40386912		32.9	2.77	215	1.9	0.02	0.007	0.021	0.001	0.13	0.2	<0.01	0.18	0.10	0.12	51.8
40386913		35.7	3.31	237	1.9	0.03	0.008	0.024	0.001	0.15	0.6	0.01	0.26	0.21	0.24	56.7
40386914		37.3	3.13	241	1.1	0.03	0.009	0.020	<0.001	0.10	0.2	<0.01	0.19	0.12	0.13	53.0
40386915		35.6	3.28	232	1.8	0.03	0.011	0.021	0.001	0.13	0.3	0.01	0.19	0.17	0.19	52.3
40386916		20.8	2.06	123	22.6	0.08	0.011	0.028	0.001	0.36	0.5	0.02	1.08	0.15	0.12	48.3
40386917		21.3	2.16	109	18.9	0.06	0.013	0.035	0.002	0.56	0.6	0.02	0.88	0.19	0.12	50.5
40386918		24.6	2.34	128	2.4	0.02	<0.005	0.019	0.001	0.10	0.3	<0.01	0.59	0.08	0.11	45.8
40386919		31.4	3.01	160	2.0	0.02	<0.005	0.022	0.001	0.06	0.4	<0.01	0.28	0.07	0.13	49.7
40386920		30.9	3.06	160	1.2	0.01	<0.005	0.022	0.001	<0.05	0.5	<0.01	0.23	0.07	0.12	48.4
40386921		31.8	3.11	160	1.8	0.01	<0.005	0.024	0.001	0.09	0.2	<0.01	0.26	0.09	0.12	51.1
40386922		38.1	3.64	192	1.3	0.01	<0.005	0.026	0.001	0.07	0.2	<0.01	0.25	0.10	0.18	47.2
40386923		33.8	3.50	172	1.2	0.01	<0.005	0.023	0.001	0.06	0.3	<0.01	0.27	0.07	0.11	48.9
40386924		31.8	3.08	164	0.7	0.01	<0.005	0.021	0.001	0.05	0.4	<0.01	0.22	0.07	0.15	48.5
40386925		32.3	3.07	166	0.7	0.01	<0.005	0.022	0.001	0.06	0.3	<0.01	0.18	0.08	0.14	47.5
40386926		26.2	2.59	138	1.6	0.01	<0.005	0.022	0.001	0.15	0.3	<0.01	0.16	0.08	0.13	44.8
40386927		25.2	2.51	127	0.3	0.01	<0.005	0.019	0.001	<0.05	0.5	<0.01	0.17	0.10	0.12	46.5
40386928		20.8	2.09	110	1.0	0.02	<0.005	0.019	0.001	0.08	0.3	<0.01	0.15	0.13	0.10	47.2
40386929		19.4	1.88	99	7.2	0.07	<0.005	0.025	0.002	0.22	0.6	0.02	0.32	0.23	0.15	57.4
40386930		37.1	3.25	281	0.4	0.01	<0.005	0.028	0.001	<0.05	<0.2	0.01	0.36	0.03	0.06	16.5
40386931		28.6	2.81	147	0.9	0.08	<0.005	0.029	0.002	<0.05	0.5	0.01	0.22	0.34	0.19	60.3
40386932		33.7	3.23	190	1.0	0.01	0.007	0.021	0.001	0.05	0.3	<0.01	0.34	0.10	0.15	52.7
40386933		35.4	3.04	224	4.7	0.04	0.019	0.033	0.001	0.24	<0.2	0.01	0.14	0.20	0.21	56.2
40386934		19.6	2.19	178	11.1	0.06	0.018	0.036	0.002	0.34	0.3	0.02	0.10	0.12	0.20	15.0
40386935		15.8	1.78	190	9.3	0.19	0.008	0.020	<0.001	0.35	<0.2	0.01	0.05	0.03	0.03	12.7
40386936		35.0	2.92	235	7.2	0.36	0.021	0.031	<0.001	0.43	<0.2	0.02	0.19	0.17	0.17	51.8
40386937		37.7	3.21	283	3.5	0.11	0.022	0.030	0.001	0.35	0.2	0.01	0.15	0.16	0.14	52.4
40386938		19.0	2.16	230	6.4	0.04	0.005	0.033	<0.001	0.36	0.2	0.01	0.03	0.06	0.02	14.6
40386939		18.6	2.07	177	16.6	0.13	<0.005	0.023	<0.001	0.35	<0.2	0.01	0.13	0.08	0.06	15.5



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 Account: RTEICKBZ

Project: EB80000964

**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386900		20.1	18.8	0.95	12.2	13.6	15.2	86	0.002	<0.0005	0.001
40386901		32.2	65.4	0.95	59.5	14.8	16.0	93	0.003	0.0008	0.001
40386902		286	33.3	1.69	44.0	15.8	25.3	158	0.007	0.0042	0.009
40386903		80.9	73.6	9.09	69.5	20.3	18.1	120	0.004	0.0014	0.002
40386904		57.0	99.4	2.60	75.4	20.6	21.6	139	0.002	0.0012	0.002
40386905		13.4	60.7	2.15	1.1	10.2	15.2	348	0.002	<0.0005	<0.001
40386906		42.7	99.4	1.10	73.8	15.3	19.8	98	0.001	0.0011	0.001
40386907		28.9	57.6	1.71	51.7	13.3	14.2	72	0.002	0.0010	0.001
40386908		277	30.7	1.82	69.0	5.8	27.1	176	0.006	0.0030	0.010
40386909		278	25.9	1.63	54.1	7.1	26.5	164	0.005	0.0027	0.010
40386910		1140	43.0	3.07	716	7.0	19.1	113	0.026	0.0366	0.224
40386911		276	24.8	1.63	49.2	7.8	28.8	162	0.007	0.0030	0.010
40386912		242	26.8	1.38	88.7	4.5	24.4	159	0.005	0.0026	0.009
40386913		386	30.1	1.88	90.3	6.4	27.5	184	0.006	0.0027	0.010
40386914		282	29.2	1.62	78.1	4.9	28.2	169	0.006	0.0028	0.011
40386915		332	31.1	1.57	80.1	5.8	27.4	177	0.006	0.0029	0.011
40386916		247	83.0	1.35	204	6.2	19.4	114	0.007	0.0088	0.020
40386917		519	52.7	0.73	285	3.1	20.0	103	0.008	0.0152	0.050
40386918		193.5	27.8	0.72	170.0	3.1	22.3	103	0.004	0.0090	0.019
40386919		218	27.6	0.93	150.5	3.9	28.0	119	0.004	0.0081	0.010
40386920		207	25.3	0.91	148.0	3.7	27.4	114	0.003	0.0084	0.010
40386921		213	25.5	0.93	168.5	3.9	29.1	120	0.003	0.0082	0.010
40386922		248	29.9	1.14	129.5	4.3	37.0	135	0.002	0.0048	0.007
40386923		210	27.6	0.94	156.5	4.2	30.2	123	0.002	0.0049	0.006
40386924		220	26.5	0.99	143.5	4.0	30.7	120	0.003	0.0081	0.009
40386925		214	25.4	1.01	136.5	4.3	28.2	118	0.003	0.0080	0.010
40386926		208	20.6	0.86	157.5	3.4	23.7	105	0.004	0.0097	0.029
40386927		289	22.6	0.82	216	2.9	22.0	97	0.009	0.0135	0.065
40386928		322	23.8	0.60	241	3.6	20.0	98	0.006	0.0134	0.046
40386929		623	26.6	0.93	349	3.6	19.7	97	0.008	0.0133	0.036
40386930		21.1	21.3	0.77	13.3	12.5	16.9	89	<0.001	<0.0005	0.001
40386931		790	20.6	1.19	328	5.7	28.4	122	0.008	0.0166	0.044
40386932		240	19.4	1.06	129.5	4.7	30.5	143	0.003	0.0071	0.010
40386933		320	31.8	1.51	78.0	7.1	29.3	191	0.004	0.0025	0.010
40386934		90.2	59.7	9.23	60.8	14.7	16.2	105	0.001	0.0015	0.002
40386935		22.6	45.0	1.38	47.4	7.4	13.4	41	0.001	0.0008	0.001
40386936		248	32.0	1.54	68.3	8.2	29.0	164	0.004	0.0022	0.009
40386937		257	29.4	1.50	71.2	4.6	28.4	160	0.005	0.0024	0.009
40386938		26.2	46.6	1.10	46.3	8.5	14.0	45	0.001	0.0008	0.001
40386939		28.0	64.4	0.88	62.6	8.2	18.3	62	0.001	0.0014	0.001



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 Account: RTECIKBZ

Project: EB80000964

**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40386940		0.17	46.1	18.55	12.05	9.31	7.41	2.12	1.07	0.359	1.33	0.14	0.15	0.05	0.04	100.68
40386941		3.92	54.8	12.05	13.50	4.75	2.38	4.08	0.94	<0.002	2.40	0.16	0.70	0.04	0.05	98.32
40386942		6.12	57.9	12.00	11.90	3.98	1.72	4.44	1.06	<0.002	1.69	0.15	0.59	0.04	0.06	98.22
40386943		6.35	58.3	12.05	11.75	4.12	1.80	4.15	1.89	<0.002	1.71	0.16	0.61	0.05	0.09	98.77
40386944		6.26	55.7	12.95	13.25	5.90	3.27	3.62	1.59	0.004	2.02	0.18	0.63	0.05	0.09	101.23
40386945		6.97	49.7	14.85	15.05	9.29	6.09	2.59	0.43	0.015	2.00	0.20	0.22	0.03	0.02	101.68
40386946		6.33	49.8	14.80	15.10	9.28	6.07	2.61	0.46	0.015	2.00	0.20	0.22	0.03	0.02	101.72
40386947		6.36	49.5	14.60	14.90	9.14	6.04	2.58	0.54	0.014	1.98	0.20	0.22	0.03	0.02	100.82
40386948		6.76	48.3	14.30	14.75	9.02	6.02	2.53	0.60	0.014	1.97	0.20	0.22	0.03	0.02	99.10
40386949		3.08	48.7	14.35	14.70	8.85	6.07	2.55	0.69	0.015	1.94	0.19	0.21	0.03	0.02	99.27
40386950		3.01	48.3	14.30	14.65	8.84	6.05	2.53	0.69	0.014	1.94	0.19	0.22	0.03	0.02	98.72
40386951		6.48	48.5	14.30	14.50	8.92	6.08	2.51	0.66	0.014	1.93	0.19	0.21	0.03	0.02	99.26
40386952		6.83	48.0	14.35	14.10	8.99	5.93	2.52	0.63	0.014	1.91	0.19	0.21	0.04	0.02	98.56
40386953		6.73	49.0	14.80	14.25	8.82	6.44	2.81	0.66	0.015	1.79	0.19	0.17	0.04	0.03	101.44
40386954		6.55	49.0	14.50	14.70	9.07	6.06	2.57	0.64	0.014	1.95	0.19	0.21	0.03	0.02	100.16
40386955		6.04	48.9	14.30	14.90	9.10	6.09	2.58	0.61	0.032	1.95	0.20	0.22	0.03	0.02	100.10
40386956		6.25	48.4	14.20	14.70	9.31	5.96	2.57	0.50	0.014	1.93	0.19	0.22	0.03	0.02	99.42
40386957		6.51	49.5	14.60	15.05	9.43	6.23	2.61	0.49	0.014	1.98	0.20	0.22	0.03	0.01	101.13
40386958		6.92	49.9	14.60	14.95	9.40	6.19	2.59	0.48	0.015	1.94	0.19	0.23	0.01	0.01	101.30
40386959		4.38	50.1	15.35	14.10	9.07	5.38	2.92	0.68	0.011	2.00	0.18	0.23	0.04	0.02	101.03
40386960		1.70	57.9	18.40	6.97	6.36	2.55	3.81	2.42	0.003	0.88	0.10	0.25	0.06	0.10	100.15
40386961		4.61	51.1	16.25	12.20	8.38	3.91	3.45	1.11	0.006	2.07	0.16	0.26	0.06	0.04	100.35
40386962		4.12	53.1	17.70	10.35	7.75	2.22	4.30	1.38	<0.002	2.23	0.12	0.31	0.08	0.04	101.16
40386963		5.72	51.9	16.65	11.20	7.62	2.32	4.10	1.32	<0.002	2.36	0.13	0.32	0.08	0.04	99.42
40386964		6.47	51.6	16.65	10.70	7.45	2.20	4.06	1.35	<0.002	2.25	0.13	0.31	0.08	0.04	98.14
40386965		6.66	52.9	17.20	10.90	7.68	2.23	4.14	1.40	<0.002	2.37	0.13	0.36	0.08	0.04	100.89
40386966		6.53	53.4	16.60	11.50	7.82	2.42	4.08	1.39	<0.002	2.44	0.14	0.37	0.08	0.04	101.69
40386967		6.56	52.9	16.95	11.35	7.42	2.31	4.40	1.52	<0.002	2.39	0.13	0.34	0.08	0.04	101.38
40386968		6.74	52.7	16.95	11.60	7.13	2.35	4.34	1.77	0.002	2.41	0.13	0.34	0.08	0.04	101.58
40386969		6.64	51.9	16.20	12.45	6.83	2.62	4.29	1.87	0.002	2.69	0.14	0.34	0.08	0.05	101.22
40386970		0.17	46.5	18.70	12.20	9.44	7.48	2.13	1.08	0.357	1.35	0.14	0.15	0.05	0.04	101.55
40386971		5.13	50.3	15.15	14.00	6.48	3.16	4.53	1.71	0.003	2.95	0.17	0.39	0.08	0.06	100.65
40386972		6.05	47.8	14.75	15.15	9.37	6.14	2.60	0.60	0.014	1.99	0.19	0.22	0.04	0.02	99.72
40386973		6.91	47.9	14.65	15.15	9.24	6.15	2.56	0.62	0.014	1.99	0.20	0.22	0.03	0.02	99.83
40386974		5.67	48.2	14.75	15.05	9.36	6.26	2.57	0.53	0.014	2.02	0.20	0.22	0.03	0.02	100.73
40386975		7.73	48.2	14.85	15.10	9.34	6.03	2.59	0.47	0.013	2.01	0.19	0.22	0.03	0.02	100.49
40386976		7.08	62.4	15.05	7.69	1.70	2.63	1.96	3.64	0.023	0.77	0.06	0.11	0.02	0.09	99.43
40386977		8.46	63.3	15.60	7.95	0.88	2.46	2.06	3.00	0.024	0.73	0.03	0.11	0.01	0.05	100.29
40386978		1.36	48.4	15.55	14.75	8.23	5.55	2.54	0.65	0.013	2.04	0.22	0.23	0.03	0.03	101.24
40386979		4.05	63.3	15.25	8.05	0.74	2.43	2.21	2.64	0.026	0.76	0.03	0.12	0.02	0.05	99.52



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Project: EB80000964

**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386940		2.00	0.04	0.31	363	29.3	2880	2.68	3.76	2.43	1.47	23.6	4.02	2.8	0.73	13.1
40386941		2.47	0.25	0.38	526	131.5	10	1.05	10.90	5.86	3.92	27.3	13.95	10.0	1.98	57.5
40386942		2.69	0.38	0.45	602	151.5	<10	0.79	11.10	6.48	4.30	28.6	14.40	11.6	2.19	67.4
40386943		2.09	0.24	0.10	899	150.5	<10	1.00	11.45	6.40	4.40	27.7	14.45	11.2	2.31	67.0
40386944		1.98	0.15	0.02	849	115.0	30	2.36	9.78	5.42	3.58	27.5	12.90	8.7	1.79	51.0
40386945		1.19	0.02	0.07	152.0	33.8	120	6.43	5.46	3.33	1.76	24.9	5.69	4.0	1.11	14.7
40386946		1.11	0.02	0.05	171.0	34.9	120	6.67	5.65	3.28	1.82	24.9	6.20	3.9	1.15	15.1
40386947		1.06	0.02	0.06	194.5	34.4	120	7.13	5.42	3.40	1.79	24.8	5.99	3.8	1.14	14.9
40386948		1.13	0.03	0.05	206	33.3	120	6.58	5.60	3.27	1.73	23.7	6.00	4.0	1.10	14.2
40386949		0.95	0.03	0.05	228	32.7	110	7.39	5.37	3.44	1.73	23.7	5.60	3.9	1.07	13.9
40386950		0.95	0.03	0.05	223	32.8	110	7.67	5.43	3.19	1.77	24.1	5.74	3.6	1.12	14.4
40386951		1.40	0.03	0.05	209	32.8	120	6.48	5.50	3.15	1.76	24.3	5.63	3.9	1.06	14.1
40386952		1.66	0.03	0.05	187.5	33.1	110	5.34	5.37	3.35	1.70	24.0	5.50	3.8	1.01	14.0
40386953		2.42	0.12	0.04	257	30.1	120	4.21	5.10	3.04	1.63	23.6	5.62	3.5	1.01	12.8
40386954		1.21	0.02	0.05	181.5	33.0	110	5.53	5.40	3.32	1.95	23.8	6.04	3.8	1.07	14.3
40386955		1.17	0.02	0.05	174.0	35.3	120	6.06	6.05	3.52	1.86	24.7	5.87	4.0	1.17	14.8
40386956		1.38	0.04	0.04	141.5	34.2	110	5.87	5.35	3.38	1.80	23.9	6.25	3.9	1.10	14.1
40386957		0.77	0.03	0.05	147.0	35.2	120	6.30	5.17	3.31	1.78	24.9	5.72	4.0	1.11	14.7
40386958		0.79	0.02	0.05	143.0	40.4	120	6.02	5.70	3.48	1.77	23.9	6.05	4.0	1.16	17.7
40386959		0.95	0.02	0.05	226	39.7	90	5.90	5.55	3.20	1.90	24.9	5.74	4.2	1.03	17.2
40386960		0.35	0.05	0.10	997	69.0	20	1.50	6.61	3.94	1.85	26.6	7.52	7.5	1.26	29.6
40386961		1.35	0.04	0.03	406	45.9	50	4.83	5.22	3.01	2.14	25.9	6.35	4.4	1.06	19.9
40386962		1.58	0.05	0.02	361	56.6	<10	1.67	5.60	3.02	2.34	27.6	6.34	4.8	1.09	25.0
40386963		1.38	0.04	0.04	343	62.9	<10	1.42	5.86	3.27	2.60	28.0	7.25	5.1	1.08	27.5
40386964		1.32	0.05	0.03	359	61.1	<10	1.45	5.43	2.98	2.44	27.7	7.11	5.2	1.18	26.8
40386965		1.46	0.07	0.04	361	60.6	<10	1.75	5.83	3.10	2.41	27.2	7.34	5.3	1.03	26.8
40386966		1.41	0.06	0.04	366	64.9	<10	1.68	6.26	3.43	2.71	28.4	7.50	5.6	1.23	28.4
40386967		1.55	0.06	0.04	382	62.1	10	1.07	5.97	3.28	2.64	28.1	7.14	5.3	1.12	27.5
40386968		1.74	0.09	0.07	407	60.7	10	0.81	5.32	3.21	2.46	27.4	7.12	5.1	1.04	27.3
40386969		1.76	0.13	0.06	461	62.9	20	0.82	5.90	3.39	2.50	27.2	7.23	5.5	1.13	27.8
40386970		1.93	0.04	0.33	365	29.2	2780	2.83	3.61	2.20	1.36	23.0	3.87	2.6	0.77	13.2
40386971		1.67	0.07	0.12	521	71.4	20	1.11	6.86	3.60	2.67	26.8	7.91	6.2	1.23	30.0
40386972		0.84	0.03	0.11	165.5	32.9	110	5.88	5.20	3.31	1.79	21.8	5.77	3.7	1.02	14.2
40386973		1.09	0.03	0.08	175.5	31.9	110	6.17	5.28	2.98	1.62	21.8	5.50	3.8	1.10	13.9
40386974		1.51	0.04	0.07	165.5	33.0	110	5.60	5.15	3.19	1.70	21.7	5.60	3.7	1.05	14.0
40386975		1.43	0.07	0.11	142.0	32.8	100	4.59	5.22	3.27	1.63	21.6	5.54	3.8	1.07	14.2
40386976		3.29	0.24	0.31	767	52.8	180	6.33	3.78	2.36	1.16	20.0	4.19	4.2	0.73	25.7
40386977		4.09	0.53	0.99	465	66.2	190	10.60	4.15	2.34	1.29	20.8	5.29	4.6	0.80	32.8
40386978		3.01	0.24	0.54	224	36.3	100	7.91	5.38	3.38	1.78	22.4	5.84	3.7	1.09	17.1
40386979		3.89	0.43	0.93	401	62.5	200	9.78	3.98	2.47	1.09	19.9	4.29	4.8	0.81	30.5





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**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386940		0.32	7.9	16.1	3.81	37.7	4.21	1	432	0.7	0.62	1.44	0.35	0.40	190	<1
40386941		0.75	32.0	70.4	17.15	32.5	14.70	3	337	2.2	1.92	7.18	0.83	2.10	124	1
40386942		0.75	34.4	79.0	19.60	29.6	16.65	3	336	2.4	2.09	8.78	0.88	2.54	32	1
40386943		0.86	34.4	79.9	19.15	49.3	15.90	3	420	2.4	2.15	8.76	0.89	2.42	32	1
40386944		0.74	26.8	62.7	15.25	48.0	13.55	2	408	1.9	1.93	6.36	0.72	1.84	126	1
40386945		0.44	9.7	21.0	4.49	20.8	5.33	1	265	0.7	0.94	1.64	0.50	0.65	335	<1
40386946		0.55	9.8	21.2	4.91	22.5	5.79	1	276	0.7	0.94	1.73	0.49	0.53	343	<1
40386947		0.44	9.6	20.5	4.58	27.6	5.49	1	280	0.7	0.96	1.60	0.50	0.49	344	1
40386948		0.50	9.1	20.0	4.60	28.8	5.00	<1	286	0.7	0.91	1.54	0.47	0.45	333	1
40386949		0.45	9.0	20.1	4.60	33.5	4.67	1	295	0.6	0.96	1.54	0.46	0.44	325	<1
40386950		0.48	9.3	19.8	4.53	34.3	5.64	1	302	0.7	0.93	1.51	0.51	0.45	336	<1
40386951		0.45	9.2	19.9	4.45	31.4	5.17	1	312	0.7	0.89	1.50	0.49	0.43	335	<1
40386952		0.49	9.4	19.7	4.42	30.0	4.92	1	313	0.6	0.93	1.50	0.45	0.47	330	<1
40386953		0.41	8.4	18.8	4.18	28.7	4.46	1	375	0.7	0.89	1.36	0.41	0.42	323	<1
40386954		0.48	9.5	20.0	4.56	28.9	5.13	1	303	0.7	0.90	1.52	0.44	0.45	335	<1
40386955		0.47	9.7	20.7	4.68	26.6	5.18	1	300	0.8	1.01	1.65	0.49	0.56	348	<1
40386956		0.51	9.3	21.1	4.68	19.8	5.11	1	268	0.7	0.92	1.56	0.46	0.50	331	<1
40386957		0.50	10.0	21.6	4.66	19.2	5.25	1	258	0.8	0.92	1.55	0.49	0.49	340	<1
40386958		0.50	13.9	24.2	5.53	18.7	5.86	1	254	0.9	0.95	1.93	0.50	0.50	330	<1
40386959		0.47	11.2	23.1	5.26	25.6	5.78	<1	355	0.7	0.99	2.09	0.47	0.58	302	<1
40386960		0.54	13.6	37.9	9.15	107.5	8.02	1	580	0.8	1.14	4.10	0.58	1.68	133	<1
40386961		0.41	13.2	26.0	5.98	39.1	5.66	1	545	1.0	0.95	2.49	0.45	0.68	256	1
40386962		0.38	16.7	31.1	7.42	50.3	7.23	1	732	1.3	1.01	3.28	0.40	0.97	205	1
40386963		0.46	18.0	36.1	8.13	46.6	7.54	1	694	1.3	1.09	3.79	0.45	1.19	230	1
40386964		0.43	17.4	33.5	8.09	50.0	7.34	1	703	1.3	1.10	3.45	0.42	1.06	216	1
40386965		0.40	18.2	33.7	7.69	49.5	7.29	1	679	1.3	1.00	3.58	0.41	0.98	207	1
40386966		0.44	18.5	36.7	8.35	49.5	8.30	1	672	1.4	1.13	3.74	0.46	1.23	217	1
40386967		0.43	18.7	34.5	8.11	51.4	7.52	2	686	1.3	1.09	3.72	0.47	1.08	236	1
40386968		0.42	18.0	33.3	7.83	64.3	7.16	1	757	1.4	1.07	3.57	0.47	1.08	252	1
40386969		0.38	18.6	34.3	8.01	63.9	7.63	2	706	1.3	1.10	3.70	0.45	1.12	294	1
40386970		0.36	7.6	16.5	3.65	37.4	3.80	2	431	0.6	0.58	1.36	0.31	0.36	188	<1
40386971		0.43	22.2	37.2	9.25	52.0	8.01	1	629	1.5	1.18	4.06	0.47	1.18	323	1
40386972		0.40	9.2	20.2	4.55	25.3	4.80	<1	278	0.7	0.93	1.55	0.45	0.44	328	<1
40386973		0.43	9.2	19.5	4.38	26.7	4.83	<1	275	0.7	0.89	1.51	0.46	0.44	324	<1
40386974		0.44	9.3	20.4	4.54	22.4	4.93	1	258	0.7	0.86	1.51	0.45	0.45	328	<1
40386975		0.43	9.0	20.0	4.41	17.6	4.90	1	243	0.6	0.85	1.50	0.43	0.43	320	1
40386976		0.37	9.7	24.9	6.59	140.5	4.74	1	181.0	0.8	0.64	7.91	0.32	5.05	141	1
40386977		0.38	10.2	30.6	7.98	148.0	5.67	1	106.5	0.8	0.71	8.87	0.37	5.47	141	2
40386978		0.44	9.4	21.8	4.87	28.9	5.18	1	266	0.7	0.88	1.64	0.46	0.49	325	<1
40386979		0.32	10.1	29.0	7.52	131.5	5.24	1	119.0	0.7	0.72	8.45	0.36	5.26	136	2





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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386940		20.5	1.93	113	4.7	0.15	0.009	0.031	0.003	0.43	1.0	0.07	0.43	0.47	0.29	67.0
40386941		54.3	5.20	404	10.3	0.19	0.010	0.064	0.001	0.27	0.3	0.01	0.07	0.10	0.09	27.3
40386942		58.7	5.12	473	5.6	0.25	0.013	0.080	<0.001	0.33	0.3	0.01	0.04	0.07	0.12	17.9
40386943		58.2	5.35	459	9.2	1.66	0.013	0.037	<0.001	0.18	<0.2	0.02	0.05	0.08	0.18	17.6
40386944		50.7	4.40	362	2.9	0.03	0.013	0.020	0.001	0.26	<0.2	<0.01	0.13	0.09	0.12	30.5
40386945		29.8	3.01	153	0.8	0.01	0.009	0.017	0.001	0.06	0.3	0.01	0.40	0.07	0.13	56.8
40386946		30.9	3.15	157	0.8	0.01	0.008	0.016	0.001	0.06	<0.2	0.01	0.33	0.08	0.18	56.7
40386947		30.8	3.28	154	0.6	0.01	0.007	0.016	0.001	0.05	0.2	0.01	0.28	0.08	0.15	57.0
40386948		29.1	3.04	147	0.6	0.01	0.009	0.015	0.001	<0.05	<0.2	0.01	0.26	0.09	0.14	57.9
40386949		29.1	3.05	147	0.4	0.01	<0.005	0.017	0.001	<0.05	<0.2	<0.01	0.23	0.07	0.13	54.8
40386950		29.3	2.92	150	0.6	0.01	0.005	0.017	0.001	<0.05	0.2	0.01	0.23	0.08	0.14	56.8
40386951		29.5	3.03	148	0.5	0.01	0.005	0.017	0.001	<0.05	<0.2	<0.01	0.20	0.09	0.15	56.3
40386952		28.9	3.14	148	1.1	0.01	0.008	0.014	0.001	0.05	0.2	<0.01	0.17	0.08	0.18	54.6
40386953		26.5	2.57	135	1.3	0.01	0.011	0.014	0.001	<0.05	<0.2	<0.01	0.13	0.07	0.18	57.9
40386954		29.6	3.09	150	0.8	0.01	0.010	0.016	0.001	<0.05	<0.2	0.01	0.20	0.09	0.15	56.0
40386955		30.9	3.35	157	0.6	0.01	0.008	0.014	0.001	<0.05	0.3	<0.01	0.20	0.08	0.14	54.7
40386956		30.0	3.18	151	0.6	0.01	0.006	0.013	0.001	<0.05	0.2	0.01	0.22	0.09	0.15	57.9
40386957		29.8	3.07	153	0.6	0.01	<0.005	0.013	0.001	<0.05	<0.2	<0.01	0.17	0.08	0.13	57.8
40386958		30.2	3.19	154	0.6	0.01	0.005	0.013	0.001	<0.05	<0.2	<0.01	0.18	0.08	0.12	55.9
40386959		29.3	2.89	161	0.8	0.01	0.009	0.012	0.001	<0.05	<0.2	<0.01	0.21	0.07	0.12	52.3
40386960		36.2	3.62	287	0.4	0.01	<0.005	0.032	<0.001	<0.05	<0.2	0.01	0.37	0.03	0.08	18.5
40386961		27.6	2.59	167	1.3	0.01	0.014	0.008	<0.001	<0.05	0.2	0.02	0.14	0.08	0.10	40.2
40386962		27.1	2.54	189	2.6	0.01	0.025	0.006	0.001	<0.05	0.2	0.01	0.04	0.08	0.09	29.4
40386963		29.8	2.72	213	1.4	0.02	0.033	0.007	0.001	<0.05	0.3	<0.01	0.04	0.09	0.09	30.5
40386964		29.4	2.99	209	1.0	0.03	0.031	0.008	<0.001	<0.05	0.4	<0.01	0.04	0.10	0.09	30.9
40386965		29.0	2.57	211	1.1	0.03	0.033	0.008	<0.001	<0.05	0.3	0.01	0.05	0.08	0.10	29.7
40386966		30.8	2.71	221	1.5	0.03	0.030	0.009	<0.001	<0.05	0.3	0.01	0.07	0.08	0.12	32.3
40386967		29.6	2.74	211	2.5	0.02	0.036	0.007	<0.001	<0.05	0.2	<0.01	0.05	0.11	0.10	31.1
40386968		29.0	2.37	206	2.2	0.02	0.034	0.007	<0.001	<0.05	0.2	<0.01	0.05	0.07	0.09	31.3
40386969		30.2	2.73	217	2.0	0.03	0.028	0.007	0.001	0.05	0.2	<0.01	0.07	0.08	0.07	35.5
40386970		19.8	2.04	109	3.7	0.15	0.008	0.030	0.003	0.32	0.8	0.05	0.44	0.45	0.26	62.4
40386971		34.9	3.02	241	10.0	0.02	0.041	0.009	0.001	0.09	0.4	0.01	0.10	0.09	0.14	38.7
40386972		28.9	3.07	142	7.9	0.02	0.008	0.018	0.001	0.11	0.3	<0.01	0.29	0.07	0.11	53.7
40386973		28.3	2.89	139	0.8	0.02	0.008	0.020	0.001	0.09	<0.2	0.01	0.38	0.07	0.12	53.5
40386974		29.1	2.72	143	1.7	0.02	0.009	0.021	0.001	0.12	<0.2	0.01	0.53	0.08	0.13	56.2
40386975		28.5	2.76	138	1.8	0.02	0.007	0.024	0.001	0.13	0.3	<0.01	0.40	0.08	0.12	55.9
40386976		20.5	2.23	169	9.0	0.07	0.055	0.050	0.002	0.46	0.4	0.02	0.33	0.07	0.19	20.9
40386977		23.0	2.28	176	17.3	0.22	0.063	0.041	0.002	1.65	0.3	0.04	0.46	0.10	0.38	20.5
40386978		29.3	2.98	145	0.6	0.03	0.029	0.051	0.001	0.46	0.4	<0.01	0.46	0.11	0.12	56.6
40386979		21.4	2.43	178	21.5	0.19	0.075	0.036	0.003	1.96	0.5	0.02	0.57	0.13	0.34	21.4



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**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386940		1145	32.4	3.08	713	6.1	19.5	112	0.023	0.0420	0.210
40386941		102.0	27.4	2.22	16.3	4.8	23.2	131	<0.001	0.0015	0.004
40386942		43.3	27.4	2.75	3.9	5.4	19.4	126	0.001	<0.0005	0.001
40386943		39.5	22.0	3.11	3.5	8.6	19.4	141	0.001	<0.0005	0.001
40386944		84.8	23.1	1.84	33.9	8.2	24.9	131	<0.001	0.0019	0.002
40386945		197.0	13.4	0.67	116.5	3.1	35.0	131	0.002	0.0062	0.006
40386946		199.5	13.8	0.70	115.5	4.3	36.4	137	0.002	0.0060	0.006
40386947		200	13.5	0.66	115.5	3.3	35.4	134	0.002	0.0062	0.006
40386948		205	15.0	0.70	118.5	3.8	36.5	137	0.003	0.0063	0.006
40386949		192.5	14.4	0.69	114.0	3.2	34.4	124	0.002	0.0060	0.006
40386950		197.5	15.0	0.70	116.5	3.6	35.6	128	0.002	0.0059	0.006
40386951		196.0	15.4	0.64	117.0	4.2	34.6	130	0.002	0.0057	0.006
40386952		198.0	16.9	0.65	116.0	5.7	34.6	130	0.002	0.0057	0.006
40386953		180.5	23.1	0.60	127.0	5.0	34.1	134	0.002	0.0053	0.006
40386954		198.5	15.9	0.67	116.5	4.0	34.5	132	0.002	0.0060	0.006
40386955		196.0	14.6	0.65	112.5	4.8	34.8	127	0.002	0.0071	0.006
40386956		198.5	15.5	0.72	118.0	3.6	36.8	126	0.003	0.0059	0.006
40386957		198.0	12.9	0.66	118.0	2.5	35.6	123	0.002	0.0060	0.006
40386958		198.5	13.7	0.63	116.0	2.5	34.9	124	0.002	0.0059	0.006
40386959		200	17.3	0.77	101.0	2.7	32.7	121	0.002	0.0049	0.005
40386960		18.8	17.5	0.60	15.5	11.8	18.4	88	<0.001	0.0007	0.002
40386961		181.5	23.4	0.82	63.9	2.9	25.9	104	0.003	0.0039	0.006
40386962		188.0	26.1	1.06	24.2	3.9	19.1	100	0.004	0.0027	0.006
40386963		214	24.2	1.13	27.1	4.5	20.9	117	0.003	0.0033	0.007
40386964		206	23.0	1.19	25.8	4.5	20.7	107	0.003	0.0026	0.006
40386965		196.5	22.3	1.16	23.2	3.9	20.1	108	0.003	0.0028	0.005
40386966		201	24.6	1.28	25.4	4.9	21.8	116	0.003	0.0027	0.006
40386967		215	22.1	1.42	27.4	6.1	19.6	113	0.003	0.0028	0.007
40386968		206	22.5	1.11	29.8	4.1	18.5	107	0.003	0.0029	0.009
40386969		229	23.4	1.19	38.1	3.3	20.9	108	0.004	0.0039	0.016
40386970		1080	30.4	2.83	685	5.5	17.6	105	0.022	0.0429	0.225
40386971		241	26.9	1.26	43.1	4.5	22.2	133	0.002	0.0039	0.015
40386972		197.5	14.4	0.66	114.5	2.5	32.9	122	0.002	0.0060	0.006
40386973		191.5	15.5	0.64	111.5	2.3	32.2	121	0.002	0.0061	0.006
40386974		198.0	16.5	0.71	115.0	2.6	34.5	125	0.002	0.0062	0.006
40386975		195.0	15.6	0.67	114.5	2.4	33.5	120	0.002	0.0060	0.006
40386976		63.5	106.5	3.75	70.4	14.5	18.7	154	0.002	0.0016	0.002
40386977		55.1	65.9	4.32	75.2	19.7	20.2	170	0.002	0.0015	0.002
40386978		195.5	32.6	0.68	117.5	3.1	34.7	106	0.003	0.0060	0.006
40386979		51.6	71.8	4.37	78.8	17.2	19.2	141	0.002	0.0014	0.002



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 Account: RTEICKBZ

Project: EB80000964

**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40386980		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386981		3.83	63.7	15.55	8.03	0.62	2.47	2.19	2.73	0.026	0.76	0.03	0.12	0.02	0.05	100.13
40386982		6.05	50.6	14.00	13.05	8.59	5.61	2.27	1.00	0.014	1.27	0.18	0.14	0.03	0.04	99.07
40386983		4.57	50.6	14.00	13.20	8.91	5.39	2.34	0.85	0.015	1.28	0.17	0.14	0.03	0.03	99.14
40386984		8.46	71.1	12.55	5.43	1.04	1.76	2.83	1.72	0.023	0.55	0.02	0.10	0.01	0.03	99.92
40386985		5.90	63.5	15.55	7.83	0.67	2.27	2.00	2.99	0.023	0.71	0.02	0.12	0.01	0.05	99.57
40386986		4.07	48.5	12.70	16.40	7.48	3.61	2.79	1.12	0.004	3.49	0.18	0.42	0.06	0.03	99.50
40386987		8.66	66.9	13.95	6.68	1.46	2.12	2.52	2.08	0.023	0.65	0.04	0.11	0.02	0.04	99.63
40386988		9.57	60.3	17.60	8.84	0.38	2.74	1.65	3.61	0.025	0.82	0.03	0.12	0.02	0.06	100.33
40386989		4.68	47.9	12.85	16.95	7.54	3.95	2.78	1.12	0.004	3.62	0.19	0.40	0.06	0.03	99.89
40386990		5.63	48.3	12.80	17.00	7.15	4.04	2.92	1.14	0.005	3.62	0.19	0.41	0.06	0.04	99.20
40386991		2.03	57.5	18.25	7.44	6.20	2.55	3.89	2.48	0.002	0.98	0.11	0.29	0.07	0.10	100.26
40388600		5.01	60.8	16.40	8.57	0.90	2.65	1.96	3.05	0.024	0.76	0.03	0.11	0.02	0.06	99.60
40388601		1.88	58.0	17.85	6.92	5.76	2.32	3.84	2.60	<0.002	0.93	0.10	0.26	0.07	0.11	99.08
40388602		10.61	59.6	18.25	8.75	0.40	3.10	1.73	3.88	0.026	0.84	0.06	0.12	0.01	0.06	100.84
40388603		5.66	58.9	18.30	9.30	0.70	3.02	1.67	4.00	0.026	0.83	0.03	0.12	0.02	0.07	100.72
40388604		5.17	49.0	13.90	17.05	3.79	4.51	3.40	1.34	0.006	3.58	0.18	0.40	0.04	0.06	99.88
40388605		5.51	48.2	14.25	16.60	4.88	5.16	3.91	0.80	0.009	2.86	0.17	0.32	0.03	0.03	100.45
40388606		6.11	52.2	13.80	13.65	8.96	5.68	2.44	1.22	0.013	1.31	0.19	0.14	0.04	0.05	100.58
40388607		6.07	51.4	14.30	13.55	9.15	5.88	2.77	1.27	0.014	1.30	0.18	0.13	0.05	0.02	101.02
40388608		6.09	51.3	14.50	13.20	9.28	5.96	3.11	1.38	0.016	1.25	0.18	0.12	0.06	0.02	101.64
40388609		6.20	51.5	14.40	13.65	9.20	5.85	2.86	1.34	0.014	1.32	0.19	0.13	0.05	0.04	101.56
40388610		5.94	51.7	14.50	13.60	9.56	5.82	2.68	1.08	0.014	1.30	0.18	0.13	0.05	0.02	101.68
40388611		0.17	45.5	18.90	12.45	9.48	7.56	2.17	1.09	0.354	1.36	0.14	0.16	0.05	0.04	101.15
40388612		3.95	51.6	13.95	14.10	9.20	5.75	2.88	0.86	0.011	1.37	0.19	0.15	0.04	0.02	101.27
40388613		3.57	52.1	14.00	14.10	9.37	5.69	2.70	0.75	0.011	1.37	0.19	0.14	0.04	0.02	101.84
40388614		4.10	54.5	14.75	12.45	7.47	5.17	2.74	1.21	0.017	1.21	0.15	0.14	0.04	0.05	101.39
40388615		6.47	52.2	15.35	13.40	5.93	4.33	2.45	2.13	0.022	2.53	0.14	0.35	0.03	0.06	100.44
40388616		6.16	48.2	14.35	15.95	8.45	5.01	2.85	1.27	0.018	3.37	0.20	0.47	0.04	0.04	100.95
40388617		6.07	47.6	14.05	15.80	8.27	5.05	2.79	1.22	0.018	3.28	0.20	0.46	0.03	0.04	99.48
40388618		5.90	47.6	14.10	15.75	8.26	5.23	2.81	1.19	0.019	3.35	0.20	0.46	0.04	0.04	100.04
40388619		5.93	47.2	14.00	15.60	8.18	5.47	2.78	1.15	0.018	3.30	0.20	0.46	0.04	0.04	99.94
40388620		2.79	47.6	14.05	15.85	8.22	5.08	2.82	1.26	0.018	3.32	0.19	0.45	0.04	0.04	99.42
40388621		3.00	47.6	13.95	15.80	8.18	5.10	2.80	1.26	0.018	3.31	0.20	0.45	0.03	0.04	99.28
40388622		4.71	47.6	14.05	15.80	8.17	5.21	2.79	1.24	0.019	3.27	0.20	0.47	0.03	0.04	99.51
40388623		6.51	47.5	14.10	15.70	8.19	5.19	2.82	1.24	0.018	3.28	0.20	0.48	0.04	0.04	99.65
40388624		6.25	47.4	13.70	16.20	8.23	5.17	2.79	1.25	0.019	3.45	0.20	0.50	0.03	0.04	99.53
40388625		6.24	48.1	14.30	15.55	7.99	5.21	2.78	1.30	0.019	3.15	0.19	0.45	0.03	0.04	99.87
40388626		6.21	47.3	14.10	15.55	8.20	5.25	2.75	1.24	0.019	3.18	0.19	0.45	0.03	0.04	99.13
40388627		6.21	47.2	14.05	15.50	8.14	5.28	2.76	1.16	0.020	3.18	0.19	0.44	0.04	0.04	98.96
40388627		5.96	47.1	14.35	15.20	8.11	5.51	2.72	1.14	0.022	3.07	0.19	0.41	0.04	0.03	99.16



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**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386980		3.83	0.37	0.84	420	63.3	190	10.10	4.00	2.33	1.23	20.7	4.81	4.6	0.79	30.9
40386981		2.28	0.26	0.09	327	25.2	100	5.05	4.03	2.32	1.25	20.0	4.38	2.7	0.80	11.2
40386982		2.18	0.29	0.11	282	26.7	120	4.86	4.08	2.51	1.30	21.0	4.13	2.6	0.83	12.1
40386983		2.76	0.35	0.09	298	56.5	180	5.02	2.98	1.89	0.98	15.3	3.75	5.3	0.63	27.0
40386984		3.83	0.41	1.09	458	65.5	170	9.86	4.08	2.38	1.26	20.3	4.70	4.3	0.79	32.2
40386985		2.72	0.65	0.38	297	77.3	30	7.60	7.34	3.65	2.90	23.8	8.64	7.0	1.37	33.7
40386986		3.04	0.37	0.43	372	61.6	180	6.50	3.79	2.19	1.10	17.8	4.38	5.6	0.77	29.9
40386987		4.13	0.33	1.29	534	71.1	190	12.35	4.61	2.88	1.45	23.0	5.06	4.0	0.88	35.2
40386988		2.50	0.53	0.29	289	75.8	30	8.46	7.11	4.24	2.88	24.4	8.94	6.8	1.38	33.2
40386989		1.52	0.32	0.20	315	77.7	40	5.85	7.42	3.84	3.00	24.8	9.44	6.6	1.37	34.1
40386990		0.40	0.05	0.11	904	74.5	20	1.43	6.99	4.21	1.81	24.1	7.83	8.0	1.39	32.2
40386991		4.27	0.43	1.11	497	68.6	180	9.36	4.06	2.37	1.25	21.4	4.95	4.4	0.88	33.4
40388600		0.32	0.04	0.11	1010	72.9	10	1.44	6.51	4.00	1.74	23.1	7.55	8.4	1.28	31.9
40388601		4.01	0.32	0.97	544	73.8	200	13.90	4.35	2.84	1.34	25.7	5.60	4.1	0.95	37.1
40388602		3.73	0.18	1.05	581	67.6	180	8.81	4.95	3.02	1.40	24.3	5.51	4.1	0.91	32.8
40388603		2.62	0.02	0.46	542	76.5	50	1.54	7.16	3.99	2.72	25.4	8.80	7.0	1.41	33.6
40388604		3.23	0.16	0.30	301	63.6	70	1.04	6.29	3.51	2.49	24.8	7.86	5.6	1.27	28.0
40388605		0.89	0.01	0.04	422	35.1	90	1.64	4.84	2.58	1.48	21.1	4.98	3.0	0.89	16.1
40388606		1.01	<0.01	0.04	211	26.2	110	1.26	3.97	2.34	1.22	20.3	4.78	2.7	0.83	12.1
40388607		1.26	0.02	0.04	192.0	25.0	120	0.88	3.82	2.23	1.27	20.8	4.40	2.5	0.83	11.2
40388608		1.02	0.01	0.04	360	26.8	100	1.40	4.36	2.58	1.24	20.8	4.22	2.6	0.88	11.9
40388609		1.05	0.01	0.07	209	25.8	100	1.58	4.06	2.28	1.21	20.7	4.43	2.7	0.84	11.4
40388610		1.90	0.03	0.35	337	28.5	2560	2.61	3.70	2.15	1.28	20.6	4.09	2.7	0.70	13.5
40388611		1.15	<0.01	0.06	180.5	28.5	80	1.74	4.25	2.70	1.32	20.6	4.55	2.8	0.83	12.8
40388612		1.36	0.03	0.11	177.0	28.8	80	2.18	4.17	2.44	1.44	20.5	4.56	2.9	0.88	12.6
40388613		1.49	<0.01	0.19	431	34.5	130	2.65	4.00	2.48	1.28	21.2	4.67	2.8	0.80	16.1
40388614		1.52	<0.01	0.24	570	71.8	160	5.94	7.69	4.32	2.16	25.3	8.06	6.6	1.58	32.7
40388615		0.73	0.04	0.10	337	71.9	140	6.05	9.22	5.01	2.74	27.3	9.78	7.6	1.81	31.6
40388616		0.67	<0.01	0.10	333	70.7	140	6.11	8.64	5.10	2.49	25.8	9.43	7.8	1.65	31.1
40388617		0.99	0.01	0.08	335	71.1	140	5.73	8.74	5.03	2.48	27.1	9.45	7.4	1.75	31.7
40388618		1.50	0.01	0.07	333	72.2	140	5.16	9.06	4.97	2.56	27.0	9.52	7.7	1.81	31.8
40388619		0.48	<0.01	0.10	347	70.0	140	5.75	8.58	4.89	2.57	26.9	9.78	7.4	1.69	30.6
40388620		0.54	<0.01	0.10	344	70.6	150	5.68	8.75	4.92	2.62	26.2	9.39	7.1	1.72	31.3
40388621		0.62	0.01	0.10	338	70.4	150	5.61	8.44	4.95	2.54	25.9	9.28	7.4	1.71	30.2
40388622		0.85	0.01	0.11	341	77.8	140	5.80	9.13	4.98	2.56	26.4	9.42	7.5	1.80	33.3
40388623		0.55	<0.01	0.10	348	73.9	150	6.01	8.80	5.19	2.55	26.7	9.39	7.6	1.74	32.2
40388624		0.76	<0.01	0.11	350	68.9	150	6.35	8.31	4.62	2.38	26.5	9.18	7.3	1.71	30.7
40388625		0.83	0.01	0.09	341	70.0	150	6.26	8.69	5.11	2.49	25.6	9.36	7.3	1.61	30.6
40388626		0.96	0.01	0.10	338	67.3	160	6.56	8.47	4.77	2.21	26.2	9.63	7.3	1.73	29.7
40388627		1.27	0.01	0.13	313	62.8	180	6.69	7.83	4.47	2.28	25.8	8.16	6.8	1.57	27.4





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Project: EB80000964

**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386980		0.36	10.0	28.7	7.55	135.5	5.24	1	119.0	0.8	0.68	8.40	0.37	5.17	136	1
40386981		0.27	4.0	15.0	3.41	36.0	3.46	<1	259	0.3	0.65	1.42	0.33	0.42	310	<1
40386982		0.28	4.3	16.0	3.57	30.6	3.78	<1	270	0.3	0.67	1.69	0.33	0.53	318	<1
40386983		0.27	8.2	25.0	6.70	84.2	4.32	1	123.0	0.6	0.54	7.87	0.27	2.98	88	1
40386984		0.36	10.1	31.5	7.95	143.5	5.73	1	115.5	0.8	0.66	8.38	0.36	5.95	144	2
40386985		0.43	24.9	43.8	9.95	47.9	9.09	2	468	1.7	1.26	4.56	0.57	1.36	393	<1
40386986		0.31	9.1	27.4	7.32	96.5	4.95	2	133.0	0.7	0.61	8.22	0.32	4.16	114	1
40386987		0.42	11.0	34.2	8.82	173.5	6.26	1	110.5	0.8	0.79	9.49	0.40	6.46	167	2
40386988		0.42	25.7	43.8	9.82	47.8	8.99	2	488	1.7	1.33	4.64	0.51	1.34	420	1
40386989		0.48	25.8	43.8	10.20	43.5	9.68	2	474	1.8	1.28	4.45	0.52	1.28	424	1
40386990		0.52	14.1	42.0	9.74	105.0	8.98	2	573	0.8	1.21	5.28	0.59	1.52	131	<1
40386991		0.36	10.3	31.7	8.20	147.0	5.95	1	145.0	0.8	0.78	8.91	0.42	5.84	146	1
40388600		0.47	13.4	40.0	9.79	109.0	8.23	2	570	0.8	1.17	6.35	0.54	1.89	123	<1
40388601		0.40	11.7	35.9	9.16	192.5	6.71	1	104.5	0.8	0.80	9.67	0.44	7.07	179	2
40388602		0.41	11.0	33.2	8.79	171.0	6.75	1	122.0	0.9	0.81	9.66	0.48	7.65	173	1
40388603		0.48	25.2	43.6	10.10	57.4	9.34	1	350	1.8	1.37	4.78	0.58	1.77	415	1
40388604		0.48	19.5	35.8	8.15	32.4	7.71	1	242	1.3	1.16	3.84	0.52	1.57	394	3
40388605		0.34	5.0	19.6	4.55	50.2	4.51	<1	377	0.3	0.79	2.90	0.38	0.49	322	1
40388606		0.31	4.1	15.8	3.42	48.9	4.19	<1	431	0.3	0.65	1.65	0.34	0.96	316	<1
40388607		0.32	3.9	14.7	3.41	52.8	3.51	<1	462	0.4	0.60	1.48	0.34	0.41	308	<1
40388608		0.32	4.2	16.5	3.56	52.5	3.75	<1	425	0.3	0.70	1.65	0.33	0.45	319	<1
40388609		0.28	4.2	16.1	3.55	40.9	3.83	<1	360	0.3	0.67	1.40	0.31	0.41	314	<1
40388610		0.24	7.8	16.4	3.77	36.5	3.74	1	423	0.5	0.61	1.34	0.30	0.40	184	1
40388611		0.34	4.6	16.9	3.82	31.4	4.19	<1	334	0.3	0.71	1.56	0.34	0.44	316	<1
40388612		0.33	4.5	17.7	3.81	28.4	4.13	<1	299	0.4	0.71	1.68	0.36	0.51	316	<1
40388613		0.33	5.7	18.7	4.50	35.1	4.43	<1	294	0.4	0.73	3.18	0.34	1.48	285	1
40388614		0.56	18.7	38.1	9.11	75.6	8.65	2	258	1.3	1.20	6.18	0.64	3.18	264	1
40388615		0.67	22.6	39.6	9.21	49.8	9.12	2	277	1.6	1.54	4.41	0.75	1.58	312	1
40388616		0.69	21.8	40.1	9.13	50.2	9.48	3	265	1.6	1.54	4.48	0.69	1.57	311	1
40388617		0.65	22.4	39.5	9.39	49.7	9.26	3	277	1.6	1.59	4.39	0.73	1.48	308	1
40388618		0.68	22.2	39.6	9.21	47.8	9.35	3	289	1.5	1.48	4.37	0.73	1.55	309	1
40388619		0.69	22.5	39.8	9.17	50.2	9.33	3	279	1.6	1.50	4.39	0.70	1.59	308	1
40388620		0.68	22.5	39.8	9.28	49.9	8.84	3	274	1.5	1.49	4.64	0.71	1.51	318	1
40388621		0.65	21.9	39.2	9.01	49.3	8.93	3	273	1.5	1.44	4.52	0.68	1.50	313	1
40388622		0.63	26.5	42.7	10.15	50.1	9.99	2	281	1.5	1.55	4.90	0.75	1.55	303	1
40388623		0.70	24.0	41.3	9.69	51.1	9.68	3	274	1.6	1.52	4.44	0.73	1.58	331	1
40388624		0.62	21.8	38.6	9.02	52.8	8.83	3	279	1.5	1.48	4.58	0.71	1.63	302	1
40388625		0.62	22.0	37.9	8.97	51.9	8.84	2	281	1.5	1.44	4.25	0.70	1.54	310	1
40388626		0.59	21.2	37.4	8.85	48.8	8.67	3	276	1.4	1.39	4.24	0.70	1.47	305	1
40388627		0.55	20.3	35.9	8.19	49.2	8.49	2	289	1.4	1.28	3.99	0.64	1.40	305	1





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Project: EB80000964

**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386980		21.6	2.40	174	20.3	0.18	0.078	0.038	0.001	1.64	0.3	0.03	0.54	0.12	0.35	20.7
40386981		21.5	2.02	93	0.8	0.03	0.032	0.044	0.001	0.18	0.3	<0.01	0.25	0.08	0.12	48.7
40386982		22.1	1.95	96	2.2	0.04	0.026	0.041	0.001	0.17	0.3	<0.01	0.28	0.08	0.13	49.6
40386983		17.4	1.85	211	10.0	0.10	0.054	0.025	<0.001	0.47	<0.2	0.01	0.12	0.04	0.14	12.1
40386984		22.3	2.57	156	17.9	0.23	0.095	0.044	0.003	1.74	0.5	0.04	0.77	0.17	0.49	19.7
40386985		36.2	3.20	257	7.0	0.15	0.026	0.064	0.001	1.50	0.2	<0.01	0.44	0.10	0.12	48.6
40386986		20.0	2.32	206	11.5	0.18	0.047	0.037	0.001	1.37	0.5	0.02	0.28	0.06	0.13	15.0
40386987		24.7	2.67	146	17.6	0.27	0.071	0.041	0.003	2.15	0.4	0.03	0.72	0.17	0.51	22.3
40386988		36.6	3.42	262	2.0	0.08	0.023	0.055	0.001	0.99	0.2	0.01	0.45	0.09	0.11	51.0
40386989		36.8	3.51	261	1.8	0.06	0.010	0.047	<0.001	0.57	<0.2	<0.01	0.31	0.09	0.13	51.9
40386990		38.8	3.65	323	0.5	0.02	<0.005	0.033	0.001	0.05	<0.2	0.02	0.36	0.03	0.06	18.3
40386991		23.1	2.68	163	17.0	0.21	0.078	0.039	0.002	0.96	0.3	0.03	0.41	0.12	0.19	21.3
40388600		36.5	3.47	305	0.4	0.02	<0.005	0.032	<0.001	0.05	0.2	0.02	0.36	0.03	0.08	15.9
40388601		26.0	3.12	150	17.8	0.29	<0.005	0.045	0.004	0.60	0.4	0.04	0.75	0.15	0.45	24.0
40388602		26.4	2.76	141	12.2	0.28	0.005	0.028	0.005	0.25	0.5	0.05	0.68	0.14	0.26	25.0
40388603		36.8	3.28	259	31.5	0.07	0.005	0.053	0.001	0.44	0.5	0.01	0.31	0.18	0.16	51.6
40388604		32.9	3.05	215	7.7	0.07	0.008	0.062	0.001	0.39	0.2	0.01	0.24	0.13	0.20	54.0
40388605		24.4	2.34	103	0.5	0.03	<0.005	0.011	0.001	0.10	0.4	0.01	0.16	0.08	0.13	50.1
40388606		22.0	2.26	95	1.1	0.03	<0.005	0.010	0.001	0.08	0.2	<0.01	0.16	0.08	0.11	50.6
40388607		21.4	2.17	91	2.4	0.03	<0.005	0.010	0.001	0.08	0.3	<0.01	0.13	0.11	0.13	48.8
40388608		22.1	2.04	97	1.8	0.02	<0.005	0.010	0.001	0.07	0.3	0.01	0.13	0.10	0.14	50.8
40388609		22.0	2.27	95	6.2	0.03	<0.005	0.009	0.001	0.09	0.3	0.01	0.20	0.09	0.13	49.5
40388610		19.5	1.84	107	5.0	0.16	0.008	0.034	0.003	0.44	1.0	0.07	0.45	0.47	0.26	62.3
40388611		23.0	2.20	102	10.3	0.02	<0.005	0.009	0.001	0.11	0.2	0.01	0.20	0.10	0.17	51.6
40388612		23.7	2.16	104	10.9	0.02	<0.005	0.012	0.001	0.14	0.3	0.02	0.21	0.10	0.18	50.3
40388613		22.5	2.19	108	8.5	0.02	<0.005	0.018	0.001	0.13	0.2	0.02	0.29	0.13	0.20	44.1
40388614		39.0	3.90	259	5.4	0.03	<0.005	0.029	0.002	0.12	0.3	0.01	0.42	0.10	0.12	38.3
40388615		45.7	4.53	315	2.6	0.03	<0.005	0.033	0.001	0.12	0.5	<0.01	0.40	0.10	0.15	45.0
40388616		44.5	4.43	309	2.8	0.03	<0.005	0.032	0.001	0.13	0.3	0.01	0.45	0.10	0.15	46.8
40388617		44.6	4.35	307	2.8	0.03	<0.005	0.029	0.001	0.15	0.2	<0.01	0.39	0.09	0.14	45.5
40388618		45.7	4.35	310	3.4	0.03	0.005	0.035	0.001	0.16	0.4	0.01	0.29	0.10	0.13	45.4
40388619		45.3	4.57	308	3.2	0.03	<0.005	0.032	0.001	0.15	0.2	0.01	0.29	0.09	0.13	45.9
40388620		45.1	4.33	308	3.1	0.03	<0.005	0.029	0.001	0.14	0.3	0.01	0.31	0.12	0.15	47.2
40388621		44.5	4.53	303	2.8	0.03	<0.005	0.029	0.001	0.15	0.2	0.01	0.33	0.14	0.14	46.4
40388622		44.4	4.47	308	3.3	0.03	0.005	0.029	0.001	0.18	0.2	0.01	0.34	0.13	0.15	46.8
40388623		46.4	4.50	316	3.4	0.03	<0.005	0.030	0.001	0.15	0.3	0.01	0.32	0.09	0.14	48.0
40388624		43.6	4.34	299	4.4	0.03	<0.005	0.030	0.001	0.17	0.5	0.01	0.37	0.10	0.16	46.3
40388625		43.7	4.20	299	4.1	0.03	0.006	0.027	0.001	0.15	0.2	0.01	0.40	0.10	0.14	46.1
40388626		43.3	4.19	294	5.3	0.02	0.007	0.028	0.001	0.16	0.2	0.01	0.42	0.11	0.14	48.4
40388627		40.5	3.95	277	6.0	0.02	0.009	0.026	0.001	0.16	0.2	0.01	0.51	0.13	0.15	49.2



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**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386980		50.5	77.2	4.00	78.7	16.1	19.9	142	0.002	0.0014	0.002
40386981		180.5	22.9	0.57	77.4	2.8	33.3	98	0.005	0.0057	0.018
40386982		175.0	23.2	0.62	73.8	2.7	34.3	99	0.005	0.0056	0.018
40386983		23.4	62.9	1.08	48.4	8.6	12.8	83	<0.001	0.0009	0.001
40386984		70.2	66.7	5.90	79.9	16.7	18.8	169	0.002	0.0013	0.002
40386985		248	19.3	1.72	64.5	6.3	26.2	137	0.004	0.0028	0.010
40386986		42.8	53.4	2.52	59.1	10.3	15.6	99	0.001	0.0012	0.001
40386987		69.7	63.4	5.41	91.8	16.0	22.0	184	0.002	0.0016	0.002
40386988		263	19.1	1.57	70.9	5.6	27.1	142	0.004	0.0065	0.013
40386989		262	14.1	1.59	78.0	5.2	27.7	149	0.004	0.0030	0.010
40386990		18.5	18.4	0.68	13.3	11.1	15.8	87	<0.001	<0.0005	0.001
40386991		53.4	72.3	3.92	80.0	16.2	20.5	134	0.001	0.0013	0.002
40388600		19.3	18.4	0.71	11.3	11.0	14.9	88	<0.001	<0.0005	0.001
40388601		82.4	62.9	5.92	93.9	16.8	24.0	192	0.001	0.0014	0.002
40388602		94.1	66.4	8.22	100.5	13.7	23.6	137	<0.001	0.0015	0.002
40388603		268	48.5	1.85	82.9	5.1	27.2	170	<0.001	0.0027	0.011
40388604		294	57.9	1.87	80.5	6.7	31.1	158	<0.001	0.0033	0.013
40388605		189.0	20.5	0.63	78.8	3.0	32.9	110	0.004	0.0060	0.019
40388606		175.0	24.6	0.57	79.0	2.4	33.9	99	0.003	0.0058	0.018
40388607		175.5	30.7	0.55	80.3	6.2	33.3	104	0.002	0.0056	0.016
40388608		189.0	25.5	0.57	80.0	2.6	34.1	108	0.003	0.0068	0.018
40388609		179.0	23.5	0.62	80.1	3.0	33.3	104	0.003	0.0060	0.018
40388610		1080	36.4	2.76	674	6.0	17.7	105	0.021	0.0443	0.197
40388611		189.0	25.7	0.63	80.8	5.6	34.1	118	0.005	0.0055	0.018
40388612		187.5	29.3	0.68	74.8	5.6	33.5	120	0.004	0.0055	0.018
40388613		170.5	44.6	1.58	76.5	9.2	31.7	126	0.004	0.0043	0.014
40388614		232	52.2	3.04	85.9	9.1	30.3	131	0.002	0.0038	0.003
40388615		289	20.0	1.68	85.7	6.3	32.9	146	0.003	0.0046	0.004
40388616		292	20.0	1.66	90.1	6.5	33.0	148	0.002	0.0046	0.003
40388617		284	22.0	1.66	89.9	6.3	32.6	146	0.003	0.0045	0.003
40388618		295	24.5	1.64	92.0	6.3	32.7	151	0.003	0.0044	0.004
40388619		292	20.5	1.70	92.0	6.1	32.9	147	0.002	0.0043	0.003
40388620		295	20.3	1.74	93.7	6.1	33.4	152	0.002	0.0043	0.003
40388621		296	21.1	1.62	97.0	6.0	32.4	152	0.003	0.0055	0.004
40388622		297	23.2	1.76	94.9	6.6	33.6	153	0.002	0.0060	0.004
40388623		304	21.0	1.71	92.4	6.2	34.5	151	0.002	0.0040	0.003
40388624		291	24.1	1.69	99.3	6.4	31.7	152	0.002	0.0044	0.003
40388625		295	22.2	1.64	98.2	5.9	32.6	148	0.002	0.0049	0.004
40388626		291	23.7	1.64	102.0	5.8	32.7	148	0.002	0.0047	0.004
40388627		294	26.6	1.53	112.0	5.5	31.4	146	0.003	0.0056	0.004



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Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40388628		5.97	47.2	14.50	15.20	8.13	5.50	2.72	1.16	0.022	3.01	0.19	0.41	0.04	0.03	99.41
40388629		6.35	47.2	14.30	15.55	8.05	5.52	2.69	1.29	0.021	3.18	0.20	0.43	0.04	0.04	99.88

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



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 Account: RTEICKBZ

Project: EB80000964

**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40388628		1.30	0.01	0.12	322	61.5	180	6.62	7.81	4.38	2.26	25.9	8.27	6.7	1.57	26.8
40388629		1.37	0.01	0.12	335	63.7	170	6.86	8.18	4.75	2.41	26.3	8.86	7.0	1.66	27.8



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Project: EB80000964

**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40388628		0.58	19.9	34.1	8.20	50.7	8.40	3	299	1.3	1.31	3.86	0.62	1.31	302	1
40388629		0.59	21.0	35.6	8.25	54.6	9.03	2	302	1.4	1.37	4.13	0.66	1.36	312	1





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**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388628		40.1	3.77	267	7.3	0.02	0.012	0.030	0.001	0.17	0.4	0.01	0.45	0.13	0.15	48.6
40388629		41.0	4.14	283	7.3	0.02	0.011	0.027	0.001	0.15	<0.2	0.01	0.48	0.13	0.17	48.4

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



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**CERTIFICATE OF ANALYSIS TB18253991**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40388628		296	26.1	1.38	112.5	5.3	30.5	148	0.002	0.0056	0.004
40388629		301	27.0	1.83	109.5	7.9	31.7	158	0.003	0.0053	0.004



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**CERTIFICATE OF ANALYSIS TB18253991**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REE's may not be totally soluble in this method.  
 ME-MS61

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-32	PUL-QC	SPL-22	SPL-22X
	WEI-21			
	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
Applies to Method:	C-IR07	ME-ICP06	ME-MS42	ME-MS61
	ME-MS81	OA-GRA05	PGM-MS24	S-IR08
	TOT-ICP06			



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**CERTIFICATE TB18253986**

Project: EB80000965  
 P.O. No.: 3103290934  
 This report is for 69 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 9-OCT-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
--	-----------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40388630		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40388631		2.28	57.7	18.35	6.96	6.09	2.36	3.82	2.54	0.004	0.85	0.11	0.25	0.07	0.11	99.62
40388632		6.23	46.3	14.20	15.85	8.09	5.48	2.81	1.27	0.021	3.28	0.20	0.44	0.04	0.04	99.02
40388633		6.03	46.2	14.00	16.00	8.13	5.47	2.73	1.29	0.020	3.33	0.20	0.45	0.03	0.04	99.04
40388634		6.38	45.8	14.00	15.90	8.01	5.45	2.78	1.29	0.020	3.33	0.20	0.45	0.04	0.04	98.31
40388635		6.42	45.9	13.85	15.75	8.11	5.56	2.72	1.23	0.019	3.23	0.20	0.45	0.04	0.04	98.45
40388636		6.40	46.8	14.25	16.05	8.14	5.41	2.81	1.32	0.019	3.33	0.20	0.46	0.04	0.04	99.62
40388637		6.34	47.0	14.20	16.20	8.10	5.38	2.81	1.36	0.019	3.41	0.20	0.47	0.04	0.04	100.04
40388638		6.18	47.6	14.55	16.65	7.90	5.60	2.65	1.35	0.020	3.34	0.20	0.46	0.04	0.05	101.72
40388639		6.24	47.7	14.10	15.85	7.59	5.39	2.66	1.56	0.020	3.32	0.21	0.47	0.04	0.06	100.31
40388640		6.16	45.9	14.00	15.95	7.36	5.29	2.61	1.20	0.018	3.27	0.20	0.45	0.03	0.04	98.43
40388641		0.17	43.8	18.80	12.35	9.19	7.47	2.08	1.06	0.347	1.31	0.14	0.15	0.05	0.04	98.68
40388642		4.88	49.2	15.35	15.00	5.12	4.29	2.31	1.86	0.020	2.50	0.14	0.35	0.02	0.04	98.96
40388643		7.48	55.3	17.70	11.65	0.50	3.14	1.36	3.76	0.024	0.74	0.03	0.11	0.01	0.06	99.84
40388644		12.27	56.2	17.85	11.35	0.52	3.15	1.30	4.19	0.024	0.75	0.03	0.10	0.02	0.06	100.99
40388645		11.60	53.9	16.75	11.70	0.64	3.02	1.35	3.97	0.022	0.70	0.02	0.09	0.02	0.06	98.29
40388646		11.66	55.8	16.70	10.95	1.27	3.09	1.63	3.85	0.022	0.70	0.03	0.11	0.02	0.06	100.92
40388647		12.26	55.9	15.40	11.25	2.54	3.23	1.56	3.39	0.017	0.60	0.04	0.10	0.02	0.05	100.92
40388648		11.64	60.0	15.20	8.40	2.29	2.88	1.57	3.22	0.012	0.56	0.03	0.10	0.01	0.05	100.69
40388649		11.28	62.8	14.75	6.74	1.23	2.66	1.91	3.00	0.014	0.58	0.04	0.12	0.02	0.05	100.18
40388650		4.65	64.7	14.00	5.31	1.35	2.36	2.18	2.66	0.010	0.53	0.03	0.13	0.02	0.05	99.90
40388651		4.80	63.8	14.80	5.17	1.30	2.34	2.15	2.95	0.008	0.54	0.03	0.11	0.02	0.05	99.78
40388652		4.21	62.7	14.45	6.35	1.61	2.50	2.41	2.56	0.010	0.62	0.04	0.13	0.02	0.05	100.46
40388653		4.07	50.9	14.80	13.90	9.02	5.82	2.60	0.70	0.012	1.30	0.19	0.13	0.04	0.03	100.38
40388654		5.05	51.5	14.80	13.85	9.56	6.05	2.45	0.57	0.014	1.26	0.19	0.13	0.03	0.02	101.23
40388655		5.23	64.2	14.85	5.54	2.23	2.88	1.72	3.09	0.004	0.64	0.06	0.21	0.02	0.07	100.61
40388656		11.49	63.9	14.80	4.46	2.46	2.94	1.45	3.64	0.008	0.56	0.04	0.13	0.02	0.07	100.59
40388657		11.42	63.2	14.80	5.04	3.06	3.15	1.75	3.59	0.015	0.64	0.04	0.15	0.02	0.08	100.81
40388658		12.11	59.4	14.50	6.81	4.51	2.59	1.79	3.77	0.017	0.65	0.04	0.15	0.02	0.08	100.19
40388659		11.51	64.5	15.55	5.20	1.24	2.32	2.06	4.67	0.023	0.75	0.03	0.16	0.02	0.09	101.70
40388660		10.19	62.2	16.10	5.54	0.94	2.38	1.96	4.71	0.022	0.76	0.03	0.15	0.02	0.09	99.78
40388661		1.71	56.9	18.40	7.45	6.07	2.56	3.71	2.48	0.003	0.93	0.10	0.26	0.07	0.11	99.38
40388662		7.89	61.5	16.35	6.42	1.16	2.58	1.93	4.83	0.023	0.80	0.03	0.15	0.02	0.09	100.88
40388663		7.16	45.9	16.20	13.60	9.76	7.37	2.35	0.28	0.030	1.59	0.17	0.14	0.03	0.01	98.81
40388664		6.19	46.1	15.90	13.75	9.74	7.67	2.28	0.37	0.030	1.60	0.18	0.15	0.03	0.01	99.24
40388665		5.08	46.7	16.20	13.75	9.92	7.50	2.34	0.30	0.029	1.60	0.17	0.15	0.03	0.01	100.22
40388666		6.77	59.4	16.30	7.31	2.97	3.31	1.95	4.06	0.025	0.96	0.07	0.16	0.02	0.07	100.78
40388667		11.64	57.8	14.65	5.58	4.32	2.31	1.75	4.57	0.021	0.72	0.04	0.15	0.02	0.07	99.43
40388668		7.10	63.5	12.60	3.67	5.06	1.63	0.72	5.34	0.025	0.47	0.03	0.12	0.02	0.07	99.16
40388669		5.78	46.9	12.85	17.00	7.19	4.21	2.65	1.03	0.005	3.45	0.19	0.37	0.06	0.03	98.04
40388670		8.23	67.3	13.65	4.20	0.73	1.89	0.90	5.49	0.010	0.52	0.02	0.10	0.01	0.07	99.28





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**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40388630		0.41	0.06	0.11	918	63.6	30	1.18	7.17	3.51	1.71	24.4	7.89	8.1	1.24	27.5
40388631		1.00	0.01	0.09	327	60.6	170	6.19	8.46	4.41	2.40	24.8	8.89	7.2	1.62	26.1
40388632		1.15	0.01	0.10	322	61.9	170	6.91	9.21	4.41	2.57	24.7	9.74	7.4	1.70	26.8
40388633		1.00	0.02	0.11	328	60.9	160	6.00	8.72	4.56	2.40	24.9	9.36	6.8	1.72	26.7
40388634		1.35	0.02	0.08	321	61.1	160	5.26	8.43	4.44	2.48	25.2	8.84	7.6	1.49	26.0
40388635		0.75	0.02	0.10	333	61.3	160	5.34	8.79	4.76	2.61	26.7	9.23	7.3	1.61	26.5
40388636		0.81	0.02	0.10	353	63.1	160	5.66	9.58	5.25	2.61	25.9	9.44	7.4	1.69	27.6
40388637		1.31	0.12	0.13	440	70.8	160	7.18	9.02	4.75	2.84	27.3	9.69	7.9	1.76	31.0
40388638		1.34	0.02	0.12	597	74.8	150	7.32	9.39	5.48	2.68	33.8	10.10	10.4	1.82	32.5
40388639		2.11	0.12	0.19	426	71.9	140	5.07	9.41	4.85	2.59	27.1	9.42	7.5	1.71	32.1
40388640		1.89	0.04	0.33	355	27.8	2500	2.70	3.76	2.30	1.40	23.9	3.84	2.8	0.73	12.6
40388641		2.76	0.26	1.62	404	70.5	160	4.90	8.19	4.33	2.28	27.1	8.47	6.5	1.53	32.6
40388642		5.46	0.82	3.75	610	70.8	190	5.22	5.69	3.35	1.47	27.7	6.11	4.3	1.08	37.1
40388643		5.45	1.01	3.62	601	72.3	190	8.32	5.42	3.23	1.52	27.2	6.52	4.1	1.11	37.4
40388644		6.05	1.54	4.27	571	72.2	180	7.36	5.71	3.35	1.66	24.8	6.30	4.0	1.12	36.7
40388645		6.69	2.21	3.86	568	74.3	170	6.25	6.41	3.66	1.54	25.1	6.33	4.5	1.15	38.9
40388646		6.82	1.99	4.39	478	75.7	130	5.21	6.05	3.72	1.48	24.8	6.53	5.2	1.11	39.2
40388647		6.37	1.92	3.26	452	85.4	100	5.29	6.23	4.07	1.28	23.3	6.86	6.1	1.23	44.5
40388648		6.27	2.52	2.25	464	91.1	100	5.35	6.20	3.90	1.51	21.7	6.78	5.9	1.20	49.6
40388649		6.57	3.19	1.66	431	96.1	80	8.49	5.69	3.46	1.41	19.9	6.64	5.4	1.10	50.9
40388650		6.51	3.00	1.63	473	91.1	70	9.48	6.20	3.63	1.54	21.8	6.29	6.2	1.16	48.1
40388651		7.01	3.72	1.69	465	75.5	80	8.28	5.24	3.36	1.40	20.4	5.86	5.4	1.02	40.2
40388652		0.94	0.05	0.13	313	28.3	110	2.50	4.69	2.55	1.48	23.4	4.50	3.0	0.92	12.5
40388653		0.81	0.06	0.11	228	26.1	110	2.60	4.49	2.58	1.28	22.7	4.46	2.9	0.84	11.9
40388654		5.10	1.33	1.14	631	89.6	30	8.42	7.69	4.80	2.12	23.0	8.16	6.4	1.54	45.7
40388655		6.11	1.98	0.77	632	96.1	70	11.60	5.75	3.47	1.52	21.2	6.25	6.1	1.10	51.1
40388656		5.27	1.55	0.67	745	86.1	120	10.45	5.87	3.30	1.29	22.6	6.37	5.4	1.15	44.2
40388657		5.86	1.92	1.76	815	84.1	140	10.40	5.67	3.59	1.38	21.6	5.95	5.5	1.08	43.4
40388658		5.09	1.82	0.83	893	75.2	170	11.90	4.91	2.83	1.18	22.9	5.19	5.5	0.91	39.4
40388659		4.88	1.58	0.47	879	78.5	180	12.30	4.58	2.49	1.30	24.6	5.40	4.9	0.91	39.9
40388660		0.34	0.06	0.10	1105	71.1	20	1.49	6.54	3.66	1.94	24.7	7.29	8.5	1.26	30.8
40388661		5.00	2.01	0.83	841	72.9	180	12.00	4.76	2.90	1.36	23.7	5.33	5.0	0.92	38.3
40388662		1.38	0.08	0.18	103.5	28.7	240	2.78	5.02	2.46	1.50	23.0	4.33	3.1	0.88	12.8
40388663		1.43	0.03	0.06	127.0	27.1	230	3.89	4.90	2.59	1.49	21.9	4.90	3.3	0.93	12.0
40388664		1.52	0.07	0.09	102.0	28.1	230	3.39	4.73	2.55	1.49	22.4	4.62	3.1	0.91	12.2
40388665		4.17	1.41	0.35	679	68.0	190	10.30	5.06	3.14	1.53	23.8	5.37	4.8	1.00	34.7
40388666		7.43	3.52	0.68	713	73.1	160	13.05	4.59	2.88	1.36	21.0	5.26	4.6	0.91	37.0
40388667		5.90	2.05	0.85	711	93.2	200	16.30	5.28	3.12	1.09	18.9	5.99	5.4	1.10	44.4
40388668		2.10	0.30	0.08	282	77.4	40	7.71	7.65	4.17	3.00	27.2	9.52	7.4	1.44	33.8
40388669		4.39	1.57	0.50	659	105.0	80	16.15	7.94	4.88	1.45	21.9	7.89	7.4	1.58	50.3



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Project: EB80000965

**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
	Analyte	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40388630		0.48	13.1	37.7	8.57	102.5	7.76	2	543	0.7	0.98	4.55	0.46	1.53	126	<1
40388631		0.62	21.6	37.7	8.28	50.1	8.44	2	289	1.3	1.34	3.82	0.60	1.24	320	1
40388632		0.62	22.3	37.7	8.21	53.1	8.34	2	277	1.3	1.31	3.89	0.61	1.21	323	1
40388633		0.53	22.5	38.1	8.56	47.8	7.95	2	281	1.3	1.19	4.16	0.61	1.27	311	1
40388634		0.54	21.6	36.7	8.09	46.5	8.38	2	277	1.3	1.36	4.00	0.61	1.09	308	1
40388635		0.61	22.6	37.5	8.36	49.7	8.01	2	287	1.3	1.39	4.21	0.65	1.20	313	1
40388636		0.55	22.5	39.9	8.33	53.2	8.87	3	300	1.2	1.28	4.26	0.65	1.28	328	1
40388637		0.62	22.6	39.4	9.42	60.4	9.56	2	331	1.5	1.52	4.45	0.70	1.61	315	1
40388638		0.68	22.1	41.5	9.57	80.2	9.85	3	344	1.6	1.50	4.53	0.73	1.73	313	1
40388639		0.65	23.0	40.6	9.50	49.8	9.08	3	286	1.6	1.50	4.62	0.69	1.56	315	1
40388640		0.26	8.0	16.3	3.71	36.8	3.36	1	421	0.7	0.64	1.40	0.31	0.38	184	1
40388641		0.69	19.5	37.6	9.02	80.8	7.97	2	215	1.4	1.46	6.19	0.61	6.84	293	1
40388642		0.53	11.4	35.5	9.29	168.5	7.44	1	128.5	1.0	0.87	9.47	0.52	17.90	282	2
40388643		0.54	11.2	35.0	9.30	193.5	7.01	1	138.0	0.9	0.97	9.56	0.48	16.90	253	2
40388644		0.52	10.6	35.3	9.41	172.5	7.10	1	149.0	0.9	0.95	9.19	0.53	19.05	260	2
40388645		0.60	11.2	37.4	9.76	167.0	7.27	2	167.0	0.9	0.97	10.35	0.54	23.1	307	3
40388646		0.59	13.0	36.7	9.75	149.5	7.40	3	154.0	1.0	0.99	11.10	0.56	13.95	249	2
40388647		0.58	16.0	39.3	10.60	141.0	7.64	2	139.0	1.3	1.02	13.25	0.56	16.50	224	3
40388648		0.62	15.5	42.7	11.20	127.0	8.11	2	148.0	1.2	1.03	12.70	0.57	17.70	273	2
40388649		0.55	18.7	42.4	11.80	112.0	8.56	2	160.5	1.1	0.96	12.95	0.50	17.85	295	3
40388650		0.59	17.7	41.2	10.95	122.5	7.89	2	164.0	1.4	0.99	15.25	0.52	18.10	284	2
40388651		0.52	14.2	35.8	9.73	104.0	6.80	1	185.5	1.1	0.90	11.50	0.49	21.6	353	2
40388652		0.32	4.7	16.4	3.73	27.9	4.08	1	310	0.4	0.74	1.55	0.35	0.57	342	<1
40388653		0.30	4.5	15.6	3.35	24.1	3.94	1	290	0.5	0.70	1.51	0.35	0.51	330	<1
40388654		0.72	16.9	41.8	10.70	108.5	8.53	2	168.0	1.2	1.21	10.65	0.74	11.75	143	2
40388655		0.55	16.6	42.3	11.60	131.0	7.72	2	152.0	1.2	0.92	14.10	0.48	12.55	222	2
40388656		0.52	14.8	40.0	10.75	132.5	7.05	3	152.0	1.2	0.99	14.00	0.45	11.30	214	2
40388657		0.53	13.4	39.1	10.30	139.0	7.36	2	146.0	1.1	0.98	12.45	0.50	11.80	232	2
40388658		0.39	12.5	35.9	9.22	159.5	6.43	2	141.0	1.0	0.81	12.00	0.38	11.90	221	2
40388659		0.40	12.9	37.1	9.87	157.5	6.76	2	143.5	1.1	0.74	11.70	0.41	8.24	195	1
40388660		0.45	14.3	38.1	9.22	101.5	8.34	2	568	0.8	1.10	4.66	0.55	1.65	130	<1
40388661		0.40	12.8	34.7	9.29	152.5	6.84	1	163.5	1.0	0.83	11.65	0.43	10.50	247	2
40388662		0.37	9.3	17.3	3.95	9.7	4.31	1	265	0.8	0.70	1.08	0.35	0.33	270	<1
40388663		0.32	9.4	16.9	3.69	15.6	4.24	1	257	0.8	0.77	1.05	0.36	0.28	267	<1
40388664		0.34	9.5	17.5	3.73	10.8	4.32	1	262	0.8	0.77	1.15	0.37	0.32	263	<1
40388665		0.44	12.4	33.3	8.58	128.5	6.70	1	187.0	1.0	0.82	9.71	0.43	10.75	258	2
40388666		0.41	11.6	34.6	9.12	157.0	6.66	1	165.0	1.0	0.81	10.75	0.36	14.20	266	2
40388667		0.45	14.1	40.0	11.05	186.0	7.38	2	135.5	1.1	0.89	11.90	0.45	10.30	168	1
40388668		0.49	27.1	43.1	10.20	42.1	9.69	2	500	1.9	1.34	4.32	0.53	1.38	420	1
40388669		0.73	18.1	47.2	12.45	186.0	8.43	2	107.0	1.3	1.25	14.55	0.69	9.55	147	2



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**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388630		35.8	3.73	314	0.4	0.02	<0.005	0.033	0.001	0.13	0.3	0.01	0.31	0.03	0.06	16.7
40388631		44.0	4.38	298	4.5	0.03	0.012	0.028	0.001	0.14	0.4	<0.01	0.35	0.10	0.15	52.7
40388632		45.6	4.11	301	5.1	0.02	0.017	0.027	<0.001	0.13	<0.2	0.01	0.44	0.10	0.14	50.6
40388633		45.3	4.25	298	4.6	0.03	0.023	0.030	0.002	0.11	0.2	0.02	0.39	0.10	0.16	49.4
40388634		44.6	4.49	292	3.7	0.02	0.023	0.030	0.001	0.12	0.2	0.01	0.32	0.09	0.14	49.9
40388635		45.5	4.34	301	3.1	0.03	0.016	0.033	0.001	0.12	0.3	<0.01	0.31	0.09	0.13	49.3
40388636		46.9	4.52	310	4.0	0.03	0.033	0.028	0.001	0.10	0.4	<0.01	0.40	0.12	0.15	48.2
40388637		45.1	4.49	313	5.4	0.03	0.050	0.029	0.001	0.11	0.3	<0.01	0.60	0.10	0.20	54.0
40388638		47.6	4.75	445	7.0	0.04	0.058	0.031	0.002	0.12	0.5	0.01	0.59	0.12	0.22	49.8
40388639		45.5	4.42	319	7.2	0.04	0.075	0.040	0.002	0.16	0.7	0.01	0.46	0.13	0.19	51.2
40388640		19.4	1.76	112	4.1	0.15	0.012	0.031	0.003	0.27	1.0	0.06	0.44	0.51	0.25	67.0
40388641		41.1	4.18	269	17.4	0.10	0.101	0.051	0.007	0.64	0.4	0.03	0.64	0.29	1.19	45.4
40388642		31.7	3.32	150	37.9	0.33	0.204	0.059	0.022	1.43	1.6	0.07	1.09	0.52	2.56	30.3
40388643		31.7	3.56	151	142.5	0.33	0.095	0.058	0.016	1.12	1.4	0.08	1.35	0.41	1.30	31.1
40388644		30.8	3.60	146	29.6	0.57	0.111	0.042	0.020	2.27	2.1	0.10	1.62	0.47	1.31	30.0
40388645		34.8	3.84	157	68.6	0.63	0.231	0.062	0.029	3.12	2.5	0.14	1.02	0.81	2.40	27.0
40388646		33.2	3.87	192	25.5	0.65	0.282	0.128	0.030	2.86	1.5	0.09	0.81	0.76	3.06	24.0
40388647		35.8	4.38	230	59.3	0.74	0.226	0.120	0.026	2.41	1.4	0.09	0.56	0.72	2.94	16.5
40388648		35.5	3.96	228	62.1	0.48	0.242	0.108	0.025	1.73	1.7	0.11	0.30	0.85	3.83	15.8
40388649		32.3	3.73	207	55.7	0.75	0.319	0.127	0.030	2.22	2.6	0.14	0.37	1.26	5.09	12.6
40388650		34.5	3.83	235	55.3	0.70	0.331	0.122	0.030	2.45	2.2	0.13	0.39	1.16	5.18	12.2
40388651		30.9	3.42	193	75.2	0.56	0.449	0.139	0.030	2.37	3.7	0.18	0.47	1.44	6.91	15.2
40388652		23.8	2.27	110	4.0	0.04	0.019	0.014	0.002	0.49	0.2	<0.01	0.39	0.13	0.15	53.1
40388653		22.3	2.16	105	1.6	0.03	0.010	0.010	0.002	0.39	0.2	0.01	0.35	0.09	0.15	54.5
40388654		44.0	4.79	252	42.8	0.37	0.200	0.113	0.014	1.51	1.6	0.08	0.26	0.79	3.90	8.7
40388655		31.7	3.44	232	32.8	0.68	0.375	0.106	0.024	4.58	5.5	0.15	0.30	2.31	10.70	10.2
40388656		32.8	3.51	210	28.5	0.53	0.194	0.067	0.014	4.36	3.2	0.10	0.25	1.43	6.20	13.4
40388657		33.0	3.67	203	39.4	0.44	0.205	0.058	0.015	4.34	2.4	0.06	0.32	1.42	6.22	15.1
40388658		24.3	2.63	212	15.6	0.33	0.060	0.047	0.012	1.68	0.9	0.05	0.21	0.43	0.99	14.9
40388659		24.5	2.74	198	13.3	0.34	0.047	0.052	0.011	0.57	0.8	0.04	0.17	0.34	0.60	14.7
40388660		34.2	3.23	346	0.6	0.02	<0.005	0.030	<0.001	<0.05	<0.2	0.02	0.31	0.04	0.09	18.9
40388661		25.9	2.71	186	16.6	0.28	0.060	0.046	0.014	1.14	0.8	0.03	0.25	0.56	0.89	18.1
40388662		24.1	2.31	119	0.4	0.01	0.016	0.025	<0.001	0.05	0.3	0.01	0.18	0.06	0.10	60.7
40388663		24.4	2.40	119	0.3	0.01	0.019	0.016	<0.001	<0.05	<0.2	<0.01	0.18	0.07	0.10	59.1
40388664		24.5	2.32	119	0.6	0.02	0.036	0.017	0.001	0.29	0.2	<0.01	0.27	0.06	0.10	58.7
40388665		27.0	2.83	182	12.8	0.21	0.106	0.045	0.011	5.77	0.8	0.03	0.43	0.43	1.27	24.0
40388666		27.2	2.78	173	24.4	0.31	0.158	0.045	0.014	1.40	1.4	0.06	0.16	0.67	2.03	16.1
40388667		29.5	2.80	200	17.4	0.30	0.065	0.048	0.007	1.24	0.9	0.07	0.38	0.35	0.58	11.1
40388668		36.7	3.21	280	2.8	0.06	0.024	0.050	<0.001	0.26	0.3	<0.01	0.26	0.10	0.11	53.2
40388669		41.7	4.57	262	18.5	0.39	0.061	0.068	0.010	0.79	1.5	0.08	0.26	0.48	0.52	11.9



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**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40388630		20.7	17.4	0.82	13.7	12.1	15.2	87	0.003	0.0005	0.001
40388631		310	23.3	1.61	115.0	5.8	34.7	157	0.005	0.0055	0.004
40388632		295	21.3	1.59	109.5	6.1	34.6	152	0.005	0.0052	0.004
40388633		289	21.4	1.51	108.0	6.0	32.8	154	0.005	0.0052	0.004
40388634		291	23.4	1.58	105.0	6.1	33.8	151	0.005	0.0053	0.004
40388635		295	20.3	1.57	106.5	6.1	33.5	153	0.008	0.0049	0.004
40388636		295	21.0	1.87	98.7	6.9	33.7	155	0.004	0.0046	0.004
40388637		335	26.2	1.74	117.0	6.7	36.9	177	0.015	0.0047	0.004
40388638		311	27.4	1.71	105.5	9.6	35.0	166	0.005	0.0048	0.004
40388639		320	27.8	1.73	99.7	7.5	36.5	170	0.005	0.0047	0.004
40388640		1130	37.6	3.08	723	6.4	19.6	113	0.020	0.0473	0.213
40388641		279	44.0	8.42	129.5	16.8	33.5	313	0.005	0.0038	0.003
40388642		133.0	75.6	21.0	167.0	37.8	26.3	509	0.005	0.0023	0.003
40388643		134.0	78.3	20.1	150.0	36.0	27.1	345	0.005	0.0023	0.003
40388644		160.5	66.9	24.6	149.5	43.6	24.5	277	0.003	0.0028	0.004
40388645		191.0	79.2	32.7	174.5	54.4	24.6	392	0.004	0.0028	0.005
40388646		171.5	72.8	29.9	157.0	61.2	20.9	588	0.003	0.0023	0.003
40388647		149.5	55.9	26.9	127.5	50.2	17.8	417	0.003	0.0020	0.003
40388648		159.5	54.0	29.0	132.5	38.1	17.8	446	0.005	0.0025	0.003
40388649		150.5	48.9	31.7	128.5	58.2	14.6	629	0.008	0.0028	0.004
40388650		145.5	52.5	31.0	122.5	52.2	15.0	620	0.006	0.0023	0.003
40388651		141.5	56.6	32.5	117.0	54.1	17.0	990	0.007	0.0023	0.004
40388652		185.5	20.6	0.80	81.9	3.8	33.4	106	0.005	0.0055	0.016
40388653		180.0	18.2	0.88	92.8	3.6	35.9	109	0.005	0.0056	0.016
40388654		74.1	47.6	14.65	47.2	43.8	14.0	579	0.005	0.0012	0.002
40388655		229	51.8	20.2	68.1	61.9	13.5	954	0.011	0.0027	0.004
40388656		180.5	56.8	13.15	75.1	41.3	15.6	636	0.009	0.0028	0.004
40388657		155.5	51.1	14.65	93.0	50.1	16.7	703	0.008	0.0024	0.003
40388658		81.2	47.7	10.10	85.9	24.1	19.6	177	0.003	0.0021	0.003
40388659		73.0	50.5	6.06	77.7	19.2	20.1	151	0.009	0.0017	0.002
40388660		18.9	19.5	0.95	16.9	11.8	14.3	90	0.001	0.0011	0.002
40388661		112.5	63.0	10.60	107.5	23.8	21.1	175	0.005	0.0023	0.003
40388662		140.5	22.7	0.57	190.0	2.1	31.4	105	0.002	0.0026	0.004
40388663		137.5	25.6	0.55	186.5	1.8	32.5	104	0.003	0.0025	0.004
40388664		136.0	22.1	0.56	186.5	1.8	31.6	105	0.002	0.0026	0.004
40388665		127.0	63.7	12.00	109.0	21.4	22.6	210	0.004	0.0025	0.004
40388666		136.0	57.8	18.40	94.6	30.1	19.4	257	0.007	0.0030	0.004
40388667		120.0	47.9	7.02	43.3	22.7	12.8	141	0.005	0.0025	0.004
40388668		255	19.5	1.54	75.2	5.7	29.1	150	0.005	0.0024	0.011
40388669		233	51.9	9.20	48.1	31.8	14.2	160	0.008	0.0036	0.006





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Project: EB80000965

**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40388670		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40388670		0.17	44.5	19.00	12.50	9.30	7.58	2.10	1.08	0.349	1.32	0.14	0.16	0.05	0.04	99.96
40388671		8.22	72.5	12.30	3.13	1.36	1.67	0.43	4.69	0.005	0.41	0.02	0.09	0.01	0.05	100.29
40388672		5.58	45.2	12.40	16.30	8.69	4.06	2.47	1.00	0.005	3.43	0.18	0.39	0.08	0.03	100.15
40388673		3.40	78.3	9.38	3.39	0.36	0.97	0.22	4.53	0.007	0.41	0.01	0.08	0.01	0.06	100.86
40388701		6.18	51.6	5.67	33.1	2.34	2.35	0.10	0.55	0.006	0.45	0.73	0.09	0.01	0.01	101.44
40388702		7.40	44.0	13.45	16.20	5.03	5.28	0.35	6.46	<0.002	1.56	0.61	0.17	0.01	0.27	100.67
40388703		5.24	48.6	13.15	14.15	8.17	4.69	1.73	2.90	<0.002	1.53	0.43	0.19	0.03	0.05	100.89
40388704		6.39	51.0	13.10	14.85	6.97	5.14	1.90	3.22	<0.002	1.52	0.27	0.17	0.03	0.05	100.89
40388705		6.44	50.7	13.20	14.85	8.30	4.98	2.10	2.59	0.002	1.52	0.25	0.18	0.04	0.04	100.59
40388706		5.85	50.4	13.35	14.70	5.34	4.71	2.15	4.96	0.002	1.56	0.30	0.19	0.03	0.07	101.14
40388707		6.16	51.4	12.50	14.15	6.18	5.12	2.23	3.19	0.002	1.46	0.33	0.17	0.02	0.04	101.47
40388708		6.14	48.6	13.50	14.45	6.24	5.59	3.02	2.37	<0.002	1.56	0.38	0.17	0.03	0.04	100.95
40388709		2.85	47.2	13.20	15.65	6.05	6.08	2.30	2.54	0.002	1.52	0.46	0.17	0.03	0.04	100.40
40388710		2.81	47.8	13.90	16.30	5.27	6.50	2.31	2.76	0.002	1.63	0.45	0.20	0.03	0.05	101.78
40388711		13.77	53.1	1.05	38.9	2.40	1.64	0.10	0.09	0.005	0.12	0.42	0.07	<0.01	<0.01	101.42
40388712		14.20	51.1	0.91	41.0	2.07	2.04	0.08	0.06	0.004	0.10	0.38	0.06	0.01	<0.01	100.88
40388713		13.96	47.5	0.69	39.7	3.88	1.82	0.07	0.06	0.003	0.07	0.67	0.06	0.01	<0.01	99.50
40388714		12.99	40.6	0.97	43.7	3.46	2.25	0.07	0.04	0.002	0.08	1.52	0.07	0.01	<0.01	100.03
40388715		14.40	43.4	0.49	35.9	3.68	1.93	0.07	0.03	0.002	0.05	1.03	0.04	0.01	<0.01	99.23
40388716		12.66	44.3	0.39	35.7	4.76	1.76	0.12	0.03	<0.002	0.04	0.63	0.03	0.01	<0.01	99.77
40388717		12.79	40.8	0.59	36.4	4.81	1.94	0.18	0.06	<0.002	0.06	0.73	0.05	0.01	<0.01	100.23
40388718		10.68	47.3	1.84	27.8	7.24	2.13	0.16	0.09	0.004	0.25	0.78	0.07	0.01	<0.01	100.72
40388719		3.98	59.4	0.29	24.5	7.50	0.25	0.09	0.09	0.008	0.03	0.62	0.04	0.01	0.01	99.28
40388720		1.61	58.6	18.70	6.85	6.06	2.36	3.95	2.54	0.003	0.87	0.11	0.25	0.07	0.12	100.83
40388721		11.75	63.3	13.25	5.47	3.11	3.09	2.81	4.20	0.063	0.39	0.27	0.21	0.03	0.13	100.19
40388722		10.32	60.1	12.90	5.73	3.96	6.53	3.08	3.19	0.095	0.42	0.13	0.24	0.05	0.15	99.39
40388723		12.00	66.8	13.25	3.27	2.50	3.01	3.59	4.23	0.038	0.29	0.06	0.12	0.05	0.19	99.48
40388724		6.33	61.2	13.10	6.48	4.56	6.41	3.17	3.22	0.082	0.60	0.16	0.22	0.07	0.14	101.27
40388725		11.68	64.5	13.05	4.69	4.17	5.21	3.52	3.09	0.066	0.37	0.08	0.19	0.11	0.65	100.88





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Project: EB80000965

**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40388670		1.84	0.04	0.33	367	30.2	2520	2.73	3.95	2.33	1.38	22.9	4.04	2.9	0.78	13.8
40388671		3.62	0.50	0.24	445	107.5	40	18.15	10.20	6.56	1.73	19.8	10.75	8.4	2.37	47.0
40388672		5.91	1.27	0.23	261	69.0	40	6.99	6.55	3.47	2.86	22.9	8.10	6.5	1.29	29.8
40388673		3.13	0.98	1.12	493	62.5	50	9.94	3.21	1.86	0.92	12.5	4.12	3.3	0.68	28.6
40388701		4.43	0.53	0.01	79.4	32.9	40	4.82	1.66	0.92	0.59	8.9	1.88	1.7	0.34	13.4
40388702		7.28	0.88	0.01	2370	43.7	10	8.29	5.13	3.24	1.42	20.8	4.90	3.7	1.07	19.8
40388703		5.27	0.76	0.04	439	43.7	10	2.35	4.90	3.04	1.64	19.4	5.18	3.8	1.11	21.6
40388704		2.67	0.19	0.05	430	43.3	10	1.69	4.89	3.10	1.50	19.9	4.94	3.6	1.11	21.5
40388705		1.84	0.20	0.03	378	43.2	10	1.77	4.93	3.13	1.51	19.3	4.81	3.6	1.15	20.6
40388706		3.38	0.34	0.05	593	44.4	10	3.51	4.86	3.00	1.50	19.7	5.09	3.9	1.11	21.4
40388707		4.68	0.45	0.06	357	44.3	10	3.50	5.31	3.16	1.55	19.1	5.56	3.8	1.12	21.6
40388708		5.00	0.44	0.06	315	42.4	10	2.70	4.94	3.04	1.46	19.6	5.00	4.0	1.18	21.0
40388709		5.16	0.47	0.06	378	41.5	10	2.88	4.84	3.19	1.46	19.6	5.52	3.7	1.16	20.2
40388710		4.58	0.23	0.04	418	44.9	10	3.04	5.53	3.48	1.75	21.1	5.66	4.2	1.20	21.5
40388711		3.52	0.57	<0.01	18.3	11.2	40	3.10	0.91	0.49	0.26	2.6	0.87	0.3	0.20	4.7
40388712		3.07	0.49	0.01	14.0	11.3	30	2.42	0.82	0.57	0.29	2.1	0.82	0.4	0.18	4.9
40388713		4.97	1.19	0.16	10.5	8.5	20	2.55	0.71	0.48	0.24	1.8	0.72	0.2	0.17	3.6
40388714		7.26	1.77	0.03	15.9	18.7	20	2.00	1.48	0.94	0.46	2.9	1.73	0.3	0.35	8.3
40388715		12.60	3.58	0.14	9.4	7.4	20	2.10	0.70	0.45	0.19	1.8	0.60	<0.2	0.12	2.8
40388716		12.00	2.74	0.65	5.2	5.2	10	2.36	0.45	0.26	0.15	1.1	0.58	<0.2	0.12	2.0
40388717		14.60	3.47	1.16	9.6	5.8	10	3.35	0.46	0.40	0.20	1.5	0.52	<0.2	0.12	2.7
40388718		13.05	3.07	0.25	10.6	10.1	40	4.40	0.87	0.56	0.30	3.8	0.95	0.7	0.21	4.8
40388719		6.44	1.71	0.33	52.8	11.1	60	3.74	1.20	0.75	0.47	1.5	1.23	<0.2	0.26	7.3
40388720		0.35	0.05	0.08	1065	63.0	20	1.17	5.58	3.54	1.79	22.3	6.70	8.5	1.22	27.3
40388721		3.87	0.58	0.09	1075	72.0	460	1.70	2.00	1.01	1.12	18.0	3.14	3.7	0.36	35.2
40388722		2.81	0.24	0.06	1270	68.6	690	2.53	2.25	1.37	1.22	18.0	3.95	3.7	0.48	32.0
40388723		2.08	0.22	0.05	1675	69.9	280	1.92	1.60	0.77	0.91	17.1	2.35	3.5	0.26	35.4
40388724		1.86	0.09	0.01	1160	64.6	600	3.66	2.14	1.08	1.34	16.2	3.75	3.3	0.38	29.8
40388725		1.18	0.07	0.11	5440	63.7	470	3.79	1.57	0.82	1.10	16.8	2.92	3.3	0.30	32.1



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**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40388670		0.29	8.2	16.1	3.81	37.9	3.85	2	432	0.7	0.63	1.37	0.27	0.43	189	1
40388671		0.96	17.8	51.9	13.00	187.0	11.80	3	80.2	1.2	1.66	10.05	1.05	6.87	98	1
40388672		0.48	24.0	39.4	9.08	37.8	9.24	2	629	1.6	1.20	4.20	0.49	1.39	410	1
40388673		0.30	6.6	27.6	7.51	149.5	5.08	1	52.9	0.4	0.57	7.08	0.28	9.05	229	1
40388701		0.15	8.0	11.1	3.14	26.5	2.03	<1	73.2	0.5	0.32	4.71	0.16	0.72	66	3
40388702		0.43	17.4	20.5	5.56	196.5	5.04	1	125.0	1.0	0.82	5.60	0.46	0.92	356	1
40388703		0.44	16.0	21.5	5.43	116.0	5.13	1	265	0.9	0.83	5.41	0.46	1.46	367	1
40388704		0.47	15.9	21.9	5.58	134.0	5.16	1	258	1.1	0.75	5.25	0.44	1.12	370	1
40388705		0.41	16.3	21.5	5.69	117.0	5.09	1	309	0.9	0.79	5.34	0.44	1.17	381	1
40388706		0.47	17.0	21.0	5.40	201	4.80	1	258	1.0	0.79	5.46	0.44	1.18	377	1
40388707		0.49	16.2	22.5	5.64	137.5	5.37	1	210	1.0	0.83	5.38	0.49	1.06	373	1
40388708		0.42	16.3	21.1	5.36	96.6	5.02	1	218	1.0	0.79	5.40	0.43	1.13	377	1
40388709		0.41	16.3	21.1	5.27	103.5	5.20	1	224	0.9	0.85	5.30	0.42	1.08	362	1
40388710		0.49	18.2	23.5	5.86	112.0	4.99	1	231	1.1	0.85	5.66	0.47	1.21	397	1
40388711		0.06	3.5	4.9	1.15	9.5	0.90	<1	54.0	0.1	0.13	0.50	0.08	0.14	31	2
40388712		0.08	3.0	5.2	1.28	7.0	1.00	<1	40.6	0.1	0.15	0.60	0.08	0.10	25	2
40388713		0.06	2.0	3.8	0.94	6.9	0.60	<1	60.7	<0.1	0.11	0.46	0.05	0.11	19	2
40388714		0.13	3.8	7.6	1.96	5.0	1.55	<1	63.8	<0.1	0.28	0.68	0.13	0.20	34	3
40388715		0.04	1.6	3.0	0.75	4.5	0.61	<1	63.3	0.1	0.10	0.31	0.05	0.21	16	1
40388716		0.04	1.4	2.5	0.61	4.7	0.59	<1	109.5	<0.1	0.07	0.37	0.03	0.20	12	3
40388717		0.05	2.1	2.9	0.74	9.9	0.59	<1	119.5	<0.1	0.09	0.54	0.04	0.32	20	<1
40388718		0.07	4.6	4.5	1.20	12.8	0.91	<1	97.3	0.2	0.13	0.82	0.09	0.44	74	1
40388719		0.08	2.1	5.3	1.35	13.2	1.17	<1	84.5	<0.1	0.17	0.14	0.08	0.51	13	4
40388720		0.50	13.3	35.0	8.89	106.5	7.71	2	577	0.6	0.96	4.37	0.51	1.64	118	<1
40388721		0.12	6.5	29.7	8.39	112.0	4.88	<1	219	0.5	0.41	11.55	0.14	2.25	60	1
40388722		0.19	9.2	31.2	8.61	112.5	5.79	1	441	1.3	0.48	8.25	0.20	3.39	86	1
40388723		0.12	5.5	27.3	7.94	122.0	4.41	<1	394	0.8	0.30	10.50	0.12	3.25	51	<1
40388724		0.16	4.4	31.2	8.26	107.5	5.74	<1	541	0.4	0.46	6.48	0.15	2.24	116	<1
40388725		0.15	3.7	27.2	7.60	96.8	4.49	<1	902	0.3	0.30	8.20	0.13	2.12	69	1



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**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388670		19.9	2.16	115	5.3	0.15	0.010	0.030	0.003	0.45	1.0	0.06	0.45	0.48	0.28	68.1
40388671		64.0	6.71	330	16.2	0.30	0.035	0.091	0.005	0.60	0.6	0.03	0.22	0.21	0.62	7.8
40388672		35.2	3.04	259	6.4	0.07	0.011	0.073	0.001	0.25	0.5	<0.01	0.23	0.17	0.24	52.7
40388673		19.0	1.69	131	32.7	0.26	0.139	0.043	0.013	3.04	2.7	0.08	0.47	0.89	6.02	10.1
40388701		9.0	0.83	70	24.8	0.07	0.006	0.024	<0.001	0.08	<0.2	0.01	0.04	<0.01	<0.02	28.0
40388702		28.5	2.92	144	13.3	0.03	0.017	0.075	0.002	<0.05	0.2	<0.01	0.08	0.03	0.04	50.0
40388703		29.6	2.73	142	51.3	0.02	0.011	0.059	0.001	<0.05	0.3	<0.01	0.04	0.03	0.17	47.2
40388704		29.5	2.92	142	44.8	0.02	0.012	0.033	0.001	0.05	0.4	<0.01	0.04	0.04	0.13	49.8
40388705		29.2	2.75	142	28.7	0.02	0.010	0.023	0.001	<0.05	<0.2	0.01	0.04	0.04	0.19	50.5
40388706		29.2	2.85	145	15.6	0.02	0.008	0.046	0.001	<0.05	0.3	<0.01	0.05	0.03	0.08	48.4
40388707		30.5	2.81	141	37.3	0.02	0.009	0.052	0.001	<0.05	0.3	<0.01	0.06	0.04	0.17	46.1
40388708		29.1	3.17	144	50.0	0.02	0.012	0.052	0.001	<0.05	0.3	<0.01	0.06	0.03	0.16	51.5
40388709		28.9	2.85	140	25.8	0.02	0.010	0.061	0.001	<0.05	0.2	<0.01	0.05	0.04	0.06	51.9
40388710		31.1	3.03	152	25.6	0.02	0.011	0.062	0.001	<0.05	0.2	<0.01	0.04	0.02	0.07	56.8
40388711		5.7	0.54	19	18.4	0.03	0.007	0.010	<0.001	0.06	<0.2	0.03	0.02	0.01	<0.02	17.4
40388712		5.5	0.42	16	16.9	0.02	<0.005	0.009	<0.001	0.05	<0.2	0.01	0.02	0.03	<0.02	14.2
40388713		4.5	0.39	11	97.0	0.02	0.021	0.007	<0.001	0.11	<0.2	0.01	0.08	0.02	<0.02	13.4
40388714		9.5	0.87	20	19.0	0.04	0.057	0.013	<0.001	0.07	<0.2	0.10	0.03	0.01	<0.02	19.1
40388715		4.4	0.31	7	16.6	0.02	0.024	0.009	<0.001	0.05	<0.2	0.03	0.04	0.02	<0.02	8.2
40388716		3.7	0.27	7	24.6	0.02	0.038	0.011	0.001	0.06	0.3	0.04	0.09	0.01	<0.02	6.2
40388717		3.5	0.33	11	12.3	0.03	0.027	0.015	0.001	0.07	0.4	0.04	0.26	<0.01	<0.02	4.7
40388718		5.8	0.60	29	7.8	0.03	0.025	0.026	0.001	<0.05	0.4	0.03	0.19	0.02	<0.02	8.5
40388719		8.6	0.57	6	21.4	0.02	0.038	0.010	<0.001	0.11	0.3	0.14	0.07	0.12	<0.02	17.0
40388720		34.0	3.03	352	0.2	0.01	<0.005	0.028	0.001	<0.05	<0.2	0.01	0.34	0.02	0.07	16.8
40388721		11.6	0.93	131	2.0	0.36	0.011	0.025	<0.001	<0.05	<0.2	<0.01	0.03	0.05	0.02	13.6
40388722		13.5	1.28	124	0.5	0.37	0.006	0.017	<0.001	<0.05	<0.2	<0.01	0.05	0.05	0.06	26.2
40388723		8.2	0.73	127	0.4	0.18	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.04	0.13	0.04	11.9
40388724		11.4	1.00	133	0.4	0.13	0.007	0.013	<0.001	<0.05	<0.2	<0.01	0.28	0.10	0.06	30.0
40388725		8.5	0.80	132	0.2	0.16	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.28	0.05	0.05	19.9



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 Plus Appendix Pages  
 Finalized Date: 27-OCT-2018  
 Account: RTEICKBZ

Project: EB80000965

**CERTIFICATE OF ANALYSIS TB18253986**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40388670		1160	37.3	3.07	700	6.5	17.0	118	0.022	0.0475	0.216
40388671		54.4	50.7	2.07	19.6	16.8	10.7	146	0.002	0.0009	0.001
40388672		249	35.9	1.57	74.0	7.4	27.0	150	0.004	0.0022	0.008
40388673		97.7	32.0	8.31	38.3	23.0	10.6	624	0.006	0.0022	0.003
40388701		16.5	31.2	1.05	18.4	4.8	10.0	34	0.001	<0.0005	<0.001
40388702		105.0	73.7	0.48	30.2	4.2	42.6	136	0.002	<0.0005	<0.001
40388703		115.0	38.3	0.85	35.1	6.5	40.3	123	0.002	<0.0005	<0.001
40388704		119.0	34.3	0.83	36.6	5.9	42.1	124	0.001	<0.0005	<0.001
40388705		119.0	28.4	0.84	37.4	5.2	42.1	123	0.001	<0.0005	<0.001
40388706		117.5	32.4	0.85	35.2	4.1	41.6	122	0.001	<0.0005	<0.001
40388707		111.5	33.8	0.92	33.6	11.9	39.5	118	0.002	<0.0005	<0.001
40388708		120.5	37.8	0.87	36.3	9.6	42.9	122	0.002	<0.0005	<0.001
40388709		107.0	49.4	0.71	35.2	3.7	40.0	118	0.001	<0.0005	<0.001
40388710		118.0	53.7	0.74	38.8	3.5	43.9	125	0.002	<0.0005	<0.001
40388711		10.0	23.3	2.44	5.2	1.1	2.7	9	0.001	<0.0005	<0.001
40388712		6.7	17.7	2.43	3.6	1.0	2.2	9	0.002	<0.0005	<0.001
40388713		5.8	9.2	1.74	4.6	1.0	1.7	7	0.002	<0.0005	<0.001
40388714		13.3	18.1	2.21	4.6	1.1	2.4	8	0.002	0.0005	<0.001
40388715		6.6	6.5	1.86	3.9	0.8	1.3	6	0.002	<0.0005	<0.001
40388716		5.9	3.8	1.56	5.0	1.7	1.1	7	0.002	<0.0005	<0.001
40388717		8.4	4.0	1.52	6.5	3.1	1.3	6	0.002	<0.0005	0.001
40388718		16.8	13.6	2.85	7.1	1.3	5.0	12	0.003	<0.0005	0.001
40388719		16.1	2.3	5.95	9.8	3.0	0.6	4	0.002	0.0005	<0.001
40388720		16.3	18.2	0.95	13.3	12.0	13.9	90	0.001	0.0015	0.002
40388721		17.6	27.2	1.32	85.0	26.7	10.2	60	<0.001	0.0009	0.001
40388722		14.6	31.4	0.65	164.5	14.6	15.1	80	0.002	0.0014	0.002
40388723		39.7	26.9	1.34	63.8	23.5	6.7	53	0.002	0.0008	0.001
40388724		38.8	37.1	1.03	158.5	16.7	14.0	80	0.001	0.0013	0.001
40388725		21.4	27.9	0.89	116.5	14.6	9.2	63	0.001	0.0012	0.002



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 Account: RTECIKBZ

Project: EB80000965

<b>CERTIFICATE OF ANALYSIS TB18253986</b>
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	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">C-IR07</td> <td style="width: 25%;">ME-ICP06</td> <td style="width: 25%;">ME-MS42</td> <td style="width: 25%;">ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06			
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-MS24	S-IR08										
TOT-ICP06													





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**CERTIFICATE TB18253985**

Project: EB80000966  
 P.O. No.: 3103290934  
 This report is for 45 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 9-OCT-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
--	-----------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	

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 \*\*\*\*\*

Comments: \*\*Corrected copy for ME-MS61 on samples 40388695 to 40388700\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RTEICKBZ

Project: EB80000966

**CERTIFICATE OF ANALYSIS TB18253985**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd WL	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
40388480		2.01	0.05	8.81	0.6	870	2.47	0.02	4.60	0.10	50.8	17.4	20	1.21	21.1	5.20
40388481		12.36	0.10	8.23	12.0	500	1.61	0.19	0.45	0.25	52.8	18.8	163	5.12	62.3	5.12
40388482		11.84	0.06	7.49	7.4	420	1.45	0.13	0.53	0.04	56.6	15.5	152	2.96	39.1	4.49
40388483		12.12	0.04	7.93	7.8	450	1.54	0.10	0.50	0.04	56.4	16.5	149	3.28	33.0	4.78
40388484		9.95	0.08	8.09	9.5	490	1.63	0.27	0.86	0.09	58.6	17.7	147	3.85	48.2	4.90
40388485		11.86	0.06	7.86	10.9	640	1.58	0.11	0.55	0.27	39.1	18.1	152	5.89	58.3	4.90
40388486		11.73	0.05	7.50	11.1	460	1.44	0.13	0.50	0.23	51.6	16.6	152	3.96	45.7	4.54
40388487		12.43	0.12	8.82	16.2	550	1.71	0.23	0.24	0.61	59.3	21.8	159	7.44	68.4	5.52
40388488		12.30	0.10	8.73	16.3	560	1.68	0.23	0.30	0.25	50.2	21.2	160	9.44	60.3	5.62
40388489		12.33	0.13	8.51	22.3	540	1.80	0.25	0.68	0.42	48.2	21.5	152	9.93	67.6	5.69
40388490		0.17	0.47	8.58	5.4	340	0.79	0.12	6.55	0.28	21.5	66.2	1640	1.87	1120	8.29
40388491		12.34	0.13	8.62	18.1	540	1.75	0.23	0.32	0.46	58.8	21.1	157	10.00	65.1	5.53
40388492		12.16	0.16	8.45	33.9	520	1.64	0.23	0.46	0.59	66.5	22.4	152	9.68	77.3	5.78
40388493		12.25	0.11	7.45	19.5	420	1.35	0.17	0.69	0.52	61.7	18.4	155	6.72	55.5	4.89
40388494		11.25	0.13	8.25	19.4	480	1.65	0.21	0.49	0.33	57.4	21.6	167	9.46	63.7	5.73
40388495		11.60	0.05	7.62	11.0	400	1.44	0.15	0.82	0.08	60.0	15.3	154	7.39	31.5	4.49
40388496		7.88	0.12	8.90	18.6	520	1.84	0.23	0.35	0.28	50.9	22.1	168	12.55	65.6	5.93
40388497		7.92	0.13	9.04	20.7	520	1.88	0.24	0.66	0.47	51.5	22.6	168	13.25	70.4	6.03
40388674		12.11	0.09	1.69	65.9	70	1.83	0.07	14.65	0.36	34.2	7.0	31	5.60	11.4	4.14
40388675		11.89	0.03	0.11	87.8	10	0.66	0.02	14.80	0.08	10.25	4.2	21	0.13	3.8	5.15
40388676		8.30	0.17	1.78	93.3	60	1.08	0.05	10.95	0.92	21.5	12.0	34	1.39	49.6	5.85
40388677		11.27	0.05	2.01	30.3	20	3.13	0.09	5.42	0.02	25.0	20.1	30	4.95	7.8	15.75
40388678		11.69	0.02	1.67	37.6	40	4.67	0.08	2.46	<0.02	26.2	22.6	30	11.40	7.2	19.65
40388679		5.23	0.02	1.05	54.2	70	4.01	0.06	2.60	<0.02	16.30	13.9	40	15.55	7.7	24.8
40388680		4.93	0.02	1.08	57.1	70	4.50	0.09	2.71	<0.02	18.05	18.8	35	16.90	9.2	25.2
40388681		13.67	0.01	0.82	64.6	110	3.65	0.10	2.37	<0.02	15.95	15.7	22	16.20	5.7	27.4
40388682		13.72	0.02	0.56	57.4	40	3.03	0.07	4.03	<0.02	21.1	13.0	27	6.31	5.1	27.8
40388683		13.88	0.01	0.26	78.0	20	2.87	0.03	2.90	<0.02	9.30	7.9	27	3.02	5.5	27.5
40388684		14.28	0.01	0.40	44.6	50	3.64	0.04	3.49	<0.02	9.08	4.3	19	6.85	4.5	28.8
40388685		13.95	0.01	0.40	41.5	40	2.87	0.04	3.74	<0.02	8.95	4.4	19	6.11	3.1	27.8
40388686		13.64	0.01	1.16	46.2	20	3.51	0.06	0.93	<0.02	13.95	5.9	25	5.24	5.8	31.9
40388687		13.72	0.01	0.93	51.8	20	3.63	0.07	1.02	<0.02	11.50	7.1	24	4.17	5.3	33.3
40388688		14.84	<0.01	0.85	52.7	20	3.75	0.09	1.31	<0.02	12.75	6.7	22	4.09	4.4	34.1
40388689		12.39	<0.01	1.41	43.3	30	2.99	0.09	0.66	<0.02	18.35	10.8	28	3.46	12.9	29.8
40388690		1.45	0.03	8.55	1.0	1150	2.47	0.03	4.46	0.07	51.6	19.0	38	1.22	19.5	5.49
40388691		13.09	0.02	0.83	45.1	10	2.28	0.05	1.29	<0.02	15.80	13.1	32	4.31	4.9	29.7
40388692		12.06	0.01	1.11	35.7	10	2.08	0.05	1.95	<0.02	22.3	15.4	34	4.55	8.5	25.8
40388693		12.47	0.01	2.46	17.8	90	1.83	0.08	2.27	<0.02	24.0	14.9	31	3.12	6.9	22.2
40388694		11.63	0.01	3.35	24.3	110	1.80	0.10	1.29	<0.02	30.7	25.8	46	3.91	25.9	21.3
40388695		12.25	0.02	4.53	17.4	340	1.49	0.11	1.43	<0.02	35.6	30.6	53	9.70	40.8	17.50

Comments: \*\*Corrected copy for ME-MS61 on samples 40388695 to 40388700\*\*

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 THUNDER BAY ON P7E 4X4

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 Finalized Date: 22-OCT-2018  
 Account: RTECIKZ

Project: EB80000966

**CERTIFICATE OF ANALYSIS TB18253985**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5
40388480		24.0	0.17	2.8	0.071	1.95	17.9	19.2	1.42	824	1.40	2.90	12.8	14.1	1300	11.1
40388481		21.4	0.18	4.2	0.060	2.47	23.7	73.7	1.32	281	4.17	1.62	9.6	79.1	500	13.6
40388482		18.35	0.18	4.3	0.049	1.96	27.4	60.3	1.15	320	1.98	1.94	8.6	63.0	480	10.2
40388483		20.2	0.20	4.2	0.052	2.15	25.5	67.2	1.27	372	1.40	1.72	9.3	68.1	480	8.6
40388484		20.3	0.19	4.0	0.059	2.34	27.6	65.7	1.32	473	2.71	1.62	9.3	70.2	520	10.4
40388485		20.4	0.15	4.1	0.055	2.61	15.2	109.5	1.36	368	2.91	1.67	8.7	71.7	480	35.1
40388486		18.95	0.16	4.4	0.048	1.95	23.4	72.9	1.20	281	2.93	2.05	8.1	66.3	470	12.6
40388487		23.9	0.20	4.2	0.066	2.84	27.2	69.7	1.48	261	4.64	1.43	10.2	88.4	490	17.2
40388488		23.5	0.20	4.1	0.066	2.90	21.3	63.8	1.50	332	3.74	1.41	10.0	85.0	480	13.7
40388489		23.7	0.20	4.2	0.075	2.89	19.6	50.9	1.47	337	5.76	1.34	9.9	87.4	480	16.3
40388490		21.7	0.17	2.6	0.072	0.81	8.9	38.9	4.29	1040	3.02	1.56	7.5	707	690	6.3
40388491		23.0	0.19	4.1	0.070	2.82	27.3	53.5	1.46	239	4.53	1.42	9.8	86.6	520	13.8
40388492		22.7	0.22	4.1	0.073	2.71	32.5	57.9	1.42	231	7.43	1.49	9.7	87.6	470	20.0
40388493		19.55	0.21	4.4	0.052	2.02	29.8	60.4	1.22	237	5.34	1.82	8.8	78.1	460	13.8
40388494		22.0	0.21	4.2	0.073	2.56	26.3	66.2	1.36	222	5.21	1.53	9.6	85.4	500	21.3
40388495		18.85	0.22	4.3	0.052	2.07	28.5	64.2	1.19	246	1.51	1.89	8.5	61.2	480	9.1
40388496		24.2	0.20	4.1	0.072	2.98	21.0	83.7	1.56	218	4.65	1.35	10.5	91.5	500	18.2
40388497		25.0	0.22	4.1	0.075	3.06	21.9	87.1	1.60	267	4.85	1.35	10.7	92.5	510	18.1
40388674		5.16	0.13	1.1	0.011	0.83	17.2	46.7	4.99	8080	3.04	0.06	2.7	21.8	1140	7.2
40388675		0.61	<0.05	0.1	<0.005	0.01	4.9	3.8	4.85	11450	2.62	0.02	0.4	4.0	1320	3.8
40388676		5.20	<0.05	1.0	0.021	0.63	10.3	38.0	3.35	9140	13.40	0.04	2.5	25.9	1430	7.1
40388677		6.43	0.05	1.2	0.016	0.13	9.8	5.9	1.78	4090	0.67	0.11	4.5	10.4	520	5.5
40388678		6.00	0.08	1.0	0.012	0.21	9.6	8.0	1.51	5640	1.23	0.16	5.5	9.0	660	4.7
40388679		5.06	0.08	0.5	0.009	0.33	4.7	7.9	1.16	2560	3.30	0.24	4.8	8.5	430	2.8
40388680		5.01	<0.05	0.5	0.012	0.34	5.1	8.0	1.22	2780	2.58	0.24	5.2	6.8	440	3.8
40388681		6.30	<0.05	0.5	0.007	0.37	3.0	10.2	0.97	2120	1.63	0.26	7.8	4.3	250	3.7
40388682		5.97	<0.05	0.4	0.011	0.16	3.9	7.6	1.31	2270	2.00	0.12	8.4	3.3	200	3.2
40388683		1.78	<0.05	0.1	<0.005	0.09	3.1	7.1	0.48	3130	2.37	0.07	1.7	2.3	550	2.0
40388684		2.06	<0.05	0.1	<0.005	0.17	3.5	7.3	0.49	2380	1.23	0.12	1.5	2.5	590	5.7
40388685		1.75	<0.05	0.2	<0.005	0.17	3.2	6.8	0.43	1580	1.40	0.13	1.2	2.4	370	2.1
40388686		3.78	<0.05	0.5	0.009	0.10	5.9	33.2	1.35	874	1.09	0.08	2.4	5.6	390	3.8
40388687		3.58	<0.05	0.4	0.007	0.08	4.5	27.1	1.17	782	1.30	0.08	2.5	4.9	370	3.2
40388688		3.42	<0.05	0.3	0.008	0.08	4.9	21.9	1.06	1030	1.14	0.07	3.1	4.1	380	3.6
40388689		4.78	<0.05	0.6	0.012	0.11	6.6	33.5	1.48	665	1.32	0.08	3.7	8.1	390	5.1
40388690		22.3	<0.05	2.6	0.072	2.05	20.6	19.0	1.49	902	1.54	2.74	14.3	16.1	1790	13.1
40388691		2.62	<0.05	0.3	<0.005	0.09	4.8	23.5	1.01	1480	1.95	0.09	2.0	4.6	390	2.9
40388692		3.32	<0.05	0.4	0.010	0.09	7.2	20.9	1.08	2040	2.12	0.09	3.7	5.3	510	3.5
40388693		6.53	<0.05	1.5	0.016	0.35	9.7	32.5	1.54	2220	0.69	0.06	5.6	9.9	330	7.5
40388694		8.97	<0.05	1.5	0.026	0.64	12.7	43.2	2.02	1140	0.72	0.18	6.3	24.2	480	5.6
40388695		12.15	0.11	1.5	0.031	3.02	13.4	52.6	1.41	1150	0.66	0.17	6.9	30.3	290	7.8

Comments: \*\*Corrected copy for ME-MS61 on samples 40388695 to 40388700\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Plus Appendix Pages  
 Finalized Date: 22-OCT-2018  
 Account: RTEICKBZ

Project: EB80000966

**CERTIFICATE OF ANALYSIS TB18253985**

Sample Description	Method	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
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOD		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
40388480		61.6	<0.002	0.13	0.05	15.0	<1	2.1	561	0.63	<0.05	2.83	0.579	0.47	1.2	124
40388481		124.0	<0.002	0.33	0.80	19.1	1	1.7	112.5	0.65	<0.05	7.26	0.436	0.76	4.6	129
40388482		107.0	<0.002	0.16	0.64	15.9	1	1.4	119.0	0.58	<0.05	7.53	0.384	0.59	3.4	103
40388483		113.0	<0.002	0.05	0.55	17.7	1	1.6	117.0	0.61	<0.05	7.58	0.419	0.57	3.2	113
40388484		121.5	0.002	0.17	0.74	18.0	1	2.0	118.5	0.64	0.06	7.92	0.427	0.63	4.0	119
40388485		99.8	<0.002	0.22	1.02	17.7	1	1.3	135.0	0.57	<0.05	6.06	0.399	0.78	3.8	116
40388486		95.1	<0.002	0.32	1.30	16.5	1	1.1	127.5	0.56	<0.05	7.09	0.367	0.73	3.7	107
40388487		151.5	0.002	0.83	1.16	21.7	1	1.8	101.5	0.69	0.05	7.96	0.460	1.16	5.1	143
40388488		143.0	0.002	1.01	1.20	21.2	1	1.7	101.0	0.68	<0.05	6.95	0.460	1.26	4.9	140
40388489		129.0	0.002	1.31	1.53	20.7	1	1.9	100.5	0.67	<0.05	6.66	0.441	2.02	5.5	140
40388490		10.5	0.004	0.35	0.51	16.9	2	1.8	427	0.45	0.08	0.98	0.768	0.54	0.3	168
40388491		149.5	<0.002	1.05	1.43	20.7	1	1.8	100.5	0.67	<0.05	7.73	0.443	1.82	4.9	138
40388492		155.0	0.003	1.45	2.39	20.7	1	1.7	107.0	0.66	0.06	8.36	0.423	2.52	5.7	133
40388493		116.5	0.002	0.68	1.42	17.3	1	1.4	119.0	0.57	<0.05	7.87	0.377	1.65	4.4	112
40388494		136.5	0.003	1.08	2.92	19.9	1	1.7	105.5	0.64	<0.05	7.58	0.432	1.72	4.8	128
40388495		116.0	<0.002	0.18	0.76	16.0	1	1.4	123.5	0.57	<0.05	7.46	0.380	0.69	2.9	98
40388496		146.5	0.002	1.21	2.50	21.9	1	1.9	91.1	0.71	<0.05	7.08	0.478	1.32	5.2	149
40388497		145.5	<0.002	1.27	2.04	22.6	1	1.9	99.1	0.70	0.06	7.11	0.488	1.38	5.5	150
40388674		56.2	0.002	0.58	1.54	3.0	1	0.4	162.5	0.19	<0.05	2.45	0.065	0.38	5.3	270
40388675		0.7	<0.002	0.42	0.70	0.2	1	<0.2	158.5	<0.05	<0.05	0.14	<0.005	0.14	2.3	26
40388676		19.1	0.003	0.55	1.35	6.0	2	0.4	122.5	0.13	<0.05	1.45	0.194	0.41	4.3	138
40388677		15.1	<0.002	0.04	0.15	4.3	<1	0.3	65.2	0.17	<0.05	3.38	0.113	0.04	0.5	27
40388678		28.4	<0.002	0.02	0.17	3.8	1	0.3	55.5	0.16	<0.05	2.85	0.093	0.07	0.5	28
40388679		43.8	<0.002	<0.01	0.26	3.3	1	0.2	74.7	0.08	<0.05	1.62	0.060	0.08	0.2	30
40388680		44.9	<0.002	0.01	0.41	3.8	<1	0.2	75.7	0.10	0.08	1.72	0.067	0.09	0.2	31
40388681		49.0	<0.002	<0.01	0.38	3.8	1	0.2	87.2	0.09	<0.05	1.27	0.056	0.11	0.1	20
40388682		20.5	<0.002	<0.01	0.32	2.7	<1	<0.2	104.5	0.06	0.08	0.83	0.038	0.05	0.1	17
40388683		10.1	<0.002	<0.01	0.21	0.9	<1	<0.2	70.0	<0.05	<0.05	0.41	0.012	0.03	0.1	14
40388684		22.6	<0.002	0.01	0.22	1.1	<1	<0.2	92.6	<0.05	<0.05	0.64	0.017	0.05	0.1	17
40388685		21.4	<0.002	<0.01	0.22	1.1	<1	<0.2	71.6	<0.05	<0.05	0.66	0.018	0.04	0.1	15
40388686		12.7	<0.002	<0.01	0.26	2.6	<1	0.2	31.3	0.09	<0.05	2.17	0.053	0.03	0.3	22
40388687		10.7	<0.002	<0.01	0.22	2.4	<1	0.2	33.4	0.08	<0.05	1.82	0.042	0.03	0.2	24
40388688		10.1	<0.002	<0.01	0.25	2.3	<1	0.2	34.9	0.07	<0.05	1.94	0.036	0.02	0.3	25
40388689		8.5	<0.002	<0.01	0.26	3.6	<1	0.3	39.5	0.14	<0.05	2.64	0.074	0.03	0.4	28
40388690		60.1	<0.002	0.12	0.11	15.6	<1	2.1	572	0.67	<0.05	2.54	0.643	0.44	3.4	122
40388691		11.5	<0.002	<0.01	0.21	1.9	<1	0.2	40.6	0.07	<0.05	1.46	0.035	0.03	0.2	16
40388692		11.8	<0.002	<0.01	0.21	3.0	<1	0.3	49.0	0.15	<0.05	2.04	0.048	0.03	0.3	19
40388693		13.4	<0.002	<0.01	0.20	5.4	<1	0.5	120.0	0.33	<0.05	4.63	0.150	0.06	0.6	34
40388694		24.6	<0.002	0.01	0.20	9.0	<1	0.6	76.8	0.36	<0.05	4.93	0.239	0.10	0.8	58
40388695		126.5	<0.002	<0.01	0.22	15.2	<1	0.7	98.9	0.40	0.05	6.09	0.266	0.30	0.9	76

Comments: \*\*Corrected copy for ME-MS61 on samples 40388695 to 40388700\*\*

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



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**CERTIFICATE OF ANALYSIS TB18253985**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		W	Y	Zn	Zr	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5	0.001	0.0005	0.001
40388480		0.2	29.4	97	105.5	0.003	0.0005	0.001
40388481		1.2	18.9	121	155.0	0.005	0.0014	0.002
40388482		1.1	18.2	66	159.5	0.002	0.0011	0.001
40388483		1.1	18.5	71	149.5	0.001	0.0010	0.001
40388484		1.1	21.2	84	145.0	0.002	0.0013	0.001
40388485		1.0	17.8	185	148.0	0.003	0.0012	0.001
40388486		1.0	17.8	114	157.0	0.003	0.0012	0.001
40388487		1.4	21.3	170	147.0	0.005	0.0014	0.002
40388488		1.3	19.1	152	145.5	0.003	0.0014	0.002
40388489		1.4	19.7	168	148.0	0.005	0.0014	0.002
40388490		0.3	16.2	107	97.9	0.023	0.0381	0.215
40388491		1.3	21.2	157	143.5	0.005	0.0013	0.002
40388492		1.3	22.4	171	146.0	0.005	0.0014	0.002
40388493		1.1	19.7	149	162.5	0.004	0.0012	0.002
40388494		1.3	20.2	150	151.5	0.004	0.0012	0.002
40388495		1.1	18.5	92	155.5	0.002	0.0009	0.001
40388496		1.5	19.1	169	145.0	0.005	0.0015	0.002
40388497		1.5	19.8	179	146.5	0.004	0.0016	0.002
40388674		0.4	22.3	74	39.6	0.002	0.0011	0.001
40388675		0.2	7.8	19	3.6	0.001	<0.0005	<0.001
40388676		0.9	15.4	143	38.5	0.003	0.0016	0.002
40388677		3.6	7.6	21	50.1	0.003	<0.0005	<0.001
40388678		4.6	6.7	18	41.4	0.003	<0.0005	<0.001
40388679		4.9	4.6	12	31.2	0.002	<0.0005	<0.001
40388680		5.2	4.8	14	35.1	0.002	<0.0005	<0.001
40388681		3.3	3.9	12	44.0	0.002	<0.0005	<0.001
40388682		2.2	6.1	9	38.4	0.001	<0.0005	<0.001
40388683		1.1	4.4	5	8.0	0.002	<0.0005	<0.001
40388684		1.0	5.5	7	8.5	0.002	<0.0005	<0.001
40388685		1.2	5.0	6	7.8	0.001	<0.0005	<0.001
40388686		1.2	5.3	13	20.5	0.001	<0.0005	<0.001
40388687		1.2	4.7	11	18.6	0.004	<0.0005	<0.001
40388688		1.4	5.3	11	19.8	0.002	<0.0005	<0.001
40388689		1.8	5.5	16	29.6	0.003	<0.0005	<0.001
40388690		0.2	30.2	96	96.7	0.002	0.0009	0.001
40388691		2.0	4.4	10	13.1	0.002	<0.0005	<0.001
40388692		2.4	5.5	13	19.9	0.002	<0.0005	<0.001
40388693		2.2	6.1	24	59.7	0.002	<0.0005	<0.001
40388694		1.8	8.6	38	59.9	0.003	<0.0005	0.001
40388695		1.9	8.4	43	61.9	0.002	0.0006	0.001

Comments: \*\*Corrected copy for ME-MS61 on samples 40388695 to 40388700\*\*

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Project: EB80000966

**CERTIFICATE OF ANALYSIS TB18253985**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd WL	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		kg	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
40388696		13.55	0.03	3.65	25.6	230	2.15	0.13	0.87	<0.02	41.2	49.4	48	9.59	31.3	21.6
40388697		12.85	0.01	4.64	5.9	420	1.13	0.09	1.17	<0.02	44.1	27.5	71	2.06	15.8	15.20
40388698		13.63	0.01	4.52	7.4	350	1.64	0.09	1.51	<0.02	46.7	30.1	67	5.51	33.8	15.75
40388699		14.37	0.01	4.17	27.7	190	2.26	0.10	0.61	<0.02	44.9	33.6	50	15.25	21.7	19.25
40388700		0.17	0.60	8.34	4.0	310	0.61	0.13	6.07	0.26	27.0	67.4	1590	2.32	1080	7.49

Comments: \*\*Corrected copy for ME-MS61 on samples 40388695 to 40388700\*\*

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



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 Plus Appendix Pages  
 Finalized Date: 22-OCT-2018  
 Account: RTECIK BZ

Project: EB80000966

**CERTIFICATE OF ANALYSIS TB18253985**

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
40388696		10.70	0.13	1.6	0.029	2.16	12.5	47.6	1.12	845	0.67	0.19	6.7	21.1	350	8.1
40388697		13.20	0.09	3.5	0.045	4.71	18.3	20.7	0.65	960	0.89	0.12	10.9	22.9	320	10.6
40388698		12.95	0.12	3.8	0.039	3.26	19.5	33.4	1.00	1950	0.87	0.21	10.7	24.3	390	10.1
40388699		12.85	0.11	2.5	0.042	2.07	17.3	54.7	1.26	3180	0.86	0.21	11.3	26.2	430	7.6
40388700		20.9	0.07	2.6	0.065	0.78	10.8	39.9	4.02	988	3.00	1.43	7.7	637	650	6.2

Comments: \*\*Corrected copy for ME-MS61 on samples 40388695 to 40388700\*\*

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



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 Account: RTECIKBZ

Project: EB80000966

**CERTIFICATE OF ANALYSIS TB18253985**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
40388696		124.0	<0.002	<0.01	0.26	12.3	1	0.6	84.6	0.34	0.05	6.41	0.202	0.27	0.9	52
40388697		156.0	<0.002	<0.01	0.19	16.1	<1	1.0	139.5	0.68	<0.05	11.50	0.425	0.47	1.3	95
40388698		133.5	<0.002	<0.01	0.16	15.9	1	1.0	138.0	0.66	<0.05	11.35	0.423	0.37	1.6	92
40388699		143.0	<0.002	0.01	0.19	14.4	<1	0.9	64.8	0.65	0.05	7.09	0.346	0.30	1.1	79
40388700		15.9	0.003	0.33	0.68	20.1	2	1.7	391	0.49	0.10	1.13	0.731	0.52	0.3	161

Comments: \*\*Corrected copy for ME-MS61 on samples 40388695 to 40388700\*\*

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



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Project: EB80000966

**CERTIFICATE OF ANALYSIS TB18253985**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		W	Y	Zn	Zr	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5	0.001	0.0005	0.001
40388696		3.6	6.7	41	66.7	0.003	0.0007	0.001
40388697		1.1	10.1	35	132.0	0.002	0.0011	0.001
40388698		1.2	11.0	52	136.5	0.002	0.0007	0.001
40388699		3.0	10.3	44	98.0	0.001	<0.0005	<0.001
40388700		0.3	18.3	104	99.0	0.025	0.0724	0.236

Comments: \*\*Corrected copy for ME-MS61 on samples 40388695 to 40388700\*\*

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Project: EB80000966

**CERTIFICATE OF ANALYSIS TB18253985**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REE's may not be totally soluble in this method.  
ME-MS61

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada  
CRU-31 CRU-QC LOG-21 LOG-23  
PUL-32 PUL-QC SPL-22 SPL-22X  
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
ME-MS61 PGM-MS24





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**CERTIFICATE TB18168143**

Project: EB80001446  
 P.O. No.: 3103290934  
 This report is for 56 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 13-JUL-2018.

The following have access to data associated with this certificate:

RACHELLE BOULANGER  
 RTXAMRNA ASSAY RESULTS

SUE DRIEBERG  
 ROBERT RUSH

BRIAN GOLDNER

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarcode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO

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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: EB80001446

**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40356927		1.63	57.4	18.50	7.38	6.39	2.69	3.91	2.56	0.005	0.98	0.12	0.31	0.07	0.10	100.76
40386220		0.17	43.6	18.45	13.95	9.51	7.67	2.18	0.67	0.331	1.36	0.15	0.15	0.04	0.02	99.37
40386221		3.86	44.3	15.70	12.25	8.83	12.30	2.00	0.34	0.032	1.09	0.16	0.12	0.03	0.01	98.40
40386222		2.27	44.0	15.90	13.15	8.68	12.60	1.87	0.39	0.258	1.06	0.17	0.09	0.03	0.01	100.07
40386223		2.49	44.7	22.8	8.54	11.75	4.19	2.56	0.59	0.697	1.48	0.09	0.12	0.04	0.02	98.95
40386224		2.83	42.3	19.45	11.70	10.25	9.63	1.74	0.25	0.029	0.70	0.12	0.07	0.03	0.01	98.28
40386225		2.85	42.4	19.85	11.85	10.20	8.76	1.86	0.33	0.025	0.88	0.11	0.09	0.03	0.01	98.57
40386226		3.01	43.1	20.1	10.70	10.40	8.89	1.87	0.31	0.030	0.82	0.11	0.09	0.03	0.01	98.44
40386227		2.78	42.5	20.4	11.50	10.35	7.99	1.82	0.33	0.029	0.74	0.11	0.08	0.03	0.01	98.25
40386228		1.79	45.6	20.4	9.25	11.90	5.58	2.34	0.72	0.023	1.39	0.11	0.16	0.03	0.02	100.31
40386229		1.10	46.1	20.1	10.50	9.11	6.36	2.58	0.53	0.019	0.88	0.09	0.10	0.03	0.02	98.85
40386230		0.89	46.0	20.2	10.30	9.46	6.07	2.53	0.53	0.025	0.96	0.09	0.09	0.03	0.02	98.57
40386231		2.86	43.8	19.35	12.00	9.68	9.73	1.96	0.34	0.037	0.77	0.12	0.10	0.03	0.01	99.45
40386232		1.77	43.6	19.70	11.60	10.15	7.98	2.02	0.36	0.032	0.68	0.10	0.11	0.04	0.02	98.35
40386233		2.00	45.1	19.80	11.30	9.67	9.00	2.38	0.36	0.028	0.79	0.12	0.09	0.03	0.01	99.55
40386234		2.82	46.0	16.25	13.00	8.97	6.61	2.97	0.49	0.009	3.30	0.16	0.23	0.03	0.02	99.31
40386235		2.91	45.7	18.55	11.05	9.95	9.12	2.26	0.43	0.042	1.26	0.14	0.12	0.03	0.02	99.47
40386236		2.87	44.4	18.00	12.30	9.52	7.84	2.27	0.45	0.035	1.58	0.14	0.18	0.03	0.01	99.02
40386237		2.84	44.9	18.40	12.00	9.80	8.11	2.24	0.47	0.024	1.25	0.13	0.15	0.03	0.02	98.81
40386238		2.84	43.7	19.70	11.55	9.72	8.30	1.91	0.47	0.022	0.78	0.12	0.09	0.03	0.02	98.97
40386239		2.75	42.7	17.80	12.60	8.63	9.89	1.67	0.54	0.025	0.83	0.13	0.11	0.03	0.02	98.04
40386240		1.60	60.5	17.50	6.55	5.80	2.32	3.81	2.46	0.003	0.84	0.10	0.24	0.06	0.10	100.56
40386241		2.75	46.4	19.25	11.30	8.65	6.94	2.79	0.76	0.016	0.90	0.11	0.16	0.04	0.02	101.01
40386242		2.45	44.4	17.75	12.85	9.11	8.87	1.82	0.47	0.029	0.83	0.12	0.12	0.03	0.02	100.60
40386243		2.85	44.2	19.45	12.55	7.99	7.03	2.59	0.90	0.021	0.75	0.11	0.11	0.05	0.03	99.99
40386244		2.77	44.8	19.75	12.55	9.12	6.57	2.63	0.83	0.023	0.75	0.10	0.11	0.04	0.02	101.54
40386245		2.80	43.5	19.55	12.35	9.32	5.98	2.54	0.73	0.016	0.81	0.11	0.12	0.05	0.02	99.25
40386246		2.70	43.2	19.25	12.30	9.60	7.07	2.20	0.68	0.016	0.72	0.11	0.10	0.04	0.02	99.66
40386247		2.77	42.6	18.80	12.95	10.35	6.67	2.05	0.58	0.016	0.85	0.11	0.11	0.03	0.02	99.29
40386248		2.72	47.7	16.60	11.10	11.25	7.60	2.28	0.34	0.023	1.07	0.12	0.16	0.02	0.01	101.66
40386249		2.83	46.7	15.25	12.50	9.37	7.06	2.61	0.39	0.022	1.73	0.15	0.36	0.02	0.02	98.24
40386250		0.16	45.5	18.15	14.20	9.84	8.01	2.18	0.65	0.335	1.32	0.15	0.17	0.03	0.02	101.87
40386251		3.16	46.1	16.30	14.30	9.38	7.02	2.68	0.40	0.012	1.85	0.16	0.47	0.03	0.02	100.18
40386252		2.97	47.4	13.55	14.85	9.52	5.88	3.21	0.26	0.018	2.90	0.17	0.43	0.02	0.01	100.30
40386253		2.48	46.9	14.25	15.30	8.86	5.88	3.23	0.32	0.008	2.92	0.18	0.61	0.02	0.01	100.72
40386254		2.89	45.0	19.25	10.15	10.25	7.31	2.18	0.44	0.021	0.72	0.10	0.10	0.03	0.02	98.03
40386255		2.83	44.3	19.10	11.15	9.62	7.49	2.21	0.35	0.020	0.74	0.10	0.09	0.04	0.01	98.87
40386256		2.80	45.8	19.15	10.10	10.15	8.37	2.15	0.35	0.023	0.84	0.10	0.09	0.03	0.01	100.02
40386257		2.90	45.9	19.25	9.85	9.95	8.36	2.22	0.35	0.020	0.91	0.10	0.11	0.03	0.01	99.26
40386258		2.85	44.2	20.5	10.30	10.20	7.02	2.15	0.30	0.018	0.65	0.09	0.07	0.04	0.01	98.63



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Project: EB80001446

**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40356927		0.34	0.05	0.10	767	70.7	20	1.27	6.25	3.39	1.58	22.8	6.74	7.3	1.16	31.0
40386220		1.29	0.03	0.85	143.0	21.6	2060	2.43	3.06	1.53	1.06	19.2	3.08	2.6	0.61	9.9
40386221		1.24	0.01	0.03	127.0	21.6	230	1.77	2.90	1.73	1.08	18.7	3.16	2.3	0.63	9.5
40386222		1.86	0.01	0.07	114.0	17.1	1810	2.23	2.39	1.37	0.88	18.1	2.67	1.7	0.53	7.7
40386223		1.37	0.01	0.55	140.5	21.8	4690	2.41	2.88	1.75	1.08	22.6	3.13	2.2	0.63	9.7
40386224		2.00	0.01	1.47	74.3	13.0	180	1.43	1.69	1.02	0.65	16.5	2.03	1.3	0.38	5.9
40386225		2.17	0.01	1.76	87.4	15.1	170	1.61	1.88	1.31	0.78	17.4	2.21	1.5	0.41	6.7
40386226		1.98	0.01	1.19	97.5	15.4	190	1.65	1.98	1.16	0.81	18.4	2.13	1.6	0.44	6.9
40386227		2.36	0.01	1.32	114.0	14.5	210	1.93	2.14	1.14	0.86	17.7	2.40	1.6	0.44	6.9
40386228		2.79	0.01	0.75	205	24.6	150	1.65	3.35	2.00	1.26	19.3	3.56	2.6	0.73	11.5
40386229		2.43	0.01	1.24	152.5	28.8	110	2.51	3.32	2.07	1.01	17.4	3.51	3.8	0.72	14.1
40386230		2.26	0.01	1.26	162.0	27.9	160	2.53	3.60	1.94	1.15	18.1	3.46	2.9	0.77	13.5
40386231		1.52	0.01	1.26	124.5	16.1	270	2.18	2.18	1.38	0.93	16.9	2.33	1.9	0.46	7.7
40386232		1.96	0.01	1.61	192.5	16.6	240	2.20	2.39	1.35	1.11	17.8	2.57	1.8	0.49	7.8
40386233		0.87	0.01	0.82	120.0	18.1	190	1.97	2.49	1.42	1.12	17.9	2.49	1.9	0.52	8.7
40386234		1.27	0.01	0.15	144.5	38.9	60	1.52	5.18	3.19	1.65	21.1	5.93	4.6	1.13	18.1
40386235		0.80	0.01	0.30	117.0	18.0	240	1.68	2.79	1.70	0.89	15.1	3.00	2.1	0.56	8.7
40386236		2.26	0.01	0.97	130.0	31.1	230	2.04	4.24	2.47	1.35	17.9	4.53	3.4	0.84	14.6
40386237		1.29	0.01	0.83	143.5	21.6	140	2.33	3.31	1.94	1.09	15.5	3.42	2.5	0.65	9.9
40386238		2.56	0.01	1.10	178.5	19.1	170	3.60	2.71	1.63	1.11	20.6	2.92	2.0	0.54	9.1
40386239		3.06	0.01	1.03	170.0	17.3	170	4.22	2.46	1.40	1.07	17.8	2.61	1.9	0.51	8.3
40386240		0.28	0.05	0.09	914	58.0	20	1.27	5.34	2.99	1.59	22.6	5.98	6.2	1.03	27.6
40386241		3.67	0.01	1.11	214	25.7	110	4.09	3.14	1.83	1.25	20.1	3.51	2.9	0.67	12.3
40386242		4.18	0.02	1.29	148.5	18.8	200	3.52	2.78	1.45	1.20	18.1	2.80	2.2	0.55	9.1
40386243		4.21	0.01	2.05	246	18.1	150	6.52	2.43	1.35	1.17	18.2	2.35	1.8	0.56	8.6
40386244		4.25	<0.01	1.72	196.0	20.5	160	5.84	2.65	1.58	1.26	19.0	2.95	2.0	0.53	9.9
40386245		4.15	<0.01	1.66	160.5	19.4	120	5.10	2.58	1.53	1.28	19.2	2.75	1.7	0.51	9.3
40386246		4.35	0.01	1.33	153.5	16.6	110	3.21	2.38	1.26	1.12	18.1	2.35	1.6	0.47	7.8
40386247		4.15	0.01	1.34	139.5	18.9	120	2.05	2.60	1.52	1.13	18.6	2.68	2.0	0.52	9.0
40386248		3.39	0.06	0.39	101.5	44.5	160	1.94	4.28	2.26	1.42	23.1	4.57	5.1	0.83	21.9
40386249		2.06	0.01	0.41	153.5	57.6	160	2.14	7.93	4.40	1.98	23.2	8.10	6.1	1.58	27.3
40386250		1.31	0.04	0.88	160.0	24.0	2240	2.67	3.36	1.88	1.18	21.3	3.37	2.6	0.66	11.4
40386251		1.46	0.01	0.43	171.0	54.3	80	2.79	7.32	4.31	2.14	25.3	7.81	5.1	1.51	25.3
40386252		2.08	0.01	0.22	115.0	79.2	120	1.77	10.35	5.81	2.44	27.2	11.05	7.6	2.12	38.2
40386253		2.23	0.01	0.53	124.0	89.8	60	2.63	11.95	6.95	2.83	27.6	12.50	9.0	2.34	42.7
40386254		2.46	0.01	0.84	148.5	18.3	150	2.68	1.92	1.20	1.06	19.7	2.20	1.4	0.38	8.5
40386255		3.65	0.01	0.77	113.0	17.1	140	1.88	2.09	1.25	1.22	20.0	2.45	1.4	0.45	8.1
40386256		2.86	0.01	0.40	115.5	15.4	160	2.88	2.16	1.13	1.27	19.5	2.27	1.6	0.41	7.6
40386257		2.20	0.01	0.23	118.5	17.5	150	3.37	2.45	1.30	1.43	20.1	2.52	1.7	0.50	8.5
40386258		3.08	0.01	1.11	99.9	12.8	130	1.88	1.63	1.06	1.37	20.6	1.77	1.2	0.35	6.2



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Plus Appendix Pages  
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 Account: RTECIKBZ

Project: EB80001446

**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5	W ppm 1
40356927		0.43	13.1	38.2	9.34	90.6	8.00	2	516	0.6	1.05	4.44	0.52	1.42	113	1
40386220		0.25	6.9	12.6	2.81	19.5	3.17	2	295	0.4	0.54	0.95	0.22	0.24	180	<1
40386221		0.24	6.5	11.6	2.91	8.9	3.03	1	235	0.4	0.50	0.94	0.25	0.24	144	1
40386222		0.20	5.1	9.6	2.23	9.8	2.48	1	223	0.3	0.42	0.69	0.20	0.18	191	1
40386223		0.24	6.4	12.5	2.81	15.8	2.84	1	299	0.4	0.54	0.84	0.25	0.24	267	<1
40386224		0.15	3.8	7.4	1.70	5.9	1.77	1	240	0.2	0.32	0.48	0.16	0.12	81	<1
40386225		0.16	5.2	8.7	1.93	6.6	2.26	1	266	0.3	0.36	0.57	0.18	0.15	93	1
40386226		0.16	4.8	8.6	2.00	7.6	2.10	1	281	0.3	0.35	0.65	0.16	0.19	93	1
40386227		0.15	4.7	8.8	2.06	8.1	2.00	1	288	0.2	0.35	0.63	0.16	0.15	90	1
40386228		0.25	7.6	14.0	3.29	20.5	3.24	1	281	0.4	0.63	1.22	0.26	0.31	157	2
40386229		0.30	8.0	15.5	3.66	13.6	3.64	1	256	0.4	0.54	1.98	0.28	0.55	77	1
40386230		0.25	8.2	14.3	3.62	15.7	3.42	1	277	0.4	0.56	1.87	0.29	0.53	98	1
40386231		0.15	4.8	9.5	2.16	8.8	2.36	1	288	0.2	0.37	0.74	0.18	0.23	95	1
40386232		0.17	5.0	9.8	2.30	8.1	2.29	1	333	0.2	0.40	0.73	0.18	0.17	96	1
40386233		0.19	5.1	10.3	2.45	7.4	2.19	1	280	0.3	0.43	0.90	0.20	0.25	95	1
40386234		0.42	15.9	22.6	5.30	15.0	5.65	1	259	0.8	0.91	1.87	0.47	0.60	289	1
40386235		0.20	6.2	10.9	2.42	9.4	2.82	1	234	0.3	0.46	0.86	0.23	0.23	132	1
40386236		0.34	10.6	17.3	4.10	10.4	3.89	1	239	0.5	0.77	1.51	0.31	0.44	149	1
40386237		0.19	6.6	12.6	2.86	11.7	3.02	1	236	0.3	0.51	0.96	0.24	0.28	132	1
40386238		0.19	5.4	10.6	2.60	17.4	2.88	1	308	0.2	0.44	0.94	0.23	0.23	115	<1
40386239		0.17	5.2	9.9	2.33	20.6	2.44	1	248	0.3	0.39	0.76	0.19	0.23	110	1
40386240		0.40	12.3	30.7	7.93	92.9	6.71	2	541	0.6	0.92	4.93	0.41	2.00	109	1
40386241		0.25	6.9	14.3	3.45	31.2	3.29	2	374	0.4	0.59	1.73	0.27	0.69	103	1
40386242		0.21	5.2	10.6	2.53	16.8	2.79	1	261	0.3	0.44	0.92	0.20	0.31	115	1
40386243		0.20	5.0	9.8	2.50	37.2	2.43	1	440	0.3	0.42	0.76	0.22	0.23	110	1
40386244		0.23	5.6	11.4	2.76	31.8	2.67	1	410	0.3	0.46	0.99	0.22	0.33	113	1
40386245		0.21	5.5	11.0	2.75	26.3	2.66	1	386	0.4	0.47	0.93	0.19	0.24	122	1
40386246		0.18	4.8	9.3	2.23	25.1	2.20	1	319	0.3	0.38	0.75	0.17	0.22	105	2
40386247		0.21	5.6	10.6	2.53	19.5	2.41	2	288	0.3	0.45	0.80	0.19	0.22	110	1
40386248		0.38	8.3	22.6	5.89	9.9	5.07	2	220	0.6	0.70	3.23	0.32	1.23	138	1
40386249		0.64	16.7	33.7	8.07	11.6	7.96	2	250	1.0	1.34	2.72	0.66	0.75	200	2
40386250		0.26	7.5	13.7	3.27	20.5	3.46	2	342	0.4	0.59	1.09	0.26	0.26	165	1
40386251		0.58	15.8	32.5	7.59	12.2	7.75	1	281	0.9	1.17	2.18	0.58	0.66	188	1
40386252		0.77	22.2	44.2	10.80	7.5	10.60	2	224	1.2	1.77	3.54	0.78	1.03	353	1
40386253		0.91	25.8	51.7	12.40	10.9	11.90	2	236	1.5	2.09	4.39	0.94	1.04	247	1
40386254		0.16	7.5	10.1	2.50	13.1	2.06	1	319	0.2	0.36	0.78	0.16	0.17	101	1
40386255		0.16	5.3	9.2	2.25	10.1	2.41	1	304	0.3	0.38	0.70	0.19	0.18	97	1
40386256		0.16	4.9	8.5	2.05	10.5	2.14	1	325	0.3	0.38	0.66	0.17	0.16	105	1
40386257		0.19	5.4	10.3	2.43	10.2	2.50	1	324	0.3	0.44	0.78	0.20	0.18	102	1
40386258		0.13	4.0	7.6	1.83	8.7	1.76	1	339	0.2	0.28	0.55	0.13	0.13	90	1





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Project: EB80001446

**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40356927		32.5	3.15	297	0.3	0.01	<0.005	0.029	<0.001	<0.05	0.2	0.01	0.36	0.03	0.09	17.8
40386220		15.2	1.48	97	8.2	0.48	0.007	0.051	0.007	0.35	3.2	0.16	0.31	1.51	0.46	96.6
40386221		15.7	1.63	92	1.2	0.01	<0.005	0.016	0.001	0.06	0.3	<0.01	0.06	0.06	0.10	71.1
40386222		12.7	1.19	65	7.6	0.09	<0.005	0.020	0.001	0.10	0.7	0.05	0.11	0.51	0.07	76.7
40386223		15.9	1.55	90	1.0	0.11	<0.005	0.037	0.008	0.58	3.3	0.22	0.17	0.86	0.16	50.2
40386224		9.3	0.90	53	0.5	0.40	<0.005	0.055	0.019	0.05	6.7	0.41	0.04	2.70	0.36	118.5
40386225		10.8	1.11	64	0.2	0.55	<0.005	0.067	0.018	<0.05	6.7	0.31	0.05	2.76	0.40	127.5
40386226		10.7	1.08	63	0.5	0.39	<0.005	0.041	0.017	<0.05	4.2	0.20	0.07	1.79	0.35	106.0
40386227		10.8	1.10	60	175.0	0.68	0.005	0.062	0.017	0.47	5.6	0.41	0.10	2.85	0.47	126.5
40386228		17.4	1.71	96	47.0	0.24	<0.005	0.039	0.010	0.18	2.7	0.18	0.12	1.80	0.20	71.0
40386229		17.4	1.83	140	2.6	0.37	<0.005	0.061	0.013	0.20	4.0	0.20	0.18	2.20	0.34	98.4
40386230		17.5	1.98	105	2.3	0.39	<0.005	0.064	0.016	0.23	4.1	0.19	0.18	2.24	0.38	105.5
40386231		11.6	1.20	74	1.0	0.37	<0.005	0.054	0.013	0.07	4.1	0.17	0.12	2.02	0.47	123.5
40386232		11.5	1.18	67	8.1	0.45	<0.005	0.065	0.017	0.08	4.1	0.23	0.11	2.31	0.63	128.0
40386233		12.1	1.27	69	0.5	0.22	<0.005	0.041	0.009	<0.05	2.2	0.10	0.05	0.97	0.34	90.6
40386234		27.9	2.84	181	0.8	0.02	<0.005	0.024	0.001	<0.05	0.3	0.01	0.07	0.15	0.10	55.2
40386235		14.1	1.34	81	1.9	0.08	<0.005	0.027	0.005	<0.05	1.1	0.05	0.06	0.41	0.14	69.6
40386236		21.2	2.12	130	1.0	0.25	<0.005	0.045	0.013	0.06	2.2	0.10	0.13	1.05	0.37	96.1
40386237		15.7	1.64	91	5.6	0.14	<0.005	0.054	0.014	0.07	2.7	0.12	0.11	1.15	0.38	101.5
40386238		13.4	1.42	78	0.6	0.36	<0.005	0.039	0.013	0.07	2.7	0.12	0.19	1.06	0.43	107.5
40386239		12.1	1.24	75	1.2	0.22	<0.005	0.043	0.009	<0.05	2.4	0.09	0.23	0.80	0.37	112.5
40386240		27.9	2.58	250	<0.1	0.01	<0.005	0.027	<0.001	<0.05	<0.2	0.03	0.34	0.03	0.07	16.3
40386241		16.4	1.69	111	18.7	0.35	0.005	0.060	0.009	0.17	2.8	0.15	0.21	1.18	0.46	114.5
40386242		13.7	1.28	81	5.9	0.29	0.006	0.052	0.012	0.11	3.0	0.12	0.37	1.02	0.33	116.0
40386243		12.4	1.03	70	0.8	0.48	0.006	0.068	0.015	0.17	3.9	0.16	0.35	1.78	0.60	147.0
40386244		14.1	1.46	79	1.2	0.43	<0.005	0.076	0.014	0.22	3.6	0.20	0.36	1.70	0.57	137.0
40386245		13.2	1.12	72	0.8	0.47	0.006	0.080	0.012	0.25	2.9	0.21	0.28	1.61	0.62	133.5
40386246		11.5	1.19	65	0.9	0.36	0.005	0.060	0.012	0.14	2.3	0.13	0.15	1.32	0.60	114.0
40386247		13.2	1.26	74	1.5	0.39	<0.005	0.065	0.016	0.21	3.5	0.15	0.16	1.54	0.70	149.5
40386248		22.1	2.29	209	16.4	0.26	<0.005	0.053	0.006	0.17	2.3	0.13	0.07	0.80	0.47	83.8
40386249		40.3	4.13	233	1.6	0.12	<0.005	0.033	0.007	0.07	1.1	0.03	0.08	0.45	0.27	71.7
40386250		17.0	1.75	100	6.5	0.50	0.010	0.049	0.007	0.35	3.1	0.18	0.34	1.57	0.46	96.0
40386251		38.7	3.54	203	2.2	0.10	<0.005	0.045	0.005	0.07	1.7	0.05	0.07	0.47	0.22	70.5
40386252		54.0	5.39	305	56.1	0.19	<0.005	0.065	0.005	0.29	1.1	0.09	0.05	0.44	0.23	63.4
40386253		61.6	6.09	363	8.0	0.14	<0.005	0.050	0.008	0.14	1.3	0.05	0.08	0.54	0.25	73.3
40386254		10.3	0.93	53	1.1	0.21	<0.005	0.037	0.010	0.14	2.6	0.10	0.10	1.04	0.39	84.1
40386255		11.2	1.03	60	1.6	0.22	<0.005	0.038	0.011	0.13	2.5	0.09	0.07	1.02	0.37	95.7
40386256		10.8	1.09	61	2.3	0.14	<0.005	0.024	0.003	0.11	1.1	0.02	0.04	0.37	0.17	74.3
40386257		12.4	1.35	69	1.0	0.06	<0.005	0.025	0.002	0.08	0.4	0.02	0.04	0.22	0.10	61.5
40386258		8.9	0.84	49	2.9	0.34	<0.005	0.045	0.009	0.17	2.5	0.10	0.07	1.15	0.40	104.0





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Project: EB80001446

**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.005	0.001
40356927		19.1	20.9	1.05	14.0	11.8	15.9	91	<0.001	<0.005	0.001
40386220		3940	29.0	4.97	1980	8.2	17.8	111	0.078	0.141	0.786
40386221		110.5	23.1	0.85	550	3.1	18.4	104	<0.001	<0.005	0.016
40386222		473	24.2	0.62	758	2.6	17.8	102	0.029	0.047	0.202
40386223		2840	15.6	1.01	1770	2.5	16.2	84	0.098	0.263	1.270
40386224		8010	12.3	0.77	4500	1.8	12.4	97	0.144	0.269	1.320
40386225		7970	13.0	0.60	4290	2.0	11.5	84	0.149	0.220	1.155
40386226		5680	16.2	0.57	2870	3.0	11.9	67	0.088	0.183	0.855
40386227		8430	21.4	0.57	3860	2.7	10.7	80	0.121	0.217	1.155
40386228		4290	27.7	0.76	1830	1.8	17.9	63	0.069	0.100	0.491
40386229		6440	21.4	0.82	2550	3.6	10.1	91	0.085	0.157	0.824
40386230		6980	19.6	0.96	2810	2.9	11.4	90	0.078	0.158	0.876
40386231		5790	23.0	0.57	2610	4.3	11.5	84	0.069	0.136	0.793
40386232		6760	22.5	0.64	2890	4.1	10.5	87	0.083	0.152	0.944
40386233		2860	16.2	0.76	1470	3.0	11.3	80	0.030	0.062	0.332
40386234		416	15.8	1.10	330	2.0	29.0	103	0.007	0.006	0.041
40386235		1215	15.3	0.72	730	2.1	19.0	86	0.014	0.034	0.108
40386236		2990	19.6	1.05	1560	3.4	19.1	96	0.033	0.070	0.314
40386237		3250	17.0	0.87	1820	2.4	20.5	96	0.038	0.071	0.338
40386238		2930	22.0	0.58	1720	2.7	11.6	87	0.043	0.088	0.346
40386239		2320	27.8	0.56	1460	2.7	13.4	93	0.037	0.084	0.258
40386240		27.2	19.6	1.01	17.4	12.3	13.3	83	<0.001	<0.005	0.002
40386241		3310	39.6	0.76	1580	3.5	11.6	82	0.053	0.062	0.304
40386242		2740	30.5	0.60	1690	2.7	16.4	97	0.030	0.085	0.323
40386243		4830	61.3	0.69	2590	5.1	10.6	113	0.064	0.116	0.515
40386244		4360	50.8	0.74	2320	5.3	11.5	110	0.057	0.112	0.507
40386245		4210	38.8	0.77	1900	5.1	11.1	105	0.042	0.082	0.388
40386246		3380	33.8	0.99	1590	5.4	8.8	93	0.033	0.067	0.315
40386247		3870	28.1	0.82	1870	5.6	10.2	107	0.021	0.085	0.349
40386248		2010	15.3	1.03	911	16.4	17.9	239	0.025	0.038	0.159
40386249		1255	13.6	1.85	665	3.9	22.4	120	0.012	0.025	0.106
40386250		3970	25.5	5.21	2000	8.3	16.4	113	0.077	0.172	0.791
40386251		1410	11.3	1.59	713	2.3	20.5	129	0.017	0.035	0.137
40386252		1480	12.9	2.01	652	2.4	36.1	164	0.038	0.040	0.135
40386253		1755	11.5	2.65	688	3.3	27.2	154	0.018	0.027	0.127
40386254		2860	15.7	0.60	1370	3.6	9.2	96	0.028	0.067	0.260
40386255		2590	18.6	0.60	1165	2.7	9.8	104	0.023	0.054	0.214
40386256		1095	16.9	0.50	586	1.8	9.9	80	0.016	0.036	0.119
40386257		653	14.5	0.61	361	1.6	10.0	74	0.004	0.012	0.047
40386258		3060	18.0	0.91	1225	3.2	7.9	72	0.028	0.056	0.250



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Project: EB80001446

**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40386259		1.37	44.1	20.1	10.40	10.25	6.97	2.21	0.31	0.019	0.59	0.09	0.06	0.03	0.01	98.58
40386260		1.58	44.6	20.4	10.65	10.35	7.07	2.25	0.32	0.020	0.59	0.09	0.07	0.03	0.01	99.64
40386261		2.89	44.7	20.8	10.15	10.35	7.36	2.16	0.30	0.019	0.65	0.09	0.07	0.04	0.01	98.91
40386262		2.62	43.7	20.1	9.97	9.90	7.89	1.90	0.29	0.020	0.65	0.09	0.07	0.04	0.01	98.42
40386263		2.81	45.7	20.9	8.65	10.85	7.51	2.03	0.35	0.020	0.64	0.09	0.08	0.04	0.01	99.55
40386264		2.81	46.6	17.35	10.30	11.50	8.42	2.17	0.33	0.041	1.90	0.13	0.20	0.03	0.01	101.66
40386265		2.80	45.8	20.3	8.24	10.95	8.95	1.91	0.30	0.021	0.66	0.10	0.08	0.03	0.01	100.32
40386266		2.63	45.5	20.4	7.59	12.50	7.66	1.84	0.31	0.026	0.66	0.10	0.08	0.03	0.01	99.65
40386267		2.73	45.7	21.3	7.25	11.30	7.56	2.06	0.29	0.033	0.64	0.08	0.08	0.03	0.01	99.12
40386268		2.67	45.8	21.3	7.89	11.50	7.74	2.03	0.28	0.035	0.73	0.09	0.07	0.04	0.01	99.87
40386269		2.89	45.5	20.7	7.81	11.15	8.68	1.91	0.30	0.025	0.80	0.10	0.09	0.03	0.01	99.54
40386270		1.36	58.1	17.65	7.50	6.48	2.73	3.71	2.38	0.003	1.01	0.12	0.31	0.06	0.12	100.69
40386271		2.86	46.0	23.4	6.57	12.35	5.95	2.20	0.53	0.018	0.62	0.08	0.06	0.04	0.01	101.75
40386272		2.68	46.1	22.1	8.01	11.90	6.14	2.21	0.48	0.066	0.87	0.10	0.09	0.03	0.01	100.61
40386273		1.43	48.1	19.55	9.28	11.90	7.06	2.32	0.38	0.078	1.21	0.12	0.13	0.03	0.02	101.46
40386274		1.63	47.4	19.90	10.10	10.40	7.17	2.45	0.37	0.055	1.25	0.12	0.16	0.03	0.02	100.32



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Project: EB80001446

**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386259		3.44	0.01	1.43	96.6	11.3	140	2.15	1.54	0.95	1.32	19.0	1.62	1.1	0.32	5.5
40386260		3.19	0.01	1.43	95.8	11.6	140	2.16	1.49	0.79	1.25	19.3	1.46	1.1	0.31	5.6
40386261		2.21	0.01	0.93	102.5	12.8	140	2.07	1.79	1.07	1.38	20.1	1.66	1.3	0.35	6.3
40386262		3.79	0.01	1.08	104.0	13.6	150	2.00	1.85	1.01	1.39	21.6	1.86	1.3	0.36	6.5
40386263		2.68	<0.01	0.57	115.5	12.8	140	3.24	1.75	1.05	1.20	21.0	1.79	1.2	0.36	6.3
40386264		2.68	0.02	0.10	107.0	30.8	290	2.01	4.51	2.64	1.39	22.8	4.90	3.6	0.95	14.5
40386265		2.97	0.03	0.10	95.2	12.5	140	2.62	1.73	1.02	0.87	20.7	1.78	1.3	0.36	6.1
40386266		2.94	0.01	0.16	105.5	13.0	190	2.24	1.69	1.01	0.96	21.7	1.75	1.3	0.34	6.4
40386267		2.79	0.01	0.04	95.4	12.5	230	2.27	1.65	0.97	0.79	20.4	1.80	1.3	0.37	6.1
40386268		2.35	0.01	0.04	93.9	13.2	250	2.31	2.09	1.05	0.83	21.4	1.89	1.4	0.36	6.5
40386269		2.43	0.01	0.05	103.5	15.5	180	2.49	2.08	1.23	0.91	21.5	2.24	1.4	0.48	7.5
40386270		0.52	0.06	0.09	1135	62.3	30	1.31	6.38	3.58	1.70	27.4	6.83	6.8	1.23	29.0
40386271		3.92	0.01	0.18	125.5	11.9	120	3.85	1.67	0.91	0.80	22.2	1.63	1.2	0.30	5.9
40386272		2.50	0.01	0.08	128.0	16.3	470	3.85	2.20	1.24	0.93	22.5	2.21	1.6	0.43	7.7
40386273		1.28	<0.01	0.02	134.5	21.8	560	2.32	3.52	1.94	1.14	23.2	3.45	2.4	0.72	10.3
40386274		0.89	<0.01	0.02	125.5	27.8	350	1.89	3.56	2.10	1.16	18.6	3.96	2.4	0.71	11.9



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Project: EB80001446

**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386259		0.11	3.7	6.3	1.57	9.5	1.69	1	350	0.2	0.28	0.49	0.11	0.11	81	1
40386260		0.11	3.3	6.6	1.53	9.6	1.60	1	354	0.2	0.26	0.46	0.13	0.11	84	1
40386261		0.14	3.8	7.5	1.78	8.8	1.61	1	343	0.2	0.28	0.57	0.14	0.14	91	1
40386262		0.14	4.1	7.6	1.88	9.3	1.93	1	342	0.2	0.28	0.58	0.14	0.16	97	1
40386263		0.14	3.6	7.6	1.73	11.0	1.74	1	344	0.2	0.28	0.52	0.15	0.12	85	1
40386264		0.37	10.5	17.8	4.25	10.9	4.48	1	288	0.7	0.70	1.37	0.36	0.34	229	1
40386265		0.12	3.4	6.9	1.76	8.3	1.75	1	318	0.2	0.28	0.54	0.14	0.13	87	<1
40386266		0.17	3.6	7.1	1.75	9.6	1.78	1	305	0.2	0.28	0.55	0.14	0.12	97	1
40386267		0.13	3.6	6.8	1.69	7.7	1.53	1	338	0.2	0.31	0.47	0.13	0.15	81	1
40386268		0.16	4.0	7.8	1.78	7.5	1.67	1	327	0.3	0.31	0.54	0.14	0.14	97	1
40386269		0.19	4.6	8.5	2.15	9.5	2.15	<1	330	0.3	0.35	0.64	0.17	0.17	92	1
40386270		0.50	12.7	35.7	8.75	90.0	7.70	2	596	0.6	1.02	4.51	0.55	1.62	126	1
40386271		0.11	3.4	6.7	1.60	22.8	1.60	1	403	0.2	0.30	0.41	0.12	0.12	74	1
40386272		0.18	5.0	8.9	2.20	19.0	2.04	1	352	0.3	0.44	0.65	0.17	0.29	100	1
40386273		0.26	6.5	12.3	3.06	11.2	3.16	1	290	0.4	0.58	0.96	0.28	0.29	162	1
40386274		0.27	7.6	15.2	3.36	10.2	3.77	1	273	0.4	0.57	1.16	0.30	0.28	130	11



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**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	
40386259		7.7	0.76	42	3.9	0.42	<0.005	0.054	0.016	0.21	2.8	0.12	0.10	1.28	0.54	123.5
40386260		7.8	0.71	42	5.1	0.42	0.005	0.062	0.017	0.21	2.9	0.12	0.10	1.39	0.55	134.5
40386261		8.8	0.89	48	2.4	0.24	<0.005	0.049	0.016	0.11	2.8	0.08	0.06	0.95	0.38	98.0
40386262		9.5	0.95	51	3.6	0.24	0.007	0.034	0.008	0.10	2.3	0.07	0.05	0.96	0.31	95.6
40386263		9.2	0.86	49	7.8	0.13	<0.005	0.020	0.003	0.17	1.1	0.05	0.03	0.40	0.17	73.6
40386264		23.7	2.22	138	2.2	0.02	<0.005	0.011	0.001	0.07	0.3	<0.01	0.02	0.03	0.09	47.8
40386265		8.8	0.83	47	5.2	0.05	<0.005	0.012	0.001	0.14	0.3	<0.01	0.04	0.05	0.07	51.1
40386266		9.5	0.88	52	1.6	0.05	0.007	0.012	0.002	0.08	0.5	0.01	0.02	0.13	0.11	47.2
40386267		8.9	0.86	47	8.7	0.01	0.005	0.012	<0.001	0.13	0.4	<0.01	0.03	0.03	0.05	43.1
40386268		9.6	0.90	51	8.0	0.01	<0.005	0.016	<0.001	0.11	0.3	<0.01	0.02	0.03	0.06	43.9
40386269		10.9	1.01	54	1.3	0.02	<0.005	0.011	<0.001	0.05	0.4	0.01	0.02	0.04	0.06	46.8
40386270		33.3	3.37	279	0.4	0.02	<0.005	0.032	0.001	<0.05	0.3	0.01	0.33	0.02	0.09	18.0
40386271		8.2	0.80	45	0.4	0.08	<0.005	0.017	0.003	0.09	1.0	0.07	<0.02	0.41	0.12	39.6
40386272		11.3	1.16	66	18.1	0.02	0.005	0.022	0.001	0.19	0.7	0.03	0.03	0.11	0.04	41.1
40386273		17.2	1.73	85	0.6	0.01	<0.005	0.013	0.001	<0.05	0.4	<0.01	0.03	0.08	0.07	40.7
40386274		20.0	1.89	98	3.5	0.01	<0.005	0.013	<0.001	0.06	<0.2	<0.01	0.03	0.04	0.08	45.1





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**CERTIFICATE OF ANALYSIS TB18168143**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.005	0.001
40386259		3460	21.3	0.91	1490	4.0	7.1	70	0.024	0.063	0.286
40386260		3930	20.3	1.03	1645	3.8	6.5	74	0.027	0.071	0.325
40386261		2840	15.0	0.80	1265	2.9	8.0	64	0.024	0.040	0.156
40386262		2680	20.4	0.64	1365	6.0	8.6	69	0.016	0.045	0.131
40386263		986	16.3	0.48	715	3.0	7.7	59	0.014	0.058	0.115
40386264		95.4	13.2	0.88	126.5	1.4	20.0	66	<0.001	0.007	0.011
40386265		121.0	16.8	0.48	317	4.7	9.1	61	0.001	0.013	0.021
40386266		348	13.8	0.48	495	2.5	8.8	63	<0.001	0.013	0.021
40386267		38.7	14.4	0.45	259	1.6	8.0	53	<0.001	<0.005	0.003
40386268		55.5	12.3	0.46	247	1.3	9.0	60	<0.001	<0.005	0.001
40386269		86.7	12.6	0.47	242	1.3	8.2	56	<0.001	<0.005	0.004
40386270		18.5	18.0	0.84	17.2	11.2	15.2	87	<0.001	<0.005	0.002
40386271		1140	19.0	0.41	733	2.4	6.3	61	0.007	0.038	0.154
40386272		389	13.0	0.51	406	1.3	7.9	63	0.009	0.038	0.143
40386273		100.5	12.9	0.66	239	1.4	20.1	69	<0.001	<0.005	0.004
40386274		101.5	11.5	0.75	265	2.3	12.0	80	<0.001	<0.005	0.004



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**CERTIFICATE OF ANALYSIS TB18168143**

CERTIFICATE COMMENTS													
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada												
	<table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	WEI-21				
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	WEI-21										
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.												
	<table border="0"> <tr> <td>C-IR07</td> <td>ME-ICP06</td> <td>ME-MS42</td> <td>ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-ICP24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-ICP24	S-IR08	TOT-ICP06			
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-ICP24	S-IR08										
TOT-ICP06													



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To: **RIO TINTO EXPLORATION CANADA INC.**  
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Page: 1  
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 Plus Appendix Pages  
 Finalized Date: 23-AUG-2018  
 Account: RTECIKBZ

**CERTIFICATE TB18185446**

Project: EB80001447  
 P.O. No.: 3103290934  
 This report is for 162 Drill Core samples submitted to our lab in Thunder Bay, ON,  
 Canada on 31-JUL-2018.

The following have access to data associated with this certificate:

RACHELLE BOULANGER  
 RTXAMRNA ASSAY RESULTS

SUE DRIEBERG  
 ROBERT RUSH

BRIAN GOLDNER

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarcode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP81	ICP Fusion - Ore Grade	ICP-AES
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40213909		1.79	59.0	17.85	7.00	5.56	2.19	3.76	2.70	0.003	0.86	0.11	0.25	0.07	0.11	99.91
40386356		6.52	45.3	19.55	10.35	10.25	10.30	2.06	0.21	0.085	0.67	0.12	0.08	0.04	0.01	99.39
40386357		6.12	45.6	19.60	10.35	10.30	10.20	2.07	0.23	0.093	0.70	0.12	0.07	0.04	0.01	100.15
40386358		6.13	44.7	18.55	11.00	9.32	10.50	1.98	0.32	0.093	0.76	0.13	0.09	0.03	0.01	99.68
40386359		2.26	44.3	17.55	10.25	9.83	9.27	2.04	0.36	0.089	1.08	0.14	0.13	0.03	0.01	99.49
40386360		4.21	57.7	18.05	7.44	6.09	2.45	3.87	2.38	0.003	0.93	0.11	0.31	0.07	0.11	99.91
40386361		1.10	45.0	17.55	11.95	9.18	8.98	2.21	0.33	0.078	1.20	0.14	0.10	0.03	0.01	99.27
40386362		3.23	45.8	18.25	11.45	10.05	10.25	2.18	0.27	0.094	0.98	0.14	0.09	0.03	0.01	100.05
40386363		6.41	45.7	18.60	11.20	10.10	10.75	2.12	0.22	0.088	0.83	0.13	0.09	0.03	0.01	99.83
40386364		6.53	45.5	18.60	10.80	10.30	9.30	2.25	0.27	0.095	1.03	0.13	0.12	0.04	0.01	98.54
40386365		6.42	46.0	18.75	10.90	10.40	9.79	2.21	0.25	0.105	0.91	0.13	0.10	0.03	0.01	99.68
40386366		6.34	46.7	18.00	11.30	10.40	9.78	2.29	0.29	0.100	1.08	0.14	0.12	0.03	0.01	100.41
40386367		6.41	46.3	17.60	11.65	10.30	8.59	2.40	0.36	0.098	1.34	0.15	0.16	0.03	0.02	99.47
40386368		3.24	46.0	18.60	11.30	10.45	8.45	2.35	0.33	0.150	1.12	0.14	0.13	0.04	0.01	99.51
40386369		3.02	44.4	19.20	12.55	9.88	8.12	2.30	0.37	1.020	1.28	0.15	0.11	0.03	0.01	99.92
40386370		0.17	44.9	18.50	12.35	9.37	7.37	2.11	1.04	0.347	1.29	0.14	0.15	0.05	0.04	99.77
40386371		2.90	33.6	21.6	17.05	7.24	9.36	1.73	0.29	6.22	1.60	0.17	0.14	0.02	0.01	99.42
40386372		1.78	34.3	21.3	16.65	7.53	9.35	1.73	0.25	6.18	1.55	0.16	0.09	0.03	0.01	99.59
40386373		2.93	44.8	18.30	11.65	10.15	8.50	2.26	0.40	0.251	1.20	0.14	0.17	0.03	0.02	98.88
40386374		2.57	45.6	17.00	12.35	9.74	9.05	2.33	0.36	0.117	1.36	0.15	0.15	0.03	0.02	98.89
40386375		2.60	45.1	16.85	12.60	9.50	9.05	2.28	0.40	0.205	1.38	0.16	0.18	0.03	0.02	99.16
40386376		1.33	32.7	21.3	16.80	7.16	8.78	1.66	0.30	6.44	1.57	0.16	0.16	0.02	0.01	98.30
40386377		2.23	43.8	22.2	10.10	11.55	6.38	2.02	0.24	0.367	0.75	0.10	0.08	0.04	0.01	99.05
40386378		2.20	43.1	21.6	11.00	11.20	6.62	1.97	0.21	0.020	0.69	0.09	0.08	0.04	0.01	98.59
40386379		0.95	44.6	19.30	11.65	10.05	8.72	2.18	0.34	0.029	0.87	0.12	0.10	0.04	0.01	99.61
40386380		0.89	43.8	19.15	12.45	9.81	8.54	2.13	0.35	0.025	0.85	0.12	0.10	0.04	0.01	99.28
40386381		2.20	41.9	17.95	14.70	9.46	8.84	1.82	0.24	0.020	0.81	0.12	0.09	0.03	0.01	98.49
40386382		1.88	43.9	20.4	11.95	10.55	8.38	1.97	0.20	0.018	0.65	0.11	0.06	0.04	0.01	99.72
40386383		2.09	44.0	20.9	12.65	10.25	7.98	2.09	0.38	0.020	0.70	0.11	0.09	0.04	0.01	100.88
40386384		6.48	44.8	17.50	15.25	9.18	7.88	2.48	0.47	0.020	1.41	0.16	0.20	0.04	0.02	101.08
40386385		5.61	43.6	18.75	14.60	9.25	7.10	2.26	0.57	0.024	0.88	0.12	0.11	0.04	0.01	99.36
40386386		6.36	43.9	16.55	18.40	7.13	7.02	2.39	0.97	0.043	1.35	0.16	0.18	0.04	0.03	101.16
40386387		6.27	45.2	18.70	15.15	9.26	7.71	2.41	0.45	0.024	1.02	0.15	0.13	0.04	0.02	101.55
40386388		3.50	44.6	17.25	15.45	7.26	7.27	2.50	1.35	0.037	1.47	0.16	0.15	0.05	0.03	100.18
40386389		3.06	46.5	16.15	15.45	7.94	7.24	2.62	0.93	0.034	1.40	0.17	0.14	0.04	0.02	100.43
40386390		2.89	57.5	18.75	7.58	6.24	2.61	3.79	2.56	0.003	0.98	0.12	0.29	0.08	0.12	100.98
40386391		2.76	44.7	16.40	16.10	9.09	7.75	2.08	0.87	0.053	1.05	0.16	0.10	0.04	0.02	101.26
40386392		2.95	46.5	16.05	15.50	8.15	7.04	2.69	1.10	0.033	1.64	0.18	0.18	0.05	0.03	100.76
40386393		3.18	45.7	15.20	15.15	8.98	6.62	2.55	0.95	0.042	1.71	0.18	0.14	0.05	0.02	98.16
40386394		3.20	47.3	15.55	14.90	9.36	6.91	2.53	0.97	0.069	1.63	0.17	0.18	0.05	0.02	101.36



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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40213909		0.45	0.05	0.11	1040	60.8	20	1.36	6.81	3.74	1.82	22.5	7.00	7.8	1.39	30.0
40386356		0.36	0.02	0.03	89.3	12.7	630	0.76	1.89	1.26	0.81	16.2	1.94	1.4	0.45	6.3
40386357		0.77	0.01	0.03	89.5	12.3	670	1.20	2.10	1.19	0.76	16.1	1.84	1.4	0.43	6.0
40386358		2.20	0.02	0.07	97.3	14.4	680	1.94	2.22	1.10	0.87	16.4	2.23	1.6	0.46	7.1
40386359		4.41	0.02	0.11	97.5	19.1	670	2.20	3.08	1.76	1.00	15.9	3.28	2.1	0.64	9.3
40386360		0.40	0.04	0.09	896	61.9	20	1.15	6.18	3.44	1.74	20.9	7.28	7.1	1.23	29.7
40386361		2.51	0.03	0.38	98.2	19.8	560	2.49	3.05	1.90	1.11	17.1	3.20	2.3	0.64	10.1
40386362		0.46	0.05	0.06	107.0	17.4	720	1.08	2.95	1.60	1.08	18.4	2.82	1.9	0.60	8.8
40386363		-0.04	0.04	0.04	92.4	14.1	610	0.49	2.37	1.37	0.81	15.6	2.23	1.6	0.47	6.9
40386364		0.09	0.02	0.05	114.5	19.8	700	0.43	3.19	1.76	1.10	17.5	3.14	2.2	0.66	10.1
40386365		0.09	0.02	0.05	107.5	17.4	790	0.42	2.63	1.52	1.03	18.3	2.71	2.0	0.55	8.4
40386366		0.17	0.01	0.05	118.0	20.6	740	0.74	3.34	2.15	1.12	18.4	3.46	2.5	0.71	10.5
40386367		0.47	0.02	0.06	140.5	24.5	710	1.23	4.19	2.29	1.30	18.7	4.00	2.7	0.81	12.2
40386368		0.44	0.03	0.05	125.0	20.9	1080	1.14	3.28	1.87	1.13	18.7	3.14	2.2	0.71	10.3
40386369		0.50	0.01	0.06	121.5	19.1	7130	1.09	3.05	1.64	1.17	21.4	3.15	2.2	0.58	9.5
40386370		2.11	0.03	0.34	321	24.0	2430	2.54	3.43	1.87	1.20	19.6	4.01	2.8	0.73	12.3
40386371		0.39	0.02	0.06	122.5	21.6	>10000	0.76	3.54	1.74	1.15	43.3	3.03	2.5	0.69	10.6
40386372		0.46	0.01	0.11	101.0	15.3	>10000	0.74	2.39	1.30	0.81	38.2	2.38	1.7	0.50	7.6
40386373		1.01	0.01	0.43	154.0	26.9	1780	1.07	4.02	2.27	1.22	18.6	4.38	3.0	0.89	13.3
40386374		0.63	0.01	0.05	149.0	26.7	850	1.43	4.02	2.20	1.46	18.6	4.16	2.8	0.76	13.3
40386375		1.40	0.01	0.06	153.0	26.6	1430	1.57	4.43	2.35	1.33	17.9	4.30	3.0	0.95	13.3
40386376		1.24	0.01	0.13	120.0	22.6	>10000	1.07	3.72	2.11	1.21	39.8	4.35	3.0	0.78	11.3
40386377		1.41	0.01	1.12	86.3	13.5	2400	0.65	2.21	1.10	0.89	17.3	2.01	1.4	0.42	7.0
40386378		1.96	0.01	1.68	83.7	12.8	140	0.59	1.86	1.17	0.76	16.2	1.91	1.3	0.41	6.4
40386379		1.60	0.02	1.06	119.0	16.5	200	1.81	2.53	1.48	1.00	15.6	2.63	2.2	0.56	8.4
40386380		1.90	0.02	1.47	113.5	15.0	170	1.81	2.16	1.28	0.91	15.5	2.22	1.6	0.44	7.5
40386381		2.50	0.02	2.31	98.1	15.5	150	1.65	2.13	1.30	1.01	16.1	2.36	1.7	0.48	7.6
40386382		1.48	0.01	1.36	79.0	11.4	130	1.02	1.84	1.05	0.88	15.3	1.74	1.1	0.34	5.6
40386383		1.66	0.03	1.70	123.0	14.5	140	2.10	2.05	1.19	1.26	19.6	2.08	1.3	0.41	6.6
40386384		1.67	0.12	1.41	163.0	31.5	150	1.78	4.25	2.54	1.85	22.2	4.91	3.2	0.85	14.3
40386385		2.05	0.03	1.90	127.0	17.6	170	1.69	2.54	1.41	1.31	19.6	2.40	1.9	0.52	8.1
40386386		3.00	0.41	2.84	248	35.0	300	3.13	4.36	2.57	1.85	23.3	4.45	3.3	0.85	16.2
40386387		1.29	0.02	1.75	154.5	21.9	160	1.90	2.85	1.73	1.56	21.9	2.99	2.2	0.63	10.4
40386388		2.60	0.16	1.68	286	28.7	260	3.09	3.99	2.46	1.53	23.2	3.90	2.9	0.80	13.0
40386389		1.80	0.05	1.18	203	28.3	240	2.29	4.14	2.35	1.63	22.3	3.96	2.8	0.77	12.5
40386390		0.36	0.05	0.11	1050	75.6	20	1.34	6.96	3.90	1.80	25.9	8.02	7.5	1.35	32.9
40386391		2.85	0.09	1.84	168.5	18.3	370	2.55	3.16	1.75	1.55	20.7	3.19	2.0	0.60	8.2
40386392		1.62	0.15	1.03	241	31.5	240	2.78	4.85	2.83	1.84	23.2	5.25	3.1	0.89	14.1
40386393		0.87	0.01	1.00	191.5	25.7	300	1.98	4.19	2.62	1.61	22.3	4.31	2.8	0.85	12.0
40386394		1.72	0.15	0.99	208	30.5	470	1.83	4.77	2.64	1.72	23.1	4.12	3.2	0.91	13.8





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Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
	Analyte	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40213909		0.50	14.1	35.4	8.50	115.5	8.29	2	551	0.8	1.12	3.99	0.52	1.57	142	1
40386356		0.14	3.9	7.0	1.68	4.9	1.73	1	267	0.3	0.32	0.52	0.14	0.13	97	<1
40386357		0.14	3.8	7.3	1.74	6.7	1.90	1	259	0.3	0.30	0.51	0.12	0.11	97	<1
40386358		0.14	4.4	8.7	1.96	10.6	2.01	1	256	0.4	0.36	0.57	0.14	0.16	104	<1
40386359		0.21	6.4	10.9	2.63	14.2	2.84	1	231	0.4	0.48	0.82	0.23	0.19	153	<1
40386360		0.48	12.4	34.6	8.68	99.8	7.75	2	493	0.7	1.04	3.50	0.48	1.55	129	<1
40386361		0.22	6.5	11.9	2.72	12.4	3.19	1	241	0.4	0.49	0.81	0.20	0.20	170	<1
40386362		0.19	5.6	10.6	2.44	7.9	2.67	1	270	0.5	0.46	0.64	0.22	0.18	146	<1
40386363		0.16	4.4	8.2	1.94	5.0	2.21	1	232	0.3	0.34	0.54	0.16	0.12	117	<1
40386364		0.21	6.2	11.5	2.69	6.9	3.10	1	252	0.4	0.48	0.86	0.21	0.19	141	<1
40386365		0.20	5.2	9.6	2.33	6.2	2.66	1	261	0.3	0.40	0.65	0.17	0.21	133	<1
40386366		0.24	6.6	12.8	2.96	7.6	2.87	1	254	0.5	0.58	0.92	0.28	0.23	156	<1
40386367		0.28	7.9	14.8	3.45	10.0	3.86	1	249	0.5	0.62	1.05	0.32	0.27	186	1
40386368		0.24	6.6	11.9	2.85	8.8	3.39	1	255	0.4	0.54	0.78	0.22	0.20	152	1
40386369		0.23	6.2	11.4	2.66	11.2	2.88	1	246	0.5	0.50	0.75	0.21	0.17	255	1
40386370		0.25	7.5	13.8	3.27	36.5	3.63	2	372	0.5	0.55	1.08	0.24	0.31	187	1
40386371		0.28	6.8	12.6	3.01	9.5	3.26	1	168.0	0.5	0.53	0.83	0.23	0.20	652	<1
40386372		0.18	4.8	9.0	2.06	8.4	2.26	1	179.0	0.4	0.34	0.59	0.17	0.15	653	<1
40386373		0.28	8.5	15.9	3.70	11.0	3.80	1	241	0.6	0.68	1.07	0.29	0.27	174	<1
40386374		0.26	8.5	15.8	3.74	10.1	4.10	1	239	0.9	0.63	1.13	0.29	0.25	174	<1
40386375		0.33	8.5	16.5	3.66	12.0	3.92	1	232	0.5	0.68	1.20	0.30	0.29	164	<1
40386376		0.29	7.7	13.7	3.25	10.2	3.58	1	163.0	0.5	0.63	0.97	0.28	0.27	648	<1
40386377		0.15	4.2	7.9	1.81	6.3	1.95	1	266	0.2	0.35	0.48	0.14	0.40	119	<1
40386378		0.14	3.9	7.4	1.72	4.9	1.76	1	274	0.2	0.30	0.48	0.11	0.14	89	<1
40386379		0.21	5.2	9.9	2.30	11.5	2.20	1	260	0.3	0.44	0.74	0.16	0.18	117	<1
40386380		0.16	4.6	8.7	2.01	11.9	2.19	1	249	0.3	0.32	0.60	0.15	0.17	107	<1
40386381		0.16	4.5	8.4	2.08	7.1	2.30	1	237	0.3	0.34	0.64	0.14	0.14	114	<1
40386382		0.14	3.3	6.6	1.51	4.5	1.87	1	254	0.2	0.26	0.42	0.13	0.10	88	<1
40386383		0.13	4.1	8.3	2.00	13.9	2.12	1	316	0.6	0.33	0.57	0.15	0.32	101	<1
40386384		0.38	9.3	19.3	4.12	16.5	4.59	2	263	0.9	0.72	1.43	0.36	0.51	166	<1
40386385		0.16	5.3	10.1	2.31	21.8	2.38	1	291	0.7	0.38	0.80	0.20	0.21	127	1
40386386		0.35	9.1	19.7	4.59	40.5	4.30	2	265	1.1	0.73	1.99	0.37	1.17	241	1
40386387		0.31	6.0	12.5	2.96	13.6	2.99	1	270	0.7	0.52	1.02	0.27	0.43	138	<1
40386388		0.30	8.1	17.2	3.95	56.5	4.33	1	374	1.1	0.61	1.57	0.30	1.16	251	1
40386389		0.33	7.9	16.1	3.61	35.6	3.77	1	331	1.0	0.68	1.51	0.27	0.78	246	1
40386390		0.57	13.9	44.4	10.20	101.5	9.24	2	585	1.1	1.27	6.00	0.61	1.80	136	1
40386391		0.23	5.3	11.4	2.61	36.8	2.87	2	326	0.8	0.49	0.85	0.26	0.38	323	<1
40386392		0.46	9.1	19.1	4.18	42.9	5.03	1	399	0.9	0.82	1.70	0.37	0.88	249	1
40386393		0.30	8.1	16.7	3.44	35.9	3.62	1	345	0.9	0.71	1.22	0.39	0.87	336	1
40386394		0.36	8.9	19.0	4.19	36.4	4.43	1	334	0.9	0.76	1.46	0.38	0.80	389	1



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 Account: RTEICKBZ

Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40213909		33.1	3.51	290	0.2	0.02	<0.005	0.031	<0.001	<0.05	0.2	0.01	0.34	0.05	0.08	15.9
40386356		9.3	0.96	52	<0.1	<0.01	<0.005	0.014	0.001	<0.05	0.2	<0.01	0.02	0.06	0.08	60.2
40386357		8.9	0.99	53	1.6	0.01	<0.005	0.014	0.001	0.08	0.3	0.01	0.05	0.10	0.09	61.4
40386358		10.1	1.07	56	1.4	0.01	<0.005	0.018	<0.001	0.18	0.3	<0.01	0.25	0.12	0.17	65.9
40386359		14.3	1.51	78	1.8	0.01	<0.005	0.026	0.001	0.32	0.5	0.01	0.62	0.18	0.29	60.6
40386360		29.5	3.14	270	0.2	0.01	<0.005	0.029	0.001	<0.05	0.2	0.01	0.31	0.04	0.07	16.7
40386361		14.3	1.61	86	1.7	0.04	<0.005	0.037	0.001	0.18	0.8	0.04	0.65	0.72	0.32	73.7
40386362		13.3	1.52	68	0.2	0.01	0.008	0.018	0.001	0.10	0.3	0.01	0.08	0.06	0.10	63.2
40386363		10.5	1.11	57	0.1	0.01	<0.005	0.016	<0.001	<0.05	0.3	0.01	0.03	0.06	0.07	63.8
40386364		14.8	1.44	84	0.2	0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.03	0.07	0.09	57.6
40386365		13.0	1.48	70	0.1	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.02	0.06	0.07	58.3
40386366		15.5	1.78	90	0.3	0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.02	0.06	0.07	57.7
40386367		19.1	2.00	103	0.3	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.04	0.08	0.10	53.6
40386368		15.4	1.46	82	0.3	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.04	0.06	0.09	52.2
40386369		14.0	1.45	81	0.4	0.01	<0.005	0.020	0.001	<0.05	0.4	0.01	0.09	0.10	0.12	61.2
40386370		16.7	1.60	100	4.3	0.15	0.009	0.033	0.003	0.38	1.1	0.06	0.48	0.52	0.25	64.2
40386371		15.9	1.68	89	0.4	0.01	<0.005	0.021	0.001	<0.05	0.2	0.02	0.04	0.05	0.09	104.5
40386372		11.1	1.14	61	0.1	0.03	<0.005	0.022	0.002	<0.05	0.5	0.03	0.02	0.17	0.12	104.5
40386373		19.5	2.06	112	0.5	0.10	<0.005	0.035	0.006	<0.05	1.9	0.10	0.04	0.66	0.24	67.4
40386374		19.4	1.85	109	0.7	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.04	0.06	0.10	55.7
40386375		19.6	2.14	115	0.6	0.01	<0.005	0.022	0.001	<0.05	0.2	0.01	0.18	0.08	0.20	55.9
40386376		17.6	1.95	114	0.4	0.03	<0.005	0.029	0.002	<0.05	0.6	0.04	0.15	0.21	0.18	98.9
40386377		10.1	0.99	52	0.3	0.24	<0.005	0.043	0.013	<0.05	4.7	0.26	0.03	1.75	0.38	83.6
40386378		8.7	0.83	48	0.2	0.34	<0.005	0.058	0.017	<0.05	4.7	0.23	0.03	2.48	0.59	121.0
40386379		12.1	1.29	76	0.5	0.22	<0.005	0.048	0.012	0.05	2.6	0.15	0.04	1.36	0.43	96.8
40386380		10.4	1.19	63	0.5	0.25	<0.005	0.057	0.018	<0.05	3.7	0.18	0.04	1.92	0.59	123.0
40386381		10.5	1.04	65	3.0	1.01	<0.005	0.081	0.026	0.12	5.1	0.27	0.05	2.17	0.81	171.5
40386382		7.8	0.72	43	4.4	0.35	<0.005	0.063	0.012	0.10	2.8	0.13	0.03	1.33	0.62	133.5
40386383		10.5	1.03	56	25.4	0.49	<0.005	0.091	0.012	0.35	3.4	0.18	0.07	1.54	0.57	138.5
40386384		21.5	2.40	117	17.0	0.43	<0.005	0.081	0.012	0.63	2.5	0.14	0.13	1.16	0.79	117.0
40386385		12.4	1.14	70	29.0	0.33	<0.005	0.074	0.012	1.11	2.6	0.15	0.38	1.14	0.79	111.0
40386386		22.9	2.50	141	40.0	0.31	<0.005	0.077	0.017	1.81	2.5	0.12	0.88	1.04	2.21	109.0
40386387		15.6	1.60	86	21.5	0.37	<0.005	0.078	0.009	0.79	1.9	0.12	0.39	0.98	1.04	86.3
40386388		20.8	2.18	111	22.9	0.33	<0.005	0.063	0.011	0.82	1.9	0.10	0.84	0.91	1.04	88.1
40386389		19.6	1.87	105	37.7	0.20	<0.005	0.047	0.005	1.17	1.2	0.07	0.68	0.70	0.99	70.2
40386390		37.0	3.78	299	0.5	0.02	<0.005	0.032	0.001	<0.05	<0.2	0.02	0.36	0.04	0.08	16.6
40386391		14.7	1.80	73	175.5	0.23	<0.005	0.050	0.004	1.42	1.2	0.09	1.25	0.78	1.38	91.6
40386392		23.9	2.46	122	26.8	0.05	<0.005	0.022	0.006	0.84	0.7	0.03	0.68	0.40	1.27	61.4
40386393		21.4	2.12	107	18.4	0.19	<0.005	0.037	0.004	1.02	1.0	0.05	0.42	0.50	0.76	62.9
40386394		24.5	2.62	125	19.2	0.10	<0.005	0.035	0.009	0.90	1.1	0.04	0.62	0.46	0.75	74.2



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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40213909		20.3	19.2	0.96	10.5	12.6	13.5	79	0.001	<0.0005	<0.001					
40386356		86.5	6.0	0.64	443	1.7	10.2	69	0.003	0.0236	0.043					
40386357		100.0	9.9	0.65	445	1.7	11.1	79	0.004	0.0181	0.031					
40386358		126.0	22.4	0.51	476	2.6	10.2	103	0.005	0.0219	0.039					
40386359		166.0	33.9	0.61	403	2.7	15.7	119	0.005	0.0191	0.038					
40386360		16.2	18.6	0.95	13.5	11.5	14.1	81	0.001	0.0007	0.001					
40386361		884	17.4	0.70	684	3.6	19.8	121	0.013	0.0391	0.106					
40386362		138.0	8.8	0.68	427	1.7	13.0	81	0.005	0.0177	0.040					
40386363		144.0	5.8	0.56	476	1.3	13.1	75	0.006	0.0154	0.031					
40386364		148.0	5.2	0.70	400	1.5	15.1	76	0.004	0.0093	0.017					
40386365		148.0	4.9	0.66	416	1.3	14.7	73	0.004	0.0090	0.019					
40386366		150.5	6.0	0.67	402	1.8	18.4	78	0.003	0.0081	0.016					
40386367		167.0	8.4	0.92	313	2.2	21.7	84	0.004	0.0050	0.011					
40386368		154.5	7.7	0.76	295	1.6	18.5	77	0.003	0.0062	0.014					
40386369		204	10.5	0.66	363	2.4	16.5	117	0.004	0.0132	0.033					
40386370		1100	37.4	2.78	693	6.1	17.9	103	0.038	0.0384	0.195					
40386371		150.5	6.3	0.70	744	2.0	20.2	270	0.006	0.0403	0.074					
40386372		468	6.2	0.66	895	2.0	16.2	265	0.015	0.0994	0.220					
40386373		1850	8.0	0.80	1375	3.9	20.4	92	0.033	0.0897	0.354					
40386374		149.5	7.7	0.79	345	2.2	20.5	92	0.003	0.0087	0.014					
40386375		138.5	15.5	0.75	313	4.6	21.4	109	0.003	0.0064	0.011					
40386376		517	16.4	1.42	915	7.7	20.8	266	0.009	0.0467	0.222					
40386377		5530	5.1	0.64	2830	4.4	11.4	71	0.109	0.201	0.931					
40386378		6570	3.8	0.64	2990	7.1	9.3	57	0.094	0.227	>1.00					
40386379		3830	7.7	0.78	1825	6.9	13.7	67	0.063	0.1480	0.667					
40386380		5190	8.2	0.66	2900	7.3	12.2	71	0.091	0.1485	0.880					
40386381		7030	9.1	1.30	3370	13.1	11.5	74	0.091	0.1510	0.918					
40386382		3280	5.9	1.21	1900	11.9	9.1	64	0.045	0.0842	0.501					
40386383		4280	16.2	1.46	1985	6.7	9.8	76	0.064	0.1020	0.624					
40386384		2990	17.0	2.81	1440	10.6	19.7	122	0.045	0.0912	0.383					
40386385		2720	23.7	3.86	1405	7.6	13.5	102	0.042	0.0729	0.364					
40386386		1790	25.8	12.00	906	24.5	23.7	206	0.021	0.0263	0.139					
40386387		2030	15.7	5.84	989	20.8	16.9	109	0.031	0.0458	0.228					
40386388		1945	46.9	7.66	915	18.4	26.3	168	0.027	0.0411	0.207					
40386389		1295	29.3	5.12	606	11.7	28.5	173	0.017	0.0344	0.170					
40386390		22.3	19.5	0.88	14.1	11.8	16.1	85	0.002	<0.0005	<0.001					
40386391		1240	32.8	6.46	589	12.7	27.2	160	0.020	0.0241	0.106					
40386392		502	29.0	4.48	172.0	11.7	29.0	236	0.007	0.0027	0.016					
40386393		932	25.4	4.19	450	12.5	38.6	150	0.014	0.0201	0.089					
40386394		956	27.5	4.76	409	8.7	37.5	161	0.010	0.0078	0.050					



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 Account: RTEICKBZ

Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	PGM-ICP24	PGM-ICP24	PGM-ICP24	
		Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %	TiO2 %	Zn %	Au ppm	Pt ppm	Pd ppm
40213909		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002	0.001	0.005	0.001
40386356																
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40386360																
40386361																
40386362																
40386363																
40386364																
40386365																
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40386373																
40386374																
40386375																
40386376																
40386377																
40386378													0.102	0.232	1.025	
40386379																
40386380																
40386381																
40386382																
40386383																
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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	TOT-ICP06 Total %
			0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01
40386395		3.04	48.0	15.50	16.00	6.35	6.81	2.67	1.45	0.028	1.14	0.16	0.15	0.05	0.02	100.81
40386396		3.25	45.4	15.80	16.25	7.25	6.69	2.45	1.42	0.047	1.23	0.16	0.14	0.05	0.03	99.88
40386397		3.12	44.5	15.25	17.70	7.33	6.86	2.24	1.21	0.030	1.74	0.18	0.18	0.04	0.03	100.58
40386398		3.09	44.1	14.45	19.20	6.57	6.82	2.31	1.08	0.035	1.99	0.17	0.22	0.03	0.03	100.03
40386399		2.40	47.2	13.75	16.75	8.54	5.39	2.56	1.13	0.030	2.78	0.19	0.23	0.04	0.04	99.78
40386400		0.17	42.8	18.05	14.05	9.54	7.56	2.09	0.62	0.307	1.24	0.14	0.15	0.04	0.02	98.03
40386401		1.89	44.8	12.40	21.5	8.09	4.79	2.30	1.16	0.026	2.93	0.19	0.28	0.03	0.04	100.25
40386402		2.30	43.2	11.45	17.75	13.45	5.57	1.39	0.86	0.034	3.24	0.18	0.20	0.03	0.03	99.92
40386403		1.84	38.7	12.60	22.5	9.33	5.13	0.58	2.44	0.156	2.01	0.13	0.09	0.02	0.05	99.70
40386404		1.91	57.4	18.20	6.88	6.01	2.34	3.78	2.52	0.003	0.84	0.10	0.23	0.07	0.11	98.84
40386405		0.83	26.3	8.79	46.8	0.31	2.29	0.65	2.36	0.032	0.42	0.05	0.05	0.01	0.05	98.56
40386406		1.16	58.8	18.15	7.54	6.19	2.61	3.83	2.58	0.003	0.92	0.12	0.29	0.07	0.13	101.58
40386407		1.36	55.6	18.90	7.17	6.37	2.54	3.83	2.40	0.003	0.91	0.11	0.28	0.08	0.09	98.59
40386408		3.03	28.2	16.45	35.3	0.87	3.58	1.75	2.11	0.027	0.71	0.07	0.10	0.01	0.03	98.58
40386409		1.55	32.2	16.25	31.9	0.76	3.26	2.51	2.15	0.032	0.68	0.05	0.11	0.02	0.04	98.74
40386410		1.36	32.0	16.35	31.4	0.77	3.38	2.37	2.24	0.027	0.67	0.05	0.12	0.02	0.04	98.43
40386411		2.40	27.9	15.40	38.7	0.69	3.03	1.88	1.58	0.033	0.61	0.07	0.10	0.01	0.03	99.27
40386412		2.83	45.2	20.0	13.05	1.12	3.95	3.31	4.03	0.023	0.80	0.05	0.14	0.03	0.08	99.01
40386413		2.17	45.2	20.6	9.31	1.19	3.81	3.70	3.80	0.019	0.83	0.05	0.18	0.02	0.05	100.36
40386414		2.65	60.4	16.95	7.26	0.82	3.00	2.55	4.11	0.013	0.65	0.04	0.17	0.03	0.08	101.55
40386415		1.20	62.0	15.85	5.84	0.60	2.31	2.74	4.07	0.010	0.57	0.03	0.12	0.02	0.09	99.69
40386416		3.54	63.4	15.65	6.19	2.06	3.21	1.83	4.35	0.005	0.66	0.08	0.19	0.03	0.10	101.05
40386417		3.08	66.1	14.35	4.58	1.57	2.90	1.47	4.19	0.006	0.45	0.05	0.11	0.02	0.08	99.36
40386418		0.65	56.3	14.35	13.35	1.19	2.62	1.24	4.11	0.007	0.52	0.05	0.08	0.02	0.07	98.84
40386419		1.86	65.0	14.75	4.51	1.58	2.67	1.65	4.15	0.008	0.56	0.04	0.19	0.03	0.09	98.43
40386420		1.45	57.9	18.75	7.43	6.31	2.50	3.81	2.52	0.005	0.96	0.11	0.35	0.07	0.13	101.16
40386421		0.91	58.9	15.00	7.80	1.61	2.79	1.48	4.72	0.007	0.64	0.06	0.19	0.02	0.12	96.81
40386422		2.36	60.6	14.60	5.74	4.28	4.05	1.43	4.30	0.015	0.63	0.08	0.17	0.03	0.09	100.45
40386423		2.62	67.0	16.10	4.28	0.56	2.29	1.53	4.92	0.015	0.64	0.02	0.12	0.02	0.10	101.34
40386424		2.54	66.2	14.10	5.01	1.88	3.12	1.88	4.13	0.018	0.65	0.05	0.13	0.02	0.11	100.53
40386425		2.91	60.1	15.60	5.05	4.02	3.92	1.77	4.55	0.015	0.63	0.06	0.24	0.03	0.13	98.68
40386426		2.74	64.1	14.15	5.90	3.13	3.28	2.13	3.95	0.020	0.69	0.06	0.16	0.03	0.10	100.25
40386427		1.62	65.6	15.25	5.05	0.64	2.40	1.55	5.37	0.021	0.70	0.04	0.16	0.02	0.11	100.24
40386428		0.94	67.5	14.20	5.26	0.66	2.44	1.29	4.91	0.021	0.67	0.05	0.14	0.02	0.09	100.93
40386429		1.95	70.0	12.60	5.51	0.87	2.57	1.10	4.81	0.019	0.62	0.05	0.12	0.02	0.08	101.97
40386430		0.17	42.8	18.35	14.30	9.76	7.82	2.10	0.63	0.320	1.30	0.15	0.16	0.05	0.02	99.21
40386431		2.38	44.0	16.20	15.05	3.56	6.39	1.98	3.20	0.034	1.87	0.14	0.20	0.04	0.13	98.78
40386432		2.48	45.1	14.15	16.70	7.06	5.54	2.43	0.80	0.009	3.92	0.19	0.27	0.07	0.05	99.68
40386433		2.05	48.0	13.05	17.20	6.50	5.22	1.86	1.35	0.007	3.50	0.20	0.32	0.07	0.06	100.46
40386434		3.06	72.8	12.05	4.04	2.09	1.93	0.84	5.02	0.007	0.42	0.06	0.07	0.02	0.08	101.49





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 Plus Appendix Pages  
 Finalized Date: 23-AUG-2018  
 Account: RTECIKBZ

Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386395		2.48	0.23	1.13	240	40.4	210	3.50	5.01	2.87	1.86	23.6	4.91	3.4	0.93	19.7
40386396		2.96	0.34	1.85	273	31.6	350	4.13	3.84	2.35	1.79	23.4	4.52	3.1	0.80	14.9
40386397		3.29	0.36	1.89	267	37.1	220	3.28	5.32	2.87	2.07	23.2	5.13	3.4	0.95	17.5
40386398		3.02	0.24	2.32	240	42.5	240	5.23	5.09	3.18	2.04	24.2	5.55	4.1	0.96	19.0
40386399		1.15	0.01	1.43	328	45.9	220	2.37	6.98	3.38	2.15	23.9	6.85	4.3	1.30	20.7
40386400		1.42	0.03	0.85	160.0	24.0	2230	2.35	3.51	1.96	1.22	21.8	3.30	2.4	0.66	10.7
40386401		1.71	0.01	3.35	354	53.1	180	2.23	7.43	4.63	2.31	23.9	7.52	6.1	1.48	23.1
40386402		2.54	0.53	2.02	252	42.9	240	2.10	5.75	3.07	1.76	24.7	6.21	4.3	1.25	19.6
40386403		5.96	0.64	4.49	430	37.5	1130	3.28	3.81	2.11	1.21	23.0	3.76	3.2	0.68	17.0
40386404		0.36	0.05	0.10	1045	60.3	20	1.08	5.94	3.26	1.78	24.3	6.40	6.9	1.06	26.8
40386405		10.45	1.50	20.4	429	22.4	210	2.88	2.02	1.14	0.84	12.6	2.16	1.7	0.44	10.6
40386406		0.35	0.04	0.12	1080	65.0	20	1.14	6.90	3.97	1.83	23.5	7.07	7.6	1.25	28.4
40386407		0.31	0.04	0.10	853	66.0	20	1.14	6.72	3.12	1.78	25.2	6.72	8.5	1.19	28.7
40386408		9.37	1.28	10.95	319	47.7	190	2.77	4.91	2.98	1.38	26.7	5.38	3.7	0.93	22.7
40386409		8.78	2.27	8.54	334	73.3	230	1.72	5.43	3.38	1.55	26.5	5.80	4.6	1.10	38.5
40386410		8.99	2.44	8.43	354	58.7	190	1.84	5.44	3.50	1.58	26.8	5.74	4.4	1.13	29.6
40386411		9.24	2.07	10.65	241	39.5	230	1.83	4.82	2.97	1.07	27.6	5.06	4.0	0.87	19.3
40386412		7.23	3.33	0.67	702	56.2	170	2.66	7.22	4.16	1.82	28.0	7.12	5.9	1.58	25.5
40386413		11.60	8.05	0.20	478	97.7	130	5.27	8.93	5.94	2.00	28.4	8.98	7.5	1.75	50.9
40386414		5.48	2.65	0.75	716	70.0	90	4.94	5.88	3.78	1.40	22.1	7.03	6.6	1.29	35.7
40386415		5.44	2.91	0.98	730	99.5	70	4.78	5.66	3.22	1.59	21.5	7.00	6.5	1.18	56.6
40386416		3.29	0.73	1.40	880	84.4	40	5.08	7.77	4.72	1.84	25.1	8.22	6.7	1.58	41.9
40386417		3.48	1.01	0.62	722	88.4	40	7.42	5.21	3.27	1.41	17.5	5.51	6.0	1.07	46.1
40386418		4.93	0.89	4.55	634	74.6	50	10.40	4.96	3.10	1.17	18.9	5.85	5.4	1.01	37.3
40386419		3.20	0.93	0.57	790	75.1	50	7.36	5.15	2.94	1.41	19.0	5.54	6.1	1.13	39.9
40386420		0.31	0.05	0.10	1120	63.9	30	1.18	6.23	4.04	1.95	24.3	7.00	7.6	1.19	27.9
40386421		3.47	0.54	1.96	1030	86.5	40	9.57	5.30	3.01	1.55	20.0	5.96	6.4	1.05	45.4
40386422		4.43	2.18	0.85	840	68.2	100	6.28	5.40	3.18	1.12	20.3	5.62	5.1	1.07	35.7
40386423		3.74	1.47	0.37	842	80.7	100	6.11	6.08	3.52	1.21	21.1	6.16	5.7	1.18	40.5
40386424		3.23	1.05	0.24	949	63.8	120	4.19	4.77	2.72	0.99	19.3	5.30	4.3	0.94	32.0
40386425		2.56	0.79	0.37	1170	93.8	100	8.42	7.83	4.33	1.70	21.6	8.88	6.2	1.48	46.5
40386426		2.55	1.00	0.73	887	68.5	140	5.75	5.36	3.30	1.07	20.8	5.76	4.5	1.14	34.9
40386427		3.33	0.96	0.29	900	55.8	140	4.67	5.32	2.86	1.14	19.5	5.06	4.9	1.01	26.4
40386428		3.68	1.46	0.08	841	38.7	150	3.95	4.58	2.73	1.12	19.5	5.16	4.3	0.85	16.6
40386429		3.60	1.25	0.03	720	36.0	140	3.42	4.24	2.52	0.93	17.9	4.33	3.6	0.73	15.6
40386430		1.45	0.03	0.88	156.5	23.1	2160	2.51	3.41	1.97	1.18	20.6	3.65	2.7	0.70	10.7
40386431		5.99	0.04	1.52	1170	37.7	230	3.16	4.12	2.35	1.41	21.7	4.23	3.7	0.79	16.0
40386432		3.39	0.04	0.32	397	49.4	60	3.83	5.51	2.67	2.38	24.6	6.41	4.6	0.98	20.7
40386433		3.12	0.07	0.41	460	55.5	40	3.82	6.57	3.46	2.27	23.1	7.40	5.0	1.22	23.6
40386434		2.06	0.23	0.06	719	107.0	50	5.21	11.45	7.33	1.81	19.4	11.05	9.8	2.26	48.3



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 Plus Appendix Pages  
 Finalized Date: 23-AUG-2018  
 Account: RTEICKBZ

Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386395		0.40	9.0	22.2	5.33	60.1	5.30	1	349	1.0	0.77	3.12	0.41	3.72	198	1
40386396		0.32	7.5	18.1	4.00	61.7	4.01	1	383	0.8	0.65	2.29	0.34	2.28	318	1
40386397		0.39	10.2	21.2	4.77	45.6	4.69	1	294	1.1	0.87	1.97	0.42	1.48	280	1
40386398		0.45	11.3	23.9	5.62	44.3	5.84	2	240	1.1	0.94	2.76	0.50	2.24	321	1
40386399		0.49	13.8	27.3	6.07	40.2	6.30	2	267	1.2	0.97	2.51	0.53	1.75	420	1
40386400		0.25	7.2	14.3	3.00	21.6	3.34	2	335	0.8	0.53	1.05	0.25	0.29	161	1
40386401		0.60	15.6	31.4	6.83	39.3	7.56	2	223	1.4	1.28	2.78	0.72	2.01	388	1
40386402		0.44	13.5	25.6	5.85	34.6	6.41	4	209	1.3	1.01	2.90	0.45	2.80	466	1
40386403		0.35	15.2	21.5	4.94	104.5	5.14	7	122.5	1.3	0.55	4.46	0.31	6.48	1085	1
40386404		0.45	13.0	35.6	8.10	100.0	7.89	2	545	1.1	0.96	3.65	0.48	1.48	115	<1
40386405		0.25	5.0	12.7	3.00	86.6	2.60	2	63.5	0.7	0.30	4.16	0.22	7.64	182	1
40386406		0.48	12.2	39.9	8.75	93.8	8.74	2	547	1.1	1.14	3.84	0.56	1.73	119	<1
40386407		0.49	13.6	38.7	8.67	98.3	8.65	2	577	1.1	1.05	3.75	0.52	1.66	123	1
40386408		0.46	9.9	26.3	6.51	86.7	5.75	2	70.7	1.1	0.81	7.71	0.54	14.80	218	2
40386409		0.64	12.8	36.6	9.23	66.4	7.28	2	76.1	1.2	0.87	9.95	0.52	13.50	292	2
40386410		0.62	14.0	31.2	8.06	67.9	6.22	2	79.0	1.2	0.90	9.99	0.51	13.15	280	2
40386411		0.53	11.2	21.3	5.43	50.0	5.17	2	55.3	1.0	0.74	9.38	0.50	11.70	278	2
40386412		0.78	15.3	33.8	8.06	140.5	8.86	2	153.0	1.4	1.31	12.90	0.65	18.10	318	11
40386413		0.99	20.4	48.1	12.30	154.0	10.10	2	142.5	1.7	1.39	16.05	0.87	25.3	377	1
40386414		0.68	16.7	37.3	8.99	148.5	7.87	2	185.0	1.4	0.96	14.10	0.55	19.20	273	2
40386415		0.64	18.3	47.4	12.00	154.0	8.42	2	178.0	1.6	0.86	15.05	0.52	20.5	301	2
40386416		0.65	16.7	43.0	10.45	153.0	8.73	3	215	1.5	1.19	10.35	0.63	10.30	112	2
40386417		0.46	19.7	37.1	10.15	142.0	7.54	2	160.5	1.2	0.86	14.35	0.48	9.55	137	2
40386418		0.56	15.8	34.6	8.79	137.0	7.08	11	144.5	1.5	0.80	11.20	0.45	8.23	153	2
40386419		0.52	14.7	35.4	9.07	143.5	6.93	2	178.0	1.0	0.88	11.70	0.48	9.95	164	2
40386420		0.46	14.5	35.6	8.37	99.9	7.96	2	537	0.8	0.96	4.01	0.50	1.46	115	1
40386421		0.47	17.1	37.7	10.00	151.0	7.46	3	186.0	1.3	0.86	13.45	0.51	8.91	138	3
40386422		0.50	13.4	32.6	8.19	143.5	6.03	2	189.5	1.0	0.95	11.05	0.47	11.35	280	2
40386423		0.50	15.1	37.7	9.73	157.0	7.28	2	126.0	1.0	0.88	12.70	0.51	11.05	239	3
40386424		0.43	12.1	29.9	7.89	129.5	5.93	2	164.0	1.0	0.76	11.00	0.44	8.40	189	2
40386425		0.56	16.2	45.1	11.35	148.0	9.70	2	201	1.3	1.39	17.00	0.57	9.45	162	3
40386426		0.49	11.9	31.8	8.55	125.5	6.74	2	197.5	0.9	0.79	10.40	0.44	10.40	220	2
40386427		0.44	12.3	28.5	7.30	161.5	6.48	2	128.5	1.0	0.77	11.65	0.48	7.96	183	9
40386428		0.36	10.9	23.0	5.48	147.0	5.52	2	129.0	0.9	0.72	9.74	0.35	7.91	184	3
40386429		0.36	9.3	21.1	5.05	144.5	5.04	1	109.0	0.7	0.67	8.29	0.32	6.89	171	2
40386430		0.26	7.2	13.6	3.03	20.3	2.82	2	317	0.4	0.55	1.08	0.28	0.25	153	1
40386431		0.31	11.0	20.4	4.93	97.7	4.38	1	244	0.7	0.67	2.11	0.36	0.92	235	1
40386432		0.33	19.9	27.6	6.18	30.0	6.60	1	573	1.6	0.88	2.91	0.35	0.86	497	1
40386433		0.40	20.9	32.0	7.36	46.8	7.78	2	468	1.5	1.01	3.59	0.48	1.26	386	14
40386434		0.93	17.2	50.1	12.65	165.0	11.70	3	140.0	1.2	1.89	9.55	1.02	5.60	80	2



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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386395		25.6	2.85	130	31.9	0.08	<0.005	0.043	0.014	1.03	1.1	0.05	1.13	0.41	0.79	81.5
40386396		21.5	2.25	112	23.5	0.09	<0.005	0.036	0.012	0.58	1.3	0.06	1.62	0.52	0.92	87.1
40386397		25.0	2.71	137	23.4	0.11	0.006	0.036	0.015	0.79	1.6	0.05	1.12	0.47	0.97	91.1
40386398		28.0	2.92	153	49.5	0.19	0.007	0.075	0.017	0.93	2.2	0.10	2.22	0.90	0.78	113.5
40386399		33.3	3.43	172	15.9	0.24	<0.005	0.040	0.007	0.60	1.3	0.05	0.91	0.58	0.71	92.5
40386400		17.2	2.01	97	7.8	0.51	0.008	0.050	0.008	0.39	3.1	0.15	0.32	1.44	0.48	96.5
40386401		37.6	3.90	217	43.5	0.64	<0.005	0.068	0.016	1.72	3.4	0.13	1.03	1.27	1.72	166.5
40386402		31.0	3.00	167	36.5	1.70	0.006	0.086	0.009	1.99	2.1	0.13	1.32	1.78	2.39	115.5
40386403		17.9	2.23	95	176.0	7.52	0.028	0.548	0.025	7.43	7.5	1.36	4.71	16.35	11.60	248
40386404		29.7	2.69	305	0.8	0.02	<0.005	0.028	0.001	<0.05	<0.2	<0.01	0.35	0.06	0.10	15.5
40386405		10.2	1.53	67	95.4	1.08	0.042	0.201	0.134	2.13	15.7	0.18	3.46	4.00	3.52	665
40386406		35.4	3.42	289	0.6	0.02	<0.005	0.030	0.001	<0.05	<0.2	<0.01	0.35	0.04	0.08	17.5
40386407		33.3	3.29	348	0.5	0.01	<0.005	0.027	0.001	<0.05	0.2	<0.01	0.34	0.04	0.06	16.9
40386408		27.1	2.96	126	182.0	0.82	0.037	0.201	0.080	3.72	12.1	0.65	3.86	3.63	3.53	482
40386409		31.0	3.63	165	152.0	0.99	0.032	0.268	0.057	1.48	9.4	0.40	3.96	3.63	1.93	416
40386410		29.6	3.57	168	185.5	1.07	0.027	0.259	0.056	1.82	8.9	0.42	3.93	3.59	1.83	423
40386411		28.0	3.45	155	153.0	1.12	0.034	0.250	0.083	3.45	11.0	0.45	4.02	3.72	2.66	501
40386412		41.4	4.63	210	62.3	0.56	0.018	0.198	0.040	0.65	1.0	0.19	1.64	0.62	1.49	50.7
40386413		51.2	6.57	296	34.7	0.35	0.018	0.178	0.046	0.47	0.6	0.05	1.60	0.39	4.82	30.9
40386414		34.7	3.82	246	66.0	0.47	0.013	0.120	0.029	0.96	1.1	0.13	1.40	0.82	2.05	30.3
40386415		32.6	3.78	243	61.7	0.41	0.014	0.097	0.035	1.08	2.4	0.10	1.21	0.55	3.53	27.0
40386416		40.8	4.78	258	62.9	0.76	0.015	0.122	0.012	3.95	2.3	0.20	0.87	2.16	2.61	23.2
40386417		27.2	3.30	225	21.9	0.43	0.017	0.089	0.016	1.31	2.4	0.07	0.60	1.11	4.96	6.8
40386418		25.3	3.12	211	>250	9.34	0.034	0.908	0.026	12.95	15.1	1.96	4.73	10.10	18.85	335
40386419		28.5	3.04	199	26.7	0.59	0.016	0.118	0.018	2.06	3.3	0.10	0.69	1.28	8.88	9.6
40386420		31.3	3.04	321	0.6	0.02	<0.005	0.033	0.001	<0.05	0.2	<0.01	0.38	0.05	0.09	15.6
40386421		29.1	2.98	232	149.0	2.66	0.046	0.231	0.018	11.00	9.7	0.85	3.38	6.65	10.30	121.5
40386422		28.9	3.25	180	39.2	0.36	0.024	0.109	0.035	4.00	9.0	0.15	1.09	5.41	17.35	12.1
40386423		30.4	3.76	215	31.8	0.49	0.012	0.111	0.025	1.52	5.6	0.11	0.73	2.34	12.80	12.6
40386424		24.7	2.67	174	29.5	0.23	0.009	0.071	0.014	1.38	2.1	0.06	0.50	0.76	3.59	13.4
40386425		40.3	4.30	232	24.9	0.37	0.069	0.072	0.011	2.81	3.3	0.04	0.66	1.09	5.15	11.7
40386426		27.8	3.23	177	36.6	0.40	0.015	0.070	0.015	4.44	3.8	0.08	0.82	1.45	8.72	15.5
40386427		26.2	2.60	174	25.5	0.36	0.010	0.061	0.013	1.15	1.6	0.04	0.64	0.90	3.97	14.5
40386428		23.5	2.68	165	39.0	0.25	0.007	0.052	0.014	1.23	0.7	0.01	0.78	0.41	1.65	14.5
40386429		21.0	2.13	138	50.8	0.20	0.007	0.044	0.012	1.49	0.7	0.02	0.63	0.29	0.87	14.9
40386430		16.2	1.56	97	8.0	0.46	0.008	0.054	0.008	0.38	3.3	0.16	0.33	1.42	0.45	95.4
40386431		18.5	2.20	148	49.6	0.39	0.034	0.094	0.014	1.05	1.9	0.08	2.51	1.13	0.78	121.0
40386432		23.1	2.38	183	107.5	0.12	<0.005	0.071	0.001	0.78	1.0	0.08	0.78	0.33	0.46	68.3
40386433		30.6	2.76	211	97.3	0.10	0.006	0.081	0.003	1.25	1.4	0.06	0.88	0.97	0.47	73.9
40386434		58.7	6.93	338	68.2	0.16	0.007	0.104	0.005	1.12	0.4	0.04	0.19	0.40	0.54	11.5



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40386395		721	36.2	4.80	450	11.7	23.5	172	0.009	0.0059	0.040					
40386396		969	36.5	11.20	385	16.4	30.5	194	0.009	0.0069	0.044					
40386397		902	33.0	9.38	456	17.1	28.6	223	0.009	0.0070	0.046					
40386398		1775	33.9	12.10	854	10.7	31.5	222	0.020	0.0358	0.123					
40386399		1235	23.2	5.04	664	11.3	47.0	168	0.022	0.0483	0.098					
40386400		3820	27.0	4.84	1945	8.1	17.5	108	0.077	0.1415	0.800					
40386401		3210	20.9	9.39	1645	22.6	44.3	190	0.041	0.0720	0.306					
40386402		2990	29.0	9.85	1440	61.8	36.5	290	0.033	0.0704	0.327					
40386403		>10000	92.4	16.05	3480	96.7	23.5	319	0.479	0.502	>1.00	11.60	0.02	8.72	0.026	0.11
40386404		59.0	19.4	1.14	17.3	11.8	13.0	79	0.002	0.0007	0.003					
40386405		9140	54.6	120.5	6280	36.2	13.3	288	0.073	0.0299	0.438	8.50	0.02	0.22	0.067	0.02
40386406		39.3	18.8	1.24	22.8	11.5	15.9	81	0.002	0.0010	0.001					
40386407		22.9	19.6	0.89	14.3	11.8	14.7	83	0.003	0.0007	0.001					
40386408		6820	108.5	61.9	4490	40.8	22.8	427	0.026	0.1095	0.472	15.65	0.02	0.73	0.047	0.02
40386409		7410	86.8	53.2	4420	25.2	20.5	351	0.020	0.1375	0.683	15.50	0.02	0.57	0.042	0.02
40386410		7020	93.2	48.6	4400	24.1	20.7	330	0.020	0.1815	0.737	15.60	0.02	0.57	0.042	0.02
40386411		8180	98.4	64.8	4880	29.3	18.9	443	0.019	0.1690	0.802	14.55	0.02	0.57	0.050	0.02
40386412		1910	90.9	50.3	655	31.0	26.1	293	0.001	0.0401	0.126					
40386413		910	84.7	51.1	454	31.2	24.8	633	0.001	0.0216	0.075					
40386414		1370	67.9	31.7	567	30.3	16.2	286	0.006	0.0186	0.084					
40386415		576	55.4	34.9	468	50.1	13.7	473	0.003	0.0030	0.022					
40386416		1715	60.3	14.90	459	30.5	12.0	306	0.046	0.0946	0.374					
40386417		591	60.0	17.05	53.2	39.7	10.0	471	0.010	0.0018	0.005					
40386418		>10000	78.9	18.65	>10000	216	11.3	728	0.348	0.690	>1.00	13.45	0.03	1.08	0.034	0.01
40386419		939	58.3	16.80	84.0	30.3	12.1	767	0.012	0.0086	0.040					
40386420		17.4	18.7	0.92	13.9	12.1	14.4	85	0.001	<0.0005	0.001					
40386421		>10000	72.3	14.00	5160	86.1	10.7	600	0.126	0.379	>1.00	15.05	0.02	1.58	0.011	<0.01
40386422		3800	60.9	25.3	112.0	72.0	14.5	1410	0.014	0.0048	0.010					
40386423		297	54.8	21.4	84.3	42.6	15.1	1200	0.017	0.0037	0.007					
40386424		195.5	60.7	12.80	70.3	24.2	16.2	354	0.006	0.0028	0.004					
40386425		152.0	74.6	11.05	61.5	41.0	14.3	498	0.011	0.0020	0.003					
40386426		199.0	50.9	17.80	89.1	38.7	17.7	927	0.012	0.0033	0.005					
40386427		119.0	70.4	16.30	84.9	26.4	18.4	507	0.009	0.0024	0.004					
40386428		85.0	92.6	23.7	89.3	18.2	18.5	244	0.004	0.0019	0.003					
40386429		133.5	101.5	16.05	86.7	31.0	15.3	159	0.005	0.0021	0.006					
40386430		3840	25.5	4.83	1955	7.9	17.4	107	0.072	0.1315	0.787					
40386431		2360	101.5	4.38	1030	13.6	25.4	118	0.028	0.0316	0.164					
40386432		753	30.5	1.31	245	8.3	27.4	142	0.008	0.0080	0.040					
40386433		1050	39.6	2.30	355	11.7	27.1	156	0.010	0.0352	0.055					
40386434		217	52.2	3.33	77.3	17.6	10.3	140	0.001	0.0031	0.012					





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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	PGM-ICP24	PGM-ICP24	PGM-ICP24	
		Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %	TiO2 %	Zn %	Au ppm	Pt ppm	Pd ppm
40386395 40386396 40386397 40386398 40386399		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002	0.001	0.005	0.001
40386400 40386401 40386402 40386403 40386404		2.66	14.95	21.3	2.0	4.90	0.13	0.356	<0.01	4.73	35.9	2.00	0.037	0.483	0.570	2.14
40386405 40386406 40386407		0.936	31.4	45.0	1.9	2.07	0.04	0.646	<0.01	18.85	25.9	0.42	0.031			
40386408 40386409		0.682 0.735	24.6 21.9	35.2 31.3	1.8 1.8	3.32 3.04	0.07 0.05	0.442 0.445	<0.01 <0.01	11.40 9.15	28.8 33.2	0.72 0.70	0.044 0.037			
40386410 40386411 40386412 40386413 40386414		0.703 0.801	21.8 26.6	31.2 38.0	1.8 1.3	3.15 2.85	0.05 0.07	0.439 0.492	<0.01 <0.01	8.75 10.65	32.7 27.8	0.68 0.62	0.035 0.046			
40386415 40386416 40386417 40386418 40386419		1.225	8.99	12.85	3.3	2.47	0.06	1.080	0.01	4.71	53.1	0.52	0.073	0.342	0.697	3.44
40386420 40386421 40386422 40386423 40386424		1.185	5.56	7.95	3.9	2.83	0.05	0.541	<0.01	2.59	57.1	0.65	0.062	0.128	0.367	1.600
40386425 40386426 40386427 40386428 40386429																
40386430 40386431 40386432 40386433 40386434																

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





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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06	
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40386435		2.81	73.7	10.40	5.74	1.18	1.72	0.75	4.26	0.008	0.69	0.06	0.16	0.02	0.09	100.45
40386436		1.50	75.0	11.15	4.79	0.72	1.39	0.74	5.34	0.007	0.62	0.04	0.18	0.02	0.09	101.69
40386437		1.74	75.8	12.05	3.34	0.35	1.66	0.39	4.93	0.007	0.43	0.03	0.08	0.01	0.06	100.91
40386438		0.76	72.7	8.50	7.76	0.55	1.29	0.37	3.73	0.007	0.30	0.03	0.09	0.01	0.04	97.76
40386439		1.04	71.9	9.97	7.07	0.45	1.40	0.49	4.61	0.007	0.46	0.03	0.11	0.02	0.08	98.46
40386440		0.81	71.3	11.15	5.05	0.83	1.69	0.58	4.92	0.007	0.71	0.04	0.12	0.02	0.07	98.01
40386441		2.85	46.9	13.05	17.50	7.46	3.98	2.35	0.97	0.006	3.45	0.21	0.41	0.07	0.06	98.54
40386442		1.98	48.2	12.75	18.05	7.05	4.73	2.07	1.67	0.006	3.49	0.27	0.41	0.05	0.08	101.70
40386443		2.01	76.0	9.49	4.12	2.01	1.99	0.44	4.78	0.010	0.49	0.07	0.07	0.01	0.07	100.43
40386444		2.56	44.4	4.00	7.07	23.6	11.35	0.13	0.69	0.006	0.16	0.71	0.11	0.02	0.02	100.30
40386445		1.53	56.9	15.35	4.93	5.70	6.14	0.36	7.13	0.022	0.57	0.42	0.35	0.02	0.13	100.24
40386446		11.07	34.9	0.81	8.55	25.9	9.45	0.04	0.12	0.002	0.03	1.70	0.31	0.02	<0.01	100.08
40386447		12.17	49.3	2.46	8.63	19.70	7.67	0.07	1.01	0.010	0.12	1.67	0.54	0.02	0.01	99.24
40386448		12.89	55.6	3.19	19.70	10.75	5.21	0.15	0.15	0.006	0.17	0.88	0.09	0.01	<0.01	99.55
40386449		13.34	55.5	3.73	33.2	2.69	3.45	0.15	0.29	0.006	0.19	0.89	0.18	0.01	0.01	99.96
40386450		1.14	58.4	18.25	7.01	6.28	2.48	3.67	2.48	0.004	0.80	0.11	0.24	0.07	0.12	100.35
40386451		13.57	53.8	1.64	37.6	3.66	2.17	0.19	0.42	0.003	0.08	0.37	0.10	0.01	0.01	98.43
40386452		14.12	49.2	2.08	45.0	2.40	2.08	0.24	0.56	0.004	0.13	0.27	0.07	0.01	0.01	99.71
40386453		13.83	53.7	0.58	40.9	2.98	1.25	0.06	0.05	0.002	0.03	0.47	0.09	0.01	<0.01	98.87
40386454		14.02	44.0	0.73	50.0	3.48	0.90	0.09	0.16	0.003	0.04	0.46	0.13	0.01	<0.01	98.49
40386455		15.21	47.0	0.98	48.7	4.17	1.01	0.12	0.14	0.002	0.04	0.23	0.08	0.01	<0.01	101.16
40386456		14.36	46.0	2.32	48.4	1.77	2.49	0.13	0.19	0.005	0.09	0.12	0.08	0.01	0.01	101.58
40387000		1.66	58.0	18.60	7.52	6.35	2.45	3.88	2.24	0.004	0.97	0.11	0.30	0.08	0.09	100.96
40387001		4.69	61.2	18.35	8.65	0.34	3.14	1.41	3.48	0.027	0.83	0.06	0.11	0.01	0.07	101.25
40387002		3.08	62.2	17.85	8.21	0.53	2.96	1.54	3.62	0.027	0.84	0.04	0.10	0.02	0.08	101.31
40387003		3.13	68.2	15.35	6.63	0.55	2.39	2.41	2.96	0.025	0.72	0.03	0.11	0.02	0.12	101.89
40387004		3.79	66.1	12.95	6.93	3.15	2.23	2.66	2.37	0.021	0.98	0.05	0.16	0.03	0.08	101.23
40387005		3.59	46.4	14.40	15.30	5.42	5.38	1.60	3.58	0.020	3.03	0.16	0.41	0.04	0.16	100.46
40387006		4.39	46.7	13.90	15.85	7.55	5.40	2.36	1.25	0.020	3.35	0.21	0.46	0.03	0.07	98.75
40387007		5.81	48.3	14.90	15.00	6.97	5.51	2.21	1.85	0.022	2.87	0.17	0.39	0.04	0.09	100.38
40387008		6.41	47.8	14.35	15.75	8.25	5.44	2.34	1.17	0.020	3.20	0.19	0.43	0.04	0.05	100.33
40387009		5.81	45.5	14.75	15.85	4.99	5.23	1.81	3.17	0.019	3.34	0.18	0.47	0.03	0.09	98.86
40387010		0.17	44.8	18.45	12.10	9.35	7.37	2.02	1.02	0.341	1.27	0.14	0.15	0.05	0.04	99.03
40387011		5.46	62.5	16.85	7.91	0.97	2.94	1.67	3.71	0.027	0.81	0.04	0.12	0.02	0.15	100.82
40387012		5.78	63.5	16.70	7.84	0.72	2.71	1.71	3.66	0.027	0.81	0.04	0.12	0.02	0.10	101.05
40387013		5.58	64.3	16.40	7.96	0.53	2.80	1.87	3.30	0.027	0.76	0.04	0.11	0.02	0.07	101.28
40387014		5.63	69.9	14.30	6.38	0.49	2.21	2.40	2.89	0.024	0.64	0.03	0.12	0.02	0.09	101.62
40387015		5.62	65.0	15.75	7.41	1.22	2.54	1.56	3.72	0.026	0.73	0.04	0.10	0.02	0.09	101.34
40387016		2.84	60.3	18.40	9.18	0.59	3.32	1.33	3.49	0.026	0.78	0.04	0.11	0.01	0.07	101.64
40387017		2.92	63.5	14.85	7.83	1.40	2.76	1.78	3.52	0.023	0.87	0.05	0.15	0.02	0.08	99.71



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 Account: RTECIKBZ

Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	LOI	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Units		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386435		1.67	0.06	0.33	782	74.6	50	3.74	6.75	3.85	1.42	17.8	7.38	5.3	1.36	32.2
40386436		1.60	0.27	0.25	790	74.1	50	5.17	6.95	4.18	1.64	16.5	7.23	5.3	1.35	33.0
40386437		1.77	0.07	0.03	568	92.7	50	9.58	10.20	6.44	1.68	21.2	9.43	8.8	2.13	40.2
40386438		2.38	0.01	3.01	353	49.2	40	5.46	5.59	3.42	0.94	14.2	6.04	3.7	1.15	22.5
40386439		1.86	0.12	1.54	683	57.0	50	5.34	5.12	3.12	1.22	15.6	5.66	3.9	1.05	25.4
40386440		1.52	0.11	0.36	654	84.0	50	6.71	6.88	3.96	1.37	17.0	6.94	5.2	1.23	36.9
40386441		2.12	0.04	0.83	550	68.6	40	3.92	7.18	3.69	2.69	25.9	8.96	6.8	1.41	30.6
40386442		2.87	0.07	0.65	729	68.1	40	3.86	7.38	3.69	2.65	23.4	9.38	6.7	1.34	29.6
40386443		2.19	0.49	0.57	660	52.6	70	5.89	3.71	2.01	1.01	13.5	3.85	3.1	0.72	23.9
40386444		8.03	1.79	0.70	128.5	23.7	40	0.88	1.46	0.87	0.69	6.7	1.94	1.3	0.29	12.6
40386445		2.22	0.04	0.06	1220	88.6	150	31.8	6.38	3.34	2.12	20.0	7.88	5.0	1.13	44.8
40386446		18.25	4.55	0.25	21.6	17.4	10	0.63	1.65	1.10	0.34	4.0	1.97	0.4	0.35	9.0
40386447		8.03	2.26	0.67	78.1	28.7	70	2.37	4.52	3.06	1.03	7.2	5.03	0.8	0.92	18.3
40386448		3.64	1.25	0.33	35.4	19.5	40	4.40	0.78	0.58	0.24	8.2	1.33	1.1	0.17	8.0
40386449		-0.34	0.05	<0.01	66.4	26.9	40	7.84	1.06	0.66	0.40	8.7	1.36	1.3	0.24	10.8
40386450		0.44	0.10	0.09	1105	54.7	20	1.25	5.66	3.54	1.59	23.0	6.43	6.8	1.11	24.6
40386451		-1.62	0.17	<0.01	80.7	16.6	20	13.30	0.58	0.42	0.18	5.3	0.71	0.5	0.16	4.5
40386452		-2.34	0.01	<0.01	118.0	24.5	30	22.1	0.97	0.56	0.25	8.6	0.86	0.8	0.17	4.7
40386453		-1.25	0.01	<0.01	11.3	18.4	10	1.60	0.96	0.59	0.22	4.2	0.81	0.2	0.19	4.3
40386454		-1.51	<0.01	<0.01	15.6	9.5	20	1.56	0.82	0.53	0.15	3.5	0.63	0.3	0.18	3.5
40386455		-1.32	0.01	<0.01	31.8	9.9	20	0.74	0.72	0.49	0.20	2.7	0.61	0.2	0.15	3.5
40386456		-0.04	0.04	<0.01	67.3	14.2	30	1.97	0.86	0.62	0.20	4.5	0.88	0.6	0.17	6.2
40387000		0.37	0.04	0.10	854	71.4	20	1.25	6.61	4.01	1.98	23.5	7.92	8.2	1.36	30.2
40387001		3.57	<0.01	0.34	642	73.0	190	4.12	4.81	2.66	1.44	25.2	5.31	4.0	0.90	36.6
40387002		3.29	<0.01	0.02	773	64.0	190	4.30	4.45	2.76	1.43	22.6	5.51	4.0	0.93	31.2
40387003		2.37	<0.01	0.03	1080	55.4	180	1.54	3.47	2.10	1.26	17.6	4.15	4.5	0.73	25.8
40387004		3.52	0.49	0.26	755	57.8	150	1.06	3.87	2.23	1.40	16.9	4.51	5.2	0.83	27.1
40387005		4.56	0.41	0.48	1440	63.6	150	2.87	7.84	4.31	2.04	24.2	7.75	6.7	1.54	27.4
40387006		1.60	0.02	0.14	632	68.7	140	3.89	9.06	4.66	2.38	25.1	8.86	7.3	1.72	29.1
40387007		2.06	0.03	0.08	812	64.2	150	4.77	7.47	4.18	2.20	24.0	8.00	6.4	1.55	28.4
40387008		1.30	<0.01	0.08	469	64.9	140	4.83	7.73	4.61	2.23	23.9	8.59	6.6	1.59	27.1
40387009		3.43	0.17	0.33	813	72.1	140	2.06	8.89	5.14	2.58	27.0	9.13	7.1	1.78	32.2
40387010		1.93	0.03	0.32	349	27.5	2450	2.58	3.85	2.19	1.13	20.4	3.73	2.7	0.71	12.3
40387011		3.10	0.07	0.02	1365	56.8	190	2.87	4.12	2.69	1.39	22.2	4.52	4.2	0.81	26.8
40387012		3.09	0.07	0.05	893	62.3	200	3.83	4.19	2.56	1.39	22.2	5.03	4.2	0.77	29.2
40387013		3.09	0.05	0.06	693	66.4	190	3.78	4.29	2.38	1.31	21.8	4.93	4.7	0.90	31.9
40387014		2.13	0.04	0.02	819	55.9	170	2.17	3.34	2.09	1.09	15.9	4.07	4.9	0.67	26.3
40387015		3.13	0.18	0.10	821	59.6	190	2.98	3.69	2.48	1.12	19.6	4.66	4.1	0.80	28.7
40387016		3.99	0.06	0.85	657	67.4	180	4.97	4.54	2.57	1.35	26.1	5.20	3.8	0.95	32.3
40387017		2.88	0.15	0.06	775	58.4	170	2.60	3.95	2.41	1.14	19.6	4.20	4.9	0.78	28.1



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 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386435		0.54	14.4	33.7	8.56	142.0	7.27	1	136.5	1.0	1.13	6.52	0.56	5.05	130	2
40386436		0.51	12.8	35.3	8.47	170.0	8.04	2	127.5	0.9	1.19	6.46	0.53	5.56	142	2
40386437		0.95	16.1	42.7	11.05	191.5	9.66	3	82.4	1.4	1.58	9.85	0.97	6.77	103	3
40386438		0.40	9.4	23.9	5.52	119.0	5.56	7	61.9	0.7	0.98	7.11	0.47	4.21	86	2
40386439		0.39	10.1	24.6	6.33	149.5	5.63	1	107.0	0.7	0.84	5.96	0.42	5.65	134	1
40386440		0.48	14.4	38.1	9.41	167.5	8.19	1	133.0	0.8	1.03	6.70	0.48	7.17	158	1
40386441		0.42	25.2	38.5	8.78	34.9	9.01	3	577	1.7	1.40	4.00	0.51	1.24	391	1
40386442		0.46	25.2	37.5	8.95	58.4	9.38	1	407	1.7	1.27	3.80	0.51	1.16	384	1
40386443		0.26	7.5	23.5	5.93	151.5	4.77	1	107.0	0.6	0.54	6.01	0.31	6.99	222	2
40386444		0.10	3.8	11.0	2.81	22.7	2.08	<1	148.5	0.3	0.23	2.53	0.12	3.55	143	1
40386445		0.34	16.9	43.7	11.00	366	9.06	1	161.5	1.6	0.98	9.09	0.42	7.43	916	2
40386446		0.09	1.1	8.3	2.02	5.8	1.80	1	150.5	0.1	0.26	0.68	0.16	3.01	61	4
40386447		0.33	1.7	20.2	4.51	45.5	3.93	<1	121.5	0.2	0.74	1.18	0.35	16.35	1655	2
40386448		0.05	4.1	6.8	1.79	13.0	1.13	<1	95.6	0.3	0.14	2.45	0.06	0.60	163	5
40386449		0.09	6.3	8.0	2.26	31.0	1.41	<1	47.5	0.3	0.20	3.10	0.09	0.64	33	8
40386450		0.38	12.5	29.4	7.05	96.4	6.81	2	516	0.8	0.95	4.06	0.40	1.35	111	1
40386451		0.06	5.5	4.0	1.01	47.7	0.82	<1	51.3	0.1	0.09	1.61	0.05	0.20	28	4
40386452		0.06	9.3	4.7	1.09	65.5	0.97	<1	48.7	0.2	0.16	1.63	0.08	0.15	30	3
40386453		0.06	4.9	4.2	0.91	5.9	0.93	<1	28.3	0.1	0.20	0.46	0.06	0.10	19	1
40386454		0.06	1.9	3.3	0.79	7.0	0.55	<1	43.6	0.1	0.09	0.63	0.05	0.13	25	1
40386455		0.07	1.6	3.4	0.74	7.6	0.71	<1	46.3	0.1	0.10	0.83	0.04	0.10	21	1
40386456		0.08	2.7	5.0	1.38	12.1	0.93	<1	55.4	0.2	0.13	2.29	0.09	0.28	25	1
40387000		0.52	13.7	40.8	9.64	95.6	8.13	2	620	0.7	1.23	4.06	0.49	1.65	132	<1
40387001		0.35	12.8	33.9	8.55	153.5	6.63	2	72.3	0.8	0.82	9.44	0.41	4.28	163	2
40387002		0.39	11.7	31.2	7.77	142.5	6.06	2	104.0	0.9	0.77	8.39	0.40	3.85	148	2
40387003		0.33	10.2	27.1	6.61	101.5	5.16	2	169.5	0.7	0.56	7.51	0.34	3.11	119	1
40387004		0.36	10.6	27.2	7.03	89.7	4.93	2	199.5	0.7	0.68	6.56	0.34	2.39	126	2
40387005		0.58	20.5	35.5	8.09	153.5	8.43	2	247	1.2	1.29	4.28	0.55	1.38	277	1
40387006		0.68	22.4	39.3	8.88	51.9	9.69	2	284	1.5	1.47	4.35	0.63	1.32	304	1
40387007		0.59	19.3	35.8	8.33	82.4	7.63	2	342	1.2	1.24	4.46	0.60	1.42	268	1
40387008		0.68	21.4	38.1	8.26	45.9	8.37	2	329	1.3	1.28	4.05	0.59	1.19	284	5
40387009		0.71	23.0	41.4	9.41	162.0	9.67	3	244	1.4	1.48	4.56	0.71	1.48	309	2
40387010		0.28	7.8	16.0	3.48	35.1	3.60	2	413	0.5	0.60	1.23	0.25	0.29	179	<1
40387011		0.35	11.7	26.7	6.91	132.5	5.70	2	170.5	0.7	0.73	8.16	0.35	3.38	148	1
40387012		0.37	11.5	30.3	7.52	139.5	6.11	2	144.5	1.6	0.65	8.21	0.37	3.42	144	3
40387013		0.39	10.6	29.6	7.64	135.0	5.76	2	146.0	0.8	0.72	7.91	0.35	3.34	135	2
40387014		0.34	9.6	25.2	6.34	115.5	4.99	1	177.5	0.6	0.59	7.35	0.28	2.90	107	1
40387015		0.34	10.5	27.1	7.02	153.5	4.91	1	148.5	0.8	0.60	7.67	0.34	3.26	129	1
40387016		0.35	10.9	32.9	8.35	150.0	6.57	2	84.3	0.8	0.77	8.96	0.37	6.89	174	2
40387017		0.42	11.2	27.2	7.04	131.5	4.95	2	159.0	0.7	0.72	7.12	0.31	3.78	129	2



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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386435		35.2	3.69	216	86.3	0.16	0.005	0.052	0.007	0.53	0.9	0.05	0.18	0.49	0.47	27.0
40386436		35.1	3.60	213	41.0	0.15	0.007	0.047	0.006	0.63	0.7	0.06	0.24	0.36	0.50	15.6
40386437		51.2	6.28	305	59.6	0.11	0.005	0.060	0.005	0.34	0.4	0.08	0.21	0.16	0.68	9.4
40386438		28.3	3.09	145	149.0	11.60	0.034	0.462	0.003	4.13	12.2	2.18	1.52	7.61	7.81	106.0
40386439		25.8	2.61	160	62.2	0.21	0.041	0.061	0.006	1.20	2.6	0.12	1.03	1.00	0.74	71.5
40386440		32.6	3.43	193	78.7	0.20	0.009	0.071	0.010	0.68	1.2	0.12	0.50	0.81	0.84	23.2
40386441		33.0	3.06	255	58.2	0.11	0.021	0.047	0.002	0.69	1.2	0.05	0.54	0.50	0.40	78.6
40386442		32.6	3.02	252	36.0	0.03	0.006	0.027	0.001	0.46	0.8	0.04	0.29	0.16	0.23	52.7
40386443		17.7	1.97	134	91.4	0.19	0.018	0.037	0.013	1.04	1.9	0.09	0.67	0.48	3.94	10.9
40386444		10.0	0.72	46	93.1	0.02	<0.005	<0.005	0.003	0.88	1.2	0.03	0.21	0.20	0.58	8.8
40386445		37.6	2.34	165	213	0.02	0.014	0.022	0.003	1.08	0.3	0.01	0.54	0.15	0.52	25.9
40386446		12.8	0.58	15	128.5	0.01	0.010	0.006	0.001	0.18	0.3	0.04	0.14	0.06	0.26	4.8
40386447		39.6	2.26	31	243	0.02	<0.005	0.011	0.006	0.30	1.0	0.09	0.29	0.21	0.84	8.7
40386448		5.8	0.38	48	39.2	0.02	<0.005	0.009	0.001	0.08	0.4	0.06	0.09	0.07	0.20	22.2
40386449		7.8	0.39	57	17.6	0.01	0.005	0.007	<0.001	0.06	<0.2	0.02	0.14	0.02	0.02	29.6
40386450		27.5	2.94	262	0.5	0.01	0.008	0.027	<0.001	<0.05	<0.2	0.01	0.35	0.03	0.07	18.5
40386451		4.6	0.30	36	25.8	<0.01	<0.005	0.006	<0.001	0.08	<0.2	0.01	0.08	0.01	0.02	20.2
40386452		5.4	0.50	47	22.1	<0.01	<0.005	0.008	<0.001	0.06	0.2	0.01	0.10	0.01	<0.02	18.6
40386453		6.1	0.45	19	25.3	0.01	0.006	<0.005	<0.001	0.07	<0.2	0.01	<0.02	0.02	<0.02	9.9
40386454		5.7	0.36	12	8.9	<0.01	<0.005	<0.005	<0.001	0.07	<0.2	<0.01	<0.02	0.01	<0.02	4.6
40386455		4.8	0.26	11	10.4	0.01	0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	0.01	<0.02	5.2
40386456		5.6	0.59	25	25.4	0.02	0.009	0.005	<0.001	0.08	<0.2	0.01	0.03	0.02	<0.02	7.4
40387000		36.6	3.34	333	0.5	0.02	<0.005	0.033	<0.001	<0.05	0.2	0.02	0.37	0.03	0.07	15.6
40387001		25.5	2.67	144	9.9	0.16	0.008	0.034	0.001	0.39	0.3	0.03	0.54	0.07	0.20	23.6
40387002		23.8	2.49	151	7.8	0.13	0.011	0.035	<0.001	0.18	0.3	0.02	0.27	0.04	0.03	21.7
40387003		19.5	2.30	179	3.9	0.03	0.005	0.022	<0.001	0.24	0.2	0.01	0.13	0.02	0.02	16.4
40387004		21.2	2.17	198	10.2	0.06	0.025	0.040	<0.001	0.69	0.2	0.02	0.21	0.05	0.06	17.3
40387005		40.9	4.17	268	7.6	0.04	0.033	0.072	<0.001	0.58	0.4	0.01	0.98	0.13	0.19	43.2
40387006		45.3	4.55	291	4.8	0.03	0.007	0.051	<0.001	0.34	0.4	0.01	0.47	0.10	0.24	48.4
40387007		39.4	4.17	252	4.8	0.03	0.013	0.050	0.001	0.25	0.2	0.01	0.37	0.12	0.19	46.9
40387008		43.0	4.22	270	4.5	0.02	0.006	0.039	0.001	0.25	0.3	0.03	0.43	0.10	0.23	46.8
40387009		47.3	4.35	301	8.8	0.08	0.011	0.138	0.001	0.34	0.5	0.04	0.26	0.21	0.20	44.6
40387010		19.6	1.80	103	4.1	0.14	0.008	0.027	0.002	0.38	1.1	0.08	0.46	0.49	0.28	61.0
40387011		21.8	2.44	148	8.7	0.04	<0.005	0.031	<0.001	0.29	0.2	0.03	0.20	0.02	0.02	19.5
40387012		22.9	2.51	155	7.3	0.06	0.010	0.040	<0.001	0.37	0.2	0.02	0.31	0.03	0.04	19.1
40387013		23.5	2.69	169	4.2	0.06	<0.005	0.055	<0.001	0.13	<0.2	0.02	0.15	0.02	0.04	20.0
40387014		18.2	2.11	181	2.5	0.03	0.008	0.025	<0.001	0.14	0.2	0.01	0.10	0.02	<0.02	16.1
40387015		20.7	2.38	162	4.6	0.05	0.015	0.040	0.001	0.39	<0.2	0.01	0.24	0.03	0.03	19.5
40387016		24.3	2.56	137	7.9	0.13	0.017	0.051	0.003	0.55	0.5	0.03	0.55	0.11	0.47	24.2
40387017		22.4	2.54	186	4.7	0.04	0.011	0.053	0.001	0.23	0.2	0.01	0.26	0.07	0.17	19.3





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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40386435		450	52.7	3.51	184.5	20.2	11.6	126	0.001	0.0036	0.022					
40386436		211	43.9	8.21	64.8	14.4	12.7	120	0.002	0.0023	0.013					
40386437		111.5	57.5	3.06	27.9	10.2	10.4	136	<0.001	0.0032	0.004					
40386438		>10000	46.8	1.65	2970	129.5	8.5	278	0.345	0.531	>1.00	8.45	0.02	0.49	0.010	<0.01
40386439		1790	50.4	4.86	870	17.4	10.7	119	0.013	0.0079	0.090					
40386440		937	52.1	6.09	192.0	27.0	11.8	149	0.007	0.0132	0.051					
40386441		871	29.7	1.83	482	17.5	29.4	163	0.008	0.0101	0.060					
40386442		260	32.9	1.51	72.7	8.0	27.8	146	0.003	0.0026	0.010					
40386443		109.5	49.8	13.40	37.8	24.1	10.2	423	0.001	0.0022	0.004					
40386444		30.2	34.0	6.69	38.1	14.9	3.6	85	0.001	0.0020	0.002					
40386445		44.6	167.0	6.08	119.5	15.1	14.5	116	0.001	0.0035	0.003					
40386446		17.1	24.1	1.89	4.6	5.1	0.6	39	0.002	<0.0005	<0.001					
40386447		52.7	60.5	11.20	24.2	15.5	3.5	127	0.001	0.0006	0.001					
40386448		69.6	27.6	1.72	25.9	10.6	4.5	57	0.001	0.0007	0.004					
40386449		8.7	28.1	1.08	10.6	4.7	4.7	25	<0.001	<0.0005	<0.001					
40386450		18.8	20.5	0.86	13.8	11.6	17.2	85	<0.001	0.0005	0.002					
40386451		5.3	16.5	1.38	4.9	3.5	3.2	13	0.001	<0.0005	<0.001					
40386452		7.5	16.4	1.19	5.3	4.0	4.2	13	<0.001	<0.0005	<0.001					
40386453		2.5	9.4	1.17	2.2	1.5	1.2	6	0.001	<0.0005	0.001					
40386454		2.7	6.1	1.06	2.7	0.9	1.1	6	0.001	<0.0005	0.001					
40386455		1.1	12.4	1.11	2.9	1.3	1.2	8	<0.001	<0.0005	<0.001					
40386456		1.4	38.2	1.01	5.9	1.4	2.2	15	0.003	<0.0005	0.001					
40387000		19.2	17.4	1.04	11.5	11.4	15.9	89	0.001	<0.0005	0.001					
40387001		51.9	79.8	3.10	84.3	9.9	23.2	145	<0.001	0.0012	0.002					
40387002		43.2	74.3	1.77	80.0	10.3	21.6	112	<0.001	0.0011	0.001					
40387003		11.6	55.1	0.79	63.2	7.3	16.5	68	<0.001	0.0010	0.001					
40387004		47.2	46.1	1.33	53.3	11.4	15.7	78	<0.001	0.0012	0.001					
40387005		276	62.1	1.74	86.9	5.7	28.7	144	0.002	0.0049	0.004					
40387006		290	28.4	1.86	94.0	4.9	33.4	153	0.002	0.0043	0.003					
40387007		274	40.9	1.85	107.0	6.6	30.4	144	0.002	0.0048	0.004					
40387008		285	27.5	1.67	98.3	4.3	31.3	152	0.003	0.0045	0.004					
40387009		335	47.2	2.25	86.2	4.7	32.2	155	0.001	0.0047	0.003					
40387010		1085	34.1	2.92	680	6.5	16.3	105	0.022	0.0438	0.211					
40387011		27.3	64.6	0.92	79.4	10.8	20.9	88	<0.001	0.0011	0.001					
40387012		25.4	69.2	1.63	76.4	9.3	19.1	102	<0.001	0.0012	0.001					
40387013		53.4	79.5	0.89	72.5	7.5	18.1	92	<0.001	0.0011	0.001					
40387014		19.6	55.3	1.20	58.8	5.7	15.2	63	<0.001	0.0008	0.001					
40387015		37.2	65.9	2.05	71.0	5.8	18.6	87	<0.001	0.0010	0.001					
40387016		103.0	70.9	11.75	84.1	18.3	22.5	171	<0.001	0.0013	0.002					
40387017		68.7	70.4	4.12	67.0	11.2	18.3	108	<0.001	0.0014	0.002					





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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	PGM-ICP24	PGM-ICP24	PGM-ICP24	
		Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %	TiO2 %	Zn %	Au ppm	Pt ppm	Pd ppm
40386435 40386436 40386437 40386438 40386439		2.13	5.37	7.68	3.0	1.24	0.04	0.300	<0.01	2.97	68.5	0.30	0.028	0.355	0.529	2.68
40386440 40386441 40386442 40386443 40386444																
40386445 40386446 40386447 40386448 40386449																
40386450 40386451 40386452 40386453 40386454																
40386455 40386456 40387000 40387001 40387002																
40387003 40387004 40387005 40387006 40387007																
40387008 40387009 40387010 40387011 40387012																
40387013 40387014 40387015 40387016 40387017																

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



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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387018		3.89	60.5	15.80	9.13	2.05	3.70	1.62	3.75	0.028	1.07	0.08	0.17	0.03	0.12	100.76
40387019		1.32	59.0	15.90	9.60	1.78	4.05	1.77	3.59	0.032	0.93	0.07	0.14	0.03	0.09	100.20
40387020		1.34	58.8	16.10	10.05	2.08	4.33	1.77	3.48	0.034	1.00	0.07	0.14	0.03	0.09	101.43
40387021		2.81	60.0	14.20	10.55	3.24	4.56	1.92	2.83	0.026	1.27	0.10	0.26	0.05	0.07	101.62
40387022		3.19	44.5	18.40	13.75	8.74	9.24	1.75	0.57	0.095	0.75	0.11	0.09	0.04	0.02	100.28
40387023		3.23	46.6	19.05	11.70	10.40	8.91	2.11	0.36	0.046	0.90	0.13	0.09	0.04	0.01	101.06
40387024		3.10	46.8	19.65	10.60	10.55	8.14	2.20	0.40	0.048	0.93	0.12	0.11	0.04	0.01	100.52
40387025		3.11	46.2	18.75	10.70	10.10	8.20	2.27	0.33	0.041	0.98	0.13	0.13	0.04	0.01	98.34
40387026		3.11	46.8	19.15	10.75	10.35	8.75	2.24	0.33	0.036	0.97	0.13	0.11	0.04	0.01	100.02
40387027		5.34	46.2	19.20	10.10	10.40	9.10	2.14	0.30	0.029	0.95	0.12	0.11	0.04	0.01	99.24
40387028		6.19	47.1	18.35	11.15	10.45	7.39	2.32	0.46	0.060	1.32	0.14	0.16	0.04	0.02	99.76
40387029		6.14	47.0	19.80	10.20	10.75	8.40	2.33	0.36	0.050	1.09	0.13	0.12	0.04	0.01	101.15
40387030		1.97	56.7	17.65	7.69	5.91	2.56	3.70	2.50	0.004	1.03	0.12	0.35	0.07	0.12	98.67
40387031		6.27	45.5	19.80	9.86	10.55	8.45	2.17	0.32	0.037	0.88	0.12	0.11	0.04	0.01	98.66
40387032		6.16	46.0	20.00	9.49	10.55	8.14	2.26	0.40	0.038	0.77	0.12	0.10	0.04	0.01	98.82
40387033		6.16	46.5	19.80	10.05	10.70	7.82	2.39	0.37	0.036	0.97	0.13	0.11	0.04	0.01	99.41
40387034		6.11	46.6	19.25	10.55	10.30	8.07	2.52	0.36	0.038	0.99	0.14	0.13	0.04	0.02	99.28
40387035		6.21	48.1	18.20	11.50	10.45	7.48	2.62	0.41	0.033	1.41	0.15	0.17	0.03	0.02	101.20
40387036		6.48	48.4	17.45	12.35	10.55	7.55	2.65	0.45	0.034	1.56	0.16	0.17	0.03	0.02	101.99
40387037		6.17	48.1	17.15	12.05	10.00	7.21	2.67	0.48	0.036	1.37	0.16	0.19	0.03	0.02	100.34
40387038		6.31	47.2	18.25	11.30	10.05	7.79	2.61	0.39	0.036	1.21	0.14	0.14	0.04	0.02	99.62
40387039		6.22	46.7	18.35	11.50	9.67	7.92	2.56	0.41	0.030	1.16	0.14	0.15	0.04	0.02	99.34
40387040		0.17	45.6	18.95	12.25	9.68	7.65	2.12	1.06	0.349	1.33	0.14	0.16	0.05	0.04	101.24
40387041		6.08	47.9	17.65	12.20	10.10	7.55	2.64	0.44	0.037	1.44	0.16	0.18	0.04	0.02	101.72
40387042		5.17	47.7	17.60	12.35	9.85	7.80	2.65	0.46	0.036	1.29	0.16	0.18	0.04	0.02	101.69
40387043		6.45	46.9	17.35	12.45	9.64	7.90	2.67	0.46	0.029	1.32	0.16	0.17	0.04	0.02	99.65
40387044		6.33	47.5	17.35	12.15	10.15	7.81	2.62	0.43	0.033	1.45	0.16	0.16	0.04	0.02	100.71
40387045		5.86	46.8	16.85	12.10	10.05	7.67	2.56	0.44	0.042	1.51	0.16	0.17	0.04	0.02	99.66
40387046		6.48	46.9	17.10	12.30	10.10	7.29	2.70	0.47	0.041	1.48	0.16	0.17	0.04	0.02	99.47
40387047		6.40	47.1	17.60	12.00	9.90	7.14	2.76	0.48	0.035	1.39	0.16	0.16	0.03	0.02	99.45
40387048		6.02	47.3	16.90	12.40	10.50	7.60	2.61	0.46	0.044	1.45	0.17	0.16	0.04	0.02	100.43
40387049		2.67	47.7	15.20	13.40	9.50	6.50	2.67	0.55	0.028	2.05	0.17	0.19	0.03	0.02	98.53
40387050		3.27	46.7	14.95	13.70	9.65	6.57	2.57	0.47	0.028	2.52	0.17	0.17	0.03	0.02	98.03
40387051		6.08	48.3	16.80	11.30	9.49	7.02	2.57	0.58	0.039	1.30	0.14	0.15	0.03	0.02	98.91
40387052		6.24	46.5	16.70	12.50	9.57	7.76	2.58	0.40	0.040	1.41	0.16	0.16	0.04	0.02	98.45
40387053		6.23	47.2	17.65	11.65	10.15	7.87	2.60	0.38	0.044	1.19	0.15	0.14	0.04	0.02	99.91
40387054		6.28	47.4	16.25	12.95	10.05	7.21	2.64	0.46	0.038	1.64	0.17	0.18	0.03	0.02	99.97
40387055		6.17	47.2	15.50	12.20	10.60	7.41	2.52	0.42	0.058	1.57	0.17	0.17	0.03	0.02	98.81
40387056		6.45	46.7	16.70	12.60	9.75	7.59	2.64	0.43	0.037	1.46	0.16	0.17	0.04	0.02	98.79
40387057		6.27	47.0	15.55	13.45	9.68	6.73	2.72	0.53	0.031	1.95	0.18	0.21	0.04	0.02	98.81



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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40387018		2.71	0.04	0.07	1070	54.2	200	4.03	4.38	2.70	1.51	20.4	4.59	4.2	0.89	25.0
40387019		3.22	0.01	0.48	848	62.9	230	4.16	4.21	2.20	1.58	20.9	4.43	4.1	0.73	29.6
40387020		3.46	0.02	0.64	824	59.6	240	4.45	4.08	2.20	1.54	21.3	4.49	3.9	0.85	29.1
40387021		2.54	0.03	0.39	664	63.8	190	4.49	5.22	2.87	1.67	18.7	6.06	4.4	0.99	29.3
40387022		2.22	0.01	1.64	187.5	17.3	700	3.37	1.96	1.36	0.83	17.1	2.31	1.6	0.48	7.7
40387023		0.71	0.02	0.44	118.0	17.2	330	2.10	2.51	1.44	0.98	17.8	2.39	1.8	0.55	7.7
40387024		0.92	0.02	0.24	128.5	19.3	350	1.78	2.65	1.45	0.93	18.9	2.54	1.8	0.55	8.5
40387025		0.46	0.02	0.05	128.5	20.4	300	1.56	2.88	1.59	1.08	19.0	2.81	2.0	0.52	8.9
40387026		0.35	0.03	0.04	135.0	20.1	260	1.30	3.04	1.56	0.90	18.0	3.15	1.9	0.56	8.7
40387027		0.54	0.02	0.03	119.5	19.7	210	1.47	2.81	1.55	1.04	17.5	3.01	1.7	0.57	8.6
40387028		0.80	0.02	0.06	163.0	27.7	440	1.36	4.13	2.20	1.24	19.7	4.10	3.1	0.76	12.3
40387029		0.87	0.02	0.04	134.5	20.8	420	1.50	3.11	1.96	1.15	21.7	3.95	2.2	0.61	9.7
40387030		0.27	0.06	0.11	1070	68.6	40	1.27	6.30	3.62	2.26	26.5	8.78	8.1	1.29	29.7
40387031		0.81	0.01	0.03	116.0	16.5	330	1.18	2.28	1.38	1.02	21.0	2.41	1.5	0.50	7.7
40387032		0.90	0.01	0.02	116.0	16.1	330	1.22	2.34	1.44	1.14	21.4	2.37	1.6	0.47	7.2
40387033		0.48	0.02	0.04	122.0	18.9	320	0.95	2.66	1.54	1.20	21.7	2.96	2.0	0.49	8.2
40387034		0.27	0.01	0.03	135.5	20.5	320	1.05	2.70	1.72	1.11	22.4	3.30	2.0	0.57	9.4
40387035		0.63	0.01	0.05	163.0	27.9	280	1.19	3.87	2.34	1.37	22.9	5.13	3.1	0.82	12.4
40387036		0.62	0.02	0.05	173.5	29.1	270	1.03	4.09	2.23	1.66	21.2	5.05	3.0	0.84	13.0
40387037		0.87	0.01	0.04	179.0	32.2	310	1.17	4.67	2.56	1.72	22.8	5.01	3.4	0.90	14.8
40387038		0.44	0.02	0.05	146.5	25.9	300	1.06	3.50	2.02	1.21	22.1	3.81	2.6	0.67	11.4
40387039		0.69	0.02	0.04	166.0	24.8	260	1.31	3.13	1.90	1.51	22.5	4.50	2.2	0.62	11.4
40387040		1.86	0.04	0.34	352	26.5	2840	1.90	3.24	1.84	1.17	23.0	4.18	2.7	0.70	11.6
40387041		1.36	0.03	0.04	178.5	26.7	300	1.24	3.63	2.11	1.46	23.3	4.50	2.9	0.68	12.2
40387042		1.55	0.03	0.04	169.5	28.6	290	1.31	3.54	2.23	1.39	22.3	4.89	3.3	0.79	12.3
40387043		0.54	0.02	0.05	162.5	26.6	250	1.20	3.32	2.10	1.24	22.3	4.59	2.8	0.65	11.2
40387044		0.84	0.02	0.05	168.5	30.6	260	1.19	3.83	2.07	1.45	20.1	4.49	3.1	0.78	13.6
40387045		1.25	0.02	0.04	167.5	29.2	350	1.36	4.11	2.31	1.63	22.2	4.48	2.9	0.76	13.5
40387046		0.70	0.02	0.04	176.0	30.5	320	1.33	4.04	2.00	1.46	22.6	4.16	2.7	0.82	13.1
40387047		0.67	0.02	0.05	172.0	27.3	270	1.18	3.57	2.31	1.40	21.4	3.64	2.9	0.73	12.2
40387048		0.78	0.03	0.05	160.0	25.4	350	1.31	3.44	1.94	1.29	20.7	4.20	2.5	0.67	11.3
40387049		0.52	0.03	0.05	214	34.6	220	1.12	4.38	2.74	1.60	22.7	5.63	3.8	0.95	14.7
40387050		0.48	0.02	0.07	199.5	32.7	230	1.02	4.42	2.72	1.70	22.9	5.48	3.7	0.89	14.3
40387051		1.17	0.03	0.05	201	32.2	330	1.41	3.80	2.12	1.40	20.9	4.16	3.2	0.74	15.0
40387052		0.61	0.02	0.06	168.5	28.2	310	1.23	3.67	1.88	1.66	20.9	4.53	3.0	0.74	12.5
40387053		0.83	0.03	0.04	149.5	22.4	350	1.12	3.39	1.63	1.33	20.7	3.82	2.4	0.61	9.9
40387054		0.93	0.02	0.07	187.5	32.8	300	1.49	4.79	2.77	1.61	24.2	4.81	3.5	0.85	14.2
40387055		0.94	0.02	0.06	166.5	27.6	450	1.14	4.07	2.24	1.52	20.9	4.60	3.1	0.79	12.6
40387056		0.49	0.02	0.05	168.5	28.8	290	0.94	4.15	2.34	1.35	21.2	4.50	2.8	0.70	12.7
40387057		0.72	0.02	0.06	219	38.1	270	1.19	5.21	2.65	1.84	24.2	6.00	4.0	1.07	16.7



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 Finalized Date: 23-AUG-2018  
 Account: RTEICKBZ

Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
	Analyte	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387018		0.42	11.8	25.8	6.48	151.0	5.12	2	233	0.8	0.75	6.39	0.36	3.54	167	1
40387019		0.35	11.2	29.6	7.19	135.5	5.27	2	265	1.0	0.67	6.52	0.33	3.18	178	1
40387020		0.36	10.8	27.0	7.25	131.5	5.61	2	256	0.8	0.63	6.37	0.29	3.70	179	1
40387021		0.41	13.6	32.6	7.80	114.0	6.84	2	377	0.8	0.81	5.93	0.40	3.33	177	1
40387022		0.18	4.9	9.1	2.22	19.3	2.25	1	326	0.4	0.36	0.91	0.15	0.29	109	1
40387023		0.18	5.1	10.7	2.17	10.6	2.71	1	293	0.4	0.46	0.74	0.21	0.18	130	<1
40387024		0.22	5.5	11.5	2.44	11.4	2.56	1	308	0.4	0.53	0.79	0.19	0.19	130	<1
40387025		0.21	5.7	11.2	2.66	8.9	2.84	1	297	0.4	0.48	0.83	0.20	0.22	142	<1
40387026		0.22	5.5	11.8	2.51	8.9	2.78	1	287	0.4	0.46	0.79	0.20	0.19	128	<1
40387027		0.20	5.8	11.0	2.41	7.6	2.31	1	299	0.4	0.40	0.69	0.18	0.12	128	<1
40387028		0.31	8.2	15.7	3.75	12.0	3.87	1	327	0.6	0.71	1.13	0.29	0.26	179	1
40387029		0.30	7.1	12.0	2.94	9.1	3.02	1	333	0.2	0.59	1.29	0.20	0.67	165	2
40387030		0.55	15.1	38.3	9.26	105.5	8.30	2	606	0.5	1.24	4.56	0.57	1.85	155	2
40387031		0.24	5.4	9.4	2.25	7.8	2.11	1	343	0.1	0.39	0.92	0.20	0.21	133	1
40387032		0.16	4.8	8.8	2.19	9.6	2.17	1	345	0.1	0.34	0.82	0.17	0.26	116	1
40387033		0.28	6.2	10.7	2.44	7.0	2.99	1	313	0.1	0.48	0.87	0.20	0.20	146	2
40387034		0.29	5.8	10.8	2.65	7.3	2.76	1	303	0.2	0.53	0.98	0.24	0.25	152	1
40387035		0.35	9.4	15.9	3.84	9.0	3.84	1	287	0.3	0.73	1.50	0.36	0.34	214	1
40387036		0.34	9.0	16.7	3.95	10.8	4.14	1	282	0.4	0.79	1.39	0.35	0.31	243	1
40387037		0.42	10.1	17.9	4.55	11.3	4.50	1	282	0.5	0.87	1.82	0.40	0.46	203	1
40387038		0.29	7.5	13.7	3.39	8.8	4.05	1	286	0.2	0.56	1.36	0.25	0.32	184	1
40387039		0.26	7.8	14.0	3.34	9.4	3.59	1	292	0.3	0.62	1.23	0.28	0.31	162	1
40387040		0.29	8.4	14.5	3.64	32.6	4.08	2	429	0.3	0.60	1.40	0.25	0.34	197	1
40387041		0.29	8.9	16.3	3.77	10.7	3.90	1	275	0.3	0.71	1.26	0.28	0.37	199	2
40387042		0.37	8.7	16.6	3.78	10.3	4.03	1	272	0.3	0.66	1.34	0.31	0.40	180	1
40387043		0.28	8.5	14.6	3.36	9.1	3.89	1	268	0.3	0.62	1.41	0.25	0.30	181	3
40387044		0.37	8.7	16.4	3.80	9.5	3.99	1	280	0.3	0.71	1.67	0.33	0.37	214	1
40387045		0.33	9.2	17.8	3.84	10.6	4.34	1	267	0.4	0.74	1.39	0.34	0.39	223	2
40387046		0.34	9.5	15.8	3.80	10.6	4.31	1	279	0.3	0.75	1.56	0.28	0.35	212	1
40387047		0.31	8.5	16.1	3.66	10.3	3.79	1	277	0.3	0.74	1.31	0.38	0.32	197	2
40387048		0.27	8.3	14.5	3.32	9.9	3.83	1	261	0.3	0.67	1.20	0.27	0.32	222	2
40387049		0.41	10.2	19.5	4.60	13.8	4.24	1	254	0.5	0.80	1.92	0.36	0.61	357	1
40387050		0.40	11.4	19.5	4.48	11.4	4.66	1	249	0.6	0.82	1.90	0.36	0.56	422	1
40387051		0.38	8.1	19.0	4.27	16.4	4.11	1	264	0.4	0.66	1.91	0.35	0.61	197	2
40387052		0.30	8.3	15.2	3.69	9.0	3.78	1	262	0.4	0.68	1.37	0.31	0.36	209	1
40387053		0.29	6.9	13.3	2.97	8.2	3.72	1	266	0.2	0.55	1.10	0.23	0.28	182	1
40387054		0.40	10.1	18.4	4.41	10.5	4.71	1	257	0.4	0.84	1.65	0.39	0.41	239	2
40387055		0.39	8.7	16.1	3.82	9.5	3.88	1	235	0.3	0.78	1.29	0.32	0.36	245	1
40387056		0.31	8.1	15.9	3.84	10.6	4.06	1	261	0.3	0.65	1.41	0.36	0.41	207	1
40387057		0.47	12.2	21.3	5.02	12.3	5.33	1	257	0.6	0.94	1.90	0.43	0.56	283	2



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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387018		25.1	2.70	166	4.3	0.05	0.010	0.046	0.001	0.20	0.3	0.01	0.27	0.11	0.17	25.5
40387019		21.9	2.43	161	7.2	0.09	0.010	0.051	0.004	0.27	0.6	0.02	0.45	0.14	0.28	46.2
40387020		20.8	2.17	157	7.7	0.11	0.012	0.045	0.005	0.47	0.9	0.02	0.58	0.13	0.21	52.3
40387021		28.3	2.75	172	9.5	0.33	0.006	0.045	0.003	0.32	0.8	0.05	0.37	0.17	0.26	41.8
40387022		11.4	0.86	63	35.3	1.50	0.006	0.056	0.009	0.56	3.1	0.21	1.46	1.04	0.86	145.5
40387023		13.1	1.36	72	8.6	0.42	<0.005	0.025	0.002	0.09	0.8	0.05	0.43	0.28	0.25	72.8
40387024		14.7	1.54	73	0.7	0.17	<0.005	0.020	0.002	<0.05	0.5	0.03	0.61	0.20	0.17	57.3
40387025		15.1	1.39	75	0.5	0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.26	0.06	0.08	49.2
40387026		14.3	1.48	75	0.3	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.11	0.06	0.06	53.5
40387027		14.6	1.31	71	0.1	0.01	<0.005	0.014	0.001	<0.05	0.3	0.01	0.13	0.04	0.07	47.2
40387028		20.5	2.26	111	0.4	0.01	<0.005	0.019	0.001	<0.05	0.4	0.01	0.15	0.04	0.09	44.9
40387029		17.3	1.71	98	0.9	0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.08	0.04	0.07	46.6
40387030		39.8	3.60	371	0.4	0.02	<0.005	0.037	0.001	<0.05	0.2	0.01	0.39	0.03	0.07	16.4
40387031		14.6	1.27	83	4.3	0.01	<0.005	0.015	<0.001	0.08	0.3	0.01	0.05	0.04	0.08	47.0
40387032		12.9	1.16	71	1.9	0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.05	0.04	0.06	46.2
40387033		15.3	1.58	87	0.7	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.02	0.04	0.09	44.7
40387034		16.4	1.61	95	0.6	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.02	0.04	0.08	47.0
40387035		24.0	2.39	131	0.4	0.01	<0.005	0.017	0.001	<0.05	0.3	<0.01	0.03	0.06	0.11	45.3
40387036		24.5	2.47	142	0.4	0.01	<0.005	0.019	0.001	<0.05	0.3	0.01	0.02	0.06	0.10	44.2
40387037		26.3	2.59	159	0.8	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.02	0.05	0.11	43.2
40387038		19.0	1.74	116	0.8	0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.02	0.05	0.10	46.1
40387039		19.2	1.86	110	1.4	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.02	0.05	0.09	49.2
40387040		19.9	1.90	118	4.8	0.13	0.008	0.033	0.003	0.40	1.0	0.06	0.45	0.48	0.29	60.5
40387041		22.6	2.12	127	2.3	0.01	<0.005	0.021	0.001	0.05	0.3	0.01	0.03	0.07	0.13	48.0
40387042		21.4	1.87	135	1.3	0.01	<0.005	0.018	0.001	<0.05	0.4	0.02	0.03	0.06	0.11	52.2
40387043		20.1	2.34	118	0.5	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.02	0.06	0.12	50.2
40387044		22.1	2.32	128	0.4	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.02	0.06	0.14	47.9
40387045		23.4	2.15	126	1.0	0.02	<0.005	0.020	0.001	<0.05	0.3	0.01	0.02	0.06	0.11	48.4
40387046		22.2	2.30	123	2.1	0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.02	0.06	0.10	45.4
40387047		21.7	1.87	116	0.4	0.01	<0.005	0.019	0.001	<0.05	0.3	0.01	0.02	0.07	0.09	43.8
40387048		20.3	2.19	109	0.5	0.01	<0.005	0.018	0.001	<0.05	0.4	0.01	0.03	0.07	0.10	46.0
40387049		27.4	2.89	164	0.8	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.03	0.07	0.12	44.7
40387050		27.3	2.93	154	0.7	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.04	0.08	0.15	47.0
40387051		22.1	2.00	136	0.8	0.02	0.015	0.016	0.001	0.05	0.3	0.01	0.04	0.04	0.11	44.4
40387052		21.6	2.22	122	0.5	0.01	0.015	0.019	<0.001	<0.05	0.4	0.02	0.03	0.05	0.08	47.6
40387053		17.6	1.51	98	1.1	0.01	0.028	0.018	<0.001	0.05	0.2	0.01	0.02	0.06	0.09	47.8
40387054		25.2	2.38	142	0.7	0.01	0.013	0.021	<0.001	<0.05	0.3	0.01	0.03	0.07	0.12	46.3
40387055		23.1	2.53	129	0.6	0.01	0.018	0.016	<0.001	<0.05	0.6	0.01	0.03	0.08	0.13	44.9
40387056		22.4	2.06	121	0.9	0.01	0.005	0.019	0.001	<0.05	0.5	0.01	0.02	0.08	0.12	48.4
40387057		29.0	2.70	169	0.6	0.01	0.007	0.020	<0.001	<0.05	0.2	0.01	0.03	0.08	0.13	46.7





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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387018		103.5	68.1	4.18	93.1	9.4	21.8	116	0.001	0.0025	0.003					
40387019		273	77.0	9.20	197.0	13.3	22.8	127	0.001	0.0028	0.005					
40387020		278	74.0	6.48	200	12.4	22.3	118	0.001	0.0036	0.005					
40387021		227	55.2	5.06	204	13.6	19.4	128	0.003	0.0056	0.008					
40387022		1830	33.4	5.83	1310	15.6	12.9	87	0.030	0.0349	0.084					
40387023		501	17.2	2.02	480	4.9	16.2	79	0.009	0.0143	0.034					
40387024		391	19.6	0.73	372	2.9	14.9	76	0.005	0.0118	0.016					
40387025		142.5	13.3	0.60	252	1.6	15.3	78	0.004	0.0111	0.015					
40387026		121.0	13.2	0.63	284	1.9	14.7	77	0.003	0.0087	0.011					
40387027		98.6	14.4	0.79	333	2.2	9.7	76	0.002	0.0038	0.005					
40387028		142.5	15.6	0.78	221	2.3	19.3	94	0.002	0.0062	0.010					
40387029		112.5	14.7	0.62	279	1.8	12.4	82	0.001	0.0050	0.008					
40387030		19.0	18.8	1.04	18.9	11.9	14.0	102	<0.001	<0.0005	0.001					
40387031		111.5	12.0	0.63	286	1.3	10.4	82	0.002	0.0068	0.009					
40387032		95.7	13.3	0.53	255	1.3	10.0	74	0.003	0.0085	0.010					
40387033		113.0	7.8	0.55	227	1.3	11.6	79	0.002	0.0088	0.010					
40387034		112.5	7.3	0.66	215	1.6	11.4	83	0.002	0.0080	0.008					
40387035		146.0	7.6	0.86	164.0	2.1	18.3	96	0.002	0.0063	0.007					
40387036		166.0	7.9	0.82	139.5	2.2	22.8	99	0.003	0.0074	0.007					
40387037		160.5	9.0	0.91	129.0	2.7	20.4	105	0.003	0.0099	0.010					
40387038		150.0	7.2	0.73	161.5	1.7	15.2	92	0.004	0.0127	0.013					
40387039		138.5	7.6	0.76	194.0	1.9	13.7	99	0.002	0.0082	0.009					
40387040		1165	35.3	2.90	724	6.1	16.2	113	0.018	0.0384	0.223					
40387041		180.5	8.6	0.90	153.5	2.0	19.0	115	0.004	0.0109	0.012					
40387042		164.0	10.6	0.89	155.0	2.2	19.8	110	0.004	0.0127	0.012					
40387043		175.5	7.2	0.77	152.5	2.1	18.0	99	0.003	0.0139	0.015					
40387044		166.5	7.6	0.88	147.5	2.1	21.5	99	0.002	0.0112	0.013					
40387045		172.5	8.2	0.90	141.0	2.0	22.4	102	0.003	0.0133	0.011					
40387046		182.5	7.6	0.81	127.0	1.8	21.6	100	0.003	0.0147	0.012					
40387047		175.0	7.3	0.89	123.0	2.1	17.9	98	0.005	0.0164	0.014					
40387048		171.5	8.2	0.85	128.5	1.9	23.8	98	0.003	0.0118	0.010					
40387049		221	8.2	0.99	97.7	3.3	29.0	115	0.002	0.0073	0.006					
40387050		233	7.9	0.91	94.5	3.3	33.0	119	0.002	0.0070	0.006					
40387051		137.0	9.5	0.83	116.0	3.2	21.7	100	0.002	0.0116	0.010					
40387052		186.0	7.8	0.79	118.5	2.3	20.1	101	0.004	0.0171	0.014					
40387053		184.5	7.6	0.64	127.0	1.5	19.6	94	0.008	0.0193	0.015					
40387054		196.0	8.8	1.03	101.0	2.5	25.4	110	0.002	0.0160	0.012					
40387055		215	8.4	0.90	94.7	2.4	32.4	99	0.005	0.0141	0.010					
40387056		204	8.8	0.82	114.5	2.0	22.4	109	0.005	0.0228	0.016					
40387057		212	9.9	0.99	89.7	2.9	28.4	122	0.003	0.0157	0.013					



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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	PGM-ICP24	PGM-ICP24	PGM-ICP24	
		Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %	TiO2 %	Zn %	Au ppm	Pt ppm	Pd ppm
40387018		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002	0.001	0.005	0.001
40387019																
40387020																
40387021																
40387022																
40387023																
40387024																
40387025																
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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40387058		6.44	48.2	15.65	13.10	10.60	6.38	2.70	0.50	0.040	1.99	0.18	0.20	0.03	0.02	100.12
40387059		6.36	47.5	16.00	13.25	9.64	6.29	2.75	0.56	0.023	1.82	0.17	0.22	0.03	0.03	99.39

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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	OA-GRA05 LOI %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
40387058		0.53	0.02	0.08	202	33.8	310	1.10	4.57	2.85	1.60	23.9	5.94	3.4	1.04	15.0
40387059		1.11	0.02	0.06	245	39.9	180	1.31	5.23	2.94	1.65	23.7	5.80	3.9	1.01	18.0



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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5	W ppm 1
40387058		0.42	11.2	19.1	4.61	11.7	5.18	1	250	0.5	0.88	1.93	0.40	0.48	313	2
40387059		0.43	11.8	23.2	5.38	13.8	5.84	1	258	0.5	0.94	1.95	0.43	0.51	257	1





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Project: EB80001447

**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387058		29.3	2.68	155	0.6	0.01	0.007	0.020	<0.001	<0.05	0.5	0.01	0.03	0.08	0.16	42.5
40387059		28.7	2.77	161	0.8	0.01	<0.005	0.024	0.001	<0.05	0.2	0.02	0.04	0.09	0.14	46.7



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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387058		224	8.9	0.96	74.3	2.8	34.1	111	0.002	0.0115	0.008					
40387059		233	10.3	0.99	84.8	2.8	26.4	129	0.002	0.0072	0.007					

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**CERTIFICATE OF ANALYSIS TB18185446**

Sample Description	Method Analyte Units LOD	ME-ICP81 Cu	ME-ICP81 Fe	ME-ICP81 Fe2O3	ME-ICP81 K	ME-ICP81 MgO	ME-ICP81 MnO	ME-ICP81 Ni	ME-ICP81 Pb	ME-ICP81 S	ME-ICP81 SiO2	ME-ICP81 TiO2	ME-ICP81 Zn	PGM-ICP24 Au	PGM-ICP24 Pt	PGM-ICP24 Pd
		%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
40387058 40387059		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002	0.001	0.005	0.001

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Project: EB80001447

<b>CERTIFICATE OF ANALYSIS TB18185446</b>
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	<b>CERTIFICATE COMMENTS</b>												
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REE's may not be totally soluble in this method.            ME-MS61</p>												
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">C-IR07</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-ICP81</td> <td style="width: 33%;">ME-MS42</td> </tr> <tr> <td>ME-MS61</td> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-ICP24</td> </tr> <tr> <td>PGM-MS24</td> <td>S-IR08</td> <td>TOT-ICP06</td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-ICP81	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-ICP24	PGM-MS24	S-IR08	TOT-ICP06	
C-IR07	ME-ICP06	ME-ICP81	ME-MS42										
ME-MS61	ME-MS81	OA-GRA05	PGM-ICP24										
PGM-MS24	S-IR08	TOT-ICP06											



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**CERTIFICATE TB18186740**

Project: EB80001448  
 P.O. No.: 3103290934  
 This report is for 162 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 1-AUG-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
--	-----------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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:   
 Colin Ramshaw, Vancouver Laboratory Manager





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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387060		1.56	58.2	18.15	7.25	6.18	2.50	3.83	2.43	0.003	0.95	0.11	0.31	0.07	0.10	100.52
40387061		6.36	47.3	15.65	12.30	10.40	6.45	2.55	0.55	0.043	1.64	0.16	0.17	0.03	0.03	98.63
40387062		6.36	47.4	15.55	13.25	9.65	5.89	2.81	0.57	0.027	2.12	0.17	0.21	0.03	0.02	98.51
40387063		6.15	49.6	14.80	12.95	10.75	6.32	2.78	0.56	0.051	1.92	0.18	0.20	0.03	0.02	101.09
40387064		6.32	48.2	14.25	13.80	10.40	6.21	2.79	0.58	0.043	2.04	0.18	0.21	0.03	0.02	99.79
40387065		6.60	49.0	14.50	13.60	10.20	6.12	2.78	0.59	0.043	2.12	0.18	0.23	0.03	0.03	100.49
40387066		6.49	48.2	14.75	13.60	9.77	5.78	2.75	0.65	0.035	2.10	0.18	0.23	0.03	0.03	98.96
40387067		6.20	47.7	14.55	13.80	9.40	5.60	2.90	0.64	0.021	2.33	0.18	0.25	0.03	0.03	99.06
40387068		6.05	47.8	14.60	14.50	9.53	6.37	2.74	0.62	0.034	2.42	0.19	0.20	0.03	0.02	99.99
40387069		6.61	47.8	13.85	14.95	9.76	5.86	2.71	0.64	0.026	2.64	0.19	0.25	0.03	0.03	99.63
40387070		0.17	44.7	18.20	12.00	9.27	7.25	2.05	1.06	0.346	1.29	0.14	0.15	0.05	0.04	98.56
40387071		6.50	46.2	13.80	15.10	9.40	6.08	2.58	0.59	0.021	2.57	0.20	0.24	0.03	0.03	98.23
40387072		6.50	47.0	14.30	15.60	9.10	6.20	2.63	0.69	0.019	2.60	0.20	0.23	0.03	0.03	100.16
40387073		6.47	47.4	15.55	13.20	10.05	4.96	2.81	0.66	0.028	2.66	0.17	0.24	0.03	0.03	98.60
40387074		6.61	46.9	14.75	14.45	9.44	6.31	2.62	0.55	0.033	2.21	0.19	0.22	0.03	0.02	98.30
40387075		6.09	47.7	15.60	13.80	9.96	5.47	2.76	0.59	0.032	2.27	0.18	0.23	0.03	0.03	99.69
40387076		6.37	48.2	15.35	13.90	10.10	5.59	2.76	0.61	0.033	2.27	0.18	0.22	0.03	0.02	100.01
40387077		6.77	48.0	15.25	13.30	9.99	5.38	2.79	0.65	0.037	2.19	0.18	0.25	0.03	0.03	98.97
40387078		6.37	48.5	15.60	13.90	9.87	5.37	2.84	0.67	0.033	2.41	0.18	0.26	0.03	0.03	100.42
40387079		2.80	47.5	14.80	14.65	9.32	5.09	2.83	0.72	0.027	2.93	0.19	0.29	0.04	0.03	99.38
40387080		2.92	48.0	14.85	14.50	9.44	5.15	2.83	0.72	0.025	2.68	0.19	0.30	0.03	0.03	99.72
40387081		6.18	47.8	15.95	13.15	10.10	5.10	2.79	0.82	0.024	2.53	0.17	0.24	0.04	0.03	99.83
40387082		6.03	47.4	15.75	13.30	10.00	5.73	2.67	0.65	0.031	2.35	0.17	0.19	0.04	0.02	99.43
40387083		5.94	47.2	15.75	12.95	9.95	5.15	2.74	0.74	0.031	2.19	0.17	0.23	0.03	0.03	99.01
40387084		6.17	46.1	15.55	13.05	10.80	5.26	2.68	0.72	0.029	2.13	0.17	0.24	0.03	0.04	99.35
40387085		5.91	47.5	16.00	13.45	9.98	5.33	2.76	0.70	0.030	2.24	0.17	0.23	0.03	0.03	99.78
40387086		6.45	48.4	16.90	12.45	10.05	5.31	2.97	0.62	0.029	1.97	0.16	0.24	0.04	0.03	100.15
40387087		6.50	48.0	16.15	13.65	9.86	6.68	2.74	0.53	0.033	1.87	0.18	0.20	0.03	0.02	100.70
40387088		6.50	48.2	15.70	13.65	9.82	6.52	2.75	0.54	0.034	1.92	0.18	0.24	0.03	0.02	100.56
40387089		6.33	47.3	15.35	13.30	9.70	6.49	2.68	0.57	0.036	1.90	0.17	0.23	0.03	0.02	98.56
40387090		1.92	56.7	18.25	7.76	6.18	2.53	3.89	2.36	0.002	1.02	0.11	0.28	0.07	0.11	99.59
40387091		6.20	47.4	16.00	13.55	9.80	6.40	2.70	0.51	0.037	1.95	0.17	0.21	0.03	0.03	99.61
40387092		6.42	47.9	16.25	12.95	10.15	6.12	2.73	0.53	0.034	1.90	0.17	0.21	0.03	0.02	99.87
40387093		6.01	48.5	16.45	12.70	9.98	6.14	2.80	0.56	0.030	1.94	0.17	0.24	0.03	0.02	100.54
40387094		6.31	48.1	16.20	12.75	9.82	5.91	2.86	0.57	0.031	2.15	0.17	0.24	0.04	0.02	100.00
40387095		6.38	47.7	16.30	12.45	10.00	6.11	2.71	0.54	0.041	1.92	0.16	0.22	0.03	0.02	98.97
40387096		6.30	47.3	16.10	12.35	9.85	5.96	2.69	0.55	0.038	2.02	0.16	0.22	0.03	0.02	98.50
40387097		6.26	48.1	16.30	12.55	10.05	6.12	2.71	0.59	0.043	1.89	0.17	0.24	0.04	0.02	99.74
40387098		6.27	47.8	16.35	12.90	9.30	5.74	2.78	0.68	0.036	1.72	0.17	0.27	0.04	0.03	98.66
40387099		6.33	48.2	14.95	14.15	8.98	5.11	2.98	0.73	0.023	2.99	0.19	0.38	0.04	0.03	99.81



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 Plus Appendix Pages  
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 Account: RTECIKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387060		0.44	0.06	0.11	867	68.7	30	1.13	6.44	3.67	1.96	25.0	7.57	7.0	1.31	29.7
40387061		1.36	0.03	0.05	244	34.5	340	1.35	4.39	2.57	1.58	22.3	4.72	3.3	1.05	15.3
40387062		0.81	0.02	0.09	223	38.8	220	1.37	5.23	3.31	1.97	24.4	6.70	3.9	1.15	17.6
40387063		0.93	0.02	0.08	196.0	37.6	410	1.24	5.13	2.81	1.65	24.1	5.98	4.2	1.11	16.7
40387064		1.04	0.02	0.09	208	38.6	350	1.33	5.47	3.27	1.85	24.6	6.26	4.3	1.21	16.8
40387065		1.07	0.02	0.07	236	42.1	350	1.25	5.96	3.47	2.02	24.0	6.61	4.1	1.25	19.0
40387066		0.85	0.02	0.08	233	42.8	270	1.38	5.64	3.32	1.80	23.7	5.99	4.4	1.25	18.9
40387067		1.63	0.02	0.06	250	51.3	180	1.26	6.87	3.70	2.15	24.3	7.52	5.1	1.50	23.5
40387068		0.94	0.02	0.10	216	40.2	270	1.29	5.50	2.67	1.92	23.6	5.78	4.0	1.16	17.6
40387069		0.89	0.02	0.10	223	46.8	200	1.32	6.31	3.74	1.81	23.0	6.51	4.9	1.36	20.8
40387070		2.01	0.04	0.34	343	27.9	2760	2.39	3.37	2.25	1.14	21.7	3.97	2.8	0.73	12.8
40387071		1.39	0.03	0.09	238	40.1	170	1.59	5.98	3.53	1.91	23.6	6.90	4.4	1.30	17.9
40387072		1.53	0.03	0.12	279	39.4	150	1.93	5.96	3.36	1.72	23.3	5.83	4.4	1.38	17.4
40387073		0.81	0.02	0.09	227	41.2	220	1.12	5.54	3.16	1.87	24.6	6.54	4.8	1.26	18.6
40387074		0.58	0.02	0.09	201	39.3	260	1.36	5.56	3.11	1.71	22.7	5.82	4.5	1.12	17.5
40387075		1.04	0.02	0.09	218	40.3	240	1.35	5.68	3.28	2.08	23.6	5.93	4.6	1.09	17.5
40387076		0.75	0.02	0.09	223	42.7	270	1.18	5.77	3.63	1.98	25.1	6.59	4.4	1.32	19.2
40387077		0.89	0.02	0.09	227	48.3	290	1.18	6.14	3.69	2.01	24.7	6.41	4.9	1.27	21.6
40387078		0.73	0.03	0.09	246	47.3	260	1.44	6.76	3.82	2.05	25.5	6.96	5.3	1.41	21.1
40387079		0.96	0.02	0.10	249	52.8	210	1.30	6.89	4.16	2.16	25.4	7.77	5.6	1.47	23.2
40387080		0.97	0.02	0.10	250	53.6	190	1.38	6.79	4.49	2.34	25.9	8.22	5.4	1.60	23.8
40387081		1.09	0.02	0.08	234	40.7	190	1.61	5.81	3.71	1.92	24.0	6.44	4.2	1.12	18.3
40387082		1.13	0.02	0.08	212	35.7	240	1.61	5.22	2.77	1.69	22.1	5.60	4.1	1.01	15.9
40387083		1.85	0.08	0.08	309	37.9	240	1.73	5.20	3.00	1.96	24.1	5.79	4.0	1.08	16.8
40387084		2.55	0.26	0.09	349	37.8	220	1.82	5.21	3.23	1.89	23.7	6.38	4.0	1.25	17.5
40387085		1.33	0.03	0.08	253	43.3	240	1.68	5.77	3.47	1.94	24.0	6.43	4.3	1.27	19.2
40387086		0.98	0.03	0.07	220	40.5	220	1.21	5.34	3.34	2.00	23.5	6.11	4.5	1.19	18.3
40387087		0.76	0.02	0.07	194.0	37.3	250	1.50	4.71	2.89	1.69	23.8	5.39	4.0	1.03	16.7
40387088		0.96	0.02	0.07	212	41.5	260	1.51	5.22	3.40	1.91	23.0	6.16	4.5	1.21	18.7
40387089		0.78	0.02	0.07	213	42.4	290	1.56	5.61	3.49	1.69	22.4	6.27	4.5	1.20	18.2
40387090		0.33	0.06	0.11	991	63.9	30	1.20	6.64	3.67	1.86	23.9	7.21	7.4	1.21	27.6
40387091		0.82	0.02	0.08	233	36.6	290	1.64	5.01	3.11	1.59	22.9	5.57	3.7	1.04	15.9
40387092		0.88	0.02	0.07	200	38.7	270	1.55	5.11	2.94	1.64	23.5	5.50	4.0	1.05	17.1
40387093		0.98	0.02	0.08	216	38.5	230	1.70	5.57	3.18	1.72	23.7	5.63	3.8	1.09	17.1
40387094		1.14	0.02	0.07	214	41.5	230	1.68	5.74	3.29	1.80	24.2	6.55	4.5	1.21	18.5
40387095		0.77	0.02	0.08	200	36.4	300	1.58	5.24	2.87	1.77	23.8	5.75	3.9	1.10	16.1
40387096		1.21	0.02	0.07	212	37.3	290	1.75	5.24	2.93	1.67	24.1	5.91	4.0	1.10	16.8
40387097		0.92	0.03	0.08	212	38.5	310	1.69	5.70	3.21	1.67	23.4	6.08	4.2	1.09	17.3
40387098		0.84	0.03	0.08	246	44.3	270	1.69	6.10	3.15	1.83	24.8	6.59	4.3	1.24	19.8
40387099		1.06	0.04	0.10	270	61.4	170	1.56	7.95	4.37	2.22	26.5	8.61	6.0	1.53	27.5



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**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
Method Analyte Units LOD	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387060	0.48	13.7	38.6	9.23	99.3	7.79	2	569	0.7	1.07	3.99	0.59	1.60	135	<1
40387061	0.41	9.0	19.5	4.52	13.6	4.54	1	243	0.6	0.84	1.48	0.34	0.46	256	1
40387062	0.41	11.9	22.6	5.15	15.7	4.77	1	261	0.8	0.97	1.87	0.52	0.49	280	1
40387063	0.39	10.2	21.3	4.94	15.0	5.29	1	252	0.7	0.84	1.68	0.45	0.43	322	<1
40387064	0.44	11.4	23.7	5.00	15.9	5.60	1	242	0.7	0.92	1.84	0.51	0.58	325	1
40387065	0.46	11.6	24.3	5.45	15.5	6.33	1	252	0.7	0.95	1.98	0.54	0.49	333	1
40387066	0.44	11.9	24.9	5.50	16.7	5.78	2	241	0.9	0.93	2.03	0.49	0.56	294	1
40387067	0.56	14.1	30.0	6.58	18.1	6.99	2	260	1.0	1.14	3.01	0.58	0.63	314	1
40387068	0.41	12.2	23.4	5.28	17.0	5.28	1	247	0.8	0.89	2.08	0.47	0.56	345	<1
40387069	0.50	13.6	27.3	6.04	16.0	6.19	2	231	1.1	1.02	2.15	0.55	0.55	402	1
40387070	0.27	7.8	15.3	3.71	36.2	3.39	2	417	0.6	0.61	1.39	0.31	0.31	189	5
40387071	0.50	12.7	23.5	5.43	16.5	5.95	2	229	0.8	0.96	1.80	0.53	0.48	384	1
40387072	0.48	12.4	22.6	5.15	20.8	5.60	1	246	0.8	1.00	1.74	0.45	0.55	347	<1
40387073	0.38	12.2	23.8	5.32	18.1	4.61	2	269	0.9	0.98	1.97	0.55	0.52	392	1
40387074	0.40	12.0	23.3	5.10	13.7	5.63	1	238	0.9	0.88	1.81	0.51	0.52	317	<1
40387075	0.50	11.8	22.3	5.32	14.9	5.26	2	264	0.7	0.91	1.88	0.47	0.76	338	1
40387076	0.47	12.6	25.1	5.84	15.7	6.16	2	267	0.8	1.00	2.06	0.55	0.67	341	1
40387077	0.52	13.1	25.3	6.03	16.7	5.42	2	254	0.8	1.05	2.19	0.55	0.52	310	1
40387078	0.57	13.9	27.5	6.20	17.1	6.16	2	266	1.0	1.13	2.32	0.62	0.69	327	1
40387079	0.56	15.7	29.9	6.74	19.9	6.50	2	256	1.0	1.25	2.46	0.60	0.78	397	1
40387080	0.57	15.3	30.7	7.06	19.3	6.95	2	258	1.0	1.15	2.47	0.70	0.63	378	1
40387081	0.44	12.4	23.9	5.50	26.2	5.43	1	328	0.8	0.96	1.83	0.52	0.51	376	1
40387082	0.36	10.7	20.6	4.40	18.8	4.42	1	276	0.7	0.79	1.68	0.43	0.45	315	<1
40387083	0.43	11.3	22.1	5.03	22.3	5.06	1	277	0.8	0.94	1.55	0.42	0.40	318	<1
40387084	0.47	11.0	23.2	5.20	22.9	4.77	2	247	0.8	0.87	1.71	0.51	0.43	331	1
40387085	0.46	12.5	24.6	5.66	19.5	5.81	1	287	0.7	0.95	1.85	0.54	0.49	356	1
40387086	0.46	11.6	23.2	5.42	16.3	5.18	2	286	0.7	0.94	1.84	0.48	0.50	271	1
40387087	0.43	10.6	20.9	4.82	13.3	4.77	1	263	1.1	0.94	1.51	0.40	0.45	252	<1
40387088	0.42	11.8	24.9	5.36	13.9	5.72	2	252	0.9	0.82	1.79	0.55	0.45	252	1
40387089	0.38	11.6	23.4	5.19	14.7	5.66	2	254	0.9	0.95	1.83	0.46	0.45	249	<1
40387090	0.52	12.9	36.8	8.42	98.9	8.04	3	593	0.8	1.05	3.57	0.55	1.53	135	1
40387091	0.40	10.1	20.7	4.87	12.5	4.66	2	260	0.7	0.82	1.57	0.44	0.40	285	<1
40387092	0.42	10.4	21.5	5.01	13.1	4.77	2	266	0.9	0.87	1.68	0.46	0.47	283	1
40387093	0.40	11.6	22.6	5.05	13.8	5.53	2	250	0.8	0.97	1.82	0.41	0.65	231	<1
40387094	0.45	13.1	24.9	5.28	14.5	5.87	2	248	0.7	1.00	1.92	0.45	0.51	242	<1
40387095	0.41	10.9	21.5	4.81	13.3	5.12	1	252	0.8	0.90	1.70	0.37	0.44	255	<1
40387096	0.39	11.7	22.0	4.79	14.2	4.94	2	247	0.7	0.96	1.87	0.37	0.45	256	<1
40387097	0.42	11.9	23.3	5.04	14.6	5.36	1	253	0.8	1.02	1.80	0.45	0.47	232	1
40387098	0.45	13.2	25.5	5.87	17.7	6.26	2	259	1.0	1.04	2.03	0.46	0.54	211	1
40387099	0.65	19.8	34.8	7.96	19.2	8.65	2	245	1.3	1.39	2.85	0.67	0.75	285	1



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 Account: RTECIKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387060		36.4	3.79	297	0.4	0.01	<0.005	0.029	<0.001	<0.05	<0.2	0.03	0.31	0.04	0.08	17.5
40387061		25.5	2.58	136	0.6	0.01	<0.005	0.022	0.001	<0.05	<0.2	0.02	0.04	0.07	0.12	45.9
40387062		30.9	2.98	170	0.5	0.01	<0.005	0.024	0.001	<0.05	0.3	0.02	0.04	0.07	0.15	47.7
40387063		29.8	2.79	155	0.6	0.01	<0.005	0.021	0.001	<0.05	<0.2	<0.01	0.04	0.07	0.14	42.6
40387064		31.6	2.87	172	0.6	0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.05	0.07	0.16	45.2
40387065		32.0	3.09	175	0.7	0.01	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.05	0.08	0.14	46.1
40387066		31.4	3.34	182	0.7	0.01	<0.005	0.026	0.001	<0.05	0.3	0.01	0.05	0.08	0.17	46.8
40387067		36.0	3.16	200	1.2	0.01	<0.005	0.025	0.001	0.05	0.3	0.01	0.06	0.11	0.18	47.9
40387068		29.9	3.02	167	0.7	0.01	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.07	0.09	0.17	54.7
40387069		35.0	3.19	198	0.6	0.01	<0.005	0.027	0.001	<0.05	0.3	0.02	0.07	0.08	0.17	51.4
40387070		19.6	1.86	113	5.2	0.17	0.007	0.027	0.002	0.37	1.1	0.06	0.40	0.47	0.24	67.4
40387071		32.1	3.07	182	1.1	0.01	<0.005	0.030	0.001	0.05	0.4	<0.01	0.09	0.10	0.18	54.0
40387072		32.1	3.41	168	0.8	0.01	<0.005	0.027	0.001	0.06	0.3	0.01	0.14	0.08	0.18	56.4
40387073		31.0	2.95	183	0.6	0.01	<0.005	0.024	0.002	<0.05	0.3	0.01	0.05	0.07	0.14	44.7
40387074		30.1	2.77	173	0.9	0.01	<0.005	0.025	0.001	<0.05	0.2	<0.01	0.05	0.08	0.16	55.1
40387075		30.7	3.20	174	0.5	0.01	<0.005	0.024	0.001	<0.05	0.4	0.01	0.07	0.08	0.14	46.4
40387076		32.4	3.37	192	0.6	0.01	<0.005	0.023	0.001	<0.05	0.2	0.01	0.05	0.13	0.14	47.1
40387077		34.3	3.37	197	0.5	0.01	<0.005	0.024	0.001	<0.05	<0.2	<0.01	0.06	0.07	0.16	44.2
40387078		36.2	3.58	209	0.8	0.01	<0.005	0.025	0.002	<0.05	<0.2	<0.01	0.06	0.07	0.15	44.8
40387079		39.2	3.58	224	0.9	0.01	<0.005	0.027	0.001	<0.05	0.2	0.01	0.05	0.07	0.17	46.2
40387080		38.8	3.92	219	0.9	0.01	<0.005	0.026	0.001	<0.05	0.2	0.01	0.05	0.07	0.16	45.6
40387081		31.5	3.29	175	1.1	0.01	<0.005	0.019	0.001	<0.05	<0.2	0.01	0.07	0.10	0.18	43.6
40387082		26.6	2.70	163	0.3	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.14	0.08	0.15	46.6
40387083		28.6	2.87	160	0.8	0.01	0.005	0.022	0.001	0.05	0.3	0.01	0.16	0.08	0.15	43.9
40387084		29.9	2.97	163	0.7	0.02	0.005	0.033	0.001	0.06	0.3	0.01	0.11	0.12	0.16	44.7
40387085		32.3	2.95	183	0.6	0.01	<0.005	0.024	0.001	<0.05	0.3	0.02	0.10	0.09	0.14	44.9
40387086		30.5	3.10	171	0.8	0.01	<0.005	0.022	0.002	<0.05	0.3	0.01	0.07	0.07	0.14	43.2
40387087		27.5	2.65	154	0.6	0.01	<0.005	0.024	<0.001	<0.05	0.4	0.02	0.09	0.08	0.12	51.3
40387088		31.2	2.83	187	1.0	0.01	<0.005	0.023	0.001	<0.05	0.4	0.02	0.06	0.08	0.11	51.0
40387089		31.3	2.89	173	0.9	0.01	<0.005	0.022	0.001	<0.05	0.2	0.01	0.05	0.07	0.14	49.1
40387090		35.2	3.20	304	0.5	0.02	<0.005	0.028	0.001	<0.05	0.3	0.01	0.31	0.04	0.07	18.9
40387091		26.7	2.64	153	0.7	0.01	<0.005	0.022	0.001	<0.05	0.2	0.01	0.06	0.08	0.13	49.7
40387092		28.3	2.74	155	0.4	0.01	<0.005	0.020	0.001	<0.05	0.3	0.02	0.05	0.09	0.12	47.8
40387093		28.6	2.87	153	1.2	0.02	<0.005	0.020	0.001	<0.05	0.4	0.01	0.07	0.07	0.15	45.3
40387094		31.3	3.27	175	0.8	0.01	<0.005	0.024	0.001	<0.05	0.5	0.01	0.07	0.07	0.15	44.8
40387095		28.2	2.80	159	0.5	0.01	<0.005	0.021	0.001	<0.05	0.5	0.01	0.06	0.08	0.14	44.5
40387096		27.6	2.77	153	1.0	0.01	<0.005	0.023	0.001	0.05	0.5	0.02	0.08	0.07	0.14	45.4
40387097		29.6	3.00	169	0.8	0.01	<0.005	0.019	<0.001	<0.05	0.2	0.02	0.06	0.06	0.12	44.3
40387098		31.9	2.99	174	1.3	0.01	<0.005	0.022	0.002	<0.05	0.6	0.01	0.07	0.06	0.14	43.6
40387099		44.2	4.36	261	1.4	0.01	<0.005	0.023	0.001	<0.05	0.4	0.01	0.08	0.06	0.18	42.3





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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40387060		18.4	17.3	0.98	14.2	11.5	16.9	91	<0.001	0.0006	0.001
40387061		197.0	11.0	1.00	93.1	2.1	32.5	114	0.004	0.0105	0.006
40387062		211	9.5	1.10	86.9	2.9	32.7	120	0.004	0.0138	0.012
40387063		217	8.3	1.10	71.7	2.7	40.8	107	0.003	0.0038	0.004
40387064		232	8.7	1.02	68.5	2.9	40.2	115	0.004	0.0038	0.002
40387065		220	8.5	1.22	69.1	2.9	39.2	120	0.003	0.0040	0.005
40387066		238	9.2	1.18	69.1	3.4	36.5	129	0.004	0.0066	0.014
40387067		225	12.7	1.23	72.8	3.5	37.9	140	0.003	0.0080	0.011
40387068		247	10.5	1.22	95.7	3.4	38.9	125	0.005	0.0085	0.011
40387069		237	10.3	1.21	75.4	3.1	44.3	132	0.003	0.0062	0.006
40387070		1130	39.0	2.89	707	6.8	20.4	110	0.023	0.0618	0.221
40387071		230	13.2	1.09	89.1	2.5	39.5	143	0.002	0.0063	0.006
40387072		220	15.5	1.28	96.8	2.4	38.6	137	0.002	0.0029	0.003
40387073		212	11.4	1.10	62.7	2.7	40.1	118	0.003	0.0057	0.005
40387074		237	11.5	1.13	101.5	2.8	35.3	125	0.007	0.0132	0.008
40387075		209	11.1	1.05	76.1	2.7	36.2	118	0.003	0.0211	0.017
40387076		204	10.8	1.06	73.9	2.8	38.0	119	0.002	0.0197	0.025
40387077		194.5	11.5	1.27	69.8	3.1	37.4	120	0.002	0.0141	0.011
40387078		192.0	11.0	1.18	74.2	3.0	35.4	121	0.002	0.0111	0.011
40387079		186.5	12.2	1.36	73.5	3.1	35.9	141	0.001	0.0045	0.002
40387080		186.5	11.9	1.26	73.1	3.3	35.6	140	0.001	0.0039	0.002
40387081		186.5	13.7	1.10	68.4	3.0	36.3	135	0.002	0.0054	0.004
40387082		209	11.8	0.85	86.3	2.8	34.5	117	0.002	0.0077	0.006
40387083		204	13.3	1.08	78.4	2.4	34.7	121	0.002	0.0058	0.006
40387084		240	16.9	0.89	77.3	2.0	34.0	132	0.001	0.0049	0.005
40387085		215	11.6	1.07	78.6	2.5	33.4	120	0.004	0.0053	0.005
40387086		179.0	12.1	0.99	87.8	2.5	31.4	115	0.002	0.0019	0.002
40387087		193.0	10.9	0.97	126.0	2.4	29.1	112	0.002	0.0028	0.002
40387088		189.5	11.2	0.93	119.5	2.4	31.5	118	0.001	0.0102	0.013
40387089		164.0	11.1	1.08	114.5	2.6	31.8	115	0.001	0.0013	<0.001
40387090		18.5	19.8	1.00	14.7	11.3	16.7	90	<0.001	<0.0005	0.001
40387091		184.0	11.0	0.99	105.5	2.2	29.1	114	0.003	<0.0005	<0.001
40387092		179.5	10.6	1.17	100.0	2.3	31.0	107	0.003	0.0006	0.001
40387093		160.5	11.1	1.07	98.9	2.5	29.8	113	0.003	<0.0005	0.001
40387094		165.0	11.9	1.29	93.6	2.4	30.4	114	0.003	0.0027	0.003
40387095		175.5	10.4	1.17	100.5	2.9	30.4	108	0.004	0.0118	0.012
40387096		172.5	12.0	1.08	98.9	2.3	30.5	113	0.003	0.0139	0.014
40387097		156.5	11.0	1.11	94.8	2.5	30.2	108	0.002	0.0095	0.008
40387098		147.0	11.5	1.23	96.4	2.9	26.0	120	0.002	0.0089	0.009
40387099		146.5	12.8	1.67	78.9	5.1	31.1	139	0.002	0.0070	0.006





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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40387100		0.17	45.4	18.45	12.05	9.37	7.50	2.10	1.08	0.348	1.33	0.14	0.15	0.05	0.04	99.99
40387101		6.02	48.5	15.00	14.50	8.92	5.46	3.14	0.80	0.023	2.47	0.19	0.45	0.04	0.03	100.92
40387102		6.70	47.9	16.20	13.90	9.31	5.77	2.80	0.73	0.034	2.07	0.18	0.28	0.04	0.03	100.09
40387103		6.13	48.3	16.40	13.90	9.61	5.71	2.79	0.66	0.032	2.29	0.18	0.26	0.04	0.03	100.91
40387104		6.41	48.6	16.55	13.75	9.79	5.59	2.80	0.73	0.033	2.24	0.18	0.26	0.04	0.03	101.47
40387105		6.47	49.1	15.30	13.80	8.60	4.47	3.08	1.06	0.011	2.41	0.19	0.44	0.04	0.04	99.52
40387106		6.03	47.7	14.65	14.95	8.24	5.32	2.84	0.96	0.019	2.57	0.20	0.38	0.04	0.04	98.82
40387107		5.08	47.9	15.75	13.90	7.85	4.60	3.30	1.24	0.011	2.53	0.19	0.39	0.04	0.06	99.33
40387108		6.32	47.7	12.55	16.55	7.91	4.76	3.20	0.93	0.006	3.53	0.24	0.58	0.03	0.05	99.73
40387109		2.69	45.2	13.50	16.20	7.67	8.03	2.20	1.06	0.024	2.06	0.21	0.24	0.03	0.08	99.20
40387110		2.74	46.1	13.95	16.05	8.19	8.03	2.30	0.87	0.028	2.18	0.21	0.24	0.03	0.06	100.39
40387111		6.01	47.0	15.25	16.05	8.82	7.48	2.43	0.73	0.033	1.96	0.21	0.20	0.04	0.04	101.59
40387112		6.50	47.8	14.55	15.60	8.76	6.43	2.70	0.86	0.019	2.42	0.21	0.30	0.04	0.05	100.78
40387113		5.98	47.2	14.35	15.45	9.59	6.65	2.62	0.77	0.030	2.71	0.21	0.26	0.04	0.05	101.11
40387114		6.18	48.2	16.25	13.15	9.82	5.92	2.69	0.77	0.032	2.13	0.17	0.23	0.04	0.04	100.58
40387115		6.27	47.3	15.75	13.10	9.36	6.74	2.42	0.95	0.032	1.88	0.18	0.19	0.04	0.06	99.50
40387116		6.03	47.7	17.15	11.35	10.10	5.51	2.74	0.97	0.032	1.75	0.15	0.23	0.04	0.05	99.89
40387117		6.38	47.1	16.10	13.20	9.57	7.16	2.49	0.63	0.033	1.88	0.17	0.19	0.04	0.03	99.52
40387118		6.27	47.6	15.35	14.40	9.41	8.59	2.47	0.56	0.037	1.98	0.19	0.22	0.03	0.02	101.71
40387119		6.63	46.5	14.85	15.25	8.61	9.21	2.41	0.60	0.033	1.82	0.20	0.23	0.03	0.02	100.60
40387120		3.73	60.2	18.30	6.70	5.79	2.32	3.91	2.73	0.002	0.85	0.10	0.24	0.07	0.13	101.71
40387121		6.39	44.8	14.30	16.10	7.96	8.68	2.37	0.71	0.026	1.82	0.20	0.24	0.03	0.03	98.17
40387122		6.31	46.3	14.95	14.30	9.01	8.55	2.23	0.77	0.030	1.81	0.19	0.20	0.04	0.03	99.91
40387123		6.39	46.4	15.30	14.10	9.12	8.25	2.44	0.52	0.029	1.76	0.18	0.20	0.04	0.02	99.12
40387124		6.17	46.3	15.10	13.65	9.38	8.16	2.40	0.49	0.035	1.77	0.18	0.20	0.03	0.02	98.61
40387125		5.99	46.2	15.40	13.30	9.19	7.83	2.44	0.55	0.030	1.85	0.17	0.21	0.03	0.02	98.72
40387126		6.53	45.5	14.50	14.10	8.98	8.67	2.17	0.62	0.033	1.71	0.18	0.16	0.04	0.02	98.44
40387127		6.39	45.4	14.30	15.25	9.02	9.26	2.29	0.49	0.035	1.84	0.19	0.16	0.03	0.02	98.68
40387128		6.28	45.0	13.75	14.40	10.30	8.62	2.35	0.60	0.031	1.80	0.19	0.17	0.03	0.02	99.24
40387129		6.01	46.9	16.35	14.25	9.63	6.68	2.58	0.69	0.023	2.20	0.18	0.20	0.04	0.04	101.71
40387130		0.17	45.1	18.65	12.50	9.53	7.44	2.12	1.08	0.354	1.34	0.14	0.16	0.05	0.04	100.49
40387131		5.75	46.3	16.95	13.75	9.47	6.85	2.66	0.68	0.014	2.27	0.18	0.22	0.04	0.03	100.40
40387132		6.33	46.2	14.85	14.40	9.99	7.05	2.41	0.62	0.025	2.46	0.18	0.20	0.04	0.03	99.49
40387133		6.34	45.9	15.75	13.60	9.85	6.65	2.46	0.69	0.032	2.20	0.18	0.17	0.04	0.04	99.30
40387134		6.08	47.2	16.50	13.70	9.47	6.56	2.68	0.92	0.026	1.97	0.17	0.24	0.04	0.05	101.54
40387135		6.39	47.3	16.25	14.35	9.73	7.14	2.51	0.70	0.039	2.00	0.18	0.21	0.04	0.03	101.87
40387136		5.98	46.0	16.50	13.55	9.24	7.21	2.50	0.77	0.036	1.87	0.18	0.23	0.05	0.03	99.49
40387137		6.13	46.6	16.05	13.70	9.27	7.31	2.32	1.03	0.036	1.84	0.18	0.20	0.04	0.09	101.00
40387138		6.22	45.5	15.65	13.65	10.05	7.07	2.40	0.70	0.036	1.88	0.17	0.18	0.03	0.03	99.43
40387139		2.73	46.3	16.30	13.55	9.35	6.41	2.56	0.75	0.030	2.00	0.17	0.19	0.04	0.05	99.26



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Plus Appendix Pages  
 Finalized Date: 25-AUG-2018  
 Account: RTECIKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40387100		1.98	0.02	0.35	347	26.0	2560	2.56	3.44	1.97	1.30	22.5	3.78	2.6	0.68	12.2
40387101		1.40	0.01	0.11	287	65.5	170	1.86	8.43	4.59	2.26	26.9	9.10	6.6	1.70	30.0
40387102		0.85	<0.01	0.09	258	44.4	240	1.76	6.05	3.19	1.97	25.0	6.57	4.7	1.22	20.1
40387103		0.71	0.01	0.09	232	41.9	230	1.67	5.91	3.18	1.83	24.4	6.51	4.5	1.19	18.8
40387104		0.88	<0.01	0.09	249	43.3	230	1.70	6.00	3.17	1.83	24.8	6.47	4.6	1.18	19.5
40387105		0.98	<0.01	0.10	336	67.7	80	1.57	8.69	5.10	2.51	26.8	10.10	7.2	1.82	30.6
40387106		0.91	<0.01	0.10	328	62.1	140	1.97	8.48	4.70	2.36	25.7	9.41	6.6	1.72	27.8
40387107		1.57	<0.01	0.18	532	61.8	90	2.46	8.19	4.58	2.48	27.4	9.00	6.3	1.56	27.8
40387108		1.69	0.01	0.12	476	86.6	50	1.69	11.90	6.93	3.17	28.9	12.95	8.5	2.39	38.3
40387109		2.70	0.07	0.10	701	41.2	170	2.78	5.45	3.39	1.72	22.0	5.98	4.5	1.18	18.7
40387110		2.15	0.01	0.10	551	39.4	200	2.76	5.75	3.21	1.70	23.3	6.04	4.5	1.10	18.0
40387111		1.35	<0.01	0.10	362	32.4	230	2.67	4.46	2.64	1.64	22.2	4.94	3.4	0.95	14.6
40387112		1.04	<0.01	0.08	428	48.5	140	2.38	6.86	3.69	1.99	24.3	7.52	5.1	1.33	21.6
40387113		1.18	<0.01	0.08	412	42.4	210	2.11	6.08	3.40	1.88	23.9	6.30	4.4	1.27	18.6
40387114		1.14	<0.01	0.08	330	38.1	230	2.13	5.13	3.05	1.73	24.0	6.36	4.1	1.14	17.3
40387115		1.50	0.02	0.09	545	34.7	240	2.49	4.85	2.80	1.48	22.7	5.31	3.6	1.02	15.8
40387116		2.12	0.13	0.08	468	38.1	230	2.70	5.07	2.81	1.76	23.7	5.30	4.2	0.99	17.4
40387117		0.93	<0.01	0.08	296	30.8	250	2.05	4.46	2.53	1.48	22.9	4.56	3.2	0.93	14.1
40387118		0.85	<0.01	0.07	202	36.0	260	2.27	5.11	3.09	1.50	22.0	5.61	3.7	1.02	16.0
40387119		0.84	<0.01	0.07	225	38.3	240	2.35	4.77	2.70	1.60	21.6	5.47	4.1	0.99	16.9
40387120		0.37	0.03	0.09	1185	60.0	20	1.22	5.49	3.23	1.86	24.2	7.13	6.2	1.12	26.3
40387121		0.90	0.02	0.08	248	38.4	180	2.43	5.00	2.87	1.60	22.3	5.64	4.0	1.08	17.1
40387122		1.50	0.02	0.08	270	31.6	220	2.30	4.47	2.43	1.36	20.8	4.31	3.2	0.92	14.2
40387123		0.76	<0.01	0.05	182.5	31.5	210	2.36	4.39	2.52	1.48	21.2	4.86	3.3	0.90	14.0
40387124		0.89	<0.01	0.07	177.5	30.9	250	2.33	4.55	2.61	1.38	20.8	5.25	3.5	0.97	14.0
40387125		1.50	0.01	0.06	193.5	33.4	220	2.49	4.64	2.63	1.45	22.3	5.36	3.5	0.99	14.8
40387126		1.76	0.01	0.06	198.0	30.8	240	2.97	4.53	2.27	1.44	20.7	4.76	3.3	0.86	13.9
40387127		0.39	<0.01	0.06	174.5	27.9	270	2.11	4.54	2.47	1.41	21.5	4.87	3.1	0.97	13.7
40387128		1.98	0.21	0.07	200.0	29.1	240	2.58	4.41	2.53	1.56	21.2	4.41	3.2	0.94	14.4
40387129		1.95	0.01	0.07	365	32.6	200	2.63	5.09	2.73	1.62	23.4	4.63	3.9	1.07	15.7
40387130		1.99	0.02	0.35	352	25.7	2640	2.76	3.74	1.91	1.36	22.5	3.69	2.6	0.71	12.7
40387131		0.99	0.01	0.07	248	31.1	110	2.14	4.62	2.76	1.56	22.4	4.84	3.7	0.94	15.0
40387132		1.03	0.01	0.07	288	31.7	190	2.26	5.02	2.92	1.60	22.3	5.37	3.6	1.12	15.5
40387133		1.74	0.05	0.08	376	30.9	240	2.59	4.80	2.84	1.59	23.5	4.90	3.7	1.02	15.4
40387134		2.01	0.10	0.09	443	37.1	200	2.70	5.42	2.95	1.85	24.3	5.61	4.2	1.11	18.5
40387135		1.39	0.01	0.08	309	33.0	290	2.81	5.02	2.88	1.78	23.4	5.41	3.7	1.21	16.1
40387136		1.32	0.01	0.07	241	34.3	270	2.85	4.83	2.81	1.64	22.3	5.53	3.7	0.97	16.0
40387137		2.33	0.05	0.07	778	32.1	260	3.14	4.69	2.53	1.60	22.7	4.94	3.8	0.97	15.5
40387138		2.08	0.17	0.08	307	33.6	270	2.96	4.72	2.59	1.69	22.7	4.92	3.2	0.99	17.0
40387139		1.56	<0.01	0.06	425	35.2	230	3.02	4.96	2.89	1.67	23.6	4.79	3.7	1.02	17.6



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 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40387100		0.28	7.8	15.3	3.30	34.3	3.67	2	398	0.6	0.60	1.27	0.29	0.30	191	1
40387101		0.56	18.7	37.9	8.55	22.1	8.63	2	259	1.3	1.53	2.78	0.68	0.76	242	1
40387102		0.48	13.4	26.1	5.83	19.0	5.86	2	264	0.9	1.02	2.13	0.45	0.56	230	<1
40387103		0.39	13.0	24.3	5.33	16.1	5.76	1	273	0.7	1.07	2.05	0.47	0.53	274	<1
40387104		0.42	13.1	25.6	5.59	18.8	6.09	1	280	0.9	0.96	2.00	0.50	0.54	273	<1
40387105		0.70	21.2	39.9	9.00	28.2	9.38	2	277	1.3	1.59	3.19	0.70	0.85	225	1
40387106		0.60	19.2	36.7	8.26	27.3	9.22	2	259	1.2	1.42	3.07	0.66	0.76	283	<1
40387107		0.57	18.6	36.7	8.12	40.3	8.48	2	298	1.1	1.40	2.80	0.63	0.72	275	3
40387108		0.87	27.6	52.3	11.25	27.4	12.05	3	201	1.6	2.09	3.86	1.00	1.02	310	1
40387109		0.40	12.2	24.2	5.49	34.4	6.13	2	216	0.8	0.98	1.97	0.49	0.53	249	1
40387110		0.41	12.8	23.7	5.20	27.0	5.70	2	227	0.8	0.97	1.92	0.42	0.51	248	<1
40387111		0.36	10.1	19.5	4.27	22.2	5.03	1	251	0.7	0.77	1.49	0.35	0.41	271	<1
40387112		0.56	15.2	28.7	6.27	25.3	7.22	2	258	0.9	1.15	2.22	0.54	0.61	267	<1
40387113		0.49	13.6	25.7	5.49	23.4	6.34	1	262	0.9	1.03	1.93	0.50	0.48	336	<1
40387114		0.39	11.8	22.5	4.93	22.1	5.58	1	290	0.8	0.89	1.74	0.45	0.48	257	<1
40387115		0.35	11.2	21.0	4.44	29.8	4.80	1	280	0.8	0.80	1.62	0.36	0.42	209	1
40387116		0.36	12.1	22.0	4.97	30.0	5.29	1	296	0.7	0.86	1.78	0.38	0.45	205	<1
40387117		0.32	9.7	19.0	4.04	18.2	4.58	1	275	0.7	0.74	1.33	0.39	0.44	225	1
40387118		0.41	11.2	21.9	4.70	14.3	4.96	1	243	0.8	0.85	1.59	0.43	0.46	238	<1
40387119		0.39	11.4	22.0	4.93	15.8	5.50	1	244	1.0	0.84	1.89	0.38	0.41	215	<1
40387120		0.42	13.7	35.3	7.90	98.4	7.24	2	574	0.6	0.98	3.57	0.44	1.50	115	1
40387121		0.37	11.0	22.2	5.05	17.7	5.44	1	255	0.7	0.89	1.63	0.39	0.45	245	1
40387122		0.35	10.3	19.2	4.17	23.1	4.61	1	283	0.6	0.75	1.43	0.35	0.38	209	<1
40387123		0.33	10.2	19.1	4.16	13.1	4.61	1	247	0.6	0.79	1.47	0.35	0.38	209	<1
40387124		0.29	9.7	19.1	4.21	12.1	4.34	1	239	0.6	0.71	1.56	0.37	0.36	220	<1
40387125		0.34	10.1	19.8	4.41	14.3	4.70	1	254	0.7	0.85	1.47	0.37	0.40	241	1
40387126		0.33	9.5	17.7	4.08	16.9	4.30	1	292	0.7	0.74	1.35	0.36	0.37	224	<1
40387127		0.35	9.2	17.3	4.06	13.1	4.38	1	248	0.5	0.82	1.29	0.38	0.33	257	1
40387128		0.39	10.0	18.2	4.22	19.8	4.35	1	244	0.6	0.81	1.19	0.42	0.37	240	1
40387129		0.43	11.1	20.2	4.71	20.6	5.00	1	293	0.7	0.84	1.48	0.43	0.43	313	1
40387130		0.34	8.1	16.0	3.51	36.4	3.92	2	425	0.5	0.59	1.27	0.32	0.32	193	1
40387131		0.37	10.3	18.5	4.27	19.0	4.06	1	304	0.7	0.79	1.43	0.38	0.36	243	<1
40387132		0.36	11.1	20.2	4.45	18.7	5.08	1	295	0.7	0.91	1.41	0.43	0.42	344	1
40387133		0.41	10.8	20.3	4.51	21.9	4.46	1	300	0.7	0.85	1.40	0.40	0.44	276	1
40387134		0.43	11.9	23.4	5.35	29.1	5.42	1	298	0.7	0.91	1.69	0.43	0.49	241	1
40387135		0.42	11.0	20.7	4.81	21.0	5.01	1	318	0.7	0.91	1.53	0.43	0.43	264	1
40387136		0.40	9.9	20.3	4.70	22.5	4.45	1	369	0.6	0.82	1.52	0.34	0.42	219	1
40387137		0.41	10.2	19.9	4.63	34.2	4.90	1	340	0.7	0.86	1.41	0.39	0.45	238	1
40387138		0.39	10.7	21.1	4.72	22.5	5.12	1	263	0.6	0.86	1.88	0.41	0.34	266	1
40387139		0.36	11.0	22.8	5.10	23.4	4.81	1	284	0.7	0.84	1.81	0.41	0.44	278	3



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**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387100		18.7	1.85	108	4.5	0.17	0.008	0.030	0.003	0.33	1.1	0.04	0.45	0.45	0.27	61.9
40387101		45.7	4.45	263	1.2	0.01	<0.005	0.022	0.001	<0.05	0.5	0.01	0.17	0.07	0.24	45.1
40387102		31.7	3.44	186	1.0	0.01	<0.005	0.022	0.001	0.05	0.4	0.01	0.12	0.06	0.18	45.6
40387103		30.4	3.26	180	0.7	0.01	<0.005	0.022	0.001	<0.05	0.4	0.01	0.10	0.08	0.14	45.4
40387104		31.9	3.21	184	0.8	0.01	<0.005	0.024	0.001	<0.05	0.4	0.01	0.13	0.07	0.13	43.4
40387105		48.5	4.67	292	0.9	0.01	<0.005	0.027	0.001	<0.05	0.3	0.01	0.07	0.07	0.25	38.8
40387106		44.6	4.51	265	0.8	0.01	<0.005	0.026	0.001	<0.05	0.6	0.01	0.08	0.07	0.20	45.7
40387107		41.8	4.09	252	2.4	0.01	0.013	0.044	0.001	0.21	0.3	0.01	0.13	0.19	0.19	39.0
40387108		62.9	6.43	358	0.9	0.01	0.005	0.035	0.002	0.10	0.3	0.01	0.08	0.09	0.29	42.0
40387109		29.7	3.10	175	2.5	0.01	0.010	0.037	0.001	0.17	0.4	0.01	0.38	0.09	0.15	65.7
40387110		29.5	3.20	166	3.1	0.01	0.011	0.035	0.001	0.19	0.3	0.01	0.43	0.09	0.19	64.2
40387111		24.4	2.50	136	0.9	0.01	0.008	0.026	0.002	0.05	0.5	0.01	0.40	0.08	0.16	61.1
40387112		35.5	3.84	201	1.1	0.01	0.009	0.023	0.001	0.06	0.2	0.01	0.18	0.12	0.17	48.6
40387113		31.7	3.26	177	0.7	0.01	<0.005	0.025	0.002	0.05	0.4	0.01	0.12	0.09	0.18	50.9
40387114		28.9	2.92	157	0.9	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.21	0.08	0.13	42.1
40387115		25.6	2.66	143	0.7	0.01	0.005	0.018	0.001	<0.05	0.4	0.01	0.25	0.07	0.17	46.6
40387116		26.4	2.78	163	1.6	0.01	<0.005	0.021	0.001	0.07	0.4	0.01	0.29	0.05	0.13	37.8
40387117		23.4	2.42	125	0.4	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.22	0.12	0.14	50.5
40387118		26.7	2.76	157	0.8	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.11	0.06	0.14	57.3
40387119		26.2	2.63	154	0.9	0.01	<0.005	0.023	0.001	<0.05	0.3	0.01	0.15	0.07	0.13	61.6
40387120		31.1	3.11	252	0.5	0.02	<0.005	0.030	0.001	<0.05	0.3	0.03	0.33	0.03	0.05	14.8
40387121		27.6	2.73	156	1.1	0.01	<0.005	0.024	0.001	<0.05	0.3	0.01	0.18	0.06	0.16	63.7
40387122		24.1	2.42	137	0.6	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.41	0.08	0.12	58.9
40387123		23.8	2.37	137	0.4	0.01	<0.005	0.016	0.001	<0.05	0.3	0.02	0.17	0.05	0.10	56.2
40387124		24.5	2.22	135	0.5	0.01	<0.005	0.017	0.001	<0.05	0.4	0.01	0.13	0.06	0.13	56.8
40387125		24.9	2.57	137	1.2	0.01	0.005	0.020	0.002	<0.05	0.5	0.01	0.29	0.07	0.12	55.5
40387126		22.5	2.14	127	1.0	0.01	0.006	0.018	0.001	<0.05	0.4	0.01	0.54	0.06	0.13	57.9
40387127		23.9	2.48	118	0.3	0.02	<0.005	0.018	0.001	<0.05	0.3	0.01	0.10	0.04	0.12	62.9
40387128		24.4	2.56	122	1.3	0.01	0.006	0.019	0.001	0.05	0.3	0.01	0.32	0.07	0.13	55.0
40387129		27.5	2.54	155	1.3	0.01	0.006	0.029	0.002	0.05	0.3	<0.01	0.28	0.11	0.12	47.1
40387130		19.7	1.88	105	4.4	0.12	0.009	0.027	0.002	0.31	1.0	0.05	0.41	0.44	0.26	62.8
40387131		24.8	2.43	136	1.2	0.01	<0.005	0.021	0.001	<0.05	0.3	0.01	0.15	0.06	0.14	46.8
40387132		27.9	2.67	141	0.7	0.02	0.005	0.020	0.001	<0.05	0.2	0.02	0.26	0.07	0.16	46.3
40387133		26.8	2.66	139	0.7	0.01	0.006	0.019	0.001	<0.05	0.3	0.01	0.35	0.05	0.14	43.8
40387134		30.1	3.07	158	0.9	0.01	0.005	0.021	0.001	<0.05	0.5	0.01	0.40	0.06	0.13	45.7
40387135		28.2	2.55	143	1.9	0.01	0.005	0.022	0.001	0.06	0.4	<0.01	0.41	0.08	0.13	46.9
40387136		26.1	2.76	140	0.8	0.01	<0.005	0.023	0.002	<0.05	0.3	0.01	0.22	0.07	0.16	45.5
40387137		26.4	2.41	146	0.9	0.01	0.009	0.021	0.002	<0.05	0.2	0.02	0.41	0.06	0.11	47.1
40387138		25.7	2.50	121	0.8	0.01	0.010	0.028	0.001	0.05	0.4	0.02	0.35	0.06	0.11	47.5
40387139		28.4	2.66	147	0.7	0.01	0.008	0.022	0.001	<0.05	0.2	0.01	0.37	0.08	0.14	51.2





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 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40387100		1120	35.0	2.61	693	5.6	17.6	107	0.020	0.0524	0.197
40387101		155.0	14.5	1.64	96.7	6.6	26.8	157	0.001	0.0106	0.007
40387102		142.5	12.8	1.27	105.0	4.2	27.3	130	0.001	0.0330	0.036
40387103		150.5	15.9	1.61	105.0	5.7	27.8	125	<0.001	0.0146	0.003
40387104		152.0	15.7	1.39	98.0	4.0	28.4	121	<0.001	0.0007	0.001
40387105		114.5	16.5	2.05	66.5	5.0	32.0	154	<0.001	0.0007	0.001
40387106		156.5	17.3	1.80	80.3	4.7	31.9	152	0.001	0.0021	0.002
40387107		149.0	20.1	1.67	61.2	4.4	31.8	147	0.001	0.0017	0.002
40387108		125.5	19.0	2.27	45.3	5.6	41.0	197	<0.001	0.0013	0.002
40387109		185.0	29.5	1.22	154.0	2.8	30.6	159	0.001	0.0087	0.009
40387110		175.5	23.6	1.26	156.0	2.9	32.2	152	0.007	0.0117	0.016
40387111		201	17.8	0.94	141.5	3.1	30.6	137	0.002	0.0140	0.008
40387112		142.5	10.5	1.24	93.1	3.6	28.1	150	0.001	0.0024	0.002
40387113		178.0	14.5	1.12	114.0	2.6	39.6	139	0.001	<0.0005	0.001
40387114		158.0	13.1	1.26	100.5	3.0	28.7	114	0.001	<0.0005	<0.001
40387115		149.5	19.5	0.97	117.0	2.7	31.5	119	0.001	0.0014	0.001
40387116		128.0	16.6	1.03	95.9	3.4	23.5	103	0.001	0.0013	0.002
40387117		138.5	14.7	0.91	138.5	2.5	31.4	116	0.003	0.0011	0.001
40387118		143.0	14.8	1.10	174.0	2.7	30.2	122	0.001	0.0021	0.002
40387119		157.0	14.7	1.01	192.5	2.5	26.2	127	0.003	0.0038	0.004
40387120		15.3	20.4	1.03	11.1	12.0	16.7	85	<0.001	0.0006	0.001
40387121		162.5	15.8	1.03	193.0	2.9	22.0	132	0.002	0.0043	0.005
40387122		160.0	18.9	0.94	178.0	2.6	26.9	119	0.002	0.0026	0.003
40387123		151.5	12.6	0.94	168.0	2.6	26.9	114	0.001	0.0018	0.003
40387124		151.0	14.4	0.97	170.5	2.7	26.6	114	0.001	0.0016	0.002
40387125		129.5	15.9	1.13	158.5	2.8	28.3	118	0.002	0.0020	0.002
40387126		142.5	18.1	0.76	186.0	2.8	28.3	116	<0.001	0.0006	0.001
40387127		138.0	12.0	1.00	219	2.7	30.3	119	<0.001	<0.0005	0.001
40387128		129.5	13.8	0.82	227	2.0	28.4	113	<0.001	<0.0005	<0.001
40387129		161.0	14.9	0.96	147.0	1.9	30.7	127	<0.001	0.0005	0.001
40387130		1105	37.6	2.87	694	6.9	22.1	108	0.019	0.0338	0.201
40387131		154.0	11.4	0.90	139.0	1.9	27.7	113	0.001	0.0006	0.001
40387132		169.5	11.4	0.96	126.0	2.3	35.7	112	<0.001	<0.0005	0.001
40387133		137.5	12.1	0.89	118.0	2.3	30.1	108	0.001	0.0017	0.001
40387134		140.5	13.2	1.05	129.0	2.8	27.9	114	<0.001	0.0174	0.014
40387135		182.0	12.7	1.00	139.5	2.3	28.7	115	0.004	0.0049	0.005
40387136		171.0	16.4	1.04	134.0	2.3	28.2	112	0.003	0.0056	0.006
40387137		173.0	20.4	0.97	141.0	2.3	26.9	117	0.003	0.0047	0.005
40387138		155.5	14.1	0.86	149.5	2.6	27.8	113	0.006	0.0207	0.028
40387139		155.5	15.5	0.99	139.5	2.5	29.0	119	<0.001	0.0379	0.018





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 Plus Appendix Pages  
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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40387140		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387141		2.82	46.1	16.85	13.20	9.30	6.47	2.61	0.73	0.029	1.95	0.18	0.22	0.04	0.05	99.39
40387142		6.04	45.1	15.40	13.35	9.75	6.52	2.34	0.91	0.035	2.05	0.17	0.18	0.03	0.06	98.21
40387143		6.31	45.3	15.55	13.80	9.77	6.51	2.47	0.61	0.027	2.09	0.18	0.20	0.04	0.03	98.02
40387144		6.37	46.9	17.15	12.45	9.43	4.87	2.86	1.10	0.014	1.99	0.16	0.23	0.06	0.04	98.75
40387145		6.49	47.2	16.85	14.05	8.91	7.35	2.73	0.71	0.009	1.66	0.17	0.20	0.04	0.03	100.58
40387146		6.21	45.6	15.75	14.55	9.04	7.70	2.49	0.61	0.043	1.87	0.19	0.22	0.04	0.03	99.17
40387147		6.52	47.3	16.05	14.80	9.56	8.30	2.43	0.61	0.036	1.72	0.19	0.19	0.04	0.02	101.97
40387148		6.30	46.3	16.05	13.20	10.05	7.84	2.46	0.50	0.043	1.66	0.16	0.18	0.04	0.02	99.07
40387149		6.32	46.1	15.60	13.30	9.88	8.25	2.35	0.47	0.044	1.70	0.17	0.16	0.04	0.02	98.82
40387150		6.45	47.0	16.50	13.15	10.05	7.27	2.47	0.68	0.035	1.87	0.16	0.19	0.04	0.02	100.82
40387151		2.23	56.8	18.35	7.28	6.28	2.43	3.88	2.40	0.003	0.93	0.11	0.28	0.07	0.10	99.29
40387152		6.38	47.3	16.50	13.85	9.85	7.85	2.50	0.58	0.036	1.88	0.17	0.18	0.04	0.03	101.58
40387153		6.35	47.0	16.20	13.95	9.21	7.15	2.47	0.99	0.031	1.78	0.17	0.20	0.04	0.05	100.96
40387154		6.46	46.7	16.50	13.90	9.65	6.69	2.56	0.73	0.032	1.78	0.17	0.18	0.04	0.05	100.33
40387155		6.32	45.7	15.85	13.10	9.80	7.48	2.21	0.84	0.040	1.44	0.17	0.13	0.04	0.04	98.36
40387156		6.36	46.4	16.40	13.45	9.89	7.62	2.32	0.67	0.041	1.62	0.17	0.13	0.04	0.03	99.89
40387157		6.54	46.4	15.95	13.15	10.35	7.54	2.29	0.45	0.047	1.79	0.17	0.14	0.03	0.02	99.39
40387158		6.67	46.7	16.20	13.10	10.35	7.34	2.45	0.48	0.040	1.85	0.17	0.18	0.04	0.02	99.69
40387159		6.43	46.2	15.85	12.90	10.35	7.27	2.38	0.48	0.039	1.86	0.16	0.18	0.03	0.02	98.68
40387160		6.46	47.9	16.45	12.85	10.45	7.21	2.59	0.44	0.036	1.68	0.16	0.16	0.03	0.02	100.65
40387161		0.17	45.0	18.50	12.45	9.44	7.42	2.09	1.07	0.352	1.32	0.14	0.16	0.05	0.04	100.00
40387162		6.32	47.0	16.65	13.20	9.83	6.91	2.69	0.54	0.021	1.70	0.16	0.20	0.04	0.02	100.52
40387163		6.43	47.1	15.95	12.70	9.87	7.69	2.45	0.56	0.041	1.71	0.17	0.18	0.04	0.02	99.60
40387164		6.54	47.1	15.90	13.30	10.10	8.41	2.40	0.41	0.040	1.74	0.17	0.15	0.03	0.02	100.26
40387165		3.34	45.8	14.30	14.85	9.79	7.09	2.51	0.43	0.030	2.71	0.19	0.22	0.03	0.02	98.70
40387166		3.18	47.7	16.25	13.85	9.67	7.90	2.59	0.47	0.023	2.01	0.18	0.20	0.04	0.02	101.53
40387167		2.77	47.1	17.65	12.65	9.96	9.46	2.28	0.37	0.037	1.25	0.16	0.14	0.03	0.02	101.60
40387168		2.65	46.2	16.50	13.00	9.61	11.55	2.05	0.31	0.040	1.14	0.17	0.12	0.03	0.01	100.94
40387169		3.45	47.6	17.15	11.85	10.05	9.43	2.37	0.51	0.050	1.34	0.15	0.19	0.04	0.02	101.71
40387170		1.49	46.5	18.55	11.95	9.77	8.98	2.28	0.42	0.042	1.32	0.14	0.17	0.03	0.02	101.27
40387171		1.38	46.8	18.80	11.40	10.10	8.91	2.28	0.43	0.046	1.23	0.14	0.16	0.04	0.02	101.40
40387172		3.09	46.5	18.90	10.95	10.50	8.56	2.27	0.39	0.079	1.13	0.14	0.14	0.04	0.01	100.30
40387173		2.43	34.6	17.75	20.3	7.59	9.82	1.57	0.23	4.25	1.47	0.16	0.10	0.03	0.01	99.18
40387174		2.28	34.0	22.0	15.80	7.71	10.25	1.52	0.27	5.08	1.11	0.14	0.11	0.03	0.01	99.08
40387175		3.45	33.3	21.6	16.65	7.49	10.70	1.41	0.22	5.35	1.07	0.14	0.08	0.03	0.01	99.32
40387176		3.24	38.3	20.00	14.15	8.59	10.25	1.45	0.27	3.12	0.92	0.13	0.05	0.03	0.01	99.29
40387177		2.84	46.9	17.65	12.35	8.69	7.38	2.57	0.58	0.748	1.35	0.13	0.13	0.04	0.02	100.52
40387178		3.17	43.0	18.30	13.90	8.72	7.06	2.05	0.55	0.044	0.93	0.11	0.12	0.04	0.02	98.72
40387179		2.11	43.2	19.15	12.60	9.73	7.70	1.83	0.39	0.039	0.78	0.11	0.10	0.04	0.01	98.99
40387179		2.70	42.8	19.50	12.90	9.36	7.76	1.79	0.37	0.030	0.58	0.10	0.08	0.04	0.01	98.88



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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40387140		1.66	0.01	0.06	398	35.5	230	2.99	5.08	3.01	1.71	23.1	5.44	3.7	1.01	17.2
40387141		2.31	0.11	0.06	529	30.6	270	2.84	4.71	2.61	1.59	21.8	5.02	3.4	1.03	15.2
40387142		1.44	0.07	0.07	285	32.1	210	2.52	4.91	2.88	1.71	23.0	5.35	3.9	1.00	15.9
40387143		1.50	<0.01	0.08	398	37.9	110	2.17	5.30	3.22	1.68	24.5	5.71	4.1	1.15	18.3
40387144		0.67	<0.01	0.06	246	31.6	70	1.97	4.63	2.66	1.66	22.6	4.72	3.5	1.07	15.6
40387145		1.04	<0.01	0.07	238	34.0	330	2.68	5.10	3.01	1.54	22.2	5.62	3.8	0.97	16.2
40387146		0.72	<0.01	0.08	202	29.9	260	2.91	4.68	2.70	1.48	20.9	4.33	3.2	0.93	14.5
40387147		0.57	<0.01	0.07	190.5	27.9	320	2.25	3.88	2.62	1.47	21.2	4.60	3.4	0.83	13.6
40387148		0.74	<0.01	0.07	188.5	27.1	330	2.55	3.94	2.61	1.37	20.3	4.23	3.6	0.86	13.2
40387149		1.38	0.01	0.08	217	30.7	260	3.17	4.58	2.56	1.42	21.9	4.54	3.4	1.00	15.5
40387150		0.38	0.04	0.10	922	60.5	20	1.16	6.20	3.60	1.84	24.0	6.88	7.2	1.29	29.3
40387151		0.81	<0.01	0.08	234	27.5	270	2.58	4.44	2.31	1.43	21.1	4.33	3.1	0.87	13.6
40387152		1.72	<0.01	0.08	473	32.0	230	2.94	4.42	2.54	1.53	21.6	4.35	3.5	0.91	15.5
40387153		1.35	<0.01	0.10	441	28.6	230	2.92	4.50	2.62	1.57	22.4	4.68	3.4	0.91	14.3
40387154		1.52	0.01	0.05	359	24.1	300	2.73	3.76	2.13	1.38	20.7	3.97	2.6	0.75	11.9
40387155		1.11	<0.01	0.06	271	24.3	300	2.40	3.80	2.30	1.33	21.2	3.97	2.7	0.87	11.6
40387156		1.06	<0.01	0.05	166.0	25.3	350	2.61	4.08	2.08	1.31	20.7	3.91	2.6	0.81	12.4
40387157		0.77	<0.01	0.05	176.5	27.4	280	2.14	4.04	2.63	1.45	21.7	4.23	3.0	0.85	13.2
40387158		0.96	<0.01	0.04	177.5	26.0	280	2.38	4.03	2.28	1.51	20.8	4.09	2.6	0.85	12.6
40387159		0.67	<0.01	0.06	162.5	25.4	250	2.27	3.87	2.18	1.29	21.3	3.98	2.6	0.79	12.4
40387160		1.97	0.02	0.35	354	25.9	2530	2.58	3.27	1.94	1.27	21.5	3.62	2.8	0.76	12.9
40387161		1.56	<0.01	0.04	210	28.7	160	2.44	3.92	2.39	1.50	21.3	4.20	2.9	0.88	13.9
40387162		1.12	<0.01	0.06	208	29.4	290	2.54	4.54	2.52	1.35	22.4	4.36	2.8	0.86	13.0
40387163		0.49	<0.01	0.07	151.0	25.3	280	1.78	3.69	2.37	1.15	21.5	3.77	2.7	0.72	11.2
40387164		0.73	<0.01	0.08	182.0	37.0	210	1.41	5.66	3.27	1.59	24.5	5.44	4.3	1.15	16.3
40387165		0.63	0.01	0.07	187.5	34.2	160	1.89	4.84	2.94	1.47	22.8	5.02	3.6	1.00	15.3
40387166		0.49	0.01	0.06	149.5	23.0	260	1.86	3.38	1.91	1.23	21.1	3.25	2.2	0.65	10.1
40387167		0.21	<0.01	0.05	124.5	19.1	270	1.74	2.84	1.72	1.00	18.7	2.87	2.1	0.60	8.3
40387168		0.96	<0.01	0.06	180.5	29.3	340	2.04	4.20	2.38	1.29	21.2	4.08	3.0	0.85	13.1
40387169		1.10	<0.01	0.21	156.5	28.2	300	2.78	3.77	2.10	1.19	21.6	3.78	2.8	0.73	12.5
40387170		1.04	0.02	0.11	153.0	25.1	310	2.59	3.62	1.96	1.13	20.6	3.35	2.6	0.70	11.1
40387171		0.69	0.01	0.10	137.5	21.0	570	3.05	3.11	1.81	1.07	20.6	3.02	2.3	0.66	9.5
40387172		1.30	<0.01	2.78	83.1	13.6	>10000	2.00	2.02	1.13	0.76	32.5	1.95	1.5	0.43	6.1
40387173		1.05	<0.01	0.86	95.5	17.0	>10000	1.58	2.35	1.36	0.72	39.9	2.41	1.7	0.46	7.6
40387174		1.27	<0.01	1.18	77.4	12.3	>10000	1.45	1.73	0.86	0.58	40.4	1.76	1.2	0.35	5.6
40387175		2.02	<0.01	1.13	89.6	10.5	>10000	2.84	1.30	0.95	0.62	29.4	1.46	1.2	0.27	4.9
40387176		1.98	0.01	0.85	188.5	29.2	5400	2.63	3.51	2.02	1.38	24.1	4.01	3.0	0.70	13.2
40387177		3.88	0.19	2.02	168.5	20.5	300	2.59	2.70	1.44	1.14	19.5	2.85	2.3	0.55	9.4
40387178		3.31	0.01	1.32	110.5	16.2	270	2.82	2.12	1.18	1.04	19.1	2.30	1.5	0.41	7.2
40387179		3.56	0.02	2.09	102.5	12.8	200	3.08	1.41	0.87	1.01	18.1	1.63	1.1	0.29	6.0



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Account: RTECIKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40387140		0.37	10.4	20.9	4.88	22.1	4.58	1	268	0.6	0.85	1.68	0.39	0.44	233	<1
40387141		0.40	10.5	19.3	4.48	30.3	4.54	1	268	0.7	0.82	1.53	0.43	0.40	278	1
40387142		0.40	10.7	20.9	4.70	18.7	5.07	1	293	0.7	0.84	1.68	0.40	0.49	300	1
40387143		0.42	11.9	24.2	5.39	35.9	5.58	2	446	0.7	0.97	1.61	0.49	0.50	250	1
40387144		0.38	10.1	19.4	4.57	20.5	4.99	1	340	0.7	0.82	1.54	0.35	0.39	210	1
40387145		0.37	9.9	20.6	4.74	17.4	4.40	1	276	0.6	0.77	1.52	0.40	0.46	255	<1
40387146		0.33	9.7	19.0	4.35	16.8	4.43	1	305	0.6	0.74	1.33	0.36	0.32	224	1
40387147		0.33	9.1	17.9	4.11	13.0	4.12	1	280	0.5	0.66	1.29	0.32	0.38	230	1
40387148		0.34	8.8	17.5	3.94	12.5	4.11	1	268	0.5	0.69	1.23	0.37	0.33	225	1
40387149		0.37	10.0	19.9	4.48	20.1	4.35	1	340	0.6	0.78	1.49	0.37	0.38	253	1
40387150		0.48	12.8	37.8	8.80	94.5	8.24	2	593	0.7	1.09	3.34	0.49	1.59	126	1
40387151		0.34	9.2	17.7	4.09	16.9	4.35	1	288	0.6	0.69	1.11	0.32	0.32	234	1
40387152		0.40	10.3	20.2	4.60	32.5	4.99	1	309	0.6	0.76	1.37	0.43	0.35	259	1
40387153		0.36	9.6	19.2	4.20	23.4	4.56	1	297	0.6	0.73	1.34	0.35	0.38	250	1
40387154		0.30	7.6	15.2	3.44	28.2	3.77	1	323	0.5	0.63	1.06	0.27	0.27	225	1
40387155		0.29	7.8	16.2	3.52	21.6	4.06	1	347	0.5	0.69	1.01	0.34	0.26	240	1
40387156		0.29	8.3	16.5	3.69	12.6	4.08	1	280	0.5	0.72	1.04	0.32	0.25	243	1
40387157		0.34	9.1	18.4	4.00	12.6	4.33	1	275	0.5	0.66	1.15	0.36	0.32	243	1
40387158		0.34	8.9	17.5	3.90	12.6	4.10	1	268	0.6	0.70	1.09	0.32	0.30	259	1
40387159		0.32	7.8	16.5	3.69	11.4	3.58	1	264	0.4	0.67	1.18	0.32	0.36	250	<1
40387160		0.27	8.1	16.7	3.75	36.2	3.94	2	415	0.5	0.59	1.22	0.31	0.36	190	1
40387161		0.31	8.7	18.6	4.09	14.9	4.00	1	290	0.5	0.66	1.17	0.34	0.36	235	1
40387162		0.33	8.9	17.4	3.96	16.2	4.36	1	276	1.1	0.77	1.70	0.33	0.76	245	<1
40387163		0.30	7.9	14.8	3.48	9.6	3.68	1	241	0.5	0.64	1.10	0.28	0.33	259	<1
40387164		0.43	11.9	22.7	4.81	11.1	5.44	2	252	0.8	1.01	1.73	0.47	0.44	536	<1
40387165		0.39	10.5	20.0	4.56	11.7	4.86	1	254	0.7	0.82	1.67	0.35	0.39	262	<1
40387166		0.24	6.6	13.8	3.03	9.0	3.23	1	255	0.6	0.54	1.03	0.27	0.27	175	1
40387167		0.21	5.6	11.3	2.54	6.6	2.75	1	224	0.4	0.49	0.92	0.23	0.21	158	<1
40387168		0.32	8.1	17.5	3.90	13.6	3.98	1	260	0.6	0.73	1.28	0.31	0.33	206	<1
40387169		0.30	8.4	16.0	3.58	11.8	3.85	1	270	0.7	0.69	1.27	0.30	0.33	165	<1
40387170		0.27	7.3	14.7	3.37	11.9	3.46	1	269	0.6	0.60	1.04	0.25	0.26	161	<1
40387171		0.27	6.4	12.6	2.91	10.2	2.87	1	269	0.6	0.51	0.92	0.25	0.24	145	<1
40387172		0.15	4.1	8.0	1.79	6.7	1.96	2	177.0	0.3	0.30	0.56	0.15	0.15	530	1
40387173		0.19	5.3	9.9	2.12	9.2	2.15	1	187.5	0.3	0.39	0.78	0.16	0.21	550	<1
40387174		0.13	3.7	6.8	1.62	7.4	1.61	1	192.0	0.3	0.27	0.48	0.11	0.11	577	<1
40387175		0.12	3.0	6.4	1.39	9.3	1.58	1	242	0.4	0.25	0.44	0.10	0.12	462	<1
40387176		0.24	7.1	16.4	3.78	19.8	3.90	1	284	0.5	0.60	1.97	0.25	0.73	273	<1
40387177		0.24	6.0	11.7	2.64	18.2	2.87	1	322	0.7	0.46	1.17	0.21	0.38	117	<1
40387178		0.17	4.6	9.3	2.13	11.5	2.33	1	282	0.3	0.37	0.75	0.17	0.26	109	<1
40387179		0.12	3.5	7.3	1.66	11.4	1.60	1	282	0.4	0.25	0.68	0.13	0.26	84	<1



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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40387140		26.6	2.72	145	0.7	0.01	0.009	0.022	0.001	<0.05	0.3	0.01	0.39	0.07	0.10	48.6
40387141		26.3	2.64	134	0.6	0.01	0.010	0.019	0.001	<0.05	0.6	0.01	0.25	0.06	0.11	47.7
40387142		27.1	2.68	146	0.7	0.01	0.005	0.022	0.001	<0.05	0.3	0.01	0.15	0.06	0.13	49.1
40387143		30.8	3.05	155	0.7	0.01	0.005	0.021	0.001	<0.05	0.2	0.01	0.37	0.06	0.14	39.4
40387144		25.1	2.50	128	0.4	0.01	<0.005	0.019	0.001	<0.05	0.4	0.01	0.13	0.05	0.08	55.7
40387145		26.2	2.62	148	0.6	0.01	0.006	0.024	0.001	<0.05	0.4	0.01	0.39	0.06	0.12	60.5
40387146		24.8	2.55	123	0.4	0.01	<0.005	0.020	0.001	<0.05	0.2	0.01	0.43	0.09	0.11	62.6
40387147		23.9	2.32	124	0.2	0.01	<0.005	0.018	0.001	<0.05	0.2	0.02	0.14	0.07	0.12	54.0
40387148		23.3	2.28	131	0.6	0.01	0.008	0.019	0.001	<0.05	0.5	0.01	0.38	0.06	0.10	57.9
40387149		25.9	2.57	132	0.3	0.01	0.005	0.020	0.001	<0.05	0.4	0.01	0.34	0.06	0.12	53.7
40387150		35.3	3.47	285	0.3	0.01	<0.005	0.032	0.001	<0.05	<0.2	0.03	0.33	0.05	0.09	17.8
40387151		22.9	2.22	116	0.6	0.01	<0.005	0.018	0.001	<0.05	0.5	0.02	0.18	0.08	0.10	54.9
40387152		25.9	2.39	130	0.8	0.01	0.007	0.022	0.001	0.05	0.4	0.01	0.25	0.08	0.11	53.5
40387153		24.4	2.45	136	0.3	0.01	0.007	0.021	0.001	<0.05	<0.2	0.02	0.38	0.08	0.13	52.3
40387154		21.0	1.87	107	0.9	0.01	0.009	0.017	0.001	<0.05	0.3	0.02	0.33	0.09	0.11	56.0
40387155		21.2	2.11	110	0.9	0.02	<0.005	0.017	0.002	<0.05	0.2	0.02	0.24	0.09	0.18	51.1
40387156		21.9	2.08	103	0.4	0.03	<0.005	0.016	<0.001	<0.05	0.3	<0.01	0.20	0.07	0.10	51.4
40387157		23.7	2.24	115	0.3	0.03	<0.005	0.017	0.001	<0.05	0.3	<0.01	0.15	0.07	0.12	50.0
40387158		22.5	2.09	101	1.3	0.03	0.007	0.018	<0.001	<0.05	<0.2	<0.01	0.17	0.07	0.10	50.3
40387159		21.0	2.13	97	0.3	0.02	0.005	0.018	0.001	<0.05	<0.2	<0.01	0.11	0.07	0.09	49.7
40387160		19.6	2.03	106	5.1	0.17	0.014	0.032	0.002	0.40	0.8	0.03	0.41	0.45	0.29	65.2
40387161		23.4	2.43	116	1.4	0.03	0.007	0.020	0.001	<0.05	<0.2	<0.01	0.18	0.06	0.12	49.0
40387162		22.9	2.30	117	0.4	0.02	<0.005	0.020	<0.001	<0.05	<0.2	0.01	0.33	0.06	0.11	51.4
40387163		19.9	2.10	106	0.4	0.02	<0.005	0.018	0.001	<0.05	0.2	<0.01	0.11	0.08	0.12	54.7
40387164		29.2	2.74	168	0.5	0.02	0.009	0.026	0.001	<0.05	0.4	<0.01	0.13	0.08	0.15	51.3
40387165		25.6	2.42	141	0.3	0.02	0.007	0.025	0.001	<0.05	<0.2	<0.01	0.11	0.08	0.10	52.2
40387166		17.1	1.70	85	0.4	0.02	0.008	0.022	<0.001	<0.05	0.4	<0.01	0.11	0.06	0.09	59.8
40387167		15.1	1.39	82	0.3	0.02	0.010	0.018	<0.001	<0.05	0.2	<0.01	0.05	0.06	0.09	67.4
40387168		22.1	2.01	114	0.5	0.02	0.007	0.020	<0.001	<0.05	0.2	<0.01	0.13	0.09	0.09	56.1
40387169		19.6	1.83	115	1.9	0.06	0.007	0.024	0.002	<0.05	0.6	0.03	0.29	0.36	0.13	61.9
40387170		18.4	1.75	103	0.2	0.04	0.007	0.022	0.002	<0.05	0.4	<0.01	0.21	0.15	0.08	55.2
40387171		16.4	1.62	87	0.3	0.02	0.008	0.021	<0.001	<0.05	0.4	0.01	0.10	0.13	0.09	53.3
40387172		10.2	1.13	57	0.8	0.81	0.009	0.077	0.035	0.05	6.9	0.39	0.17	2.68	0.57	216
40387173		12.5	1.16	72	0.6	0.36	<0.005	0.040	0.011	<0.05	2.8	0.20	0.03	1.14	0.30	140.0
40387174		9.0	0.77	44	0.6	0.53	0.008	0.049	0.012	0.13	3.0	0.32	0.04	1.67	0.36	151.5
40387175		7.5	0.76	51	7.9	0.33	<0.005	0.046	0.010	0.13	2.8	0.19	0.16	1.29	0.45	132.5
40387176		18.2	1.71	118	7.9	0.34	0.007	0.038	0.008	0.17	1.6	0.07	0.19	0.64	0.36	88.1
40387177		14.0	1.38	85	39.6	0.54	0.011	0.065	0.013	0.32	3.6	0.18	0.34	1.29	0.72	153.5
40387178		10.9	1.04	59	10.0	0.87	0.010	0.067	0.011	0.46	3.8	0.26	0.38	1.77	0.83	125.5
40387179		7.9	0.75	43	9.5	0.56	0.006	0.079	0.019	0.30	4.8	0.26	0.50	2.12	0.77	148.5





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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40387140		148.0	15.4	0.88	133.5	2.5	28.1	115	0.001	0.0370	0.020
40387141		162.5	17.7	0.82	122.5	2.5	30.9	113	<0.001	0.0015	0.001
40387142		174.5	12.2	0.89	134.0	2.2	29.2	118	<0.001	0.0009	0.001
40387143		147.0	12.8	1.13	81.1	2.7	28.5	110	<0.001	0.0007	0.001
40387144		137.0	10.6	0.87	170.5	2.4	21.7	112	<0.001	0.0009	0.001
40387145		167.0	12.0	0.97	167.5	2.6	27.1	124	0.001	0.0169	0.014
40387146		218	14.8	0.81	176.0	2.3	26.1	118	0.003	0.0086	0.012
40387147		172.5	10.0	0.88	196.5	2.3	28.5	104	<0.001	0.0043	0.004
40387148		185.0	12.2	0.81	206	2.2	29.5	108	<0.001	0.0047	0.004
40387149		188.0	13.6	0.90	167.5	2.5	28.4	109	0.001	0.0045	0.004
40387150		18.6	17.8	0.91	13.1	11.1	17.4	90	<0.001	<0.0005	0.001
40387151		194.0	11.3	0.85	177.0	2.2	27.4	108	0.002	0.0088	0.007
40387152		208	15.3	0.84	141.0	2.2	28.2	109	0.001	0.0108	0.010
40387153		227	14.0	0.79	122.0	1.8	28.8	112	0.003	0.0082	0.005
40387154		228	17.4	0.66	169.0	1.7	27.9	105	0.001	0.0061	0.007
40387155		211	13.1	0.62	180.5	1.8	26.8	117	0.002	0.0045	0.003
40387156		201	12.4	0.63	172.0	1.8	29.9	105	0.001	0.0042	0.005
40387157		184.0	10.8	0.76	159.5	1.6	29.2	106	0.001	0.0038	0.005
40387158		199.0	11.6	0.78	156.0	1.7	31.4	103	0.001	0.0045	0.006
40387159		200	8.7	0.82	155.0	2.1	30.4	100	<0.001	0.0031	0.005
40387160		1115	32.0	2.96	709	5.8	18.3	111	0.020	0.0461	0.189
40387161		179.5	12.1	0.75	160.0	1.8	24.5	121	0.002	0.0040	0.006
40387162		209	11.0	0.76	166.5	1.7	29.1	102	0.002	0.0036	0.004
40387163		220	8.5	0.70	196.5	1.8	30.3	103	0.001	0.0052	0.006
40387164		249	8.0	1.11	158.5	2.0	35.7	128	<0.001	0.0059	0.005
40387165		195.5	7.7	1.12	176.5	2.7	27.2	111	0.002	0.0073	0.007
40387166		164.5	9.2	0.87	257	2.1	21.2	97	0.003	0.0101	0.012
40387167		141.5	8.0	0.80	383	1.5	24.5	97	0.002	0.0111	0.021
40387168		211	10.5	0.83	341	1.7	25.2	93	0.002	0.0117	0.029
40387169		961	12.0	0.82	647	1.9	17.6	96	0.010	0.0201	0.073
40387170		454	10.9	0.87	450	1.5	18.8	87	0.003	0.0091	0.028
40387171		370	11.2	0.69	395	1.6	21.6	89	0.004	0.0162	0.043
40387172		6410	9.2	1.01	5410	4.3	17.4	215	0.137	0.1270	0.836
40387173		3160	7.1	0.84	2410	3.4	14.5	233	0.050	0.1435	0.536
40387174		4140	8.7	0.64	2840	2.9	14.5	228	0.053	0.1705	0.802
40387175		3560	19.1	1.25	2450	5.6	12.0	176	0.050	0.1880	0.469
40387176		1580	16.6	2.25	1085	5.7	23.0	111	0.033	0.0684	0.243
40387177		3300	26.1	5.29	1990	4.7	15.7	104	0.048	0.1180	0.457
40387178		4610	21.9	3.24	2410	12.9	14.0	91	0.061	0.1350	0.653
40387179		6160	22.6	3.90	3110	3.8	10.0	81	0.070	0.1305	0.821





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 Account: RTEICKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387180		2.11	57.0	18.25	7.50	6.20	2.69	3.75	2.42	0.004	0.97	0.12	0.32	0.07	0.10	99.73
40387181		2.82	45.0	19.15	12.25	9.04	7.84	2.06	0.51	0.031	0.72	0.11	0.08	0.04	0.02	99.38
40387182		2.67	45.3	19.85	11.05	8.91	7.34	2.13	0.65	0.027	0.42	0.10	0.06	0.05	0.02	99.46
40387183		2.96	45.7	20.5	11.10	8.61	6.74	2.19	0.70	0.034	0.42	0.09	0.05	0.05	0.02	98.73
40387184		3.15	46.7	19.00	9.97	8.71	6.65	1.93	1.78	0.035	0.51	0.11	0.07	0.08	0.06	99.61
40387185		3.04	46.8	19.35	9.43	9.89	6.21	1.93	1.49	0.026	0.48	0.12	0.05	0.06	0.08	99.63
40387186		3.11	48.3	20.3	10.05	8.99	6.32	2.42	0.84	0.031	0.46	0.10	0.05	0.05	0.04	99.41
40387187		3.13	47.8	19.35	11.75	8.43	7.37	2.25	0.80	0.030	0.78	0.12	0.05	0.05	0.02	99.92
40387188		3.40	46.1	17.60	14.65	8.61	7.15	2.36	0.56	0.036	1.44	0.14	0.09	0.04	0.02	99.73
40387189		2.62	47.5	17.05	12.95	7.77	7.44	2.12	0.97	0.042	1.56	0.15	0.10	0.05	0.04	98.84
40387190		0.17	43.8	18.25	14.30	9.53	7.66	2.13	0.76	0.324	1.30	0.16	0.14	0.04	0.02	99.84
40387191		2.76	47.5	17.20	12.70	8.52	6.31	2.44	0.70	0.027	1.64	0.14	0.13	0.04	0.03	98.21
40387192		3.18	43.5	13.35	17.60	7.64	6.12	2.23	0.60	0.013	4.49	0.19	0.07	0.06	0.03	97.33
40387193		6.82	45.9	13.35	17.40	7.63	5.88	2.76	0.48	0.007	4.57	0.19	0.12	0.06	0.02	99.49
40387194		5.97	46.8	13.30	17.05	7.36	5.45	3.07	0.54	0.005	4.22	0.20	0.19	0.06	0.03	99.08
40387195		6.15	43.2	13.15	18.65	6.77	5.81	1.71	2.46	0.007	4.62	0.21	0.24	0.05	0.08	99.81
40387196		6.23	43.0	12.45	19.60	8.43	5.79	2.36	0.51	0.006	4.64	0.22	0.35	0.06	0.02	98.61
40387197		6.22	44.0	12.50	19.25	8.22	5.47	2.28	0.89	0.006	4.36	0.21	0.40	0.06	0.05	99.36
40387198		6.47	44.4	12.70	18.60	8.10	5.33	2.41	0.78	0.007	4.07	0.20	0.39	0.06	0.04	98.27
40387199		2.95	46.0	12.40	18.25	8.03	4.72	2.70	0.76	0.003	4.07	0.21	0.45	0.06	0.04	98.86
40387200		2.77	46.0	12.45	18.30	8.09	4.78	2.70	0.74	0.004	4.06	0.21	0.44	0.06	0.03	99.00
40387201		6.25	45.9	12.35	18.10	8.10	4.71	2.57	0.77	0.004	3.99	0.20	0.44	0.06	0.04	98.64
40387202		5.56	46.8	12.50	16.85	7.60	4.67	2.33	0.76	0.004	3.82	0.18	0.41	0.06	0.04	98.01
40387203		6.12	67.0	14.65	6.44	0.84	2.27	3.16	2.37	0.024	0.67	0.03	0.10	0.02	0.06	99.99
40387204		11.17	67.7	12.65	6.27	1.76	2.46	2.71	2.51	0.022	0.58	0.04	0.10	0.02	0.04	99.79
40387205		11.17	69.5	13.50	6.17	0.96	2.22	2.63	2.66	0.026	0.64	0.03	0.10	0.01	0.06	100.88
40387206		8.35	68.1	14.85	6.89	0.68	2.37	2.43	2.63	0.026	0.71	0.03	0.11	0.01	0.06	101.38
40387207		8.73	65.7	14.45	6.90	0.81	2.46	2.29	2.70	0.027	0.69	0.03	0.11	0.01	0.07	98.92
40387208		6.00	48.2	14.40	14.85	7.73	6.89	2.04	1.57	0.015	1.99	0.20	0.23	0.04	0.08	101.17
40387209		5.52	48.4	14.55	14.90	8.96	6.66	2.03	0.90	0.016	2.00	0.19	0.22	0.04	0.05	101.31
40387210		2.10	54.5	17.35	9.08	7.15	3.41	3.47	1.90	0.006	1.23	0.13	0.32	0.06	0.08	99.32
40387211		6.28	71.7	13.15	6.02	0.66	2.16	2.96	2.31	0.027	0.62	0.03	0.11	0.03	0.07	101.86
40387212		8.49	64.0	16.40	8.06	0.62	2.66	2.14	2.98	0.027	0.79	0.02	0.12	0.01	0.06	101.01
40387213		8.64	67.8	15.25	6.65	0.63	2.36	2.53	2.91	0.027	0.74	0.03	0.12	0.02	0.07	101.64
40387214		8.64	70.7	13.20	6.13	0.65	2.09	2.98	2.34	0.025	0.62	0.03	0.11	0.02	0.06	100.94
40387215		0.85	47.7	14.20	16.50	7.37	5.15	2.23	0.97	0.018	3.62	0.19	0.51	0.03	0.05	100.70
40387216		6.15	47.1	13.75	15.70	8.09	5.46	2.21	1.15	0.019	3.34	0.20	0.45	0.04	0.06	99.73
40387217		0.83	54.2	14.60	12.20	4.57	4.24	2.58	2.27	0.023	2.12	0.13	0.30	0.05	0.14	99.30
40387218		5.74	46.4	13.70	15.75	8.13	5.42	2.32	1.33	0.020	3.19	0.19	0.45	0.04	0.05	98.15
40387219		5.45	47.2	13.85	16.10	8.27	5.53	2.39	1.31	0.020	3.24	0.20	0.46	0.04	0.05	99.84



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 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387180		0.34	0.05	0.09	918	63.7	30	1.30	6.71	3.89	1.84	25.7	7.41	6.9	1.23	27.4
40387181		2.53	0.04	0.87	140.0	16.0	220	2.81	1.96	1.16	1.08	20.3	1.81	1.3	0.40	7.2
40387182		3.55	0.04	0.62	173.0	10.7	190	2.39	1.19	0.61	1.06	19.1	1.27	0.9	0.23	5.0
40387183		2.53	0.01	1.02	201	11.2	230	2.62	1.12	0.72	1.21	19.9	1.30	0.8	0.24	5.4
40387184		4.00	0.04	0.29	570	17.8	250	2.88	1.64	0.84	0.95	21.6	1.65	1.4	0.29	8.3
40387185		3.71	0.15	0.29	687	14.9	180	3.29	1.43	0.77	1.17	21.8	1.47	1.3	0.28	7.4
40387186		1.46	0.02	0.62	382	12.5	220	2.65	1.28	0.75	0.87	21.7	1.31	1.0	0.26	5.9
40387187		1.12	0.01	0.61	215	12.2	210	2.16	1.33	0.67	1.00	20.8	1.47	1.1	0.25	5.9
40387188		0.93	0.01	1.22	152.0	15.9	240	2.22	1.91	1.12	1.01	21.0	1.99	1.5	0.39	7.2
40387189		1.10	0.02	0.39	346	22.6	290	2.57	2.49	1.39	1.35	21.3	2.67	2.0	0.49	10.5
40387190		1.43	0.03	0.93	164.5	24.6	2290	2.54	3.45	1.94	1.24	22.0	3.56	2.5	0.70	11.0
40387191		0.83	0.02	0.30	292	23.9	190	2.94	3.01	1.53	1.42	22.9	3.01	2.1	0.56	10.8
40387192		1.44	0.05	0.46	263	12.6	80	2.38	1.75	1.02	1.67	20.1	1.89	1.3	0.33	5.6
40387193		1.12	0.03	0.25	207	26.3	40	2.66	3.20	1.59	1.94	23.8	3.38	2.7	0.60	11.4
40387194		0.80	0.02	0.02	231	35.8	30	2.15	3.95	1.97	2.00	23.4	4.51	4.1	0.75	16.3
40387195		2.85	0.08	0.09	758	36.9	40	2.54	4.08	2.13	2.24	22.4	5.13	3.1	0.81	14.2
40387196		1.17	0.02	0.03	205	35.0	40	2.97	4.38	2.22	2.36	20.6	5.55	2.7	0.83	14.4
40387197		1.66	0.03	0.02	404	47.5	40	2.47	5.13	2.79	2.49	21.7	6.70	3.8	1.01	19.7
40387198		1.18	0.02	0.03	344	50.5	50	2.37	5.73	2.89	2.57	21.9	7.12	3.7	1.04	20.8
40387199		1.17	0.01	0.04	327	65.4	20	3.16	7.13	3.55	2.78	23.7	8.67	5.1	1.34	27.5
40387200		1.14	0.01	0.04	308	64.0	30	3.28	6.84	3.62	2.99	23.4	8.64	4.5	1.33	27.1
40387201		1.41	0.02	0.07	321	65.7	20	3.19	6.72	3.66	2.94	23.1	8.54	5.2	1.33	27.9
40387202		1.99	0.02	0.06	339	68.9	30	3.45	6.85	3.59	2.78	24.5	8.35	6.0	1.27	29.3
40387203		2.36	0.06	0.02	523	66.5	170	1.34	3.56	2.21	1.16	18.4	4.09	4.6	0.69	34.0
40387204		2.93	0.27	0.06	380	48.6	160	1.02	3.53	2.26	1.08	15.2	3.47	4.1	0.70	23.6
40387205		2.37	0.09	0.04	501	47.0	180	1.48	2.85	1.77	1.08	16.7	3.05	4.9	0.60	23.2
40387206		2.48	0.03	0.03	515	44.7	180	2.00	3.81	2.36	1.12	18.5	3.71	4.5	0.77	21.1
40387207		2.67	0.10	0.09	610	51.4	190	2.20	3.57	2.27	1.09	18.3	3.96	4.7	0.76	24.7
40387208		2.93	0.04	0.05	746	30.3	100	2.31	4.96	3.18	1.56	21.2	4.81	3.6	1.01	12.9
40387209		2.39	0.01	0.11	401	31.4	100	3.42	5.03	3.08	1.59	21.8	5.39	3.5	1.08	13.3
40387210		0.63	0.05	0.09	743	60.0	40	1.87	6.02	3.67	1.76	22.8	6.75	6.4	1.29	26.1
40387211		2.01	0.03	0.02	655	43.9	190	1.39	2.84	1.85	1.00	15.2	3.15	4.9	0.57	20.6
40387212		3.12	0.01	0.40	539	49.6	190	3.00	4.26	2.63	1.23	21.9	4.32	4.0	0.81	22.7
40387213		2.50	0.01	0.02	609	66.0	190	2.24	3.74	2.40	1.26	18.8	3.79	4.9	0.79	32.8
40387214		1.98	0.01	0.01	539	47.5	170	1.33	3.21	2.04	1.08	15.8	3.60	4.3	0.63	22.3
40387215		2.16	0.02	0.41	424	70.4	130	2.79	8.38	4.90	2.27	25.5	9.02	7.3	1.74	30.6
40387216		2.16	0.01	0.07	496	66.3	130	3.71	8.17	4.81	2.24	24.4	8.91	6.5	1.58	29.2
40387217		1.88	0.01	0.07	1300	64.2	160	4.24	6.13	3.68	1.83	21.8	6.53	5.2	1.22	29.7
40387218		1.16	<0.01	0.07	436	64.1	140	5.08	7.86	4.74	2.29	24.0	8.31	6.3	1.53	27.8
40387219		1.18	<0.01	0.07	450	66.9	140	5.56	8.31	4.74	2.26	24.4	8.35	7.0	1.64	29.2



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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387180		0.50	14.0	38.0	8.58	97.4	8.39	2	562	0.9	1.19	3.58	0.50	1.58	134	<1
40387181		0.15	4.4	8.8	2.01	16.5	2.01	1	324	0.4	0.32	0.86	0.14	0.32	103	<1
40387182		0.10	2.6	5.7	1.43	20.4	1.14	1	366	0.2	0.20	0.62	0.10	0.28	77	<1
40387183		0.10	2.4	6.2	1.46	22.3	1.35	1	382	0.3	0.21	0.67	0.07	0.31	91	<1
40387184		0.11	5.0	9.2	2.19	58.4	2.03	1	621	0.3	0.26	1.28	0.10	0.46	147	<1
40387185		0.12	3.3	7.5	1.83	50.7	1.49	1	462	1.2	0.25	1.05	0.10	0.44	133	1
40387186		0.11	2.6	6.5	1.51	28.8	1.25	1	400	0.3	0.24	0.78	0.10	0.41	120	<1
40387187		0.10	3.1	6.6	1.49	27.2	1.33	1	408	0.4	0.23	0.86	0.08	0.37	134	<1
40387188		0.12	4.7	8.9	2.05	16.4	2.13	1	302	0.5	0.33	0.91	0.14	0.44	169	<1
40387189		0.19	7.5	12.2	2.86	34.6	2.98	1	411	0.6	0.47	1.38	0.20	0.60	254	<1
40387190		0.27	7.6	14.7	3.25	21.3	3.42	2	330	0.7	0.58	1.05	0.23	0.26	168	1
40387191		0.19	8.0	14.1	3.17	24.4	3.17	<1	354	0.6	0.51	1.48	0.20	0.64	215	3
40387192		0.15	11.6	8.2	1.70	15.7	2.07	<1	521	1.1	0.31	0.72	0.14	0.29	719	<1
40387193		0.20	15.2	16.1	3.54	14.2	3.67	1	535	1.3	0.58	1.79	0.22	0.77	680	1
40387194		0.25	17.1	21.0	4.74	16.2	4.70	1	465	1.5	0.74	2.72	0.25	0.93	559	<1
40387195		0.24	19.7	24.4	5.42	82.2	5.57	1	356	1.5	0.83	1.24	0.24	0.41	648	1
40387196		0.24	22.2	23.2	5.00	15.5	5.67	1	504	1.5	0.79	1.06	0.30	0.32	628	<1
40387197		0.33	23.7	30.2	6.49	29.6	7.29	1	483	1.7	0.98	1.63	0.37	0.56	605	3
40387198		0.31	23.2	31.0	6.73	26.1	7.35	1	515	3.0	0.97	1.78	0.36	0.58	560	<1
40387199		0.42	27.2	40.0	8.63	26.7	8.97	1	498	1.8	1.23	2.35	0.47	0.82	528	1
40387200		0.41	26.6	38.6	8.87	25.8	8.86	1	490	1.7	1.21	2.33	0.47	0.81	514	1
40387201		0.45	26.4	39.9	8.63	27.0	8.75	1	455	1.7	1.19	2.51	0.44	0.85	494	<1
40387202		0.43	26.1	40.9	9.23	30.3	9.13	1	444	1.8	1.27	3.21	0.47	1.13	473	1
40387203		0.33	9.2	29.8	7.76	76.7	5.44	2	138.0	0.7	0.58	7.16	0.27	3.89	114	2
40387204		0.27	7.9	22.6	5.71	85.2	4.46	3	108.5	0.7	0.56	5.91	0.31	2.81	99	1
40387205		0.31	8.7	20.3	5.42	93.5	3.99	2	113.0	0.7	0.49	6.69	0.26	2.97	104	1
40387206		0.32	9.6	21.4	5.30	93.1	4.30	2	95.8	0.7	0.65	6.96	0.33	4.39	128	2
40387207		0.36	9.5	24.7	6.26	97.9	4.93	2	102.5	0.7	0.64	7.33	0.31	6.08	131	1
40387208		0.38	9.0	19.2	4.08	67.6	4.77	1	339	0.7	0.88	1.39	0.42	0.47	310	1
40387209		0.39	9.0	19.1	4.21	39.5	4.84	1	286	0.6	0.84	1.35	0.43	0.48	306	<1
40387210		0.46	13.2	34.7	7.91	78.9	7.56	2	521	0.9	1.07	3.05	0.50	1.43	168	<1
40387211		0.28	8.3	19.7	5.29	87.6	3.93	1	187.0	0.6	0.48	6.53	0.29	2.76	96	1
40387212		0.37	10.7	24.5	6.13	112.0	5.08	2	73.0	0.8	0.67	7.79	0.38	6.92	154	2
40387213		0.34	10.3	28.8	7.58	107.5	5.29	1	135.5	0.7	0.63	8.22	0.32	3.72	121	1
40387214		0.28	8.4	21.6	5.55	80.9	4.46	1	140.0	0.8	0.53	6.43	0.31	2.76	98	1
40387215		0.67	21.8	40.8	9.22	47.2	9.53	2	224	1.5	1.44	4.12	0.64	1.43	316	1
40387216		0.65	20.6	38.3	8.82	51.0	8.96	2	260	1.5	1.43	3.85	0.65	1.47	297	1
40387217		0.44	15.5	33.7	8.10	89.9	7.48	2	417	1.1	0.99	5.30	0.47	2.64	220	1
40387218		0.59	19.8	36.8	8.38	57.9	8.53	2	310	1.4	1.37	3.70	0.61	1.29	289	8
40387219		0.61	20.4	38.7	8.93	57.6	9.14	2	312	1.4	1.35	3.81	0.68	1.34	291	1



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**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387180		35.1	3.37	274	0.6	0.03	0.010	0.035	0.001	<0.05	0.2	<0.01	0.38	0.05	0.08	17.7
40387181		10.0	1.02	56	62.1	0.39	0.006	0.045	0.009	0.30	2.2	0.15	0.49	1.25	0.40	97.7
40387182		6.2	0.59	35	180.5	1.78	0.007	0.029	0.006	0.54	3.1	0.30	0.38	1.43	0.39	94.5
40387183		6.0	0.56	35	3.7	0.37	0.005	0.051	0.009	0.23	2.4	0.18	0.64	1.78	0.63	107.5
40387184		7.7	0.72	51	10.7	0.21	0.007	0.024	0.004	0.26	1.1	0.09	0.58	0.57	0.20	67.5
40387185		7.4	0.67	49	10.1	0.18	0.007	0.021	0.004	0.28	0.9	0.07	0.60	0.71	0.21	55.2
40387186		6.3	0.73	37	3.2	0.18	0.014	0.028	0.005	0.12	1.3	0.06	0.82	0.76	0.29	71.2
40387187		6.8	0.75	43	3.2	0.15	0.014	0.026	0.007	0.06	1.0	0.02	0.39	0.55	0.31	80.5
40387188		9.8	1.11	55	5.2	0.24	<0.005	0.039	0.011	0.09	1.9	0.04	0.44	0.87	0.44	108.5
40387189		13.2	1.41	77	5.6	0.15	0.007	0.022	0.006	0.06	0.7	0.01	0.36	0.46	0.29	79.2
40387190		17.5	1.65	102	6.1	0.41	0.008	0.048	0.007	0.27	2.6	0.16	0.33	1.60	0.46	99.4
40387191		13.9	1.23	78	1.9	0.10	0.010	0.019	0.002	0.06	0.4	0.02	0.59	0.32	0.18	64.2
40387192		8.6	0.78	47	6.7	0.11	<0.005	0.012	0.003	0.11	1.2	0.04	0.32	0.28	0.20	84.7
40387193		15.1	1.32	94	3.8	0.07	<0.005	0.016	0.001	0.07	0.7	0.01	0.39	0.26	0.13	74.2
40387194		18.5	1.62	154	0.4	0.03	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.14	0.13	0.13	64.9
40387195		19.6	1.75	107	1.9	0.02	0.024	0.029	<0.001	0.17	0.7	<0.01	0.72	0.14	0.20	72.5
40387196		20.6	1.66	109	0.3	0.02	0.012	0.016	<0.001	<0.05	0.3	0.01	0.34	0.13	0.17	68.9
40387197		25.6	2.13	152	1.8	0.03	0.006	0.019	<0.001	0.05	0.3	0.02	0.13	0.13	0.16	68.1
40387198		26.6	2.33	151	2.0	0.03	0.007	0.018	<0.001	0.06	0.5	<0.01	0.13	0.15	0.17	65.7
40387199		33.0	2.88	207	1.1	0.04	<0.005	0.020	0.001	0.08	0.4	0.02	0.13	0.16	0.21	57.8
40387200		33.0	2.87	181	1.2	0.04	0.007	0.018	<0.001	0.09	0.8	0.01	0.15	0.14	0.21	59.0
40387201		33.4	2.85	214	1.9	0.03	0.005	0.020	0.001	0.11	0.4	0.01	0.19	0.13	0.24	56.4
40387202		34.0	3.03	248	1.9	0.03	0.006	0.028	0.001	0.29	0.5	0.01	0.15	0.15	0.28	55.0
40387203		18.8	2.14	182	1.4	0.01	0.011	0.023	<0.001	0.17	0.2	<0.01	0.05	0.02	0.05	15.7
40387204		17.8	2.02	169	2.5	0.02	0.010	0.074	0.001	0.19	0.2	0.02	0.08	0.05	0.04	16.6
40387205		16.6	1.94	204	1.6	0.01	<0.005	0.043	<0.001	0.20	0.4	0.02	0.06	0.02	0.05	14.9
40387206		19.6	2.14	179	3.2	0.03	0.009	0.025	0.001	0.24	0.3	0.01	0.14	0.06	0.07	18.0
40387207		21.0	2.39	192	2.5	0.05	0.005	0.030	0.002	0.20	0.5	0.02	0.12	0.22	0.27	18.4
40387208		27.2	2.68	140	0.8	0.02	0.006	0.027	0.001	0.28	<0.2	<0.01	0.14	0.11	0.17	54.3
40387209		27.4	2.75	139	4.8	0.03	0.008	0.025	0.001	0.21	0.6	0.02	0.26	0.10	0.22	55.6
40387210		33.4	3.43	262	0.5	0.01	<0.005	0.027	<0.001	0.05	0.3	0.03	0.31	0.05	0.08	24.2
40387211		15.7	1.87	202	1.6	0.06	<0.005	0.019	<0.001	0.11	0.3	0.01	0.05	0.02	0.03	13.2
40387212		23.8	2.36	161	4.8	0.09	<0.005	0.036	0.003	0.15	0.3	0.02	0.14	0.07	0.34	21.4
40387213		20.0	2.42	194	1.2	0.01	<0.005	0.025	<0.001	0.11	<0.2	<0.01	0.07	0.01	0.03	15.8
40387214		17.8	1.92	178	1.5	0.01	0.006	0.025	<0.001	0.12	0.2	0.02	0.04	0.01	0.02	13.6
40387215		45.3	4.60	301	2.5	0.04	<0.005	0.044	0.001	0.14	0.6	0.01	0.24	0.15	0.22	53.5
40387216		43.1	4.02	288	5.2	0.03	0.007	0.033	0.001	0.22	0.2	0.01	0.33	0.12	0.21	52.6
40387217		31.7	3.18	219	9.0	0.02	<0.005	0.030	0.001	0.16	0.2	0.01	0.38	0.07	0.09	37.7
40387218		42.2	4.03	273	2.8	0.02	0.005	0.023	<0.001	0.07	0.2	0.01	0.34	0.14	0.16	47.0
40387219		43.3	4.17	289	13.6	0.02	<0.005	0.023	0.001	0.06	0.4	0.01	0.39	0.13	0.17	49.2





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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40387180		32.9	17.6	1.03	18.0	11.4	18.8	95	<0.001	0.0006	0.001
40387181		3150	22.4	2.17	1715	2.3	13.0	99	0.051	0.1080	0.479
40387182		2970	27.1	2.16	1730	2.0	8.6	122	0.046	0.1450	0.443
40387183		4800	22.8	2.14	2240	2.6	9.3	118	0.032	0.1140	0.568
40387184		1390	36.2	1.47	720	2.2	12.9	105	0.011	0.0317	0.151
40387185		1585	29.6	1.61	760	2.3	12.0	92	0.010	0.0388	0.180
40387186		2200	17.8	0.69	959	2.5	14.8	79	0.017	0.0376	0.196
40387187		1470	17.8	1.15	738	3.1	14.3	93	0.013	0.0256	0.114
40387188		2620	15.0	2.26	1170	4.8	18.3	103	0.019	0.0390	0.182
40387189		1160	21.3	3.22	581	4.5	21.9	110	0.009	0.0207	0.083
40387190		4040	21.8	5.28	2030	8.0	18.5	116	0.071	0.1280	0.775
40387191		866	14.1	1.55	435	4.7	22.6	103	0.007	0.0123	0.059
40387192		752	18.6	3.13	272	3.3	29.6	111	0.009	0.0106	0.046
40387193		531	9.5	1.93	186.0	3.8	27.7	129	0.006	0.0060	0.028
40387194		255	8.9	0.90	101.0	3.1	25.8	144	0.004	0.0031	0.014
40387195		256	24.7	0.95	122.5	2.2	29.0	166	0.003	0.0032	0.015
40387196		270	9.3	0.90	108.5	2.6	28.6	158	0.003	0.0027	0.013
40387197		284	11.9	1.22	108.5	3.0	27.9	174	0.003	0.0026	0.011
40387198		280	12.2	1.25	117.0	4.4	26.3	170	0.003	0.0023	0.011
40387199		299	12.9	1.51	74.7	5.0	28.5	174	0.003	0.0023	0.010
40387200		301	12.5	1.54	75.5	4.8	28.6	171	0.002	0.0024	0.010
40387201		283	14.1	1.78	73.1	4.7	27.2	167	0.003	0.0024	0.011
40387202		255	19.9	1.80	72.0	7.5	27.4	181	0.003	0.0023	0.011
40387203		12.4	45.8	2.93	55.0	7.6	16.1	66	<0.001	0.0011	0.002
40387204		28.2	53.2	1.80	53.6	14.8	14.9	74	<0.001	0.0008	0.001
40387205		35.0	51.4	1.40	49.3	9.7	16.3	60	<0.001	0.0009	0.001
40387206		31.8	57.4	4.85	66.5	10.1	18.8	87	<0.001	0.0012	0.002
40387207		97.2	56.3	6.68	69.5	40.4	18.8	117	<0.001	0.0013	0.002
40387208		191.0	34.3	0.76	107.0	5.5	32.9	135	<0.001	0.0054	0.006
40387209		211	23.6	0.72	107.5	7.2	32.1	124	0.001	0.0055	0.006
40387210		49.4	15.8	0.91	29.9	10.0	20.7	98	<0.001	0.0018	0.002
40387211		15.3	52.5	1.06	51.7	9.4	13.4	58	<0.001	0.0009	0.001
40387212		76.5	60.7	6.86	81.5	13.7	19.6	139	<0.001	0.0016	0.002
40387213		10.2	57.6	1.15	60.3	10.1	16.9	70	<0.001	0.0010	0.001
40387214		23.7	52.8	1.26	51.9	4.9	13.9	69	<0.001	0.0009	0.001
40387215		288	42.5	2.06	98.2	9.3	31.0	169	0.001	0.0036	0.003
40387216		295	37.2	1.76	99.5	9.2	30.0	179	0.001	0.0043	0.003
40387217		160.5	52.5	2.40	92.3	9.3	24.0	127	0.002	0.0032	0.003
40387218		291	26.9	1.65	96.6	5.1	32.5	151	0.002	0.0051	0.004
40387219		313	27.1	1.64	100.5	5.8	32.6	156	0.002	0.0047	0.003





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**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06	
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	
40387220		0.17	44.0	17.95	12.05	9.42	7.48	2.03	1.04	0.344	1.34	0.14	0.16	0.05	0.04	98.06
40387221		5.49	46.3	13.85	15.95	8.18	5.75	2.26	1.56	0.021	3.38	0.20	0.44	0.04	0.07	99.64



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**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	LOI	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Units		%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387220		2.02	0.03	0.33	341	27.5	2560	2.52	3.63	2.07	1.17	20.1	3.33	2.5	0.68	12.4
40387221		1.64	0.01	0.06	643	62.5	140	4.74	7.88	4.58	2.18	23.5	8.33	6.6	1.57	27.3

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



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**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5	W ppm 1
40387220		0.28	7.7	16.1	3.62	34.6	3.89	2	397	0.6	0.61	1.18	0.25	0.32	196	<1
40387221		0.57	19.9	36.7	8.25	64.9	8.46	2	320	1.5	1.26	3.57	0.58	1.32	291	1



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 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387220		18.9	1.90	104	4.2	0.13	0.010	0.029	0.003	0.33	0.9	0.05	0.48	0.48	0.24	62.6
40387221		40.9	4.11	271	4.4	0.02	0.005	0.029	0.001	0.08	0.4	<0.01	0.34	0.12	0.18	47.8

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



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Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40387220		1110	36.7	2.70	680	5.7	18.6	106	0.031	0.0460	0.219
40387221		329	29.4	1.55	104.0	5.1	32.3	156	0.002	0.0054	0.004

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





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 Account: RTECIKBZ

Project: EB80001448

**CERTIFICATE OF ANALYSIS TB18186740**

	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">C-IR07</td> <td style="width: 25%;">ME-ICP06</td> <td style="width: 25%;">ME-MS42</td> <td style="width: 25%;">ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06			
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-MS24	S-IR08										
TOT-ICP06													



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 7-SEP-2018  
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**CERTIFICATE TB18192062**

Project: EB80001449  
 P.O. No.: 3103290934  
 This report is for 150 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 7-AUG-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
--	-----------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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 \*\*\*\*\*

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 29-AUG-2018  
 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40388000		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40388001		2.10	56.8	17.95	7.82	6.59	2.82	3.60	2.29	0.005	1.02	0.12	0.37	0.07	0.11	100.08
40388002		5.99	48.9	15.15	11.75	11.15	6.08	2.33	0.89	0.042	1.34	0.20	0.15	0.03	0.03	100.28
40388003		3.35	50.1	16.95	13.35	5.85	6.14	2.41	1.33	0.046	2.45	0.13	0.10	0.04	0.03	100.93
40388004		4.13	51.1	16.70	12.65	6.33	6.19	2.40	0.94	0.045	1.77	0.12	0.09	0.04	0.03	100.26
40388005		2.42	49.9	21.3	8.50	8.76	4.91	2.33	1.13	0.027	0.64	0.08	0.05	0.04	0.02	100.52
40388006		2.37	53.6	15.70	12.40	5.28	7.61	1.93	1.26	0.084	0.69	0.12	0.11	0.03	0.02	101.55
40388007		2.97	53.0	15.30	12.45	5.38	7.94	1.96	1.07	0.085	0.71	0.12	0.15	0.03	0.03	100.72
40388008		3.24	50.9	13.85	14.95	5.67	8.99	1.72	0.89	0.093	0.86	0.15	0.17	0.03	0.02	100.20
40388009		3.13	46.7	20.3	9.37	9.63	5.94	2.37	0.93	0.029	0.67	0.10	0.08	0.04	0.02	99.51
40388010		3.12	47.0	20.3	9.92	10.25	6.96	2.37	0.59	0.024	0.72	0.11	0.09	0.04	0.02	101.29
40388011		0.17	44.1	18.25	14.05	9.58	7.63	2.12	0.64	0.328	1.30	0.15	0.15	0.04	0.02	99.96
40388012		3.14	47.2	15.80	15.85	7.43	6.89	2.54	0.53	0.049	1.33	0.15	0.24	0.03	0.01	100.11
40388013		3.05	44.2	21.1	10.85	10.45	5.95	2.24	0.43	0.032	0.58	0.09	0.07	0.04	0.01	99.32
40388014		3.15	45.3	21.7	9.35	11.10	6.66	2.20	0.37	0.029	0.55	0.10	0.06	0.04	0.01	99.72
40388015		3.10	44.8	19.20	10.45	10.25	8.68	2.01	0.27	0.062	0.77	0.12	0.07	0.03	0.01	99.88
40388016		3.03	43.5	21.0	9.79	11.05	7.48	1.82	0.32	0.192	0.62	0.10	0.06	0.04	0.01	99.30
40388017		3.10	44.8	21.5	8.84	11.50	6.73	2.00	0.31	0.255	0.79	0.10	0.09	0.04	0.01	100.33
40388018		1.79	46.4	20.8	9.06	11.20	7.81	2.13	0.28	0.071	1.00	0.11	0.12	0.04	0.01	101.08
40388019		1.61	44.0	21.1	9.71	11.40	8.17	1.65	0.24	0.045	0.61	0.11	0.08	0.04	0.01	100.07
40388020		1.37	45.3	20.3	9.76	11.15	6.48	2.58	0.39	0.113	1.21	0.12	0.10	0.04	0.01	99.40
40388021		1.32	44.3	20.2	9.83	11.05	6.35	2.43	0.37	0.138	1.35	0.12	0.09	0.04	0.01	98.15
40388022		3.21	46.7	17.20	11.70	10.55	7.58	2.79	0.39	0.037	1.66	0.15	0.10	0.03	0.01	99.62
40388023		3.23	45.9	19.15	11.40	10.35	8.45	2.53	0.33	0.047	1.17	0.14	0.12	0.04	0.01	100.26
40388024		6.29	44.6	20.3	9.40	10.75	8.09	2.34	0.27	0.054	0.95	0.12	0.10	0.04	0.01	98.20
40388025		5.99	44.8	20.6	9.61	10.85	8.40	2.24	0.28	0.052	0.86	0.12	0.10	0.04	0.01	99.03
40388026		4.82	47.5	18.10	12.25	10.70	6.90	2.75	0.54	0.038	1.45	0.16	0.24	0.03	0.02	101.53
40388027		4.05	47.6	14.60	14.50	10.50	6.17	2.78	0.62	0.036	2.44	0.20	0.24	0.03	0.03	100.51
40388028		3.76	47.0	14.15	14.35	9.64	5.64	2.85	0.61	0.031	2.21	0.19	0.27	0.03	0.03	98.29
40388029		6.38	48.1	14.15	14.95	9.84	5.87	2.72	0.57	0.031	2.61	0.21	0.22	0.03	0.02	99.92
40388030		6.42	48.0	14.80	15.00	9.86	5.93	2.74	0.50	0.026	2.63	0.20	0.20	0.03	0.02	100.90
40388031		2.35	59.1	18.35	6.85	6.03	2.43	3.83	2.39	0.003	0.83	0.11	0.24	0.07	0.10	100.62
40388032		6.68	47.2	14.50	14.05	9.87	5.98	2.65	0.51	0.030	2.30	0.19	0.19	0.03	0.02	98.12
40388033		6.55	48.9	15.25	13.30	10.40	6.12	2.75	0.53	0.037	2.15	0.19	0.20	0.03	0.02	100.57
40388034		6.65	48.4	15.95	14.25	9.97	6.08	2.98	0.63	0.026	2.06	0.18	0.22	0.03	0.02	101.51
40388035		6.38	50.1	15.70	13.20	10.05	5.95	2.89	0.65	0.033	1.88	0.19	0.25	0.03	0.03	101.79
40388036		6.46	49.5	15.35	12.95	9.63	5.58	2.83	0.64	0.029	2.07	0.18	0.26	0.03	0.03	100.11
40388037		6.32	48.4	15.40	13.50	9.76	5.88	2.78	0.60	0.030	2.33	0.19	0.23	0.03	0.03	99.99
40388038		6.41	48.7	15.20	13.30	10.15	6.05	2.79	0.58	0.038	2.22	0.19	0.22	0.03	0.06	100.26
40388039		6.47	49.4	15.80	14.10	9.59	5.57	2.94	0.63	0.026	2.36	0.20	0.28	0.03	0.04	101.90
40388039		6.41	49.5	15.40	13.30	10.50	5.70	2.84	0.59	0.041	2.38	0.19	0.24	0.03	0.03	101.88

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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



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Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40388000		0.51	0.07	0.10	1010	75.9	40	1.23	6.16	3.25	1.95	21.8	7.31	6.1	1.28	34.5
40388001		2.24	0.05	0.11	248	32.4	310	1.77	3.87	2.26	1.42	20.4	4.22	2.8	0.84	14.5
40388002		2.00	0.02	0.32	284	29.2	330	3.46	2.25	1.35	1.63	22.0	2.34	2.1	0.48	14.2
40388003		1.85	0.03	0.38	235	29.4	310	3.08	2.21	1.39	1.34	19.3	2.55	2.3	0.44	14.5
40388004		2.83	0.03	0.44	198.5	19.7	180	2.66	1.46	0.84	0.90	18.4	1.55	1.5	0.30	9.5
40388005		2.72	0.03	0.33	223	38.0	590	4.67	2.92	1.51	1.20	18.4	2.71	2.6	0.56	18.1
40388006		2.49	0.02	0.30	222	40.7	650	3.70	3.62	2.32	1.44	19.8	3.94	3.2	0.71	19.3
40388007		1.91	0.03	0.29	173.0	39.6	720	3.52	4.13	2.52	1.32	19.7	4.26	3.5	0.88	18.3
40388008		3.33	0.03	0.21	195.0	22.1	240	2.44	2.35	1.34	1.19	22.9	2.64	2.1	0.49	10.6
40388009		2.90	0.03	0.31	135.0	17.2	190	2.47	2.10	1.22	0.93	20.6	1.97	1.7	0.42	14.1
40388010		1.60	0.04	0.92	160.0	26.3	2670	2.75	3.40	1.91	1.21	22.9	3.70	2.8	0.69	11.6
40388011		2.06	0.02	0.18	138.0	54.7	430	2.18	5.89	3.49	1.77	24.2	6.70	5.0	1.25	25.4
40388012		3.28	0.02	0.83	105.5	12.8	250	2.44	1.40	0.91	0.92	20.9	1.65	1.1	0.31	5.9
40388013		2.25	0.03	0.38	98.0	10.8	230	1.89	1.42	0.82	0.90	20.0	1.70	1.1	0.28	5.0
40388014		3.16	0.03	0.17	82.4	14.4	470	2.22	2.23	1.06	0.86	18.8	2.05	1.5	0.42	6.7
40388015		3.32	0.03	0.39	98.7	11.6	1410	2.42	1.39	0.74	0.72	18.7	1.70	1.1	0.32	5.2
40388016		3.36	0.03	0.28	106.5	17.7	1930	2.36	2.33	1.25	1.01	20.6	2.54	1.8	0.45	8.1
40388017		2.05	0.02	0.10	105.5	22.9	520	1.90	2.91	1.52	1.06	20.0	3.16	2.0	0.60	10.5
40388018		2.90	0.02	0.53	81.5	13.7	330	2.31	1.84	0.86	0.81	17.5	1.97	1.3	0.35	6.1
40388019		1.85	0.03	0.02	133.0	19.2	870	1.57	2.61	1.32	1.09	21.1	2.85	2.0	0.54	8.6
40388020		1.87	0.02	0.02	122.0	17.8	1150	1.92	2.53	1.52	0.97	20.9	2.48	2.0	0.50	8.0
40388021		0.72	0.02	0.02	136.5	19.5	290	0.94	2.95	1.85	1.23	20.8	3.07	2.1	0.64	8.9
40388022		0.62	0.02	0.02	141.0	22.7	390	1.19	3.14	1.73	1.14	21.7	3.26	2.3	0.63	10.0
40388023		1.18	0.02	0.01	114.0	19.4	440	0.88	2.80	1.43	0.97	20.2	2.86	2.0	0.59	8.8
40388024		1.07	0.02	0.02	114.5	19.6	440	0.96	2.63	1.36	1.06	19.7	2.56	2.0	0.52	8.6
40388025		0.85	0.01	0.04	178.0	36.8	300	0.96	4.70	2.56	1.53	23.5	4.90	3.7	1.03	16.5
40388026		0.76	0.01	0.06	225	46.3	280	0.72	6.51	3.34	1.81	24.6	6.46	4.7	1.30	20.3
40388027		1.29	0.01	0.14	247	48.4	260	0.92	7.13	3.73	2.06	25.5	6.91	5.0	1.39	21.7
40388028		0.60	0.01	0.06	212	41.4	230	0.69	5.80	3.27	1.81	24.1	6.06	4.3	1.23	18.5
40388029		0.96	0.02	0.10	195.0	35.8	190	0.86	4.99	2.91	1.60	23.1	5.42	4.0	1.09	15.6
40388030		0.29	0.04	0.09	900	73.9	30	1.29	6.02	3.35	1.55	23.9	7.18	7.8	1.16	32.4
40388031		0.60	0.01	0.04	194.0	35.8	230	0.63	5.02	2.72	1.70	22.1	5.22	3.9	1.07	16.0
40388032		0.69	0.03	0.04	195.5	36.2	270	0.70	5.10	2.77	1.65	22.4	5.46	3.8	1.05	15.9
40388033		0.71	0.01	0.04	220	40.6	190	0.70	5.81	2.95	1.75	23.5	5.87	4.2	1.10	18.4
40388034		0.84	0.01	0.03	237	46.3	250	0.76	5.96	3.12	1.77	24.5	6.10	4.7	1.25	20.4
40388035		1.03	0.02	0.06	259	51.0	200	0.81	6.51	3.59	1.95	23.6	6.45	5.0	1.32	23.2
40388036		0.83	0.02	0.05	243	46.0	200	0.75	5.88	3.35	1.71	23.2	6.84	4.5	1.23	20.6
40388037		0.73	0.01	0.04	500	40.2	280	0.58	5.81	3.03	1.89	23.0	6.08	4.3	1.17	17.6
40388038		0.93	0.01	0.04	345	45.8	180	0.74	5.85	3.35	1.77	24.1	6.01	4.8	1.18	20.6
40388039		1.14	0.02	0.04	232	42.8	290	0.72	6.02	3.59	1.91	23.5	5.65	4.5	1.19	18.7

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - C  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40388000		0.48	12.0	41.2	10.15	90.1	8.80	2	528	0.6	1.05	4.54	0.48	1.57	132	1
40388001		0.29	7.4	17.8	4.31	30.9	4.45	1	253	0.5	0.64	2.02	0.29	1.13	254	1
40388002		0.21	9.3	13.6	3.70	47.0	2.66	1	339	0.7	0.40	2.49	0.22	1.45	502	1
40388003		0.19	7.3	14.6	3.60	36.2	3.14	1	268	0.5	0.37	2.55	0.21	1.48	282	1
40388004		0.10	3.8	10.0	2.44	40.6	2.11	1	316	0.2	0.25	1.68	0.12	0.80	80	1
40388005		0.26	6.0	18.0	4.69	51.1	3.95	1	237	0.4	0.46	3.27	0.26	1.73	298	1
40388006		0.34	7.2	20.9	5.10	45.6	4.67	1	240	0.5	0.64	3.24	0.32	1.49	306	1
40388007		0.38	7.7	19.8	4.94	37.2	4.91	1	197.5	0.5	0.72	2.68	0.35	1.22	338	1
40388008		0.21	5.2	11.9	2.79	34.5	2.80	1	377	0.3	0.42	1.46	0.18	0.61	130	1
40388009		0.17	4.3	9.3	2.25	19.9	2.23	1	340	0.3	0.35	1.03	0.15	0.41	111	1
40388010		0.26	7.9	15.1	3.32	23.0	3.42	2	366	0.5	0.58	1.17	0.25	0.24	173	1
40388011		0.50	13.8	30.1	7.01	19.6	6.46	1	258	0.8	1.04	3.42	0.45	1.30	297	3
40388012		0.11	3.3	7.5	1.62	13.7	1.63	2	317	0.2	0.24	0.58	0.11	0.18	92	<1
40388013		0.11	2.9	5.8	1.43	11.7	1.55	1	349	0.2	0.23	0.46	0.12	0.11	87	<1
40388014		0.16	4.1	7.8	1.93	8.1	2.04	1	291	0.2	0.35	0.66	0.12	0.18	108	1
40388015		0.10	3.2	6.4	1.53	10.2	1.50	1	310	0.2	0.25	0.51	0.13	0.31	102	1
40388016		0.18	5.0	10.6	2.40	9.5	2.50	<1	322	0.2	0.37	0.89	0.17	0.22	125	1
40388017		0.21	6.4	12.6	2.93	8.0	3.29	1	312	0.4	0.50	1.06	0.22	0.36	105	1
40388018		0.13	3.6	7.4	1.72	6.1	1.74	1	279	0.2	0.31	0.51	0.13	0.14	80	<1
40388019		0.22	5.6	11.0	2.38	10.2	2.69	1	309	0.3	0.44	0.82	0.20	0.20	161	<1
40388020		0.20	6.3	10.9	2.36	10.1	2.73	1	303	0.4	0.43	0.80	0.19	0.20	173	<1
40388021		0.24	6.4	11.9	2.56	9.7	2.80	1	277	0.4	0.55	0.85	0.24	0.22	248	<1
40388022		0.22	6.5	13.2	2.92	8.2	2.85	1	297	0.4	0.55	1.03	0.21	0.24	164	<1
40388023		0.20	5.8	11.1	2.48	6.5	2.71	1	312	0.3	0.41	0.77	0.21	0.20	129	<1
40388024		0.18	5.4	11.0	2.38	7.3	2.63	1	307	0.3	0.47	0.88	0.21	0.22	115	<1
40388025		0.36	9.6	21.8	4.84	14.5	5.10	1	273	0.5	0.84	1.82	0.35	0.55	217	1
40388026		0.48	13.1	26.4	5.93	15.3	6.50	1	241	0.8	1.06	2.28	0.48	0.62	378	1
40388027		0.53	14.3	28.7	6.41	18.2	6.90	2	237	0.8	1.16	2.63	0.49	0.79	337	1
40388028		0.43	12.5	23.7	5.46	15.3	5.50	2	235	0.8	0.97	1.98	0.46	0.53	402	1
40388029		0.43	10.9	20.4	4.70	13.1	4.78	1	236	0.7	0.88	1.68	0.39	0.47	401	1
40388030		0.45	13.4	38.5	9.15	99.4	7.93	2	574	0.7	1.06	5.85	0.42	1.67	129	1
40388031		0.41	11.4	20.4	4.76	12.8	4.86	1	233	0.7	0.79	1.81	0.41	0.59	358	1
40388032		0.36	10.4	21.3	4.75	13.1	4.93	1	234	0.6	0.88	1.68	0.38	0.53	330	1
40388033		0.41	11.6	23.1	5.32	14.4	5.61	2	241	0.7	0.91	1.99	0.45	0.57	287	1
40388034		0.50	12.4	25.6	6.03	16.7	5.84	2	246	0.8	1.05	2.29	0.51	0.66	275	1
40388035		0.49	13.3	30.0	6.52	17.4	7.02	2	244	0.9	1.15	2.61	0.48	0.80	217	1
40388036		0.48	13.4	26.0	6.07	15.3	6.05	2	246	0.8	0.96	2.23	0.49	0.59	281	1
40388037		0.45	12.1	22.8	5.31	15.0	5.04	1	244	0.7	0.94	2.00	0.45	0.57	299	1
40388038		0.49	13.5	26.7	6.06	16.0	6.23	2	251	0.9	1.13	2.33	0.49	0.56	269	<1
40388039		0.46	13.0	24.8	5.76	15.1	5.70	1	247	0.8	0.97	2.02	0.50	0.57	295	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
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 THUNDER BAY ON P7E 4X4

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 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTECIKZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388000		35.5	3.14	243	0.4	0.02	<0.005	0.039	0.001	<0.05	0.2	0.01	0.35	0.05	0.08	20.2
40388001		22.2	1.86	99	6.9	0.03	<0.005	0.021	0.002	0.22	0.7	0.01	0.15	0.16	0.61	50.3
40388002		13.7	1.29	77	6.4	0.03	<0.005	0.018	0.003	0.17	0.4	0.01	0.29	0.14	0.19	54.1
40388003		13.2	1.45	83	5.1	0.03	<0.005	0.027	0.003	0.12	0.9	0.02	0.28	0.17	0.24	59.1
40388004		8.5	0.94	52	1.5	0.04	<0.005	0.037	0.004	0.11	1.3	0.05	0.34	0.35	0.34	52.8
40388005		16.7	1.82	102	1.3	0.05	<0.005	0.040	0.004	0.14	1.0	0.04	0.37	0.24	0.27	60.9
40388006		21.6	2.23	124	1.1	0.03	<0.005	0.031	0.003	0.09	0.9	0.03	0.29	0.19	0.22	60.6
40388007		24.6	2.47	131	0.8	0.05	<0.005	0.029	0.004	0.10	0.9	0.06	0.27	0.41	0.29	74.2
40388008		13.8	1.39	85	43.6	0.04	<0.005	0.022	0.002	0.55	0.8	0.04	0.13	0.18	0.19	55.4
40388009		11.9	1.15	65	159.5	0.15	<0.005	0.039	0.004	1.28	2.4	0.11	0.12	0.42	0.42	71.4
40388010		19.4	1.76	110	7.4	0.55	0.011	0.056	0.008	0.27	3.7	0.18	0.34	1.52	0.50	97.5
40388011		36.2	3.16	195	193.0	0.11	<0.005	0.030	0.004	1.17	0.8	0.06	0.13	0.21	0.23	93.0
40388012		9.0	0.83	49	>250	0.15	<0.005	0.046	0.004	1.73	2.7	0.13	0.11	0.55	0.45	106.5
40388013		7.9	0.70	47	17.0	0.11	<0.005	0.036	0.004	0.20	2.0	0.09	0.05	0.63	0.56	79.3
40388014		11.4	0.97	59	12.4	0.04	<0.005	0.021	0.001	0.17	1.3	0.04	0.05	0.31	0.22	66.6
40388015		8.3	0.86	43	10.1	0.11	<0.005	0.048	0.007	0.20	2.8	0.17	0.05	0.86	0.56	82.2
40388016		13.0	1.19	77	5.7	0.11	<0.005	0.041	0.005	0.21	2.1	0.15	0.05	0.66	0.40	64.8
40388017		16.3	1.59	82	4.9	0.07	<0.005	0.020	0.001	0.14	0.9	0.06	0.05	0.27	0.14	53.9
40388018		10.1	0.95	52	5.9	0.28	<0.005	0.038	0.007	0.34	4.1	0.28	0.07	1.16	0.36	72.0
40388019		14.9	1.26	78	18.2	0.03	<0.005	0.015	0.001	0.09	0.3	0.02	0.04	0.05	0.08	45.4
40388020		14.0	1.43	79	21.9	0.03	<0.005	0.016	0.001	0.11	0.4	0.01	0.04	0.06	0.06	44.7
40388021		17.4	1.60	87	18.7	0.06	<0.005	0.015	0.001	0.07	0.3	0.01	0.03	0.08	0.09	52.9
40388022		17.3	1.58	92	23.2	0.04	<0.005	0.016	0.001	0.12	0.3	0.01	0.04	0.05	0.07	54.5
40388023		15.0	1.30	79	23.2	0.02	<0.005	0.015	0.001	0.09	0.3	0.01	0.03	0.04	0.05	49.6
40388024		14.8	1.45	80	23.6	0.02	<0.005	0.016	<0.001	0.12	0.4	0.02	0.04	0.04	0.08	49.7
40388025		27.7	2.65	143	10.8	0.02	<0.005	0.023	0.001	0.08	0.4	0.01	0.04	0.04	0.10	46.5
40388026		35.5	3.36	190	2.7	0.03	<0.005	0.028	0.001	<0.05	0.3	0.01	0.05	0.07	0.17	46.2
40388027		37.5	3.70	198	5.4	0.08	<0.005	0.034	0.001	0.05	0.6	0.02	0.07	0.09	0.21	44.8
40388028		32.4	3.08	172	2.1	0.02	<0.005	0.029	0.001	<0.05	0.4	0.01	0.04	0.09	0.19	49.3
40388029		28.7	2.69	151	4.2	0.06	<0.005	0.032	0.002	<0.05	0.4	0.02	0.05	0.12	0.19	51.2
40388030		35.4	3.00	327	0.1	0.01	<0.005	0.034	0.001	<0.05	0.2	0.01	0.37	0.03	0.04	15.6
40388031		28.6	2.60	150	3.8	0.03	<0.005	0.023	0.001	<0.05	0.3	0.01	0.04	0.09	0.13	49.2
40388032		28.0	2.85	147	2.9	0.03	<0.005	0.024	0.001	<0.05	0.3	0.01	0.03	0.09	0.16	46.4
40388033		31.0	2.67	169	3.1	0.03	<0.005	0.029	0.001	<0.05	0.5	0.01	0.04	0.10	0.18	46.8
40388034		34.1	2.93	188	1.7	0.01	<0.005	0.025	0.001	<0.05	0.3	0.01	0.03	0.08	0.15	41.9
40388035		35.6	3.41	202	3.1	0.04	<0.005	0.029	0.001	<0.05	0.4	0.02	0.04	0.08	0.23	41.6
40388036		33.9	3.00	183	2.4	0.03	<0.005	0.029	0.001	<0.05	0.3	0.01	0.04	0.07	0.17	45.5
40388037		31.4	2.96	167	3.8	0.03	<0.005	0.024	0.001	<0.05	0.4	0.01	0.03	0.08	0.18	43.8
40388038		34.8	3.12	194	4.4	0.04	<0.005	0.031	0.001	<0.05	0.3	0.02	0.04	0.07	0.19	44.8
40388039		32.4	3.22	172	3.4	0.05	<0.005	0.028	0.001	<0.05	0.3	0.02	0.04	0.08	0.21	43.6

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40388000		19.3	19.7	1.11	20.4	12.0	17.5	103	<0.001	0.0007	0.002
40388001		312	31.0	2.15	149.0	25.6	30.7	187	0.004	0.0090	0.006
40388002		233	47.2	4.25	126.5	6.6	32.4	133	0.003	0.0042	0.005
40388003		422	30.6	2.16	267	8.8	25.0	124	0.009	0.0100	0.037
40388004		882	25.3	0.68	565	10.2	9.4	88	0.009	0.0262	0.063
40388005		469	42.3	3.03	346	9.0	28.5	137	0.009	0.0189	0.037
40388006		300	39.0	3.11	243	12.1	29.4	140	0.006	0.0056	0.007
40388007		532	29.4	3.02	415	7.4	37.9	151	0.009	0.0222	0.043
40388008		444	31.3	0.94	402	6.3	13.0	78	0.013	0.0238	0.061
40388009		1000	29.1	1.69	586	24.3	12.7	96	0.021	0.0268	0.069
40388010		4100	26.7	4.77	1995	10.1	18.2	114	0.077	0.1585	0.823
40388011		487	18.2	11.10	487	7.2	23.7	119	0.021	0.0226	0.034
40388012		1245	28.9	2.32	863	8.8	10.1	82	0.040	0.0219	0.049
40388013		1160	21.0	0.93	793	7.1	10.7	62	0.017	0.0199	0.040
40388014		562	18.1	0.71	549	4.7	13.9	68	0.015	0.0206	0.084
40388015		2550	20.1	0.81	1255	3.8	9.6	71	0.021	0.0560	0.327
40388016		2010	15.6	1.06	1120	4.6	12.1	69	0.041	0.0713	0.318
40388017		681	12.1	0.82	637	3.4	15.0	67	0.026	0.0562	0.245
40388018		3740	15.2	0.69	2240	4.1	11.0	76	0.120	0.210	0.663
40388019		158.0	10.4	0.67	189.5	2.1	16.6	80	0.004	0.0122	0.040
40388020		141.5	11.3	0.69	188.0	1.9	17.8	77	0.005	0.0139	0.036
40388021		191.0	6.9	0.68	159.5	1.7	33.9	86	0.003	0.0058	0.012
40388022		121.5	6.9	0.67	237	1.6	19.1	85	0.003	0.0056	0.007
40388023		91.6	6.0	0.54	281	1.5	15.9	72	0.002	0.0039	0.005
40388024		93.2	6.9	0.59	287	1.6	13.9	74	0.003	0.0040	0.005
40388025		155.0	9.3	0.90	151.0	2.5	23.7	99	0.003	0.0104	0.010
40388026		253	9.3	1.19	65.8	3.6	44.2	128	0.004	0.0088	0.009
40388027		227	9.9	1.30	59.9	3.2	41.7	141	0.005	0.0084	0.008
40388028		277	8.9	1.17	62.9	3.5	44.5	131	0.004	0.0093	0.008
40388029		293	9.0	0.99	65.9	2.5	41.0	138	0.004	0.0090	0.008
40388030		16.2	18.4	0.96	12.8	11.4	14.4	84	0.001	<0.0005	0.001
40388031		268	9.2	1.02	67.2	2.8	43.0	120	0.005	0.0089	0.009
40388032		266	8.6	1.00	68.4	2.6	39.1	119	0.005	0.0101	0.009
40388033		263	8.5	1.19	69.3	2.9	33.9	127	0.005	0.0115	0.010
40388034		230	8.3	1.20	65.3	3.9	33.6	119	0.005	0.0116	0.010
40388035		207	9.2	1.23	62.0	3.3	34.3	132	0.004	0.0102	0.010
40388036		244	8.7	1.15	69.1	2.9	35.2	127	0.005	0.0117	0.011
40388037		215	8.3	1.35	68.6	2.9	38.5	126	0.004	0.0100	0.010
40388038		244	8.9	1.48	65.8	3.0	32.8	137	0.004	0.0103	0.010
40388039		206	8.8	2.44	62.3	2.6	40.1	130	0.003	0.0104	0.010

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - A  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd WL	ME-ICP06 SiO2	ME-ICP06 Al2O3	ME-ICP06 Fe2O3	ME-ICP06 CaO	ME-ICP06 MgO	ME-ICP06 Na2O	ME-ICP06 K2O	ME-ICP06 Cr2O3	ME-ICP06 TiO2	ME-ICP06 MnO	ME-ICP06 P2O5	ME-ICP06 SrO	ME-ICP06 BaO	TOT-ICP06 Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40388040		0.17	45.7	18.75	11.80	9.42	7.41	2.14	1.08	0.350	1.35	0.15	0.16	0.05	0.04	100.37
40388041		6.59	48.1	15.45	13.60	10.05	5.42	2.82	0.57	0.031	2.35	0.19	0.24	0.03	0.02	99.44
40388042		6.50	48.5	15.50	13.35	10.80	5.54	2.75	0.53	0.040	2.39	0.19	0.20	0.03	0.02	100.61
40388043		6.37	48.7	15.45	13.50	9.78	4.95	2.99	0.64	0.029	2.16	0.18	0.30	0.03	0.03	99.63
40388044		6.33	46.6	14.70	14.10	10.15	5.17	2.79	0.52	0.026	3.10	0.19	0.22	0.03	0.02	98.44
40388045		6.48	47.6	15.65	13.05	10.65	5.61	2.72	0.50	0.039	2.48	0.17	0.20	0.03	0.02	99.27
40388046		5.33	49.0	16.25	13.25	9.94	5.36	2.95	0.63	0.037	1.88	0.18	0.26	0.03	0.03	100.57
40388047		3.75	49.2	14.25	13.90	9.40	4.32	3.31	0.76	0.013	2.96	0.20	0.40	0.03	0.03	99.91
40388048		3.85	48.9	13.40	14.55	9.73	5.10	3.14	0.87	0.022	2.45	0.21	0.36	0.03	0.03	99.68
40388049		3.05	47.8	13.30	15.30	9.01	4.67	3.10	0.82	0.017	3.14	0.21	0.34	0.03	0.03	98.61
40388050		2.70	47.1	12.75	16.55	9.15	5.21	2.92	0.71	0.019	3.35	0.22	0.33	0.03	0.03	99.23
40388051		6.50	48.4	13.45	14.55	9.82	5.80	2.87	0.58	0.022	2.77	0.20	0.25	0.03	0.03	99.72
40388052		6.52	49.4	14.00	14.05	9.96	5.42	2.99	0.67	0.029	2.32	0.19	0.29	0.03	0.03	100.30
40388053		6.55	49.2	13.40	14.25	10.35	6.34	2.80	0.60	0.042	2.30	0.20	0.29	0.03	0.03	100.73
40388054		4.30	49.3	15.20	11.85	9.38	4.15	3.44	0.81	0.024	2.32	0.17	0.37	0.03	0.03	98.42
40388055		2.20	47.9	14.90	13.15	10.10	6.76	2.65	0.49	0.042	1.72	0.18	0.18	0.03	0.02	98.82
40388056		6.65	48.8	14.95	12.60	10.45	6.82	2.68	0.52	0.058	1.74	0.18	0.20	0.03	0.02	99.79
40388057		6.48	47.5	14.95	13.85	9.74	6.79	2.66	0.52	0.038	1.97	0.19	0.21	0.03	0.02	98.96
40388058		6.52	47.8	14.50	12.70	10.80	6.64	2.58	0.43	0.060	2.03	0.18	0.18	0.03	0.02	98.81
40388059		6.39	48.4	15.25	12.45	10.40	6.43	2.73	0.51	0.053	1.82	0.17	0.21	0.03	0.02	99.40
40388060		2.22	56.8	18.40	7.65	6.53	2.73	3.72	2.31	0.003	1.00	0.12	0.29	0.07	0.11	100.05
40388061		6.41	49.4	15.30	13.75	9.74	6.40	2.88	0.60	0.031	2.06	0.19	0.25	0.03	0.03	101.17
40388062		6.49	48.6	15.25	14.25	9.51	6.85	2.78	0.53	0.027	1.88	0.19	0.25	0.03	0.02	100.68
40388063		6.38	48.4	15.10	12.15	10.75	6.33	2.67	0.52	0.057	1.72	0.17	0.20	0.03	0.02	99.01
40388064		6.24	48.0	14.80	12.60	10.20	6.20	2.78	0.51	0.054	2.09	0.18	0.23	0.03	0.02	98.46
40388065		6.74	48.2	15.15	12.20	10.65	7.37	2.55	0.46	0.079	1.63	0.17	0.17	0.03	0.02	99.26
40388066		6.40	48.1	14.75	13.40	10.20	7.73	2.53	0.48	0.065	1.75	0.18	0.19	0.03	0.02	99.93
40388067		6.53	47.5	14.80	14.95	9.17	6.81	2.82	0.63	0.029	2.10	0.20	0.27	0.03	0.03	100.21
40388068		6.31	49.1	15.80	13.70	10.00	6.79	2.75	0.56	0.048	1.98	0.18	0.23	0.03	0.02	101.76
40388069		6.48	47.9	15.30	13.75	9.86	6.74	2.68	0.54	0.047	2.07	0.18	0.22	0.03	0.02	100.03
40388070		0.17	44.8	18.50	11.85	9.34	7.29	2.08	1.06	0.349	1.30	0.14	0.15	0.05	0.04	98.84
40388071		6.20	48.0	15.30	13.95	9.74	6.74	2.68	0.57	0.046	2.01	0.19	0.24	0.03	0.03	100.41
40388072		6.19	48.1	15.40	14.30	9.56	6.57	2.73	0.60	0.039	2.13	0.19	0.24	0.03	0.02	100.81
40388073		6.48	47.5	14.95	14.05	9.09	6.19	2.79	0.66	0.036	2.00	0.19	0.30	0.03	0.03	98.72
40388074		6.18	47.3	15.55	13.65	9.11	5.58	3.02	0.66	0.031	1.96	0.18	0.29	0.03	0.04	98.66
40388075		6.38	47.1	15.45	14.35	8.80	5.97	2.93	0.63	0.031	2.19	0.19	0.25	0.03	0.03	98.85
40388076		6.24	47.8	15.25	14.10	9.38	6.50	2.74	0.62	0.040	2.09	0.19	0.24	0.03	0.03	99.85
40388077		6.32	47.0	15.50	14.90	8.48	6.01	2.73	0.64	0.023	2.11	0.19	0.25	0.03	0.02	98.45
40388078		6.43	47.1	14.80	14.55	8.94	6.73	2.57	0.54	0.033	1.94	0.19	0.22	0.03	0.02	98.45
40388079		2.84	46.4	14.90	15.05	8.80	7.24	2.50	0.53	0.038	1.93	0.20	0.23	0.03	0.02	98.46

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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To: RIO TINTO EXPLORATION CANADA INC.  
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 THUNDER BAY ON P7E 4X4

Page: 3 - B  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTECIKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40388040		1.97	0.05	0.33	338	27.7	2470	2.50	3.47	1.95	1.22	21.3	3.55	2.9	0.70	12.5
40388041		0.57	0.01	0.03	226	45.4	220	0.61	6.05	3.20	1.90	23.5	6.32	4.3	1.13	20.0
40388042		0.77	0.01	0.05	187.5	35.5	260	0.57	5.13	2.93	1.67	21.8	5.33	3.7	1.04	16.1
40388043		0.89	0.01	0.06	229	48.5	190	0.64	6.73	3.68	1.98	24.0	6.19	5.0	1.37	21.8
40388044		0.82	0.01	0.05	198.5	39.9	170	0.43	5.75	3.12	1.65	22.4	5.79	4.1	1.20	17.8
40388045		0.55	0.02	0.05	188.0	35.1	270	0.52	4.60	2.74	1.53	22.6	5.26	3.7	0.99	15.6
40388046		0.77	0.02	0.03	218	43.6	250	0.58	5.59	2.96	1.74	23.2	6.00	4.0	1.09	19.5
40388047		1.14	0.01	0.02	257	63.6	90	0.55	8.09	4.86	2.32	25.2	8.79	6.4	1.70	27.7
40388048		0.89	0.02	0.02	270	60.4	140	0.52	8.32	4.64	2.30	25.3	8.08	5.8	1.70	26.8
40388049		0.84	0.02	0.03	290	59.3	120	0.52	7.92	4.51	2.24	25.2	8.26	6.1	1.66	26.3
40388050		0.86	0.02	0.03	266	54.6	140	0.56	7.47	4.38	2.33	26.1	7.68	5.8	1.62	24.2
40388051		0.95	0.04	0.04	218	46.7	160	0.54	6.62	3.76	1.83	23.7	6.28	4.8	1.41	20.5
40388052		0.92	0.02	0.02	238	50.0	200	0.46	7.24	3.81	2.07	25.3	6.58	5.4	1.42	22.0
40388053		0.90	0.01	0.03	220	46.2	280	0.43	6.49	3.75	1.99	22.3	6.28	4.9	1.33	20.4
40388054		1.35	0.01	0.02	251	60.1	170	0.42	7.75	4.38	2.39	25.7	7.79	6.0	1.54	26.8
40388055		0.70	0.01	0.03	195.0	32.2	300	0.58	4.96	2.55	1.52	21.7	4.57	3.5	0.98	14.4
40388056		0.74	0.01	0.03	182.5	35.3	410	0.51	4.93	2.76	1.53	21.5	5.01	3.4	0.95	15.3
40388057		0.49	0.01	0.03	184.0	35.1	270	0.61	5.12	2.76	1.36	21.4	4.88	3.6	0.96	15.9
40388058		0.86	0.02	0.02	163.5	31.6	430	0.49	4.66	3.02	1.44	21.5	4.85	3.1	0.99	14.1
40388059		0.93	0.01	0.02	190.0	37.2	360	0.56	5.00	2.78	1.60	21.1	5.10	3.5	0.90	16.7
40388060		0.32	0.05	0.09	906	66.0	20	1.33	6.26	3.41	1.80	22.6	7.16	7.1	1.26	28.3
40388061		0.51	0.10	0.02	216	45.9	220	0.57	5.76	3.49	1.70	23.7	6.04	4.6	1.25	20.1
40388062		0.51	0.03	0.02	194.0	39.0	190	0.56	5.39	3.08	1.66	22.9	5.60	4.1	1.06	16.7
40388063		0.89	0.02	0.02	185.0	33.8	400	0.47	4.62	2.46	1.49	21.2	4.87	3.5	0.97	14.6
40388064		0.77	0.03	0.02	194.0	42.3	400	0.41	5.73	3.25	1.75	22.7	6.03	4.3	1.21	18.5
40388065		0.58	0.04	0.02	160.0	30.6	560	0.51	4.35	2.36	1.39	20.5	4.44	3.3	0.90	13.7
40388066		0.50	0.04	0.02	160.5	32.0	460	0.52	4.44	2.48	1.39	19.9	4.40	3.4	0.93	14.0
40388067		0.87	0.01	0.02	221	47.8	210	0.52	5.91	3.64	1.84	23.6	5.97	4.8	1.35	20.9
40388068		0.57	0.02	0.02	202	40.1	360	0.60	5.30	2.94	1.57	23.9	5.38	4.1	1.04	17.6
40388069		0.69	0.02	0.05	199.5	38.7	350	0.62	5.39	3.02	1.69	23.2	5.56	4.4	1.13	17.6
40388070		1.89	0.05	0.35	334	27.2	2710	2.56	3.84	2.00	1.29	22.5	3.62	2.6	0.69	12.2
40388071		0.88	0.01	0.04	224	40.6	350	0.62	5.91	3.31	1.65	24.1	5.58	4.3	1.15	18.1
40388072		0.90	0.02	0.04	209	41.9	290	0.61	5.70	3.07	1.71	23.1	5.70	4.2	1.19	18.6
40388073		0.90	0.01	0.05	231	49.6	270	0.68	6.59	3.96	1.87	22.7	6.50	4.8	1.31	21.7
40388074		1.26	0.01	0.04	365	45.2	230	0.68	5.76	3.37	1.91	22.9	6.19	4.3	1.21	19.9
40388075		0.90	0.01	0.05	227	45.2	240	0.76	5.98	3.10	1.83	23.7	6.11	4.4	1.20	20.0
40388076		0.84	0.02	0.04	224	41.8	310	0.71	5.47	3.02	1.66	23.4	5.33	4.2	1.14	18.8
40388077		0.57	0.01	0.04	230	44.0	160	0.61	5.64	3.11	1.77	22.4	5.66	4.2	1.18	19.7
40388078		0.79	0.01	0.03	204	39.2	230	0.62	5.45	3.17	1.57	21.3	5.52	3.8	1.11	17.6
40388079		0.59	0.01	0.03	210	40.2	260	0.65	5.24	2.78	1.58	21.2	5.35	3.4	1.08	17.9

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 3 - C  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40388040		0.33	7.9	16.1	3.59	34.1	3.71	2	407	0.5	0.62	1.31	0.27	0.37	181	<1
40388041		0.41	14.5	26.4	5.77	14.2	6.06	1	249	0.7	0.96	2.21	0.41	0.55	295	1
40388042		0.41	10.8	21.1	4.80	12.0	4.91	1	229	0.6	0.87	1.76	0.40	0.84	276	1
40388043		0.46	13.4	28.0	6.54	15.1	6.30	2	231	0.7	1.16	2.32	0.51	0.70	235	340
40388044		0.45	12.3	23.4	5.21	11.8	5.45	1	218	0.7	0.97	1.81	0.46	0.53	393	<1
40388045		0.35	10.3	20.9	4.80	11.2	4.69	1	239	0.7	0.82	1.60	0.41	0.52	354	<1
40388046		0.44	12.0	25.5	5.62	14.7	5.66	1	242	0.7	0.95	1.97	0.44	0.63	260	<1
40388047		0.63	18.7	36.1	8.54	18.6	8.63	2	226	1.1	1.41	2.87	0.72	0.80	295	1
40388048		0.62	16.2	36.2	8.00	19.3	8.57	2	222	0.9	1.30	2.75	0.64	0.74	367	1
40388049		0.61	17.0	35.2	7.86	21.0	8.21	2	225	0.9	1.36	2.76	0.60	0.78	421	1
40388050		0.55	17.2	32.6	7.21	18.0	7.92	2	216	1.0	1.28	2.52	0.62	0.68	489	<1
40388051		0.55	14.5	27.2	6.35	13.4	6.63	2	216	0.9	1.10	2.20	0.57	0.59	367	1
40388052		0.49	14.2	29.5	6.84	15.7	6.95	2	219	0.8	1.10	2.41	0.62	0.67	358	1
40388053		0.51	13.4	27.7	6.30	13.9	6.35	1	206	0.8	1.17	2.08	0.52	0.58	316	<1
40388054		0.61	16.5	34.6	7.96	20.0	7.72	2	249	0.9	1.37	2.96	0.67	0.83	246	1
40388055		0.33	9.0	19.0	4.30	11.9	4.23	1	225	0.5	0.78	1.53	0.38	0.47	248	1
40388056		0.37	10.4	20.9	4.64	12.6	4.71	1	223	0.5	0.84	1.54	0.41	0.48	243	1
40388057		0.36	10.6	20.6	4.58	11.9	4.76	1	223	0.6	0.86	1.73	0.44	0.53	246	<1
40388058		0.37	9.6	19.3	4.20	10.0	4.42	1	218	0.5	0.82	1.45	0.37	0.34	298	<1
40388059		0.33	10.0	22.1	4.89	11.8	5.01	1	223	0.5	0.88	2.21	0.39	0.49	219	<1
40388060		0.45	13.3	36.8	8.65	93.8	7.44	2	541	0.6	1.09	4.36	0.49	1.60	123	1
40388061		0.47	12.4	27.0	5.94	15.1	5.57	1	236	0.7	1.04	2.24	0.49	0.62	254	1
40388062		0.41	11.1	23.0	5.11	13.1	5.28	1	232	0.7	0.92	1.88	0.44	0.56	216	<1
40388063		0.34	9.2	19.6	4.37	12.3	4.39	1	226	0.5	0.77	1.59	0.37	0.45	241	<1
40388064		0.38	12.4	24.3	5.65	12.5	5.72	1	227	0.7	0.93	1.94	0.50	0.58	292	<1
40388065		0.33	8.8	18.0	3.94	10.6	3.77	1	216	0.5	0.79	1.41	0.34	0.40	233	<1
40388066		0.33	9.1	18.9	4.13	11.0	4.31	1	213	0.5	0.73	1.58	0.38	0.44	239	1
40388067		0.47	13.9	27.4	6.10	15.7	6.13	1	233	0.8	0.97	2.35	0.56	0.65	237	<1
40388068		0.38	11.6	23.0	5.23	13.8	4.88	1	240	0.7	0.89	1.96	0.45	0.51	249	15
40388069		0.48	11.9	23.7	5.21	14.3	5.27	1	238	0.7	0.89	1.96	0.45	0.58	263	1
40388070		0.29	7.8	15.2	3.52	36.0	3.43	2	411	0.4	0.59	1.24	0.30	0.36	173	1
40388071		0.42	12.0	23.4	5.40	15.4	5.69	1	240	0.7	0.97	1.94	0.43	0.55	261	1
40388072		0.46	12.8	24.3	5.44	15.1	5.35	1	232	0.7	0.92	2.17	0.52	0.58	264	<1
40388073		0.49	14.5	29.2	6.66	16.9	6.06	1	229	0.8	1.09	2.39	0.58	0.65	232	3
40388074		0.43	12.8	26.7	5.86	17.7	5.98	1	246	0.7	1.00	2.21	0.48	0.63	240	<1
40388075		0.40	13.8	26.6	5.89	17.8	5.90	1	245	0.7	0.98	2.11	0.50	0.62	273	1
40388076		0.41	12.1	24.2	5.48	16.5	5.17	1	238	0.7	0.94	2.02	0.42	0.59	267	1
40388077		0.42	12.4	25.7	5.78	15.5	5.42	1	240	0.7	1.02	2.09	0.42	0.80	264	<1
40388078		0.39	11.4	22.8	5.15	13.1	4.83	1	224	0.7	0.93	1.94	0.42	0.58	237	1
40388079		0.40	11.1	23.8	5.24	13.0	5.09	1	228	0.7	0.89	1.86	0.44	0.52	241	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - D  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTECIKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388040		19.1	1.84	112	4.7	0.12	0.010	0.030	0.003	0.46	1.1	0.07	0.48	0.49	0.28	62.7
40388041		32.5	3.07	173	2.4	0.02	<0.005	0.022	0.001	<0.05	0.3	0.01	0.03	0.08	0.20	42.6
40388042		27.4	2.63	147	0.5	0.01	<0.005	0.021	0.001	<0.05	0.4	0.01	0.03	0.06	0.17	41.5
40388043		35.0	3.17	192	0.7	0.01	<0.005	0.022	0.002	<0.05	0.2	<0.01	0.03	0.05	0.16	37.9
40388044		29.8	2.79	159	2.2	0.04	<0.005	0.022	0.001	<0.05	0.4	0.01	0.03	0.08	0.26	42.3
40388045		27.4	2.64	143	0.5	<0.01	<0.005	0.025	0.001	<0.05	0.3	0.01	0.03	0.08	0.15	43.2
40388046		30.6	2.96	160	2.2	0.01	<0.005	0.022	0.001	<0.05	0.3	0.01	0.03	0.07	0.16	40.3
40388047		45.3	3.99	251	1.4	0.02	<0.005	0.023	0.001	<0.05	<0.2	<0.01	0.02	0.05	0.19	34.1
40388048		45.1	4.06	231	2.1	0.01	<0.005	0.024	0.001	<0.05	<0.2	0.01	0.02	0.03	0.20	38.4
40388049		43.7	4.28	247	2.0	0.02	<0.005	0.026	0.002	<0.05	0.2	0.01	0.03	0.07	0.24	41.7
40388050		42.1	3.91	230	2.3	0.02	<0.005	0.025	0.002	<0.05	<0.2	<0.01	0.03	0.06	0.19	46.0
40388051		36.6	3.42	199	2.9	0.02	<0.005	0.021	0.002	<0.05	0.3	0.02	0.04	0.07	0.18	45.7
40388052		38.0	3.58	207	2.7	0.01	<0.005	0.019	0.001	<0.05	<0.2	0.01	0.03	0.06	0.17	40.2
40388053		36.2	3.35	187	1.5	0.02	<0.005	0.019	0.001	<0.05	<0.2	0.01	0.03	0.06	0.17	41.9
40388054		43.2	3.78	242	0.9	0.01	<0.005	0.022	0.002	<0.05	<0.2	0.01	0.02	0.06	0.19	31.2
40388055		25.7	2.54	130	2.3	0.02	<0.005	0.017	<0.001	<0.05	0.2	0.01	0.04	0.06	0.16	48.0
40388056		27.4	2.39	140	1.1	0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.04	0.07	0.16	48.1
40388057		27.2	2.74	142	1.8	0.02	<0.005	0.019	0.001	<0.05	0.2	0.01	0.03	0.06	0.15	52.0
40388058		25.9	2.39	130	3.0	0.03	<0.005	0.016	0.002	<0.05	0.3	0.02	0.03	0.06	0.16	44.6
40388059		26.9	2.71	136	1.8	0.02	<0.005	0.016	0.001	<0.05	0.3	0.01	0.03	0.05	0.14	43.2
40388060		35.2	3.29	290	0.4	0.01	<0.005	0.029	<0.001	<0.05	<0.2	0.02	0.38	0.02	0.08	17.4
40388061		33.7	2.98	186	1.9	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.04	0.06	0.15	47.0
40388062		29.4	2.91	156	3.7	0.01	<0.005	0.019	0.001	<0.05	0.3	0.01	0.03	0.07	0.17	48.5
40388063		26.1	2.29	132	2.8	0.02	<0.005	0.016	0.001	<0.05	<0.2	0.01	0.02	0.07	0.18	41.3
40388064		32.1	2.68	171	1.6	0.02	<0.005	0.020	0.001	<0.05	0.3	0.01	0.03	0.06	0.15	42.4
40388065		23.9	2.23	137	2.9	0.01	<0.005	0.015	0.001	<0.05	0.2	0.02	0.03	0.06	0.17	46.3
40388066		24.7	2.32	127	1.8	0.01	<0.005	0.016	0.001	<0.05	0.2	0.01	0.04	0.06	0.11	48.7
40388067		35.1	3.37	194	2.7	0.02	<0.005	0.023	0.001	<0.05	0.2	0.01	0.03	0.09	0.15	50.8
40388068		30.1	3.09	165	0.9	0.02	<0.005	0.018	0.001	<0.05	0.2	0.01	0.04	0.05	0.17	46.0
40388069		29.4	2.61	163	0.6	<0.01	<0.005	0.021	0.001	<0.05	0.4	0.01	0.06	0.06	0.15	46.6
40388070		19.9	1.85	109	4.5	0.13	0.009	0.032	0.003	0.38	1.1	0.06	0.51	0.47	0.28	64.8
40388071		31.0	2.69	168	1.6	0.01	<0.005	0.023	0.003	<0.05	0.3	0.01	0.05	0.07	0.17	48.6
40388072		31.3	2.97	170	1.6	0.01	<0.005	0.024	0.001	<0.05	0.4	0.01	0.05	0.06	0.13	47.4
40388073		35.6	3.26	198	0.9	0.01	<0.005	0.025	0.001	<0.05	0.4	0.01	0.06	0.04	0.17	46.4
40388074		34.2	3.21	182	0.6	0.01	<0.005	0.025	0.001	<0.05	0.2	0.01	0.04	0.04	0.15	42.9
40388075		32.1	2.84	181	1.2	0.01	<0.005	0.025	0.001	<0.05	0.2	0.01	0.05	0.05	0.14	47.4
40388076		30.3	3.00	170	2.4	0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.05	0.07	0.14	47.1
40388077		30.6	3.09	164	2.4	0.01	<0.005	0.023	0.001	0.05	<0.2	<0.01	0.04	0.04	0.15	49.9
40388078		28.5	2.72	149	2.8	0.01	<0.005	0.019	0.001	<0.05	<0.2	0.01	0.04	0.07	0.15	50.9
40388079		27.8	2.52	143	2.0	0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.04	0.06	0.15	55.7

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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



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 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40388040		1180	35.6	3.00	712	6.3	19.5	111	0.026	0.0467	0.212
40388041		224	8.6	1.22	59.7	3.2	35.5	135	0.004	0.0096	0.010
40388042		210	8.4	1.04	58.0	2.9	40.7	116	0.004	0.0090	0.008
40388043		196.0	9.2	1.25	48.2	3.5	33.6	120	0.004	0.0083	0.008
40388044		264	9.5	1.16	51.8	2.7	40.0	143	0.005	0.0093	0.009
40388045		257	8.6	1.13	59.5	2.9	40.8	110	0.004	0.0077	0.007
40388046		216	8.9	1.10	54.8	3.6	31.3	118	0.004	0.0134	0.007
40388047		177.5	10.2	1.71	36.9	3.9	38.2	140	0.002	0.0024	0.002
40388048		158.5	10.4	1.64	49.2	4.0	44.7	141	0.002	0.0005	0.001
40388049		220	10.0	1.64	48.7	4.1	41.2	148	0.003	0.0016	0.002
40388050		228	10.6	1.50	54.4	3.8	43.6	158	0.003	0.0013	0.003
40388051		243	9.7	1.36	57.0	3.2	45.1	138	0.003	0.0105	0.007
40388052		208	8.8	1.39	56.5	3.5	42.9	126	0.003	0.0027	0.004
40388053		210	8.6	1.30	64.5	3.2	43.8	126	0.004	0.0039	0.005
40388054		151.0	8.7	1.76	38.0	3.5	36.0	128	0.002	0.0019	0.004
40388055		193.0	8.8	0.97	85.4	2.3	35.8	112	0.005	0.0182	0.029
40388056		231	8.4	1.00	81.8	2.7	39.5	110	0.005	0.0186	0.032
40388057		215	9.1	1.13	86.8	2.9	35.6	123	<0.001	<0.0005	<0.001
40388058		204	8.2	0.95	71.1	2.4	43.7	109	0.006	0.0180	0.032
40388059		206	8.0	1.07	71.1	2.7	38.0	109	0.005	0.0188	0.036
40388060		18.3	18.0	0.97	15.6	10.6	16.8	93	0.001	0.0021	0.004
40388061		216	8.3	1.31	73.9	3.6	35.3	121	0.005	0.0214	0.043
40388062		187.5	8.6	1.05	82.4	3.1	31.2	119	0.004	0.0200	0.038
40388063		199.5	8.5	0.96	71.5	2.7	38.9	107	0.006	0.0062	0.012
40388064		213	8.7	1.18	70.5	2.7	39.0	118	0.005	0.0044	0.006
40388065		197.0	8.6	0.91	90.1	2.4	38.6	99	0.009	0.0054	0.008
40388066		207	9.0	0.92	96.3	2.6	36.0	107	0.008	0.0023	0.006
40388067		190.5	9.7	1.27	87.1	3.2	31.7	135	0.006	0.0052	0.010
40388068		201	8.9	1.07	82.6	2.9	32.6	117	0.008	0.0088	0.015
40388069		206	9.1	0.98	83.6	2.4	34.3	115	0.006	0.0103	0.016
40388070		1200	42.1	2.90	719	6.6	18.5	114	0.021	0.0483	0.220
40388071		218	10.5	1.44	90.3	2.6	32.1	122	0.005	0.0099	0.016
40388072		209	10.2	1.26	88.1	2.6	29.8	124	0.006	0.0101	0.015
40388073		184.0	11.2	1.50	84.4	3.2	28.9	128	0.006	0.0104	0.016
40388074		167.0	13.2	1.24	74.4	2.3	27.6	126	0.004	0.0090	0.013
40388075		198.0	12.3	1.29	84.2	2.4	26.9	130	0.005	0.0187	0.026
40388076		205	10.8	1.19	89.8	2.9	30.0	117	0.006	0.0099	0.018
40388077		191.5	9.5	1.23	86.1	3.2	24.9	129	0.004	0.0139	0.025
40388078		217	10.1	1.10	92.4	2.9	28.9	124	0.005	0.0119	0.021
40388079		216	10.7	1.05	114.0	3.0	27.8	131	0.006	0.0151	0.035

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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Page: 4 - A  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40388080		3.02	46.4	14.80	15.00	8.78	7.17	2.47	0.53	0.040	1.91	0.19	0.21	0.03	0.02	98.22
40388081		6.17	46.7	14.65	15.25	8.38	7.21	2.54	0.58	0.026	2.05	0.20	0.27	0.03	0.02	98.79
40388082		5.83	46.6	14.95	15.05	8.67	7.71	2.48	0.55	0.040	1.98	0.19	0.23	0.03	0.02	99.01
40388083		6.06	46.4	14.65	15.10	8.47	8.08	2.42	0.53	0.038	1.92	0.20	0.21	0.03	0.02	98.61
40388084		6.63	46.1	14.20	17.00	7.86	9.44	2.34	0.50	0.036	1.85	0.22	0.20	0.03	0.02	100.20
40388085		7.25	48.0	14.65	16.10	8.10	7.55	2.63	0.58	0.024	1.93	0.21	0.25	0.03	0.02	100.89
40388086		6.26	47.4	16.95	13.30	9.18	7.34	2.56	0.49	0.038	1.52	0.17	0.19	0.03	0.02	99.93
40388087		6.13	47.2	16.25	14.55	8.88	7.12	2.58	0.53	0.034	1.83	0.19	0.21	0.03	0.02	100.09
40388088		6.56	46.9	15.25	15.35	8.29	6.56	2.74	0.59	0.021	2.10	0.20	0.27	0.03	0.03	99.09
40388089		4.85	47.0	15.80	15.50	8.11	6.04	2.73	0.65	0.016	2.18	0.20	0.26	0.03	0.03	99.51
40388090		1.66	58.6	18.45	7.53	6.16	2.54	3.70	2.50	0.003	0.97	0.12	0.30	0.07	0.13	101.38
40388091		5.13	48.3	12.20	17.30	8.61	4.84	3.26	0.74	0.008	4.33	0.23	0.41	0.03	0.03	100.93
40388092		3.01	47.8	15.40	16.00	8.43	7.28	2.62	0.64	0.029	2.07	0.21	0.24	0.03	0.03	101.25
40388093		6.68	46.5	14.00	16.70	7.81	6.96	2.68	0.64	0.013	2.56	0.22	0.29	0.03	0.03	99.30
40388094		6.30	48.3	16.30	13.10	10.00	6.60	2.57	0.61	0.044	1.64	0.17	0.20	0.03	0.02	100.39
40388095		6.02	47.9	16.85	12.70	9.97	6.02	2.72	0.56	0.041	1.73	0.16	0.21	0.03	0.02	99.93
40388096		6.29	48.0	16.90	12.45	10.35	6.10	2.82	0.59	0.043	1.81	0.16	0.20	0.04	0.02	100.62
40388097		6.20	47.7	17.25	12.50	9.90	5.86	2.75	0.57	0.035	1.72	0.16	0.20	0.03	0.02	99.82
40388098		6.37	48.2	16.85	12.30	10.35	6.01	2.67	0.55	0.042	1.81	0.17	0.21	0.03	0.02	100.47
40388099		6.49	49.1	17.05	12.45	10.30	6.09	2.79	0.58	0.041	1.85	0.17	0.23	0.03	0.02	101.98
40388100		0.17	45.5	18.90	12.30	9.42	7.46	2.07	1.07	0.347	1.30	0.15	0.16	0.05	0.04	100.74
40388101		6.45	48.1	16.85	12.45	10.10	5.84	2.73	0.57	0.040	1.84	0.16	0.22	0.03	0.02	100.14
40388102		6.25	49.1	17.95	11.85	10.35	5.42	2.90	0.62	0.034	1.81	0.16	0.20	0.03	0.02	101.79
40388103		6.28	48.2	17.40	12.60	9.89	5.76	2.77	0.52	0.032	1.77	0.16	0.23	0.03	0.02	100.63
40388104		6.18	47.9	17.25	12.20	10.00	5.79	2.74	0.54	0.039	1.76	0.16	0.21	0.03	0.02	99.68
40388105		6.51	47.7	17.20	11.80	10.00	5.74	2.75	0.48	0.038	1.67	0.15	0.22	0.03	0.02	99.41
40388106		6.28	48.0	17.30	11.95	10.10	5.85	2.73	0.49	0.041	1.71	0.16	0.20	0.03	0.02	99.93
40388107		6.57	47.5	17.15	12.00	10.05	5.92	2.69	0.53	0.039	1.73	0.16	0.20	0.03	0.02	99.23
40388108		6.19	48.1	17.45	12.10	10.15	6.04	2.72	0.49	0.043	1.71	0.16	0.21	0.03	0.02	100.47
40388109		2.88	48.0	17.55	12.05	10.15	6.04	2.70	0.52	0.042	1.80	0.16	0.21	0.03	0.02	100.69
40388110		2.90	48.0	17.50	12.00	10.20	6.04	2.68	0.53	0.042	1.75	0.16	0.21	0.03	0.02	100.59
40388111		6.39	46.9	17.35	12.15	10.30	5.99	2.68	0.50	0.042	1.79	0.16	0.20	0.03	0.02	99.43
40388112		6.49	47.3	17.35	12.70	10.15	6.30	2.64	0.50	0.040	1.70	0.17	0.21	0.03	0.02	100.03
40388113		6.15	47.4	18.10	13.35	9.76	6.16	2.76	0.52	0.035	1.84	0.17	0.21	0.03	0.02	101.27
40388114		6.48	47.2	17.60	13.95	9.39	6.28	2.73	0.55	0.027	1.90	0.17	0.22	0.03	0.03	101.41
40388115		6.20	47.5	17.35	14.10	9.58	6.44	2.75	0.55	0.031	2.00	0.18	0.24	0.03	0.02	101.93
40388116		6.38	47.5	17.55	12.95	10.10	6.54	2.66	0.45	0.040	1.80	0.17	0.20	0.03	0.02	101.69
40388117		6.30	46.5	17.15	12.55	9.97	6.48	2.64	0.49	0.039	1.76	0.16	0.20	0.04	0.02	99.23
40388118		6.29	45.6	16.05	13.30	9.62	7.37	2.45	0.46	0.040	1.63	0.17	0.19	0.03	0.02	98.11
40388119		6.07	45.3	16.60	13.00	9.77	6.90	2.46	0.64	0.038	1.80	0.17	0.18	0.03	0.02	99.35

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - B  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTECIKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40388080		0.67	0.01	0.03	214	39.8	280	0.66	5.38	2.81	1.57	21.4	5.37	3.9	1.06	18.1
40388081		0.88	0.01	0.02	228	45.2	180	0.70	5.81	3.33	1.76	21.3	6.01	4.5	1.22	20.3
40388082		0.51	0.01	0.04	217	41.2	270	0.65	5.25	3.04	1.69	20.8	5.33	3.9	1.15	18.2
40388083		0.54	<0.01	0.03	205	36.6	260	0.72	4.74	2.65	1.51	19.6	4.80	3.7	1.00	16.3
40388084		0.40	0.01	0.02	192.0	32.8	240	0.70	4.28	2.41	1.32	18.7	4.61	3.2	0.95	14.6
40388085		0.82	0.01	0.02	233	49.6	170	0.56	6.20	3.54	1.70	20.9	6.46	4.9	1.29	22.3
40388086		0.74	0.02	0.04	188.5	31.7	260	0.66	4.05	2.23	1.34	20.6	4.47	3.0	0.87	14.2
40388087		0.67	0.02	0.05	206	35.1	220	0.75	4.46	2.53	1.38	20.2	4.79	3.4	0.94	15.7
40388088		0.76	0.01	0.07	241	46.5	150	0.64	5.90	3.24	1.79	22.4	6.33	4.4	1.25	21.0
40388089		0.96	0.02	0.06	264	45.4	110	0.71	5.41	2.94	1.69	22.4	5.85	4.2	1.15	20.2
40388090		0.31	0.05	0.10	1170	64.7	20	1.31	6.20	3.42	1.85	23.4	6.81	6.7	1.29	27.8
40388091		0.64	0.01	0.04	278	67.6	60	0.39	9.48	5.33	2.53	25.7	9.62	7.1	2.03	29.5
40388092		0.47	0.01	0.08	254	40.8	200	0.69	5.48	3.12	1.73	22.1	5.48	3.9	1.16	18.5
40388093		0.87	0.01	0.05	253	50.6	90	0.78	6.13	3.57	1.89	21.7	6.40	5.0	1.28	22.2
40388094		0.81	0.02	0.06	226	34.2	300	0.67	4.77	2.61	1.46	20.7	4.95	3.2	0.97	15.3
40388095		1.02	0.02	0.04	207	33.7	280	0.72	4.49	2.49	1.45	21.6	4.84	3.4	0.95	15.0
40388096		1.14	0.02	0.05	209	34.9	290	0.72	4.72	2.45	1.55	21.7	4.63	3.3	1.03	15.9
40388097		1.12	0.01	0.06	211	34.1	250	0.76	4.45	2.40	1.61	22.1	5.00	3.4	0.92	15.2
40388098		1.26	0.01	0.07	217	34.7	290	0.85	4.85	2.73	1.55	21.2	4.96	3.4	0.99	15.4
40388099		1.28	0.01	0.06	222	37.3	280	0.73	5.35	2.87	1.52	22.1	5.08	3.7	1.08	16.9
40388100		1.97	0.04	0.34	348	27.3	2380	2.56	3.53	1.93	1.29	19.7	3.50	2.6	0.71	12.5
40388101		1.19	0.01	0.07	221	37.6	280	0.73	4.95	2.70	1.58	22.5	5.14	3.7	1.10	17.0
40388102		1.35	0.02	0.06	233	36.9	230	0.98	5.09	2.75	1.59	22.5	5.23	3.7	1.01	16.7
40388103		1.25	0.01	0.07	207	38.9	220	0.79	4.95	2.97	1.56	22.1	5.42	3.8	1.06	17.6
40388104		1.04	0.02	0.06	208	36.6	270	0.68	4.85	2.72	1.60	22.7	5.13	3.8	1.02	16.5
40388105		1.61	0.01	0.06	198.0	35.8	260	0.80	4.65	2.69	1.48	21.8	4.91	3.5	1.08	16.2
40388106		1.35	0.01	0.05	204	33.7	270	0.71	4.72	2.76	1.48	21.5	4.60	3.5	0.97	15.2
40388107		1.21	0.01	0.04	205	33.4	260	0.70	4.39	2.58	1.45	21.6	4.63	3.4	0.97	14.9
40388108		1.25	0.01	0.05	197.0	35.1	290	0.62	5.02	2.73	1.48	22.6	5.07	3.5	1.01	15.4
40388109		1.42	0.01	0.05	201	35.8	280	0.59	4.88	2.55	1.46	22.1	5.07	3.8	1.07	16.0
40388110		1.43	0.01	0.05	203	35.1	280	0.60	4.65	2.74	1.49	22.2	4.91	3.8	1.00	15.7
40388111		1.32	0.01	0.03	202	36.3	310	0.63	5.06	2.96	1.61	21.3	5.18	3.5	1.08	16.1
40388112		0.92	0.01	0.05	202	36.5	300	0.56	5.09	3.00	1.60	21.2	5.02	3.5	1.04	16.5
40388113		0.91	0.01	0.06	208	38.7	260	0.68	4.90	2.92	1.59	22.2	5.32	3.9	1.08	17.1
40388114		1.33	0.02	0.05	225	37.7	200	0.67	4.92	2.82	1.56	22.0	4.95	3.7	1.06	16.8
40388115		1.16	0.02	0.04	213	39.8	230	0.63	5.93	3.18	1.78	22.1	5.63	4.0	1.09	17.9
40388116		1.68	0.04	0.04	197.5	33.3	290	0.61	4.76	2.73	1.59	21.9	4.98	3.3	1.02	14.5
40388117		1.23	0.04	0.04	210	34.9	290	0.46	4.92	2.72	1.54	21.8	5.17	3.4	1.06	15.4
40388118		1.18	0.02	0.04	172.0	31.4	290	0.52	4.62	2.71	1.50	19.6	4.92	3.1	0.97	14.1
40388119		2.44	0.04	0.04	219	37.2	270	0.52	4.51	2.70	1.55	21.4	4.87	3.3	1.02	17.2

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - C  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40388080		0.39	11.5	24.0	5.22	13.5	4.93	1	229	0.7	0.84	1.88	0.41	0.57	247	<1
40388081		0.43	13.1	26.4	5.89	14.4	5.73	2	217	0.8	1.03	2.18	0.46	0.62	229	<1
40388082		0.38	11.9	23.7	5.36	13.7	5.65	2	225	0.8	0.96	1.90	0.42	0.55	241	1
40388083		0.36	10.9	21.3	4.81	13.2	5.02	1	219	0.7	0.82	1.69	0.38	0.50	220	<1
40388084		0.33	9.6	19.6	4.45	12.2	4.47	1	211	0.6	0.77	1.61	0.33	0.42	202	<1
40388085		0.45	13.2	28.4	6.40	13.6	6.01	2	218	0.8	1.09	2.41	0.47	0.80	204	1
40388086		0.34	9.1	18.7	4.06	11.4	4.22	1	246	0.6	0.69	1.51	0.32	0.40	184	<1
40388087		0.36	10.5	20.5	4.58	12.9	4.66	1	238	0.7	0.81	1.70	0.35	0.46	207	<1
40388088		0.46	13.4	27.4	6.06	14.6	6.11	2	237	0.8	1.05	2.24	0.46	0.66	226	<1
40388089		0.44	12.8	26.6	5.91	17.3	5.50	1	238	0.8	0.94	2.15	0.43	0.59	238	1
40388090		0.49	14.8	37.9	8.83	94.8	8.28	3	602	0.8	1.16	4.25	0.49	1.67	121	1
40388091		0.73	23.4	41.5	9.07	17.5	9.36	2	210	1.4	1.53	3.26	0.73	0.98	468	1
40388092		0.41	11.8	23.8	5.34	16.8	5.11	1	239	0.7	0.90	1.91	0.42	0.56	263	1
40388093		0.45	16.7	29.1	6.60	16.9	6.49	2	219	0.9	1.07	2.47	0.53	0.64	244	<1
40388094		0.38	9.9	20.6	4.53	14.9	4.56	1	244	0.6	0.84	1.63	0.35	0.45	206	<1
40388095		0.35	9.7	19.9	4.43	13.9	4.61	1	258	0.6	0.82	1.60	0.35	0.42	236	1
40388096		0.32	10.0	20.6	4.59	13.0	4.42	1	260	0.6	0.80	1.63	0.37	0.44	221	1
40388097		0.36	10.3	20.3	4.50	14.3	4.61	1	271	0.6	0.77	1.63	0.36	0.43	234	<1
40388098		0.33	10.2	21.2	4.60	13.6	4.87	1	260	0.6	0.78	1.50	0.37	0.42	235	1
40388099		0.36	11.1	22.4	4.85	13.7	5.13	1	262	0.7	0.87	1.65	0.37	0.43	221	<1
40388100		0.26	7.6	16.1	3.70	33.8	3.67	2	413	0.5	0.61	1.22	0.27	0.36	192	<1
40388101		0.37	10.8	22.5	4.92	14.0	5.05	1	267	0.7	0.92	1.59	0.41	0.48	243	<1
40388102		0.32	10.7	21.6	4.90	15.8	4.89	1	288	0.6	0.88	1.58	0.38	0.39	221	1
40388103		0.36	10.5	22.4	5.01	12.6	5.14	1	272	0.6	0.87	1.78	0.43	0.44	227	1
40388104		0.38	10.5	22.1	4.97	13.2	4.64	1	269	0.6	0.81	1.57	0.39	0.42	230	1
40388105		0.36	10.2	22.0	4.71	11.6	4.74	1	268	0.6	0.86	1.64	0.39	0.40	211	1
40388106		0.37	10.1	20.1	4.46	11.9	4.59	1	268	0.6	0.81	1.56	0.39	0.42	219	<1
40388107		0.36	10.0	20.5	4.41	12.8	4.55	1	267	0.5	0.80	1.44	0.34	0.40	219	<1
40388108		0.38	10.3	20.6	4.61	12.0	4.78	1	271	0.6	0.78	1.60	0.36	0.46	209	1
40388109		0.40	10.7	21.2	4.69	12.8	4.58	1	276	0.7	0.86	1.64	0.40	0.45	214	2
40388110		0.35	10.4	21.2	4.65	13.1	4.72	1	276	0.6	0.81	1.71	0.35	0.47	211	1
40388111		0.38	10.8	21.4	4.71	13.0	5.07	1	267	0.6	0.85	1.52	0.42	0.39	223	1
40388112		0.37	10.4	20.7	4.78	12.9	5.03	1	256	0.6	0.84	1.48	0.38	0.45	221	1
40388113		0.38	11.3	22.5	4.98	13.6	5.30	1	272	0.7	0.85	1.64	0.40	0.47	219	<1
40388114		0.37	11.6	22.7	5.02	14.3	5.24	1	267	0.7	0.82	1.49	0.36	0.42	206	1
40388115		0.38	12.0	23.7	5.28	14.9	5.45	1	268	0.7	0.87	1.62	0.43	0.43	240	1
40388116		0.38	10.5	19.7	4.36	11.2	4.25	2	259	0.6	0.77	1.27	0.36	0.35	233	1
40388117		0.36	10.3	20.8	4.57	12.5	4.75	1	265	0.6	0.85	1.36	0.36	0.40	234	<1
40388118		0.34	9.3	19.1	4.15	11.5	4.60	1	234	0.5	0.75	1.29	0.38	0.36	203	1
40388119		0.34	10.3	21.5	4.91	15.0	4.81	2	266	0.6	0.76	1.43	0.37	0.44	227	1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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Page: 4 - D  
 Total # Pages: 5 (A - E)  
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 Finalized Date: 29-AUG-2018  
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Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388080		28.2	2.75	149	2.2	0.01	0.006	0.018	<0.001	0.05	0.5	<0.01	0.05	0.07	0.17	55.5
40388081		31.1	2.93	169	2.5	0.01	0.005	0.022	<0.001	0.06	0.3	0.01	0.04	0.05	0.14	55.8
40388082		28.6	2.75	151	1.1	0.01	<0.005	0.023	0.001	<0.05	0.4	0.01	0.05	0.06	0.12	55.0
40388083		25.9	2.38	136	1.1	0.01	<0.005	0.019	0.001	<0.05	0.4	0.01	0.06	0.05	0.16	58.3
40388084		23.3	2.19	122	1.6	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.07	0.06	0.13	68.1
40388085		33.5	3.23	185	1.6	0.01	<0.005	0.024	0.001	<0.05	0.2	0.01	0.04	0.05	0.13	56.7
40388086		22.6	2.08	119	0.8	<0.01	<0.005	0.019	0.001	<0.05	0.3	<0.01	0.05	0.05	0.11	51.0
40388087		25.0	2.34	133	0.6	<0.01	<0.005	0.021	0.002	<0.05	<0.2	<0.01	0.06	0.06	0.15	53.0
40388088		31.9	3.05	171	0.5	<0.01	<0.005	0.022	<0.001	<0.05	0.4	0.01	0.05	0.05	0.11	54.0
40388089		29.8	2.96	162	0.9	<0.01	<0.005	0.028	0.001	<0.05	0.3	<0.01	0.07	0.05	0.15	53.3
40388090		35.5	3.28	253	0.5	0.01	<0.005	0.028	0.001	<0.05	<0.2	0.01	0.34	0.03	0.07	16.7
40388091		50.3	4.83	270	0.5	<0.01	<0.005	0.026	0.001	<0.05	0.4	0.01	0.02	0.04	0.22	42.9
40388092		28.9	2.82	154	0.7	<0.01	<0.005	0.027	0.002	<0.05	0.2	<0.01	0.07	0.05	0.12	54.4
40388093		33.8	3.32	184	0.8	<0.01	<0.005	0.027	0.001	<0.05	0.5	0.01	0.08	0.05	0.17	58.1
40388094		24.6	2.32	124	0.5	0.01	<0.005	0.019	0.001	<0.05	<0.2	0.01	0.06	0.05	0.13	45.5
40388095		24.7	2.36	126	0.4	<0.01	<0.005	0.020	<0.001	<0.05	0.2	0.01	0.05	0.06	0.12	43.2
40388096		24.9	2.69	129	0.5	0.01	<0.005	0.018	<0.001	<0.05	0.3	0.01	0.05	0.04	0.11	41.5
40388097		25.1	2.39	128	0.4	0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.05	0.06	0.12	42.4
40388098		25.8	2.45	133	0.2	0.01	<0.005	0.019	<0.001	<0.05	0.2	0.01	0.04	0.04	0.12	42.1
40388099		27.8	2.83	146	0.2	<0.01	<0.005	0.016	<0.001	<0.05	<0.2	0.01	0.04	0.05	0.10	40.8
40388100		18.6	1.92	97	4.9	0.13	<0.005	0.030	0.003	0.30	1.2	0.05	0.48	0.42	0.24	58.0
40388101		27.7	2.62	142	0.5	<0.01	<0.005	0.016	0.001	<0.05	0.3	0.02	0.04	0.05	0.14	42.5
40388102		26.2	2.70	137	0.4	<0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.04	0.05	0.11	38.7
40388103		27.7	2.62	143	0.6	<0.01	<0.005	0.019	0.001	<0.05	<0.2	0.01	0.05	0.06	0.13	44.0
40388104		26.3	2.50	137	0.6	0.01	<0.005	0.020	0.001	<0.05	<0.2	<0.01	0.05	0.05	0.12	39.8
40388105		26.0	2.45	137	1.3	0.01	<0.005	0.019	<0.001	0.05	0.3	0.02	0.06	0.06	0.11	39.5
40388106		25.8	2.55	132	0.7	0.01	<0.005	0.019	0.001	<0.05	0.3	0.01	0.06	0.07	0.12	44.6
40388107		25.3	2.60	130	0.5	0.01	<0.005	0.016	0.001	<0.05	<0.2	0.01	0.04	0.08	0.11	46.4
40388108		26.0	2.59	135	0.8	0.01	<0.005	0.018	0.001	<0.05	0.4	0.01	0.04	0.07	0.12	47.1
40388109		26.5	2.51	139	1.5	0.01	<0.005	0.017	<0.001	0.05	0.3	0.01	0.04	0.07	0.14	45.1
40388110		26.2	2.70	137	0.9	0.01	<0.005	0.017	0.001	<0.05	<0.2	0.02	0.04	0.07	0.15	46.6
40388111		27.2	2.57	127	0.8	0.01	<0.005	0.019	<0.001	<0.05	0.3	0.02	0.05	0.07	0.14	45.4
40388112		26.3	2.56	123	0.7	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.05	0.06	0.12	44.8
40388113		27.9	2.67	139	0.9	0.01	<0.005	0.021	<0.001	<0.05	0.2	0.01	0.05	0.08	0.13	49.4
40388114		27.2	2.64	131	0.9	0.01	<0.005	0.023	<0.001	<0.05	0.2	0.01	0.05	0.06	0.14	51.7
40388115		29.2	2.75	143	1.8	0.01	<0.005	0.021	0.001	0.05	0.2	0.01	0.05	0.05	0.14	53.5
40388116		26.2	2.33	119	0.7	0.01	<0.005	0.025	<0.001	0.06	<0.2	0.01	0.04	0.06	0.11	49.8
40388117		26.5	2.36	129	1.1	0.01	<0.005	0.023	0.001	<0.05	0.3	0.01	0.04	0.07	0.12	49.8
40388118		24.0	2.38	106	1.9	0.01	<0.005	0.020	0.001	<0.05	<0.2	0.02	0.05	0.07	0.11	56.3
40388119		25.6	2.34	122	1.6	0.02	<0.005	0.027	<0.001	0.06	<0.2	0.02	0.04	0.08	0.13	53.2

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 4 - E  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40388080		207	10.9	1.06	111.5	3.0	29.2	126	0.006	0.0171	0.030
40388081		186.5	11.1	1.35	113.0	3.1	26.7	136	0.005	0.0155	0.033
40388082		205	10.6	1.07	131.5	2.8	26.1	132	0.006	0.0147	0.034
40388083		198.5	11.2	1.08	148.5	2.5	26.3	129	0.005	0.0083	0.021
40388084		218	11.7	0.87	181.0	1.7	22.4	138	0.006	0.0044	0.014
40388085		202	12.3	1.15	121.0	2.0	23.8	140	0.005	0.0146	0.019
40388086		175.5	12.5	0.85	136.0	1.9	21.1	112	0.006	0.0167	0.025
40388087		185.5	11.3	0.91	128.5	2.5	21.7	120	0.003	0.0177	0.021
40388088		169.5	12.8	1.06	105.0	2.4	24.1	130	0.004	0.0324	0.043
40388089		182.0	12.0	1.21	90.1	2.8	21.9	136	0.003	0.0379	0.045
40388090		17.9	19.6	0.86	12.3	11.9	14.5	92	0.001	0.0012	0.001
40388091		196.0	15.6	1.64	41.9	3.1	42.7	164	0.003	0.0035	0.002
40388092		177.0	11.3	0.97	118.0	2.3	23.5	128	0.003	0.0119	0.011
40388093		170.0	13.2	1.16	111.0	2.6	26.2	143	0.003	0.0023	0.004
40388094		164.5	12.0	0.95	99.5	2.0	28.8	104	0.003	0.0015	0.003
40388095		178.5	12.7	1.05	97.5	2.1	27.7	109	0.004	0.0028	0.004
40388096		172.0	12.8	0.82	87.9	2.8	28.4	101	0.003	0.0031	0.004
40388097		188.0	13.1	0.92	94.0	3.1	25.5	105	0.003	0.0038	0.006
40388098		175.5	13.0	0.84	91.7	2.8	28.6	103	0.003	0.0053	0.011
40388099		159.0	13.6	0.87	88.5	2.5	28.4	99	0.002	0.0060	0.008
40388100		1130	35.2	2.57	673	5.7	16.7	106	0.023	0.0370	0.210
40388101		174.5	13.0	0.79	89.0	2.1	28.2	104	<0.001	0.0011	0.001
40388102		176.5	13.5	0.96	78.2	2.2	26.5	97	0.003	0.0014	0.002
40388103		203	12.2	1.03	91.8	2.2	26.4	114	0.003	0.0035	0.005
40388104		173.5	10.6	0.79	85.2	1.9	25.6	98	0.003	0.0044	0.006
40388105		170.0	11.7	0.87	85.4	1.8	25.7	100	0.003	0.0062	0.009
40388106		173.0	14.1	1.26	98.7	3.8	25.0	101	0.003	0.0054	0.009
40388107		176.0	13.7	1.08	102.5	3.0	25.7	106	0.004	0.0052	0.007
40388108		173.5	14.7	0.92	105.0	2.6	25.9	106	0.003	0.0050	0.006
40388109		153.0	14.0	1.02	103.0	2.3	25.7	102	0.003	0.0043	0.005
40388110		151.5	14.5	1.15	104.0	2.6	26.3	105	0.003	0.0043	0.005
40388111		138.0	12.0	1.23	104.0	2.3	25.4	111	0.002	0.0040	0.005
40388112		146.5	10.0	0.92	106.0	2.2	23.3	113	0.002	0.0037	0.005
40388113		162.5	10.5	1.02	110.5	2.4	20.5	113	0.002	0.0039	0.005
40388114		149.0	12.3	0.99	132.5	2.4	20.0	123	0.003	0.0066	0.008
40388115		136.0	11.8	1.17	143.0	2.6	23.2	125	0.003	0.0127	0.014
40388116		157.5	16.2	0.78	126.0	2.2	23.5	129	0.002	0.0073	0.009
40388117		159.0	11.3	1.05	124.5	2.3	24.9	111	0.003	0.0095	0.010
40388118		163.5	12.6	0.97	150.0	2.0	26.8	112	0.004	0.0118	0.012
40388119		175.0	20.6	0.76	139.0	2.3	22.7	148	0.002	0.0116	0.010

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - A  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTECIKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40388120		2.06	56.6	18.00	7.67	6.21	2.53	3.71	2.30	0.003	0.98	0.12	0.34	0.06	0.09	98.80
40388121		6.34	45.4	16.80	13.70	9.21	6.73	2.44	0.57	0.033	1.87	0.17	0.17	0.03	0.02	99.90
40388122		6.53	46.1	16.45	14.10	9.46	6.88	2.48	0.53	0.034	2.08	0.18	0.18	0.03	0.02	99.62
40388123		6.52	45.4	16.00	14.95	9.60	6.88	2.38	0.44	0.032	2.13	0.19	0.16	0.03	0.02	99.36
40388124		6.41	45.6	15.30	14.55	9.24	8.67	2.11	0.51	0.044	1.66	0.18	0.17	0.03	0.02	99.48
40388125		6.65	46.2	16.15	14.80	8.99	8.33	2.38	0.52	0.041	1.70	0.18	0.21	0.03	0.02	100.29
40388126		4.16	45.5	15.85	15.25	8.30	7.96	2.41	0.58	0.031	1.78	0.19	0.20	0.03	0.03	99.32
40388127		3.17	55.6	18.05	6.49	7.33	2.71	5.86	0.99	0.007	1.87	0.09	0.08	0.03	0.03	101.02
40388128		4.90	48.3	14.60	14.25	7.82	6.19	3.11	1.02	0.015	2.78	0.17	0.17	0.03	0.03	99.77
40388129		6.71	45.3	12.30	16.75	8.22	8.20	2.58	0.53	0.031	3.04	0.20	0.16	0.02	0.02	98.10
40388130		0.17	44.6	18.05	12.05	9.31	7.21	2.02	1.06	0.332	1.27	0.14	0.15	0.05	0.04	98.30
40388131		6.39	46.0	14.05	16.35	8.53	6.95	2.74	0.57	0.018	2.62	0.20	0.24	0.03	0.03	99.38
40388132		6.58	45.1	13.85	16.85	8.06	10.60	2.12	0.46	0.035	1.66	0.22	0.17	0.02	0.02	99.58
40388133		6.84	45.1	14.80	16.70	8.05	10.00	2.15	0.50	0.037	1.45	0.21	0.15	0.03	0.02	100.09
40388134		6.31	47.6	18.20	11.70	10.10	6.02	2.79	0.53	0.043	1.60	0.15	0.17	0.03	0.02	99.74
40388135		6.77	47.1	17.95	12.05	10.15	6.37	2.69	0.47	0.048	1.68	0.16	0.16	0.03	0.02	99.62
40388136		6.52	46.4	15.05	15.10	8.96	10.15	2.21	0.38	0.039	1.62	0.19	0.15	0.03	0.02	100.70
40388137		6.39	46.2	15.20	15.20	8.03	9.71	2.49	0.44	0.029	1.75	0.19	0.25	0.03	0.02	100.92
40388138		6.25	46.7	17.75	12.40	9.91	6.98	2.62	0.45	0.040	1.44	0.15	0.19	0.03	0.02	99.68
40388139		2.94	46.8	17.85	12.10	9.99	7.07	2.60	0.42	0.041	1.54	0.15	0.17	0.03	0.02	99.67
40388140		2.82	46.7	17.65	12.10	9.88	7.11	2.58	0.42	0.040	1.58	0.15	0.17	0.03	0.02	99.25
40388141		6.53	48.4	19.25	11.40	10.45	6.13	2.85	0.45	0.034	1.61	0.14	0.19	0.04	0.02	101.92
40388142		6.42	47.2	18.20	11.95	10.10	6.94	2.65	0.42	0.030	1.57	0.15	0.16	0.03	0.02	100.54
40388143		6.41	46.7	17.45	12.50	9.81	7.63	2.54	0.40	0.032	1.47	0.16	0.16	0.03	0.02	99.89
40388144		6.08	46.3	17.85	11.10	10.85	6.45	2.51	0.34	0.026	1.38	0.14	0.16	0.03	0.02	99.99
40388145		6.11	47.0	18.70	11.30	10.35	6.14	2.73	0.42	0.029	1.58	0.14	0.16	0.03	0.02	99.72
40388146		6.32	46.4	17.15	12.45	9.88	7.66	2.48	0.42	0.035	1.57	0.16	0.16	0.03	0.02	99.17
40388147		6.11	45.1	15.45	14.65	9.06	9.72	2.20	0.32	0.037	1.56	0.19	0.15	0.03	0.02	99.05
40388148		5.74	47.5	15.80	13.40	9.00	8.50	2.26	0.55	0.037	2.08	0.17	0.12	0.03	0.02	100.73
40388149		6.27	46.3	15.45	13.95	9.12	9.14	2.32	0.48	0.037	1.61	0.18	0.19	0.03	0.02	99.73

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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Page: 5 - B  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTECIKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40388120		0.19	0.05	0.09	828	68.0	30	1.11	6.34	3.41	1.75	21.6	7.08	6.8	1.35	29.6
40388121		2.76	0.03	0.03	222	33.0	240	0.38	4.77	2.55	1.57	21.0	4.40	3.3	0.92	14.8
40388122		1.10	0.03	0.04	196.5	32.2	260	0.53	4.68	2.66	1.53	21.2	5.01	3.2	0.99	14.5
40388123		1.15	0.02	0.05	195.5	28.4	240	0.55	3.98	2.35	1.38	20.6	4.19	2.6	0.83	12.7
40388124		1.40	0.02	0.05	203	28.4	330	0.72	4.33	2.38	1.27	19.3	4.11	2.7	0.89	12.7
40388125		0.74	0.01	0.05	202	32.6	310	0.68	4.50	2.48	1.52	20.8	4.52	4.2	0.96	14.4
40388126		1.21	0.03	0.04	237	34.0	240	0.75	4.82	2.71	1.50	20.7	4.47	3.4	0.92	15.4
40388127		1.88	0.01	0.02	230	65.5	50	0.22	6.80	3.62	1.36	23.3	6.49	7.4	1.42	30.9
40388128		1.28	0.01	0.07	282	47.0	120	0.52	6.13	3.38	1.55	21.8	5.62	5.2	1.27	21.4
40388129		0.75	0.02	0.05	201	39.9	240	0.44	5.51	3.16	1.49	20.1	5.22	4.6	1.16	18.2
40388130		2.02	0.04	0.35	337	27.6	2570	2.52	3.64	2.03	1.38	19.5	3.81	2.6	0.74	12.4
40388131		1.05	0.01	0.07	234	41.6	140	0.34	5.85	3.39	1.75	22.4	6.08	4.5	1.23	19.0
40388132		0.41	<0.01	0.06	162.0	29.4	260	0.59	4.13	2.17	1.36	18.1	4.38	2.9	0.82	13.0
40388133		0.89	0.01	0.06	175.5	23.9	270	0.61	3.62	1.99	1.25	18.6	3.47	2.4	0.73	10.7
40388134		0.79	0.01	0.07	185.0	29.3	320	0.34	4.11	2.33	1.42	22.4	4.45	2.7	0.91	13.3
40388135		0.74	<0.01	0.05	173.0	27.3	310	0.40	3.97	2.35	1.50	21.5	4.14	2.8	0.82	12.3
40388136		0.40	0.01	0.05	152.0	24.5	290	0.47	3.57	1.89	1.20	17.7	3.60	2.4	0.69	11.1
40388137		1.38	0.02	0.04	196.0	45.8	210	0.63	5.64	3.47	1.73	20.6	6.41	4.0	1.18	20.6
40388138		1.00	0.01	0.04	178.0	32.4	300	0.48	4.37	2.36	1.42	20.5	4.60	3.1	0.91	14.6
40388139		0.89	<0.01	0.05	173.0	30.2	300	0.42	4.10	2.27	1.35	20.5	4.07	3.1	0.81	13.3
40388140		0.82	0.01	0.05	177.5	30.8	300	0.46	4.30	2.44	1.33	21.3	4.37	3.0	0.87	13.8
40388141		0.96	0.01	0.04	184.5	33.0	250	0.45	4.56	2.48	1.50	22.4	4.54	3.1	0.94	14.5
40388142		1.12	0.01	0.03	177.0	29.5	230	0.48	4.24	2.23	1.36	20.2	4.20	2.8	0.78	13.1
40388143		0.99	0.01	0.04	168.5	29.4	240	0.52	3.94	2.30	1.43	20.4	4.00	2.7	0.88	13.3
40388144		2.83	0.04	0.02	156.5	28.1	200	0.46	4.04	2.18	1.41	20.8	3.71	3.0	0.80	12.7
40388145		1.12	0.01	0.03	175.0	28.4	210	0.42	4.13	2.20	1.34	20.8	4.19	2.6	0.85	12.8
40388146		0.75	0.01	0.05	155.5	27.0	240	0.45	3.85	2.02	1.13	20.8	3.76	2.7	0.75	12.1
40388147		0.56	0.01	0.05	134.0	23.5	250	0.44	3.30	1.89	1.21	19.1	3.60	2.4	0.71	10.6
40388148		1.26	0.01	0.04	164.5	21.6	250	0.93	2.99	1.73	1.06	18.8	3.35	2.3	0.57	9.7
40388149		0.90	0.01	0.04	167.0	31.3	250	0.65	3.98	2.46	1.46	19.6	4.70	3.0	0.90	13.8

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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



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 THUNDER BAY ON P7E 4X4

Page: 5 - C  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTECIKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40388120		0.45	13.3	38.5	8.95	89.8	8.50	2	525	0.6	1.12	3.49	0.51	1.44	123	1
40388121		0.33	10.4	19.1	4.28	15.0	4.72	1	261	0.6	0.71	1.42	0.37	0.43	243	3
40388122		0.36	10.7	18.5	4.28	14.1	4.66	1	256	0.7	0.78	1.33	0.36	0.42	232	1
40388123		0.32	9.6	16.4	3.69	11.5	4.28	1	249	0.6	0.65	1.10	0.33	0.33	275	22
40388124		0.34	9.0	17.1	3.73	13.8	4.31	2	226	0.5	0.70	1.15	0.32	0.31	205	1
40388125		0.34	10.1	18.9	4.31	14.7	4.42	1	248	0.6	0.78	1.40	0.39	0.43	220	1
40388126		0.32	10.4	19.6	4.41	16.6	4.40	2	250	0.7	0.74	1.42	0.35	0.43	240	1
40388127		0.55	14.4	31.8	7.81	31.4	6.77	3	222	1.0	1.08	5.15	0.53	1.73	193	1
40388128		0.47	14.1	26.2	6.03	29.5	6.05	2	231	0.9	0.95	2.70	0.51	0.85	324	1
40388129		0.44	13.7	22.6	5.16	14.8	5.34	2	185.0	0.9	0.92	2.32	0.48	0.69	455	1
40388130		0.26	7.8	15.5	3.59	35.1	3.81	2	417	0.4	0.65	1.18	0.28	0.32	178	1
40388131		0.41	13.4	24.3	5.47	14.6	5.59	1	236	0.8	0.96	1.80	0.49	0.48	354	1
40388132		0.29	9.0	16.9	3.75	10.7	3.77	1	212	0.5	0.66	1.34	0.36	0.33	212	1
40388133		0.27	7.2	13.9	3.17	10.8	3.29	1	226	0.4	0.56	0.99	0.29	0.29	234	1
40388134		0.33	8.5	17.5	3.74	11.1	3.99	1	275	0.5	0.68	1.12	0.29	0.31	229	1
40388135		0.28	8.5	16.3	3.69	10.2	3.71	1	270	0.5	0.70	1.14	0.31	0.31	219	1
40388136		0.26	7.7	14.4	3.20	8.8	3.47	1	222	0.5	0.60	1.01	0.33	0.28	177	1
40388137		0.45	13.1	26.2	6.16	11.9	5.94	2	220	0.7	0.94	2.48	0.48	0.49	208	1
40388138		0.30	9.0	18.7	4.23	11.4	4.39	1	255	0.5	0.74	1.29	0.36	0.72	202	1
40388139		0.33	8.9	17.7	3.96	10.0	4.20	1	259	0.5	0.69	1.24	0.30	0.40	193	1
40388140		0.35	9.4	17.7	3.89	10.1	4.39	1	263	0.5	0.74	1.19	0.32	0.36	196	1
40388141		0.31	9.4	19.0	4.40	10.6	4.87	1	274	0.6	0.77	1.36	0.35	0.36	196	1
40388142		0.29	9.1	17.1	3.80	9.8	4.25	1	266	0.5	0.68	1.13	0.33	0.33	185	1
40388143		0.30	8.6	17.5	3.90	9.9	4.28	1	260	0.5	0.65	1.22	0.32	0.33	193	1
40388144		0.31	8.3	17.4	3.80	8.2	4.01	2	240	0.5	0.64	1.11	0.32	0.31	183	<1
40388145		0.27	8.7	17.0	3.76	10.4	4.11	1	271	0.5	0.65	1.09	0.30	0.30	207	<1
40388146		0.27	8.0	15.0	3.55	10.4	3.90	1	252	0.5	0.60	1.13	0.27	0.30	203	<1
40388147		0.26	7.2	13.8	3.04	7.8	3.41	1	220	0.4	0.56	1.06	0.26	0.25	190	<1
40388148		0.24	8.0	12.4	2.91	17.6	2.92	1	223	0.5	0.55	1.33	0.25	0.49	204	<1
40388149		0.35	8.9	17.6	4.06	13.5	4.67	1	222	0.6	0.71	1.39	0.35	0.34	187	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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





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Page: 5 - D  
 Total # Pages: 5 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388120		34.7	3.15	269	0.5	0.01	<0.005	0.034	<0.001	<0.05	<0.2	0.01	0.35	0.04	0.10	20.1
40388121		24.2	2.34	120	3.3	0.01	<0.005	0.018	<0.001	0.06	<0.2	0.02	0.03	0.07	0.13	54.3
40388122		25.0	2.43	120	2.5	0.01	<0.005	0.023	<0.001	0.06	0.2	0.01	0.06	0.07	0.13	55.6
40388123		22.1	2.10	100	1.9	0.01	<0.005	0.023	0.001	0.06	0.2	0.01	0.05	0.09	0.18	58.7
40388124		22.4	1.99	99	2.0	0.01	<0.005	0.021	0.001	0.05	0.3	<0.01	0.09	0.08	0.15	62.1
40388125		24.7	2.36	157	1.4	0.01	<0.005	0.022	<0.001	<0.05	0.3	0.01	0.09	0.08	0.17	64.1
40388126		24.5	2.56	121	2.1	0.01	<0.005	0.025	<0.001	0.05	0.3	0.01	0.08	0.07	0.14	66.6
40388127		36.4	3.62	255	0.4	0.01	<0.005	0.018	<0.001	0.05	<0.2	0.01	0.03	0.05	0.10	20.2
40388128		32.1	3.06	190	0.6	0.01	<0.005	0.022	0.001	<0.05	0.3	0.01	0.06	0.05	0.15	54.9
40388129		29.8	2.86	173	2.4	0.01	<0.005	0.027	0.001	0.05	0.2	0.01	0.05	0.09	0.18	69.6
40388130		19.2	1.84	93	3.8	0.15	<0.005	0.030	0.004	0.32	1.2	0.06	0.47	0.53	0.29	68.8
40388131		31.1	2.84	163	0.6	0.01	<0.005	0.029	0.002	<0.05	0.2	0.01	0.06	0.08	0.18	62.2
40388132		21.7	2.13	100	0.8	0.01	<0.005	0.023	0.001	<0.05	0.2	<0.01	0.05	0.08	0.15	80.5
40388133		18.1	1.77	85	1.0	0.01	<0.005	0.024	0.001	<0.05	0.3	<0.01	0.07	0.11	0.18	80.3
40388134		21.7	2.01	98	0.8	0.01	<0.005	0.016	0.001	<0.05	0.4	<0.01	0.04	0.07	0.11	45.7
40388135		21.1	1.99	99	0.7	0.01	<0.005	0.019	0.002	<0.05	0.4	<0.01	0.04	0.06	0.12	49.0
40388136		19.0	1.89	89	1.1	0.01	<0.005	0.020	<0.001	<0.05	0.4	<0.01	0.05	0.07	0.12	71.2
40388137		31.3	2.88	153	0.7	0.01	<0.005	0.023	0.001	<0.05	<0.2	0.01	0.06	0.05	0.10	69.0
40388138		23.7	2.34	110	1.0	0.01	<0.005	0.021	0.002	<0.05	0.4	<0.01	0.04	0.07	0.10	54.4
40388139		22.0	2.09	115	0.9	0.01	<0.005	0.016	0.001	<0.05	0.4	<0.01	0.04	0.05	0.11	52.4
40388140		22.8	2.28	112	0.6	0.01	<0.005	0.020	0.001	<0.05	0.4	<0.01	0.04	0.05	0.11	54.1
40388141		24.1	2.22	114	0.5	0.01	<0.005	0.017	0.001	<0.05	0.2	<0.01	0.04	0.05	0.09	45.3
40388142		21.7	2.23	104	1.3	0.01	<0.005	0.018	0.001	<0.05	0.2	<0.01	0.05	0.05	0.09	52.7
40388143		22.0	2.11	102	0.7	0.01	<0.005	0.020	0.001	<0.05	0.2	<0.01	0.05	0.03	0.07	53.3
40388144		21.6	1.80	103	0.2	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.05	0.04	0.06	43.9
40388145		21.6	1.86	103	0.8	0.01	<0.005	0.019	0.001	<0.05	0.3	0.01	0.05	0.05	0.07	45.9
40388146		19.3	1.87	105	1.1	<0.01	<0.005	0.017	<0.001	<0.05	0.2	<0.01	0.04	0.05	0.10	53.1
40388147		17.9	1.71	98	0.5	0.01	<0.005	0.018	<0.001	<0.05	0.3	<0.01	0.04	0.07	0.10	67.9
40388148		15.5	1.52	89	0.6	0.01	<0.005	0.018	0.001	<0.05	0.2	<0.01	0.10	0.06	0.09	61.3
40388149		21.8	2.23	120	1.2	0.01	<0.005	0.022	0.001	<0.05	0.4	<0.01	0.07	0.06	0.10	61.5

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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Page: 5 - E  
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 Plus Appendix Pages  
 Finalized Date: 29-AUG-2018  
 Account: RTEICKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40388120		19.3	20.8	0.98	15.3	11.8	16.7	94	0.001	<0.0005	0.001
40388121		166.5	17.3	0.82	144.0	1.8	21.2	138	0.003	0.0152	0.012
40388122		152.0	11.7	1.03	143.5	2.1	25.5	119	0.003	0.0078	0.005
40388123		183.0	11.3	0.84	145.5	2.8	27.7	138	0.002	0.0103	0.009
40388124		145.5	17.3	0.75	184.0	2.3	26.0	138	0.003	0.0054	0.005
40388125		164.0	14.4	0.93	183.5	3.3	22.9	130	0.002	0.0043	0.004
40388126		157.5	15.3	0.96	192.5	2.2	20.6	140	0.002	0.0084	0.008
40388127		70.8	8.7	2.17	35.7	4.9	21.3	62	0.001	0.0007	0.001
40388128		149.0	9.6	1.53	117.0	3.6	28.7	116	0.002	0.0019	0.002
40388129		200	10.8	1.27	172.5	4.1	36.4	138	0.003	0.0037	0.003
40388130		1100	41.9	3.14	696	6.4	18.0	108	0.022	0.0407	0.215
40388131		188.5	9.8	1.17	143.5	2.9	30.2	140	0.002	0.0026	0.003
40388132		176.5	12.5	0.95	242	2.5	24.7	138	0.004	0.0015	0.002
40388133		219	10.4	0.75	224	3.4	22.9	149	0.005	0.0030	0.003
40388134		150.0	7.6	0.99	113.0	2.5	19.4	94	0.005	0.0008	0.001
40388135		151.5	8.5	0.94	123.5	2.0	21.4	97	0.004	0.0019	0.002
40388136		139.0	10.4	0.84	221	1.8	22.7	114	0.006	0.0141	0.019
40388137		132.0	13.1	1.18	201	2.1	20.1	120	0.005	0.0188	0.018
40388138		146.5	9.9	0.84	138.0	1.9	22.0	98	0.001	0.0222	0.026
40388139		123.0	8.5	0.85	133.0	1.8	21.0	92	0.002	0.0192	0.024
40388140		126.5	8.9	1.32	139.0	1.8	22.1	97	0.002	0.0189	0.025
40388141		122.0	8.2	0.90	100.5	1.8	19.4	90	0.002	0.0200	0.024
40388142		134.5	5.3	0.90	123.5	1.8	21.9	98	0.002	0.0175	0.020
40388143		125.5	6.0	0.80	137.0	1.7	22.6	100	0.001	0.0187	0.013
40388144		102.5	10.2	0.71	101.5	1.5	19.2	96	0.001	0.0145	0.006
40388145		136.5	6.4	0.77	101.5	1.7	20.8	90	0.002	0.0117	0.006
40388146		135.5	5.5	0.69	140.5	1.4	21.0	95	0.002	0.0049	0.004
40388147		160.5	7.5	0.73	186.0	1.5	22.4	112	0.003	0.0122	0.008
40388148		155.5	8.9	0.72	162.0	2.2	26.6	106	0.002	0.0049	0.007
40388149		137.5	8.4	0.83	170.0	1.7	23.6	111	0.002	0.0173	0.015

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388005 to 40388015\*\*

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



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Page: Appendix 1  
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 Account: RTECIKBZ

Project: EB80001449

**CERTIFICATE OF ANALYSIS TB18192062**

	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">C-IR07</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS42</td> <td style="width: 33%;">ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06			
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-MS24	S-IR08										
TOT-ICP06													



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 Plus Appendix Pages  
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 Account: RTECIKBZ

**CERTIFICATE TB18199779**

Project: EB80001450  
 P.O. No.: 3103290934  
 This report is for 180 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-AUG-2018.

The following have access to data associated with this certificate:

RACHELLE BOULANGER  
 RTXAMRNA ASSAY RESULTS

SUE DRIEBERG  
 ROBERT RUSH

BRIAN GOLDNER

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with BarCode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40388150		1.26	55.4	17.95	8.23	6.71	2.83	3.81	2.02	0.003	1.13	0.12	0.39	0.07	0.08	99.13
40388151		4.15	45.8	15.25	14.05	8.92	9.01	2.26	0.57	0.036	1.72	0.18	0.19	0.03	0.02	99.57
40388152		3.00	47.7	15.15	14.10	8.24	8.91	2.14	0.68	0.038	1.21	0.17	0.14	0.03	0.03	100.29
40388153		1.57	61.4	13.35	10.30	3.01	2.12	4.32	1.53	0.004	1.23	0.14	0.33	0.02	0.04	100.45
40388154		1.75	63.9	15.30	7.28	1.56	2.54	4.64	1.89	0.025	0.77	0.05	0.16	0.01	0.05	100.60
40388155		1.29	57.9	13.65	10.65	3.97	2.58	4.12	1.80	0.006	1.87	0.13	0.41	0.02	0.05	99.40
40388156		0.55	44.7	13.80	16.90	7.80	12.05	1.86	0.30	0.049	1.24	0.20	0.11	0.02	0.01	99.78
40388157		6.07	48.1	18.25	12.75	9.78	7.71	2.54	0.44	0.042	1.37	0.15	0.13	0.03	0.02	101.88
40388158		6.58	47.2	17.00	13.65	9.24	7.62	2.53	0.44	0.041	1.47	0.16	0.16	0.03	0.02	100.14
40388159		4.38	47.2	17.00	13.80	9.38	7.66	2.53	0.43	0.039	1.47	0.17	0.15	0.03	0.02	100.42
40388160		0.17	45.5	18.35	12.20	9.31	7.36	2.08	1.06	0.352	1.32	0.14	0.15	0.05	0.04	99.80
40388161		3.96	47.2	17.55	14.15	8.89	7.63	2.55	0.48	0.023	1.32	0.17	0.14	0.03	0.02	101.11
40388162		2.64	50.0	14.95	14.30	8.35	3.21	4.07	0.68	0.004	2.68	0.19	0.73	0.03	0.03	100.57
40388163		5.09	47.8	17.10	15.05	8.45	7.28	2.62	0.82	0.004	1.53	0.18	0.20	0.03	0.06	101.82
40388164		2.82	50.3	13.15	15.85	8.31	3.52	4.50	0.31	<0.002	2.57	0.22	0.65	0.01	0.02	101.38
40388165		3.26	46.2	12.05	18.90	9.28	4.86	2.90	0.56	0.015	5.22	0.23	0.34	0.02	0.03	101.78
40388166		3.08	48.8	12.10	15.25	9.75	4.76	3.17	0.54	0.017	3.55	0.20	0.39	0.02	0.02	99.52
40388167		6.23	46.5	16.35	14.85	8.47	7.01	2.65	0.58	0.022	1.67	0.18	0.20	0.03	0.02	99.16
40388168		6.00	47.2	17.55	13.80	9.25	6.73	2.80	0.63	0.006	1.77	0.18	0.21	0.03	0.02	101.89
40388169		1.17	48.6	16.30	11.45	10.50	4.22	3.31	0.74	0.007	2.89	0.15	0.22	0.03	0.03	99.90
40388170		1.14	47.7	16.40	11.95	10.05	3.97	3.42	0.75	0.006	2.93	0.15	0.25	0.03	0.03	99.28
40388171		5.03	46.2	14.55	15.35	8.66	8.46	2.45	0.49	0.018	2.21	0.19	0.22	0.03	0.02	99.39
40388172		6.29	47.3	16.05	12.75	9.54	7.00	2.62	0.51	0.033	1.92	0.16	0.20	0.03	0.02	99.42
40388173		6.41	47.0	16.30	12.30	9.43	7.02	2.61	0.50	0.036	1.73	0.15	0.21	0.03	0.02	98.54
40388174		6.47	46.5	16.05	12.75	9.35	7.49	2.53	0.47	0.036	1.78	0.16	0.21	0.03	0.02	98.27
40388175		6.17	46.9	15.80	13.25	9.33	8.19	2.48	0.41	0.035	1.62	0.17	0.18	0.03	0.02	99.46
40388176		6.42	47.3	17.40	13.30	10.05	7.33	2.63	0.49	0.037	1.77	0.17	0.18	0.03	0.02	101.32
40388177		6.33	46.4	16.65	13.75	10.00	7.72	2.47	0.47	0.042	1.76	0.18	0.16	0.03	0.02	100.12
40388178		6.32	46.2	16.45	13.65	9.95	7.72	2.54	0.45	0.037	1.49	0.17	0.15	0.03	0.02	99.41
40388179		6.46	46.2	16.95	13.90	9.94	7.22	2.64	0.44	0.033	1.66	0.18	0.15	0.03	0.02	99.76
40388180		1.31	58.1	18.75	7.51	6.19	2.49	3.98	2.38	0.004	0.99	0.12	0.33	0.06	0.09	101.34
40388181		6.37	46.2	17.15	12.95	10.20	7.17	2.61	0.43	0.040	1.54	0.16	0.15	0.03	0.02	99.24
40388182		6.40	46.1	16.25	13.35	9.44	9.18	2.48	0.44	0.041	1.59	0.16	0.19	0.03	0.02	100.33
40388183		6.37	47.2	17.80	12.35	10.30	7.75	2.55	0.42	0.043	1.63	0.16	0.19	0.03	0.02	101.49
40388184		6.68	46.0	17.00	11.95	10.10	7.89	2.48	0.44	0.042	1.56	0.16	0.17	0.03	0.02	98.51
40388185		6.32	46.1	17.40	12.10	10.25	8.14	2.57	0.37	0.042	1.45	0.15	0.16	0.03	0.02	99.55
40388186		6.30	45.7	16.90	12.15	9.89	7.94	2.61	0.41	0.037	1.51	0.15	0.17	0.03	0.02	98.42
40388187		6.47	46.0	17.15	11.90	10.05	7.42	2.67	0.43	0.037	1.60	0.15	0.17	0.03	0.02	98.22
40388188		6.31	46.5	17.45	11.70	10.35	7.36	2.73	0.44	0.042	1.63	0.15	0.19	0.03	0.02	99.22
40388189		6.66	46.4	17.45	11.75	10.10	7.45	2.71	0.45	0.040	1.70	0.15	0.20	0.03	0.02	99.12





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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40388150		0.39	0.05	0.12	745	72.7	30	1.09	7.73	3.71	1.79	24.7	8.35	7.2	1.38	31.5
40388151		1.53	0.01	0.03	221	33.2	280	0.72	4.84	2.63	1.28	20.5	4.44	3.8	0.92	17.8
40388152		1.75	0.01	0.03	220	28.5	270	0.96	3.84	2.15	1.23	19.2	3.90	3.2	0.85	13.0
40388153		2.66	0.03	0.04	382	142.0	30	0.23	17.70	10.30	3.81	32.3	17.55	17.3	3.70	66.6
40388154		2.42	<0.01	0.07	431	66.5	190	0.63	5.52	3.57	1.33	22.3	6.28	6.2	1.13	31.2
40388155		2.24	0.01	0.03	447	89.6	50	0.26	11.55	6.49	2.72	28.3	11.50	9.8	2.36	41.5
40388156		0.74	<0.01	0.04	136.0	17.4	370	0.54	2.51	1.45	0.99	16.9	2.39	1.9	0.47	7.7
40388157		0.57	<0.01	0.05	161.5	25.4	320	0.44	3.52	1.96	1.17	22.1	3.55	2.3	0.75	13.7
40388158		0.58	<0.01	0.06	159.5	28.2	310	0.44	4.09	2.36	1.26	22.7	4.26	3.1	0.78	12.5
40388159		0.54	<0.01	0.06	153.0	26.7	300	0.43	3.71	2.17	1.18	21.6	3.88	3.0	0.74	11.7
40388160		1.89	0.02	0.33	349	27.6	2680	2.57	3.60	1.84	1.26	21.5	3.76	2.8	0.74	12.3
40388161		0.96	<0.01	0.04	174.5	24.3	180	0.42	3.63	1.75	1.11	20.5	3.55	2.6	0.68	10.9
40388162		1.35	<0.01	0.03	262	86.6	30	0.33	11.40	6.19	2.93	27.2	11.95	9.0	2.29	38.4
40388163		0.70	<0.01	0.03	528	31.5	30	0.53	4.16	2.23	1.37	21.7	4.53	3.1	0.83	14.1
40388164		1.97	<0.01	0.03	146.5	97.4	10	0.14	13.35	7.04	3.33	28.7	14.15	10.1	2.65	44.0
40388165		1.17	0.01	0.13	216	51.3	110	0.25	8.20	4.39	2.11	24.5	7.74	6.6	1.59	23.1
40388166		0.95	<0.01	0.14	206	73.1	140	0.23	10.90	5.62	2.62	27.5	11.35	8.5	2.09	32.9
40388167		0.63	<0.01	0.08	194.5	35.2	170	0.48	4.64	2.49	1.40	22.6	4.80	3.7	0.98	15.8
40388168		1.71	0.01	0.07	200	36.8	40	0.56	5.11	2.68	1.60	24.0	5.29	4.0	1.06	16.5
40388169		1.45	<0.01	0.04	254	38.1	60	0.33	6.08	2.95	1.73	25.4	6.44	4.1	1.27	16.8
40388170		1.64	<0.01	0.05	284	45.4	60	0.40	6.35	3.56	1.80	27.9	6.93	5.2	1.30	20.2
40388171		0.54	<0.01	0.09	189.5	36.6	140	0.56	5.38	2.81	1.49	20.7	5.67	4.1	1.02	16.0
40388172		1.29	0.01	0.06	227	38.1	280	0.54	5.77	2.97	1.68	23.1	5.59	4.3	1.05	17.0
40388173		1.20	<0.01	0.04	209	35.4	280	0.61	5.03	2.84	1.46	23.5	5.06	4.0	0.99	15.5
40388174		0.89	0.01	0.06	182.5	34.2	270	0.57	4.92	2.72	1.60	21.8	5.02	4.0	1.02	15.3
40388175		1.04	0.01	0.07	178.5	35.9	290	0.64	5.41	2.68	1.40	23.3	5.45	4.0	1.01	16.3
40388176		0.61	<0.01	0.07	198.0	34.1	270	0.53	4.31	2.27	1.53	22.8	4.75	3.3	0.86	16.0
40388177		0.47	<0.01	0.06	195.0	31.6	330	0.57	4.63	2.30	1.42	23.6	4.46	3.1	0.85	14.8
40388178		0.55	<0.01	0.07	162.0	27.2	250	0.49	3.76	2.04	1.27	20.3	3.66	2.6	0.73	12.6
40388179		0.40	<0.01	0.08	165.5	24.5	230	0.40	3.60	2.03	1.20	22.5	3.70	2.7	0.72	11.1
40388180		0.35	0.03	0.10	698	61.6	20	1.47	5.37	2.60	1.53	19.5	5.92	5.9	1.06	28.1
40388181		0.59	0.01	0.04	160.0	24.8	260	0.59	3.30	1.69	1.23	20.7	3.80	2.3	0.69	11.3
40388182		1.06	0.01	0.04	184.5	35.6	300	0.90	4.60	2.71	1.41	21.3	5.13	3.4	1.02	20.4
40388183		1.05	<0.01	0.06	184.5	34.1	290	0.58	4.54	2.57	1.48	21.9	4.50	3.4	0.96	15.8
40388184		0.67	<0.01	0.06	185.0	31.5	280	0.48	4.23	2.25	1.38	22.6	4.27	3.2	0.90	14.4
40388185		0.77	<0.01	0.06	174.5	31.3	310	0.50	4.37	2.42	1.41	22.1	4.49	2.8	0.88	17.5
40388186		0.90	<0.01	0.06	203	33.3	280	0.56	4.63	2.73	1.42	23.4	4.95	3.4	0.99	15.6
40388187		0.59	<0.01	0.06	214	39.0	290	0.52	5.39	3.04	1.63	25.4	5.27	3.8	1.08	17.8
40388188		0.63	<0.01	0.07	207	36.9	310	0.50	5.25	2.62	1.55	24.8	5.03	3.4	1.02	16.8
40388189		0.67	<0.01	0.04	184.0	35.0	270	0.56	4.75	2.29	1.50	22.4	4.86	3.4	0.93	15.8



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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40388150		0.49	13.8	42.5	9.79	86.8	8.47	2	541	0.7	1.21	3.97	0.54	1.51	142	<1
40388151		0.35	10.2	18.6	4.36	15.8	4.34	1	221	0.6	0.72	1.71	0.39	0.46	235	1
40388152		0.30	8.3	16.7	3.56	21.1	3.73	1	207	0.5	0.55	1.70	0.30	0.54	160	<1
40388153		1.51	42.0	75.3	17.70	38.5	15.65	3	141.0	2.8	2.86	10.40	1.54	3.56	61	<1
40388154		0.48	13.9	31.8	7.90	65.9	6.31	2	147.5	1.1	0.90	7.77	0.52	3.77	130	<1
40388155		0.89	24.4	49.2	11.30	47.4	10.25	3	195.0	1.5	1.78	7.04	1.01	2.72	193	<1
40388156		0.19	5.7	9.7	2.21	7.5	2.41	1	199.5	0.4	0.35	0.77	0.21	0.18	183	<1
40388157		0.27	7.6	14.4	3.10	10.9	3.35	1	272	0.4	0.54	1.15	0.30	0.30	203	1
40388158		0.27	9.1	16.3	3.86	10.3	3.50	1	256	0.5	0.61	1.31	0.31	0.46	197	<1
40388159		0.26	8.5	14.7	3.45	10.0	3.65	1	252	0.5	0.61	1.15	0.33	0.34	195	<1
40388160		0.28	7.9	16.1	3.67	34.6	3.84	2	402	0.5	0.63	1.28	0.27	0.35	200	1
40388161		0.24	7.8	14.6	3.20	12.2	3.29	1	263	0.5	0.59	1.12	0.29	0.31	167	<1
40388162		0.72	23.3	51.5	11.15	18.2	12.25	3	239	1.4	1.88	3.98	0.88	1.14	227	1
40388163		0.32	10.2	18.9	4.15	21.7	4.01	1	269	0.7	0.66	1.33	0.35	0.37	133	<1
40388164		0.90	26.2	56.7	12.65	8.2	13.05	2	124.5	1.5	2.30	4.82	1.07	1.25	216	1
40388165		0.55	21.4	30.7	6.68	13.4	7.38	2	183.0	1.3	1.29	2.60	0.63	0.73	596	<1
40388166		0.72	23.2	42.5	9.40	12.8	9.85	2	204	1.4	1.72	3.66	0.84	0.95	526	1
40388167		0.34	10.4	20.0	4.44	14.7	4.62	1	255	0.6	0.74	1.65	0.36	0.44	230	<1
40388168		0.32	11.5	22.1	4.93	15.5	4.81	1	259	0.7	0.85	1.88	0.39	0.49	174	<1
40388169		0.39	12.4	22.3	5.03	19.6	5.63	1	272	0.8	0.93	1.82	0.43	0.55	408	<1
40388170		0.47	13.7	26.0	5.89	21.4	5.96	2	294	1.0	1.08	2.23	0.55	0.60	471	<1
40388171		0.37	12.5	21.5	4.76	12.3	4.75	1	224	0.8	0.85	1.47	0.42	0.40	251	<1
40388172		0.36	12.6	22.2	4.93	13.6	5.37	1	271	0.8	0.86	1.74	0.43	0.50	247	<1
40388173		0.33	10.9	21.6	4.64	12.7	4.55	1	254	0.7	0.80	1.58	0.42	0.47	229	<1
40388174		0.34	11.1	19.8	4.64	11.8	4.76	1	247	0.7	0.80	1.56	0.39	0.42	251	<1
40388175		0.41	11.3	20.7	4.80	10.8	5.08	2	251	0.8	0.88	1.71	0.43	0.47	212	<1
40388176		0.34	9.6	19.0	4.55	13.0	4.50	1	288	0.7	0.82	1.75	0.36	0.70	208	<1
40388177		0.37	9.8	18.4	4.26	13.0	4.91	1	299	0.7	0.79	1.54	0.34	0.51	218	<1
40388178		0.29	7.4	16.1	3.54	11.2	4.13	1	268	0.7	0.61	1.29	0.29	0.33	162	<1
40388179		0.29	7.5	14.2	3.22	10.0	3.73	1	282	0.6	0.68	1.29	0.32	0.35	193	<1
40388180		0.37	11.9	33.8	8.01	92.5	7.01	2	472	0.6	0.99	3.92	0.43	1.45	91	<1
40388181		0.27	6.9	14.2	3.31	9.7	3.14	1	264	0.4	0.62	1.15	0.26	0.31	182	<1
40388182		0.40	9.9	20.8	4.61	12.1	4.44	2	282	0.7	0.89	1.71	0.39	0.45	247	1
40388183		0.35	9.6	19.4	4.49	10.8	4.71	2	283	0.7	0.84	1.55	0.36	0.39	199	<1
40388184		0.36	9.3	18.4	4.18	10.3	4.91	1	280	0.6	0.71	1.36	0.35	0.38	201	1
40388185		0.35	8.4	18.2	4.08	9.0	4.57	1	288	0.6	0.66	1.38	0.33	0.32	221	1
40388186		0.38	9.4	19.3	4.51	10.7	5.00	1	298	0.6	0.88	1.64	0.39	0.32	199	<1
40388187		0.36	10.5	22.0	4.88	11.3	5.18	1	320	0.7	0.96	1.64	0.44	0.39	224	<1
40388188		0.38	10.2	21.8	4.74	11.0	5.65	2	311	0.7	0.84	1.64	0.44	0.40	216	<1
40388189		0.37	9.5	19.5	4.59	10.8	4.85	1	276	0.6	0.88	1.53	0.34	0.36	192	<1



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 Account: RTECIKZ

Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388150		37.1	3.44	295	0.4	0.01	<0.005	0.038	0.001	<0.05	<0.2	0.01	0.30	0.04	0.10	20.0
40388151		24.2	2.07	149	0.9	0.01	<0.005	0.022	0.001	<0.05	0.2	0.01	0.08	0.05	0.10	61.7
40388152		19.1	1.66	116	0.8	0.02	<0.005	0.025	<0.001	0.07	<0.2	0.01	0.07	0.08	0.09	60.9
40388153		90.2	9.73	692	0.8	<0.01	<0.005	0.068	0.001	0.07	<0.2	0.01	<0.02	0.03	0.11	12.6
40388154		29.2	3.18	245	2.0	0.01	<0.005	0.031	0.001	0.11	<0.2	0.02	0.03	0.03	0.09	17.7
40388155		57.0	5.65	395	0.7	0.01	<0.005	0.040	0.002	0.09	<0.2	<0.01	0.02	0.01	0.11	20.0
40388156		13.1	1.22	75	2.5	0.01	<0.005	0.026	0.001	0.05	0.2	0.01	0.06	0.09	0.12	79.5
40388157		17.5	1.59	100	0.9	0.01	<0.005	0.020	0.001	<0.05	0.2	0.01	0.04	0.03	0.09	50.4
40388158		19.8	1.94	122	1.0	0.01	<0.005	0.024	0.001	<0.05	0.2	0.01	0.03	0.05	0.10	56.0
40388159		18.5	1.73	113	0.5	0.01	<0.005	0.023	0.001	<0.05	0.3	0.01	0.03	0.05	0.12	53.9
40388160		18.7	1.75	119	4.8	0.16	0.008	0.034	0.003	0.34	0.8	0.05	0.43	0.45	0.27	60.8
40388161		17.4	1.53	103	1.3	0.01	<0.005	0.021	0.001	<0.05	<0.2	0.01	0.04	0.05	0.12	57.7
40388162		58.8	5.23	346	0.4	0.01	<0.005	0.037	0.002	<0.05	<0.2	0.01	0.03	0.04	0.16	33.9
40388163		21.6	2.09	125	0.5	0.01	<0.005	0.023	0.001	<0.05	<0.2	0.01	0.05	0.05	0.13	60.7
40388164		64.9	6.41	405	0.4	0.01	<0.005	0.037	0.001	<0.05	<0.2	<0.01	<0.02	0.07	0.18	34.3
40388165		39.3	3.89	258	0.7	0.01	<0.005	0.029	0.003	<0.05	0.3	<0.01	0.02	0.08	0.22	48.3
40388166		53.3	5.22	333	0.8	0.01	<0.005	0.027	0.001	<0.05	0.2	0.01	<0.02	0.08	0.20	40.7
40388167		23.8	2.37	145	0.7	0.01	<0.005	0.026	0.001	<0.05	0.3	0.01	0.03	0.05	0.14	58.6
40388168		25.7	2.53	158	1.4	0.01	<0.005	0.020	0.001	<0.05	0.2	0.01	0.03	0.04	0.12	51.5
40388169		29.0	2.97	171	1.0	0.01	<0.005	0.021	0.002	<0.05	<0.2	0.01	<0.02	0.07	0.19	31.2
40388170		33.2	3.31	195	1.0	0.01	<0.005	0.023	0.002	<0.05	0.2	<0.01	0.02	0.08	0.19	31.4
40388171		26.3	2.49	154	0.6	0.01	<0.005	0.025	0.001	<0.05	0.3	0.01	0.05	0.08	0.17	63.4
40388172		27.6	2.73	166	1.0	0.01	<0.005	0.021	0.001	<0.05	0.2	0.01	0.04	0.06	0.13	48.8
40388173		25.8	2.26	150	1.1	0.01	<0.005	0.018	0.001	<0.05	0.2	<0.01	0.07	0.06	0.11	50.0
40388174		25.4	2.46	156	0.3	0.01	<0.005	0.020	0.001	<0.05	0.2	0.01	0.06	0.05	0.12	51.2
40388175		25.9	2.37	156	1.0	0.01	<0.005	0.023	0.001	<0.05	0.3	0.01	0.05	0.04	0.10	53.4
40388176		25.5	2.43	134	0.5	0.01	<0.005	0.020	0.001	<0.05	0.2	<0.01	0.05	0.05	0.13	46.6
40388177		24.5	2.47	126	0.6	0.01	<0.005	0.019	0.001	<0.05	0.2	<0.01	0.04	0.07	0.14	53.6
40388178		20.7	2.04	102	0.5	0.01	<0.005	0.020	0.001	<0.05	0.2	<0.01	0.05	0.07	0.13	53.3
40388179		19.5	1.59	100	0.5	0.01	<0.005	0.019	0.001	<0.05	0.3	<0.01	0.04	0.07	0.15	54.1
40388180		29.4	2.65	244	0.8	0.04	<0.005	0.034	0.001	<0.05	<0.2	0.02	0.38	0.03	0.06	16.4
40388181		18.9	1.72	92	0.9	0.01	<0.005	0.016	0.001	<0.05	0.3	<0.01	0.04	0.06	0.11	53.0
40388182		27.0	2.52	140	3.4	0.02	<0.005	0.019	0.001	<0.05	0.2	0.01	0.05	0.07	0.09	62.9
40388183		24.9	2.48	125	2.5	0.02	<0.005	0.016	0.001	<0.05	0.3	<0.01	0.04	0.05	0.10	56.4
40388184		24.0	2.23	126	0.6	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.03	0.05	0.11	57.6
40388185		23.8	2.13	116	0.3	0.01	<0.005	0.016	0.001	<0.05	<0.2	<0.01	0.04	0.05	0.08	57.5
40388186		26.1	2.65	133	0.7	0.01	<0.005	0.020	0.001	<0.05	0.2	<0.01	0.04	0.05	0.11	56.5
40388187		28.8	2.78	147	0.4	0.01	<0.005	0.016	0.001	<0.05	0.4	0.01	0.04	0.05	0.10	50.0
40388188		28.8	2.80	142	0.3	0.01	<0.005	0.018	0.001	<0.05	0.3	<0.01	0.04	0.05	0.09	51.7
40388189		25.5	2.41	136	1.2	0.01	<0.005	0.018	0.001	<0.05	0.3	<0.01	0.05	0.07	0.07	52.2



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Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.001	0.005	0.001
40388150		20.6	22.2	1.03	18.2	10.3	19.3	96	<0.001	0.0009	0.001			
40388151		132.5	17.7	0.97	180.0	1.5	24.6	121	<0.001	0.0200	0.027			
40388152		142.0	20.8	0.76	178.0	2.6	23.1	118	0.001	0.0342	0.062			
40388153		49.4	15.9	1.98	14.0	9.8	20.6	144	<0.001	0.0005	0.001			
40388154		36.7	43.6	2.04	66.8	25.0	17.9	117	0.001	0.0013	0.002			
40388155		47.9	20.7	2.62	21.6	7.9	22.9	135	<0.001	0.0014	0.001			
40388156		194.0	14.8	0.65	273	1.1	19.5	124	0.002	0.0066	0.015			
40388157		119.5	10.1	0.79	144.0	1.6	18.1	95	0.001	0.0242	0.017			
40388158		156.5	11.0	0.89	150.5	2.0	21.3	110	0.001	0.0350	0.032			
40388159		159.5	9.8	0.87	145.0	2.1	21.0	103	0.003	0.0483	0.052			
40388160		1050	40.2	2.74	657	6.4	17.4	103	0.023	0.0362	0.198			
40388161		155.0	11.1	0.73	151.5	1.4	16.0	107	0.002	0.0416	0.031			
40388162		155.0	10.5	1.96	31.7	2.8	29.2	155	<0.001	0.0023	0.002			
40388163		125.0	11.1	0.92	144.5	1.9	18.0	124	<0.001	0.0034	0.003			
40388164		160.0	15.1	2.17	19.4	2.9	35.1	171	<0.001	<0.0005	<0.001			
40388165		261	11.9	1.54	52.6	3.2	47.9	160	0.002	0.0018	0.001			
40388166		203	12.2	1.84	49.6	4.7	51.7	139	0.001	0.0007	<0.001			
40388167		169.0	10.8	0.98	147.5	2.7	20.6	122	0.001	0.0117	0.010			
40388168		117.5	11.9	0.99	119.0	2.4	20.3	110	0.001	0.0018	0.002			
40388169		165.5	10.9	1.11	48.4	2.4	38.7	96	<0.001	0.0034	0.003			
40388170		193.5	12.0	1.20	48.9	2.4	33.9	101	<0.001	0.0029	0.003			
40388171		192.0	12.2	1.09	171.5	2.9	29.1	119	<0.001	0.0018	0.002			
40388172		143.5	15.1	0.92	138.0	2.4	30.9	118	<0.001	0.0010	0.001			
40388173		133.5	13.1	1.12	151.5	2.0	27.8	106	0.001	0.0010	0.002			
40388174		142.0	12.7	0.92	161.0	2.3	26.4	103	0.001	0.0014	0.002			
40388175		146.5	15.9	1.01	173.0	2.1	25.8	107	0.003	0.0023	0.002			
40388176		140.0	11.4	0.99	148.5	2.3	23.6	104	0.001	0.0023	0.003			
40388177		165.5	11.6	0.95	171.5	2.1	28.4	110	0.001	0.0084	0.011			
40388178		180.0	11.6	0.80	167.0	2.3	28.0	103	0.001	0.0022	0.003			
40388179		185.5	10.5	0.76	145.5	2.2	27.5	107	0.002	0.0023	0.002			
40388180		15.3	22.4	0.90	13.4	11.2	15.7	90	<0.001	<0.0005	0.001			
40388181		167.5	10.7	0.76	175.5	2.5	25.4	103	0.003	0.0026	0.003			
40388182		155.5	14.4	0.84	257	2.4	23.8	113	0.004	0.0027	0.003			
40388183		157.5	12.6	0.91	196.0	2.3	24.5	103	0.007	0.0079	0.010			
40388184		143.0	11.1	0.93	208	2.9	23.9	98	0.001	0.0063	0.008			
40388185		133.0	9.5	0.81	209	2.1	23.2	95	0.001	0.0047	0.007			
40388186		149.0	10.5	0.87	197.5	2.5	24.8	97	0.001	0.0017	0.003			
40388187		146.0	9.4	0.89	163.0	2.9	23.7	94	0.002	0.0025	0.004			
40388188		137.5	10.6	0.93	166.0	2.3	26.2	94	0.002	0.0042	0.005			
40388189		126.5	11.5	0.88	171.0	2.2	24.2	96	0.002	0.0054	0.007			





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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40388190		0.17	44.7	18.60	12.40	9.50	7.58	2.17	1.11	0.355	1.35	0.14	0.17	0.05	0.04	100.24
40388191		6.37	46.7	17.30	12.30	10.00	8.01	2.67	0.47	0.045	1.69	0.15	0.19	0.03	0.02	100.16
40388192		6.39	46.2	16.75	12.80	9.70	8.58	2.60	0.45	0.038	1.69	0.16	0.20	0.03	0.02	99.81
40388193		6.46	46.0	16.30	12.45	9.78	8.55	2.43	0.45	0.040	1.64	0.17	0.19	0.03	0.02	98.77
40388194		6.51	46.5	17.35	11.85	10.05	8.11	2.61	0.43	0.040	1.55	0.15	0.18	0.03	0.02	99.79
40388195		6.28	45.8	16.30	12.45	9.53	9.00	2.43	0.40	0.044	1.51	0.16	0.17	0.03	0.02	99.42
40388196		6.16	45.4	16.10	12.20	9.40	8.76	2.45	0.38	0.040	1.45	0.15	0.17	0.03	0.02	98.58
40388197		6.28	45.8	16.85	11.85	9.95	8.21	2.52	0.39	0.042	1.45	0.15	0.15	0.03	0.02	99.04
40388198		6.45	46.9	17.50	12.00	10.25	8.30	2.64	0.41	0.047	1.51	0.15	0.16	0.03	0.02	100.88
40388199		2.89	46.6	17.40	12.60	9.90	8.68	2.58	0.42	0.042	1.59	0.16	0.16	0.03	0.02	100.90
40388200		2.76	46.5	17.25	12.20	10.05	8.71	2.54	0.41	0.046	1.43	0.15	0.16	0.03	0.02	100.26
40388201		6.52	46.3	17.45	12.65	10.15	8.08	2.53	0.36	0.044	1.40	0.16	0.14	0.03	0.02	99.68
40388202		6.24	46.9	18.20	12.45	10.65	7.93	2.56	0.33	0.046	1.21	0.16	0.12	0.03	0.02	100.95
40388203		6.58	47.4	18.30	12.30	10.50	7.80	2.67	0.39	0.038	1.51	0.15	0.15	0.03	0.02	101.93
40388204		6.23	47.0	17.95	12.15	10.25	8.78	2.56	0.38	0.046	1.48	0.15	0.19	0.03	0.02	101.48
40388205		6.52	46.3	17.95	11.45	10.30	8.21	2.43	0.35	0.048	1.42	0.15	0.15	0.03	0.02	99.34
40388206		6.30	46.1	17.70	11.75	10.10	8.39	2.51	0.38	0.043	1.50	0.15	0.18	0.03	0.02	99.50
40388207		6.32	46.6	18.05	11.70	10.25	8.27	2.55	0.40	0.040	1.48	0.14	0.17	0.03	0.02	100.61
40388208		6.38	46.6	18.15	11.70	10.30	8.06	2.56	0.40	0.036	1.53	0.14	0.17	0.03	0.02	100.40
40388209		6.36	46.6	18.20	11.35	10.50	8.15	2.50	0.38	0.041	1.45	0.14	0.16	0.03	0.02	100.68
40388210		1.59	55.4	18.55	7.64	6.30	2.60	4.09	2.40	0.003	0.98	0.11	0.31	0.07	0.11	98.85
40388211		6.43	46.5	18.15	11.00	10.35	7.95	2.49	0.36	0.041	1.38	0.14	0.16	0.03	0.02	99.06
40388212		6.44	46.0	18.20	11.15	10.55	8.16	2.61	0.37	0.041	1.31	0.14	0.17	0.04	0.02	99.33
40388213		6.36	46.7	18.60	10.95	10.55	8.05	2.57	0.37	0.040	1.32	0.14	0.17	0.04	0.02	100.30
40388214		6.39	46.9	18.55	11.00	10.80	7.89	2.55	0.38	0.038	1.43	0.14	0.15	0.03	0.02	100.38
40388215		6.33	47.1	19.20	10.45	10.80	7.51	2.55	0.39	0.035	1.34	0.14	0.17	0.03	0.02	100.50
40388216		6.05	46.4	19.15	10.85	10.40	7.67	2.47	0.37	0.030	1.38	0.14	0.15	0.03	0.02	99.79
40388217		6.31	46.3	18.45	11.85	10.35	8.39	2.49	0.39	0.033	1.43	0.15	0.16	0.03	0.02	100.59
40388218		6.27	45.7	18.75	11.65	10.15	8.00	2.35	0.38	0.034	1.49	0.15	0.16	0.03	0.02	99.29
40388219		6.16	45.7	18.15	11.20	10.25	8.49	2.41	0.37	0.028	1.35	0.14	0.16	0.03	0.02	98.90
40388220		0.17	44.3	18.35	12.25	9.46	7.48	2.14	1.09	0.358	1.35	0.14	0.15	0.05	0.04	99.15
40388221		6.63	46.0	18.40	11.05	10.45	8.67	2.45	0.36	0.031	1.35	0.14	0.16	0.03	0.02	99.58
40388222		6.14	46.1	17.80	11.40	10.15	9.40	2.39	0.37	0.034	1.32	0.14	0.15	0.03	0.02	99.88
40388223		6.40	46.1	17.80	11.70	10.10	9.82	2.36	0.35	0.033	1.24	0.14	0.15	0.03	0.02	100.29
40388224		6.23	45.9	17.55	12.30	9.98	9.84	2.36	0.33	0.030	1.20	0.15	0.10	0.03	0.01	100.32
40388225		6.38	46.4	18.15	11.55	10.10	9.67	2.41	0.35	0.036	1.22	0.14	0.13	0.03	0.02	100.75
40388226		6.30	46.6	18.75	11.00	10.45	9.18	2.34	0.33	0.039	1.21	0.14	0.16	0.03	0.02	100.68
40388227		6.27	45.9	18.25	11.05	10.25	9.19	2.44	0.33	0.036	1.20	0.14	0.15	0.03	0.02	99.36
40388228		6.19	45.6	17.90	10.90	10.45	9.14	2.40	0.33	0.038	1.24	0.14	0.14	0.03	0.01	98.73
40388229		2.96	45.4	17.65	11.25	9.96	9.52	2.36	0.33	0.032	1.21	0.14	0.15	0.03	0.01	98.54





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Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40388190		2.07	0.03	0.32	409	31.7	2710	3.14	3.91	2.23	1.36	24.2	4.37	2.8	0.83	14.8
40388191		0.58	<0.01	0.06	184.5	33.0	290	0.40	4.42	2.57	1.36	20.5	4.79	3.2	0.91	15.4
40388192		0.59	0.01	0.07	193.5	34.9	270	0.43	4.73	2.51	1.37	22.4	4.83	3.3	0.92	16.2
40388193		0.72	<0.01	0.06	172.0	31.6	260	0.49	4.23	2.48	1.41	19.8	4.62	3.1	0.90	17.7
40388194		0.92	<0.01	0.05	193.0	35.1	290	0.60	4.78	2.53	1.41	22.1	4.70	3.7	0.94	16.1
40388195		1.58	0.01	0.05	168.0	30.8	300	0.65	4.27	2.00	1.21	19.9	4.54	3.0	0.81	14.5
40388196		2.03	0.01	0.04	160.0	29.6	280	0.76	3.78	2.23	1.36	19.8	4.17	3.1	0.87	13.6
40388197		1.63	0.01	0.04	163.0	27.5	290	0.66	3.78	1.97	1.29	19.3	3.66	2.8	0.72	12.7
40388198		0.96	<0.01	0.04	186.0	31.3	350	0.77	4.55	2.30	1.54	22.9	4.50	3.1	0.81	14.8
40388199		0.72	0.01	0.05	183.0	31.6	300	0.63	4.25	2.36	1.42	21.8	4.31	3.1	0.83	14.3
40388200		0.76	<0.01	0.05	188.5	32.1	340	0.65	4.09	2.29	1.45	22.7	4.42	3.3	0.89	14.8
40388201		0.37	0.01	0.05	158.0	25.6	290	0.47	3.62	2.11	1.34	20.5	3.82	2.5	0.68	11.7
40388202		0.34	<0.01	0.05	146.0	21.4	320	0.34	3.01	1.65	0.98	20.7	3.19	2.0	0.67	10.0
40388203		0.67	<0.01	0.06	181.0	29.1	280	0.52	3.98	2.18	1.27	22.0	4.07	2.9	0.80	13.3
40388204		0.49	<0.01	0.06	186.0	33.2	340	0.44	4.63	2.58	1.38	22.9	4.76	3.2	0.88	15.0
40388205		0.53	<0.01	0.06	185.5	31.6	360	0.48	4.29	2.10	1.26	21.8	4.41	3.3	0.82	14.6
40388206		0.65	<0.01	0.06	177.5	30.8	300	0.49	4.28	2.22	1.33	21.2	4.66	3.1	0.87	14.4
40388207		0.91	0.01	0.05	158.0	29.6	260	0.57	4.06	1.87	1.22	19.8	3.88	2.8	0.82	13.8
40388208		0.70	<0.01	0.05	192.0	34.4	280	0.66	4.74	2.64	1.50	23.1	4.70	3.7	0.91	16.0
40388209		1.16	0.01	0.06	188.0	33.2	320	0.71	4.73	2.62	1.49	24.7	4.92	3.4	0.92	15.5
40388210		0.29	0.03	0.10	945	70.7	30	1.49	7.47	3.56	1.89	25.6	8.20	9.0	1.41	30.7
40388211		0.49	<0.01	0.05	144.5	26.7	330	0.62	4.05	2.10	1.30	22.1	3.56	3.2	0.80	12.1
40388212		0.57	<0.01	0.05	163.0	28.7	310	0.58	4.18	2.22	1.37	21.7	4.17	3.0	0.79	12.8
40388213		0.78	0.01	0.05	169.0	33.1	300	0.55	4.00	2.45	1.56	22.4	4.41	3.3	0.82	15.0
40388214		0.50	<0.01	0.06	160.5	28.6	290	0.50	4.08	2.08	1.32	22.5	4.34	3.3	0.77	12.9
40388215		0.76	0.01	0.05	168.0	30.6	270	0.48	4.22	2.41	1.46	23.3	4.41	3.0	0.87	13.6
40388216		0.73	0.01	0.05	185.5	32.2	250	0.52	4.29	2.39	1.39	24.6	4.62	3.3	0.88	14.4
40388217		0.55	0.01	0.03	159.5	29.0	250	0.48	4.29	2.16	1.30	22.3	4.42	3.2	0.82	13.3
40388218		0.43	<0.01	0.05	154.5	28.1	250	0.42	3.87	1.83	1.27	21.5	3.92	3.0	0.75	12.8
40388219		0.60	<0.01	0.03	155.0	28.4	210	0.53	3.99	2.11	1.36	20.7	3.87	2.8	0.82	12.7
40388220		1.99	0.02	0.34	352	27.8	2700	2.64	3.85	2.12	1.28	22.4	3.80	2.7	0.74	12.3
40388221		0.47	<0.01	0.04	152.0	26.8	240	0.37	3.60	2.07	1.19	21.9	3.74	2.8	0.74	12.3
40388222		0.58	<0.01	0.05	156.5	27.6	250	0.40	4.25	2.00	1.24	21.5	3.60	3.0	0.81	12.4
40388223		0.45	<0.01	0.04	145.0	24.6	240	0.37	3.51	1.80	1.24	20.4	3.74	2.6	0.74	11.2
40388224		0.54	<0.01	0.05	127.0	19.8	220	0.34	3.05	1.61	1.10	19.5	3.03	2.0	0.62	8.6
40388225		0.54	<0.01	0.03	141.5	23.2	280	0.39	3.52	1.68	1.19	20.7	3.41	2.4	0.76	10.7
40388226		0.43	<0.01	0.04	163.0	25.6	290	0.30	3.42	1.87	1.17	21.1	3.44	2.6	0.72	11.8
40388227		0.37	<0.01	0.04	147.5	26.2	270	0.29	3.70	2.12	1.10	21.1	3.80	2.7	0.73	11.7
40388228		0.41	<0.01	0.04	136.5	23.2	280	0.29	3.07	1.80	1.16	19.7	3.35	2.4	0.66	10.0
40388229		0.50	<0.01	0.04	135.0	24.6	250	0.36	3.83	2.07	1.05	19.4	3.78	2.5	0.70	11.3



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Account: RTECIKZ

Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40388190		0.33	8.7	18.1	4.05	42.7	4.53	2	491	0.6	0.71	1.48	0.32	0.37	171	<1
40388191		0.38	9.2	18.4	4.31	10.7	4.96	1	264	0.6	0.79	1.38	0.37	0.33	191	<1
40388192		0.40	9.7	20.1	4.72	11.0	4.85	1	274	0.7	0.86	1.50	0.41	0.38	202	<1
40388193		0.32	8.8	19.0	4.28	10.2	4.69	1	258	0.6	0.75	1.43	0.35	0.36	224	1
40388194		0.35	9.7	19.9	4.62	11.6	4.68	1	305	0.7	0.85	1.57	0.44	0.39	193	<1
40388195		0.33	8.2	17.7	4.10	10.8	4.37	1	271	0.6	0.73	1.42	0.36	0.34	183	<1
40388196		0.30	8.1	17.6	3.96	10.3	3.91	1	267	0.6	0.65	1.27	0.32	0.34	179	<1
40388197		0.30	7.1	16.4	3.70	9.8	3.59	1	263	0.5	0.67	1.27	0.24	0.39	161	1
40388198		0.35	8.5	19.2	4.29	10.8	4.54	1	305	0.7	0.70	1.37	0.34	0.34	186	<1
40388199		0.32	8.8	19.0	4.31	10.6	4.49	1	293	0.6	0.70	1.51	0.33	0.41	189	<1
40388200		0.34	8.5	17.7	4.31	10.5	4.18	1	302	0.6	0.83	1.49	0.35	0.36	192	<1
40388201		0.30	6.9	14.8	3.31	8.9	3.24	1	277	0.5	0.62	1.25	0.31	0.27	173	<1
40388202		0.25	5.5	12.3	2.75	7.2	3.13	1	288	0.4	0.54	0.99	0.23	0.24	162	<1
40388203		0.28	8.1	16.6	3.71	9.5	4.09	1	314	0.6	0.77	1.37	0.32	0.34	188	<1
40388204		0.36	9.1	18.9	4.49	9.8	4.70	1	307	0.7	0.77	1.48	0.31	0.37	197	<1
40388205		0.34	8.8	18.5	4.23	9.9	4.54	1	305	0.6	0.77	1.50	0.40	0.36	187	<1
40388206		0.31	8.6	18.5	4.22	9.4	4.18	1	285	0.6	0.74	1.44	0.37	0.33	183	<1
40388207		0.32	7.8	16.8	3.98	9.3	4.28	1	273	0.5	0.69	1.31	0.33	0.29	164	<1
40388208		0.36	9.7	18.8	4.58	10.9	4.68	1	325	0.7	0.85	1.56	0.44	0.45	201	<1
40388209		0.35	8.8	19.1	4.53	10.4	5.00	1	324	0.6	0.79	1.47	0.36	0.29	195	<1
40388210		0.50	14.5	41.2	9.60	110.0	9.27	3	592	1.1	1.20	4.35	0.49	1.95	130	1
40388211		0.36	7.5	15.9	3.37	9.2	3.58	1	270	0.6	0.70	1.30	0.26	0.27	189	<1
40388212		0.30	8.8	16.4	3.82	9.2	3.50	2	283	0.5	0.65	1.21	0.31	0.39	170	<1
40388213		0.34	8.6	19.1	4.41	8.7	4.58	1	292	0.6	0.73	2.02	0.34	0.36	173	<1
40388214		0.34	8.5	16.2	3.91	9.4	4.12	1	288	0.5	0.74	1.44	0.30	0.31	191	<1
40388215		0.34	9.1	17.5	3.94	9.9	4.26	1	292	0.6	0.76	1.34	0.36	0.30	180	<1
40388216		0.33	9.1	18.3	4.18	10.4	4.34	2	313	0.6	0.76	1.46	0.35	0.55	190	<1
40388217		0.31	8.7	17.1	3.85	9.5	4.42	1	281	0.6	0.69	1.37	0.32	0.33	184	<1
40388218		0.30	8.7	16.4	3.55	8.3	3.76	1	274	0.5	0.65	1.25	0.34	0.31	178	<1
40388219		0.31	8.2	16.2	3.67	9.3	4.02	1	271	0.5	0.65	1.20	0.30	0.31	165	<1
40388220		0.31	8.0	16.0	3.69	36.0	3.96	2	413	0.6	0.62	1.31	0.31	0.37	192	1
40388221		0.30	7.7	15.4	3.61	8.6	3.71	1	278	0.6	0.64	1.22	0.30	0.30	170	<1
40388222		0.31	7.7	15.4	3.63	9.1	3.83	1	270	0.6	0.64	1.23	0.32	0.28	174	<1
40388223		0.29	7.2	14.4	3.26	8.2	3.29	1	267	0.5	0.54	1.06	0.28	0.30	151	<1
40388224		0.23	5.9	11.2	2.62	7.4	3.00	1	264	0.4	0.50	0.91	0.23	0.19	140	1
40388225		0.27	6.6	14.4	3.06	8.7	3.35	1	272	0.4	0.57	1.01	0.24	0.26	157	2
40388226		0.30	7.0	15.1	3.52	8.1	3.62	4	302	0.5	0.57	1.25	0.30	1.83	155	<1
40388227		0.29	7.3	15.1	3.34	7.4	3.51	1	279	0.6	0.59	1.17	0.25	0.25	156	1
40388228		0.25	6.9	13.7	3.18	7.4	3.23	1	269	0.5	0.57	1.04	0.26	0.27	158	<1
40388229		0.26	7.4	14.5	3.32	7.7	3.55	1	263	0.6	0.60	1.10	0.31	0.26	153	<1



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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388190		22.8	2.24	123	5.6	0.14	0.009	0.031	0.003	0.45	0.9	0.05	0.42	0.45	0.26	67.4
40388191		24.6	2.43	128	0.4	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.04	0.05	0.12	56.4
40388192		26.5	2.73	142	0.4	0.01	<0.005	0.021	0.001	<0.05	0.3	0.01	0.04	0.04	0.12	58.5
40388193		25.3	2.40	124	0.8	0.01	<0.005	0.019	0.001	<0.05	0.3	<0.01	0.05	0.06	0.10	59.2
40388194		26.1	2.56	138	1.1	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.04	0.06	0.10	54.2
40388195		22.9	2.28	118	2.2	0.01	<0.005	0.016	0.001	<0.05	0.2	<0.01	0.07	0.06	0.09	59.8
40388196		21.9	2.00	116	2.2	0.01	<0.005	0.020	0.001	<0.05	0.2	<0.01	0.10	0.08	0.08	60.0
40388197		20.3	1.91	116	2.5	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.09	0.07	0.09	56.3
40388198		23.7	2.43	119	1.6	0.01	<0.005	0.015	0.001	<0.05	0.2	0.01	0.06	0.07	0.09	55.8
40388199		23.4	2.22	125	0.9	0.01	<0.005	0.018	0.001	<0.05	0.2	<0.01	0.05	0.06	0.09	60.4
40388200		24.2	2.37	127	0.9	0.01	<0.005	0.018	0.001	<0.05	<0.2	<0.01	0.04	0.06	0.10	57.4
40388201		19.6	1.88	99	0.3	0.01	<0.005	0.015	0.001	<0.05	0.2	0.01	0.04	0.07	0.09	53.3
40388202		16.5	1.63	80	0.2	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.03	0.06	0.10	54.3
40388203		22.1	1.96	113	0.3	0.01	<0.005	0.015	0.001	<0.05	<0.2	0.01	0.04	0.06	0.11	48.9
40388204		25.5	2.31	129	0.6	0.01	<0.005	0.018	0.001	<0.05	0.2	<0.01	0.03	0.04	0.09	58.4
40388205		23.2	2.36	123	1.2	0.02	<0.005	0.023	0.001	0.09	0.2	<0.01	0.05	0.05	0.09	54.5
40388206		23.9	2.27	125	0.7	0.02	<0.005	0.023	0.001	0.06	0.4	<0.01	0.04	0.05	0.09	57.5
40388207		22.3	2.13	113	2.3	0.02	<0.005	0.017	0.001	0.05	0.2	0.01	0.05	0.05	0.07	54.9
40388208		26.8	2.51	144	8.0	0.03	<0.005	0.020	0.001	0.11	0.3	0.01	0.06	0.08	0.13	55.2
40388209		24.6	2.32	128	2.8	0.01	<0.005	0.014	0.001	0.07	0.2	0.01	0.05	0.05	0.09	52.7
40388210		37.6	3.42	369	0.4	0.03	<0.005	0.037	0.001	0.05	0.3	0.01	0.40	0.04	0.06	16.7
40388211		22.0	1.87	103	1.0	0.02	<0.005	0.021	0.001	0.07	0.3	<0.01	0.04	0.05	0.09	48.5
40388212		22.1	1.78	121	1.9	0.02	<0.005	0.023	0.001	0.07	0.4	<0.01	0.04	0.05	0.09	48.8
40388213		22.8	1.96	129	2.2	0.02	<0.005	0.018	0.001	0.07	0.3	<0.01	0.05	0.05	0.10	49.4
40388214		21.6	2.14	123	0.4	0.02	<0.005	0.021	0.001	0.05	0.4	<0.01	0.03	0.07	0.09	50.5
40388215		22.4	2.14	125	0.4	0.02	<0.005	0.020	0.001	0.05	0.2	<0.01	0.03	0.05	0.09	45.0
40388216		23.1	2.23	137	0.5	0.02	<0.005	0.023	0.001	0.05	0.3	<0.01	0.04	0.05	0.08	45.9
40388217		21.5	1.95	123	1.2	0.02	<0.005	0.023	0.001	0.05	0.3	<0.01	0.04	0.07	0.09	52.3
40388218		20.7	1.77	116	0.5	0.02	<0.005	0.021	0.001	0.05	0.4	<0.01	0.04	0.05	0.08	53.4
40388219		20.8	2.10	121	1.8	0.02	<0.005	0.021	0.001	0.06	0.2	<0.01	0.05	0.07	0.09	55.5
40388220		19.4	1.77	114	4.7	0.13	<0.005	0.035	0.003	0.42	1.1	0.05	0.43	0.50	0.25	71.0
40388221		20.2	1.85	109	0.6	0.02	<0.005	0.020	<0.001	<0.05	0.2	<0.01	0.03	0.05	0.06	54.8
40388222		20.3	1.97	121	0.7	0.01	<0.005	0.020	0.001	<0.05	0.2	<0.01	0.04	0.04	0.12	58.0
40388223		18.6	1.71	105	0.5	0.02	<0.005	0.020	0.001	<0.05	0.2	<0.01	0.03	0.05	0.08	63.7
40388224		15.2	1.53	82	1.2	0.02	<0.005	0.018	0.001	0.05	0.2	<0.01	0.04	0.06	0.08	64.1
40388225		17.5	1.56	93	2.7	0.02	<0.005	0.018	0.001	0.07	0.2	0.01	0.04	0.04	0.07	58.7
40388226		19.0	1.71	106	0.2	0.02	<0.005	0.019	0.001	<0.05	0.3	0.01	0.02	0.05	0.10	60.2
40388227		19.3	1.76	109	0.2	0.02	<0.005	0.019	0.001	<0.05	0.3	0.01	0.03	0.05	0.10	57.1
40388228		17.6	1.73	96	0.8	0.02	<0.005	0.016	0.001	0.05	0.3	0.01	0.03	0.05	0.09	56.1
40388229		18.2	1.73	101	1.4	0.02	<0.005	0.020	0.001	0.05	0.3	0.01	0.03	0.05	0.09	62.5



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Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.001	0.005	0.001
40388190		1100	39.8	2.94	687	6.9	19.8	110	0.022	0.0501	0.204			
40388191		137.0	11.7	0.93	210	2.2	25.7	101	0.002	0.0050	0.007			
40388192		142.5	11.3	1.55	220	2.4	24.2	101	0.003	0.0055	0.009			
40388193		138.5	12.3	0.98	224	2.0	23.4	103	0.001	0.0047	0.008			
40388194		128.5	13.0	0.85	203	2.1	22.7	96	0.001	0.0033	0.004			
40388195		129.5	16.4	0.90	247	2.5	22.6	111	0.001	0.0021	0.004			
40388196		141.0	14.8	0.83	243	2.5	21.8	107	0.002	0.0009	0.002			
40388197		118.0	14.5	0.89	224	2.4	23.0	111	0.002	0.0029	0.004			
40388198		129.5	14.0	0.87	221	2.1	24.1	106	0.002	0.0050	0.007			
40388199		138.5	11.7	0.94	251	1.9	24.2	105	0.001	0.0041	0.006			
40388200		126.5	11.2	0.85	241	1.9	23.4	100	0.001	0.0041	0.006			
40388201		144.0	8.7	0.79	208	1.9	22.7	100	0.002	0.0043	0.006			
40388202		167.5	8.2	0.76	212	1.7	23.8	97	0.001	0.0037	0.005			
40388203		141.0	7.7	0.83	200	1.8	22.7	99	0.001	0.0035	0.005			
40388204		125.5	8.6	0.84	245	2.0	23.0	98	0.002	0.0046	0.006			
40388205		108.0	8.4	0.91	229	1.9	22.2	93	0.001	0.0036	0.006			
40388206		113.5	10.4	0.88	236	1.9	21.5	96	0.002	0.0042	0.006			
40388207		114.5	12.9	0.88	227	1.7	20.9	94	0.002	0.0046	0.007			
40388208		131.5	13.1	0.94	224	2.1	21.1	96	0.002	0.0044	0.006			
40388209		120.0	14.7	0.84	229	2.4	22.1	94	0.001	0.0063	0.009			
40388210		16.6	22.3	0.87	12.8	11.5	15.8	93	<0.001	<0.0005	0.001			
40388211		111.0	11.1	0.88	223	2.3	21.5	89	<0.001	0.0034	0.004			
40388212		125.0	11.2	0.86	234	2.1	19.2	89	0.001	0.0009	0.003			
40388213		113.0	12.0	0.89	233	1.9	19.5	90	0.002	0.0026	0.004			
40388214		117.0	11.6	0.86	228	1.6	23.2	86	<0.001	0.0062	0.010			
40388215		104.0	11.4	0.88	214	1.6	19.8	84	0.001	0.0031	0.005			
40388216		100.5	11.5	0.85	225	1.7	17.7	88	0.002	0.0021	0.003			
40388217		116.5	13.3	1.13	246	3.3	18.3	97	0.001	0.0065	0.010			
40388218		107.0	12.5	1.02	260	2.3	17.9	94	0.001	0.0040	0.003			
40388219		104.0	15.0	0.91	270	1.9	18.9	94	0.001	0.0032	0.004			
40388220		1120	40.2	3.00	707	7.4	19.3	112	0.020	0.0430	0.207			
40388221		91.3	11.5	0.83	278	1.9	18.8	89	0.001	0.0014	0.002			
40388222		97.9	10.3	0.85	293	1.8	20.1	88	<0.001	0.0020	0.004			
40388223		106.0	12.5	0.81	318	1.6	19.7	92	<0.001	0.0013	0.003			
40388224		115.0	12.2	0.73	317	1.5	21.3	96	0.001	0.0035	0.005			
40388225		101.5	15.5	0.70	313	1.6	18.8	93	0.002	0.0044	0.007			
40388226		118.0	8.2	0.60	301	1.7	19.7	86	0.002	0.0045	0.007			
40388227		115.0	7.7	0.85	293	1.5	18.5	83	0.001	0.0044	0.007			
40388228		115.0	10.9	0.73	300	1.5	19.9	85	0.003	0.0048	0.007			
40388229		119.5	12.0	0.77	317	1.6	19.2	88	0.003	0.0045	0.007			





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 Plus Appendix Pages  
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 Account: RTECIKZ

Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40388230		2.97	46.1	17.90	11.45	10.20	9.70	2.40	0.33	0.036	1.22	0.14	0.14	0.03	0.01	100.20
40388231		6.39	45.9	18.20	11.30	10.25	9.39	2.42	0.33	0.032	1.31	0.14	0.14	0.03	0.02	99.95
40388232		6.58	46.4	18.40	11.20	10.60	9.32	2.42	0.33	0.035	1.35	0.14	0.14	0.03	0.02	100.96
40388233		6.20	46.7	18.80	11.15	10.35	8.98	2.47	0.37	0.026	1.40	0.14	0.17	0.03	0.02	101.35
40388234		6.17	46.0	18.35	11.60	10.35	9.06	2.34	0.35	0.026	1.28	0.14	0.14	0.03	0.02	100.52
40388235		6.42	46.4	18.50	11.25	10.35	9.28	2.41	0.35	0.026	1.26	0.14	0.14	0.03	0.02	100.68
40388236		6.27	45.8	18.85	11.00	10.35	8.82	2.22	0.34	0.029	1.12	0.14	0.13	0.03	0.02	100.10
40388237		6.12	46.1	19.25	10.55	10.75	8.74	2.45	0.30	0.028	1.16	0.13	0.13	0.03	0.01	100.14
40388238		6.51	45.7	19.10	10.40	12.20	8.48	2.70	0.32	0.027	1.19	0.13	0.14	0.04	0.02	100.99
40388239		6.48	45.7	18.60	10.40	10.80	8.62	2.39	0.34	0.028	1.25	0.13	0.15	0.03	0.02	99.09
40388240		1.95	57.2	17.75	7.25	5.91	2.46	3.94	2.58	0.002	0.98	0.10	0.27	0.07	0.11	99.08
40388241		6.04	45.9	18.60	10.40	10.65	8.89	2.40	0.35	0.032	1.25	0.13	0.14	0.03	0.02	99.50
40388242		6.58	46.1	19.35	10.50	10.90	8.24	2.40	0.31	0.035	1.15	0.13	0.12	0.04	0.01	99.81
40388243		3.36	45.6	19.20	11.35	10.30	7.56	2.55	0.35	0.025	0.94	0.13	0.09	0.04	0.01	99.12
40388244		3.24	46.3	19.40	10.85	10.70	8.09	2.43	0.36	0.032	1.17	0.13	0.12	0.04	0.01	100.77
40388245		3.20	47.0	18.75	11.25	10.05	9.14	2.16	0.34	0.030	1.20	0.13	0.14	0.03	0.01	101.10
40388246		3.07	45.7	17.95	13.30	9.44	9.77	2.04	0.33	0.024	0.99	0.16	0.08	0.03	0.01	101.31
40388247		0.85	34.4	22.1	17.05	7.84	9.84	1.22	0.19	5.92	1.13	0.13	0.07	0.03	0.01	101.22
40388248		2.39	45.2	20.8	10.85	10.70	7.02	1.94	0.39	0.018	0.88	0.10	0.11	0.04	0.02	101.53
40388249		3.12	44.9	20.2	10.25	9.87	7.30	2.52	0.49	0.018	0.87	0.10	0.13	0.06	0.02	100.99
40387250		0.18	44.6	18.30	14.20	9.51	7.73	2.08	0.62	0.314	1.30	0.14	0.17	0.04	0.02	100.45
40387251		3.10	46.3	21.2	8.51	10.15	6.95	2.66	0.52	0.016	0.84	0.09	0.11	0.08	0.02	101.78
40387252		3.12	44.4	20.3	10.95	9.30	6.22	2.47	0.78	0.017	0.81	0.10	0.12	0.07	0.05	99.52
40387253		3.15	45.7	20.6	11.25	9.29	5.45	2.87	0.70	0.016	0.91	0.10	0.14	0.07	0.04	100.72
40387254		3.04	45.5	20.5	10.70	9.67	6.20	2.53	0.67	0.017	0.76	0.10	0.10	0.06	0.04	100.82
40387255		3.09	45.9	19.90	11.05	8.53	5.78	2.92	0.68	0.021	0.98	0.09	0.14	0.07	0.04	100.34
40387256		2.99	45.1	21.1	9.91	9.75	5.81	2.84	0.45	0.016	0.72	0.09	0.09	0.08	0.02	100.62
40387257		3.05	47.7	22.0	7.91	9.11	5.64	3.37	0.53	0.017	0.70	0.08	0.08	0.08	0.02	101.42
40387258		2.94	49.2	22.7	7.40	8.82	5.11	3.49	0.72	0.017	0.65	0.07	0.08	0.08	0.03	101.78
40387259		1.30	46.8	21.8	9.26	9.46	4.66	3.39	0.47	0.016	0.54	0.06	0.07	0.08	0.01	100.59
40387260		1.30	47.0	21.8	9.09	9.50	4.66	3.39	0.46	0.016	0.54	0.07	0.07	0.08	0.01	100.68
40387261		2.82	48.2	22.0	6.92	8.51	5.46	3.61	0.59	0.015	0.62	0.07	0.07	0.09	0.02	100.36
40387262		3.01	46.1	20.6	8.66	9.42	5.76	3.26	0.37	0.015	1.13	0.09	0.12	0.06	0.01	100.36
40387263		2.75	45.1	20.8	8.23	11.20	5.33	3.10	0.06	0.017	0.66	0.08	0.08	0.01	<0.01	99.68
40387264		2.46	46.4	21.1	7.41	11.10	5.32	3.23	0.16	0.015	0.70	0.08	0.08	0.02	<0.01	100.34
40387265		2.56	46.9	21.1	9.62	8.94	5.43	3.07	0.72	0.015	0.78	0.10	0.10	0.06	0.02	100.36
40387266		1.33	47.5	18.35	11.85	8.49	5.16	3.32	0.58	0.012	1.53	0.13	0.24	0.05	0.02	100.55
40387267		3.05	45.3	19.85	11.10	9.73	5.48	2.81	0.53	0.018	0.89	0.11	0.10	0.05	0.02	99.86
40387268		3.00	44.3	19.35	11.80	9.81	5.39	2.74	0.44	0.019	0.89	0.10	0.11	0.05	0.01	99.13
40387269		3.16	43.2	19.60	12.05	10.10	5.14	2.68	0.33	0.031	0.78	0.09	0.09	0.06	0.01	98.81





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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40388230		0.54	<0.01	0.03	135.5	24.4	270	0.33	3.61	2.00	1.22	19.8	3.44	2.7	0.75	10.7
40388231		0.49	<0.01	0.04	137.5	24.7	240	0.24	3.65	1.96	1.20	20.5	3.72	2.7	0.72	11.2
40388232		0.57	<0.01	0.05	141.5	25.4	260	0.25	3.56	1.97	1.23	20.5	3.86	2.8	0.68	11.5
40388233		0.74	<0.01	0.04	161.5	29.6	200	0.47	4.18	2.26	1.23	20.4	4.20	3.3	0.78	13.5
40388234		0.83	<0.01	0.03	147.0	25.8	190	0.50	3.69	2.00	1.15	19.8	3.52	2.9	0.65	11.8
40388235		0.52	<0.01	0.04	146.0	25.9	190	0.37	3.77	2.07	1.20	21.1	3.49	2.8	0.75	11.6
40388236		1.25	<0.01	0.02	183.5	26.2	220	0.58	3.43	2.07	1.26	20.1	3.46	2.9	0.73	12.6
40388237		0.51	<0.01	0.03	137.5	23.9	210	0.33	3.36	1.82	1.16	21.4	3.46	2.5	0.67	10.9
40388238		0.54	0.01	0.03	144.5	24.0	200	0.42	3.37	2.01	1.19	20.2	3.29	2.4	0.68	10.9
40388239		0.63	<0.01	0.03	137.0	24.4	210	0.52	3.57	1.72	1.07	20.5	3.37	3.3	0.68	11.0
40388240		0.46	0.04	0.10	993	68.1	20	1.17	6.94	3.55	1.75	25.3	7.14	8.2	1.30	30.5
40388241		0.71	0.01	0.03	146.5	25.8	240	0.53	3.57	1.95	1.19	19.9	3.28	2.9	0.73	11.6
40388242		0.52	<0.01	0.03	131.5	21.9	260	0.62	3.35	1.56	1.13	20.8	3.27	2.2	0.57	10.0
40388243		0.97	<0.01	0.02	133.0	17.2	190	0.88	2.54	1.28	1.02	21.4	2.47	1.8	0.53	7.7
40388244		1.14	<0.01	0.03	136.5	20.6	230	1.09	2.82	1.78	1.11	20.0	2.96	2.3	0.58	9.3
40388245		0.87	<0.01	0.04	129.0	22.6	230	0.94	3.21	2.15	1.06	19.8	3.80	2.2	0.72	10.1
40388246		1.49	0.01	0.05	119.5	16.4	190	1.34	2.58	1.61	1.00	17.9	3.03	1.6	0.44	7.6
40388247		1.29	0.01	0.59	80.1	8.0	>10000	1.20	1.25	0.68	0.48	41.9	1.16	0.9	0.20	4.0
40388248		3.46	0.01	0.87	164.0	18.5	140	1.71	2.45	1.52	1.15	18.7	2.63	1.8	0.56	8.3
40388249		4.26	<0.01	0.94	179.0	18.3	130	3.41	2.23	1.46	0.89	18.5	2.53	1.9	0.58	8.5
40387250		1.43	0.03	0.88	159.0	25.5	2420	2.65	3.37	1.86	1.39	21.6	3.88	2.5	0.77	11.2
40387251		4.33	0.01	0.28	161.5	17.1	130	2.65	2.31	1.50	1.04	18.7	2.68	1.9	0.48	7.9
40387252		3.93	0.01	1.58	422	19.5	140	4.50	2.70	1.72	1.18	18.6	2.37	2.0	0.57	8.9
40387253		3.58	0.02	1.50	326	22.6	130	4.57	3.13	1.80	1.44	20.3	2.95	2.1	0.64	10.2
40387254		3.97	0.02	1.02	325	17.7	130	3.37	2.74	1.33	1.54	18.6	2.40	1.8	0.51	8.3
40387255		4.24	<0.01	1.57	352	21.2	160	3.82	3.20	1.81	1.30	19.6	3.49	2.7	0.69	9.4
40387256		4.64	0.01	1.07	157.0	14.4	130	2.27	2.17	1.31	1.40	18.9	2.27	1.3	0.49	6.5
40387257		4.18	0.02	0.58	146.0	12.9	140	4.49	1.54	0.98	1.59	21.1	1.76	1.6	0.41	6.3
40387258		3.41	0.01	0.62	258	12.2	140	4.04	1.92	1.10	1.71	21.8	1.89	1.1	0.31	5.9
40387259		3.97	0.01	1.64	129.0	10.8	120	3.90	1.39	0.85	1.65	20.7	1.60	0.8	0.29	5.0
40387260		3.99	<0.01	1.56	125.5	10.5	120	4.21	1.35	0.80	1.71	21.2	1.53	1.1	0.32	4.8
40387261		4.18	0.02	0.30	149.5	13.1	120	3.83	1.96	0.96	1.90	20.5	2.10	1.3	0.40	6.1
40387262		4.76	0.01	0.29	86.8	17.4	120	2.07	2.85	1.34	1.56	19.5	2.55	1.6	0.53	7.9
40387263		5.01	0.01	0.43	15.1	12.4	140	0.24	1.97	0.93	1.08	19.6	2.43	1.0	0.33	5.5
40387264		4.72	0.01	0.20	39.1	14.0	130	0.78	1.81	0.98	1.08	22.7	2.65	1.1	0.38	6.5
40387265		3.50	0.01	0.80	217	17.1	130	4.26	2.67	1.51	1.21	20.8	2.51	1.3	0.56	7.6
40387266		3.32	0.01	0.56	205	36.6	100	2.45	5.33	3.05	1.76	27.3	5.37	3.9	1.07	16.9
40387267		3.87	<0.01	1.01	162.0	16.4	140	3.91	2.57	1.30	1.27	19.0	2.42	1.6	0.44	7.8
40387268		4.12	<0.01	1.47	120.0	16.6	150	3.74	2.39	1.43	1.29	18.8	2.77	1.8	0.57	8.0
40387269		4.65	<0.01	1.97	90.7	15.2	230	2.04	2.10	1.09	1.28	18.3	2.26	1.4	0.40	6.8



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To: RIO TINTO EXPLORATION CANADA INC.  
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 Account: RTECIKZ

Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40388230		0.27	7.1	14.2	3.21	7.9	3.42	1	265	0.6	0.59	1.00	0.30	0.28	159	<1
40388231		0.29	7.5	14.2	3.27	7.4	3.78	1	267	0.5	0.62	1.09	0.30	0.26	163	<1
40388232		0.29	7.6	14.8	3.28	7.6	3.60	2	267	0.5	0.64	1.07	0.28	0.23	166	<1
40388233		0.33	8.6	16.8	3.93	9.1	4.16	1	277	0.6	0.67	1.28	0.30	0.33	170	<1
40388234		0.25	7.8	15.3	3.44	8.5	3.63	1	274	0.5	0.62	1.17	0.27	0.27	167	1
40388235		0.27	7.7	15.8	3.53	8.2	3.38	1	273	0.5	0.60	1.12	0.32	0.28	158	<1
40388236		0.29	6.8	15.7	3.42	9.6	3.77	6	340	0.5	0.56	1.37	0.28	3.43	155	1
40388237		0.29	6.8	14.2	3.09	6.4	3.53	2	290	0.5	0.54	1.03	0.27	0.31	150	<1
40388238		0.26	7.0	14.4	3.13	7.2	3.55	5	289	0.5	0.53	1.17	0.29	0.62	148	<1
40388239		0.29	7.2	14.1	3.20	8.1	3.73	1	276	0.5	0.51	1.03	0.29	0.33	148	<1
40388240		0.58	13.8	39.6	9.33	101.5	9.42	2	582	0.8	1.02	3.91	0.46	1.62	127	<1
40388241		0.25	7.3	14.5	3.43	8.2	3.92	1	277	0.6	0.56	1.14	0.29	0.31	157	<1
40388242		0.21	5.9	13.0	2.96	6.9	3.27	1	293	0.5	0.46	0.90	0.26	0.22	149	<1
40388243		0.21	4.8	9.9	2.17	8.5	2.49	1	298	0.4	0.36	0.74	0.18	0.21	115	<1
40388244		0.24	5.7	11.7	2.63	8.8	3.15	1	302	0.4	0.48	0.86	0.22	0.23	143	<1
40388245		0.29	6.5	13.3	3.10	8.1	3.76	<1	281	0.4	0.54	1.32	0.24	0.64	136	<1
40388246		0.23	4.7	9.1	2.21	7.8	2.14	<1	278	0.3	0.42	0.85	0.18	0.20	144	<1
40388247		0.10	2.0	4.8	1.10	6.4	0.99	1	232	0.1	0.17	0.30	0.08	0.12	675	<1
40388248		0.23	5.2	10.7	2.41	12.2	2.25	1	343	0.3	0.45	0.81	0.24	0.23	124	<1
40388249		0.15	5.5	10.5	2.46	16.3	2.54	1	477	0.4	0.44	1.17	0.19	0.36	85	<1
40387250		0.26	8.2	15.6	3.34	23.2	4.01	2	348	0.6	0.57	1.08	0.29	0.29	172	1
40387251		0.16	5.6	10.6	2.37	17.4	2.32	1	660	0.4	0.38	0.86	0.16	0.38	93	<1
40387252		0.19	5.4	11.2	2.82	27.4	2.98	1	635	0.4	0.41	0.83	0.24	0.28	102	<1
40387253		0.29	6.2	13.6	2.95	23.0	3.38	1	569	0.4	0.50	1.20	0.28	0.34	108	<1
40387254		0.23	5.0	10.3	2.56	24.9	2.50	1	474	0.3	0.37	0.98	0.23	0.31	99	<1
40387255		0.21	5.6	12.1	2.88	26.0	2.44	1	524	0.4	0.49	0.90	0.26	0.22	133	<1
40387256		0.18	4.1	8.3	1.91	17.1	2.06	1	685	0.3	0.36	0.57	0.17	0.17	104	<1
40387257		0.19	3.9	7.7	1.77	17.3	1.69	<1	676	0.3	0.27	0.62	0.13	0.14	98	<1
40387258		0.14	3.6	7.2	1.55	23.6	1.78	1	709	0.3	0.26	0.59	0.16	0.10	96	<1
40387259		0.12	2.6	6.6	1.46	15.0	1.52	1	669	0.2	0.20	0.43	0.12	0.12	84	<1
40387260		0.11	2.8	6.0	1.44	14.7	1.43	1	664	0.1	0.27	0.40	0.10	0.08	80	<1
40387261		0.11	3.8	8.3	1.72	21.8	1.44	1	798	0.2	0.38	0.53	0.14	0.14	91	<1
40387262		0.18	6.0	10.7	2.39	16.1	2.45	1	465	0.4	0.39	0.76	0.19	0.17	133	<1
40387263		0.13	3.4	7.7	1.72	2.3	1.43	1	109.0	0.2	0.28	0.48	0.21	0.17	93	1
40387264		0.11	4.0	9.0	1.84	5.8	1.81	1	209	0.3	0.30	0.60	0.17	0.12	94	<1
40387265		0.15	4.5	9.8	2.24	24.9	2.14	1	519	0.3	0.39	0.76	0.18	0.21	102	<1
40387266		0.48	10.6	20.4	4.96	20.1	5.42	1	392	0.8	0.95	1.66	0.38	0.44	178	<1
40387267		0.20	4.9	10.3	2.18	19.1	2.20	1	443	0.3	0.36	0.76	0.21	0.20	131	<1
40387268		0.22	4.9	10.7	2.35	15.1	2.35	1	422	0.3	0.38	0.70	0.19	0.18	126	<1
40387269		0.16	4.4	10.0	2.00	11.7	1.97	1	457	0.3	0.37	0.52	0.19	0.13	107	<1



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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388230		18.5	1.67	108	1.0	0.02	<0.005	0.020	0.001	0.05	0.3	<0.01	0.03	0.05	0.08	61.3
40388231		18.5	1.81	103	0.5	0.01	<0.005	0.018	0.001	0.05	0.2	0.01	0.03	0.05	0.07	63.8
40388232		19.2	1.93	105	0.2	0.01	<0.005	0.017	0.001	<0.05	0.2	<0.01	0.03	0.05	0.07	54.9
40388233		21.1	2.08	131	1.0	0.01	<0.005	0.019	0.001	<0.05	0.2	<0.01	0.06	0.05	0.08	54.7
40388234		18.9	1.71	117	0.4	0.01	<0.005	0.017	<0.001	<0.05	0.3	0.01	0.05	0.06	0.08	56.7
40388235		19.5	1.94	110	0.4	0.02	<0.005	0.017	<0.001	<0.05	0.4	<0.01	0.03	0.03	0.07	55.6
40388236		19.2	1.70	114	1.5	0.02	<0.005	0.017	<0.001	0.06	0.2	<0.01	0.04	0.07	0.08	55.7
40388237		17.8	1.62	101	0.8	0.02	<0.005	0.016	0.001	<0.05	0.2	0.01	0.04	0.06	0.08	50.5
40388238		17.4	1.76	98	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.2	<0.01	0.03	0.05	0.06	50.7
40388239		18.6	1.69	131	0.7	0.01	<0.005	0.017	<0.001	<0.05	0.3	<0.01	0.04	0.05	0.08	51.4
40388240		35.2	3.11	334	0.2	0.02	<0.005	0.033	<0.001	<0.05	0.2	0.01	0.33	0.05	0.09	16.9
40388241		18.7	1.87	108	1.0	0.01	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.04	0.03	0.07	54.3
40388242		16.4	1.49	90	0.6	0.01	<0.005	0.014	0.001	<0.05	0.4	0.01	0.03	0.03	0.09	51.1
40388243		12.6	1.17	70	1.8	0.02	<0.005	0.016	0.001	<0.05	0.2	0.01	0.03	0.04	0.06	52.1
40388244		15.2	1.28	89	2.1	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.03	0.04	0.06	51.5
40388245		16.7	1.61	93	0.4	0.01	<0.005	0.016	<0.001	<0.05	0.2	<0.01	0.03	0.04	0.06	58.8
40388246		12.2	1.22	65	0.4	0.02	<0.005	0.016	0.001	<0.05	0.3	0.01	0.05	0.06	0.09	73.3
40388247		5.7	0.54	35	0.5	0.23	<0.005	0.026	0.006	0.05	2.0	0.17	0.10	0.87	0.20	135.5
40388248		13.3	1.36	71	0.7	0.24	<0.005	0.032	0.007	0.10	2.3	0.10	0.13	0.95	0.32	95.7
40388249		12.7	1.30	76	0.7	0.26	<0.005	0.035	0.010	0.15	2.3	0.13	0.18	1.17	0.40	96.3
40387250		17.9	1.63	103	6.3	0.40	0.006	0.050	0.008	0.29	2.8	0.17	0.32	1.42	0.46	100.0
40387251		12.2	0.97	67	5.9	0.07	<0.005	0.025	0.003	0.11	0.8	0.05	0.08	0.45	0.25	58.0
40387252		13.8	1.40	83	1.6	0.53	0.010	0.059	0.017	0.11	4.1	0.24	0.43	2.09	0.51	131.5
40387253		15.6	1.68	90	2.0	0.43	0.007	0.068	0.016	0.17	3.8	0.27	0.55	1.97	0.62	144.0
40387254		11.8	1.02	69	25.7	0.39	0.008	0.066	0.013	0.27	3.1	0.22	0.25	1.54	0.55	134.0
40387255		16.0	1.40	85	4.4	0.35	0.008	0.054	0.010	0.22	2.2	0.15	0.19	0.88	0.35	112.0
40387256		10.5	1.21	57	4.6	0.32	<0.005	0.054	0.009	0.18	2.5	0.14	0.18	1.02	0.48	118.5
40387257		9.3	1.03	52	5.4	0.25	<0.005	0.036	0.004	0.12	1.0	0.08	0.09	0.42	0.29	68.3
40387258		9.2	1.01	47	4.5	0.32	0.005	0.027	0.003	0.14	1.0	0.07	0.07	0.43	0.23	65.2
40387259		7.3	0.71	39	12.8	0.91	<0.005	0.068	0.007	0.20	2.9	0.22	0.37	1.33	0.58	123.5
40387260		7.0	0.70	38	9.7	0.85	<0.005	0.061	0.009	0.18	2.7	0.23	0.34	1.19	0.59	125.0
40387261		9.2	0.81	51	1.8	0.20	<0.005	0.028	0.002	0.10	0.7	0.04	0.06	0.31	0.29	44.1
40387262		13.1	1.20	76	13.5	0.08	<0.005	0.034	0.005	0.20	0.6	0.04	0.15	0.24	0.23	53.9
40387263		9.5	1.06	48	4.3	0.13	<0.005	0.033	0.006	0.14	0.7	0.05	0.17	0.38	0.46	62.6
40387264		10.2	1.08	56	6.4	0.14	<0.005	0.027	0.002	0.17	0.8	0.04	0.15	0.34	0.23	43.0
40387265		11.9	1.19	67	3.3	0.63	0.008	0.040	0.009	0.09	2.3	0.14	0.15	1.08	0.54	83.7
40387266		27.2	2.84	160	4.4	0.26	<0.005	0.040	0.008	0.07	1.3	0.07	0.08	0.43	0.27	63.1
40387267		12.3	1.12	68	3.7	0.61	<0.005	0.048	0.013	0.09	2.1	0.14	0.16	0.88	0.55	112.5
40387268		12.5	1.48	70	4.7	0.72	<0.005	0.066	0.014	0.11	2.9	0.14	0.20	0.97	0.81	143.0
40387269		11.4	0.79	62	11.3	0.79	<0.005	0.079	0.014	0.18	3.3	0.16	0.25	1.07	1.02	138.0



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 Account: RTECIKBZ

Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.001	0.005	0.001
40388230		116.0	10.9	0.77	312	1.5	18.6	87	0.003	0.0045	0.007			
40388231		122.5	9.2	0.81	322	1.6	19.0	89	0.003	0.0045	0.007			
40388232		99.2	7.3	0.82	299	1.5	18.8	83	0.002	0.0041	0.006			
40388233		91.6	12.1	0.93	295	1.7	17.5	87	0.003	0.0043	0.006			
40388234		100.0	12.3	0.77	310	1.6	18.7	91	0.003	0.0049	0.007			
40388235		111.0	9.9	0.75	318	1.5	19.1	88	0.003	0.0043	0.007			
40388236		119.5	16.4	0.68	308	1.8	17.1	94	0.004	0.0075	0.007			
40388237		106.0	9.3	0.62	280	1.6	15.3	78	0.003	0.0050	0.007			
40388238		111.0	11.1	0.70	273	1.6	16.6	78	0.002	0.0047	0.007			
40388239		99.6	12.3	0.76	286	1.6	18.3	80	0.002	0.0040	0.006			
40388240		18.1	19.1	1.00	12.6	12.2	16.1	89	0.001	<0.0005	<0.001			
40388241		52.5	14.3	0.86	310	2.0	18.5	85	0.001	0.0029	0.005			
40388242		65.9	11.3	0.79	278	1.9	18.0	83	0.001	0.0022	0.004			
40388243		97.9	14.5	0.60	248	1.6	14.7	93	0.002	0.0009	0.002			
40388244		84.8	12.1	0.66	266	1.8	16.4	82	0.001	0.0010	0.004			
40388245		88.0	10.4	0.77	302	1.6	17.1	85	0.001	0.0012	0.003			
40388246		136.5	11.9	0.60	297	1.6	18.9	103	0.003	0.0050	0.014			
40388247		2380	14.6	0.73	1870	2.7	9.0	253	0.128	0.278	>1.00	0.081	0.290	1.445
40388248		2580	17.3	0.61	1215	4.8	13.0	71	0.021	0.0623	0.312			
40388249		3210	27.8	0.60	1580	8.1	11.3	68	0.017	0.0944	0.460			
40387250		3820	25.8	4.86	1925	8.1	17.6	111	0.085	0.1355	0.808			
40387251		1270	25.6	0.51	636	1.9	10.7	68	0.008	0.0125	0.075			
40387252		5580	31.2	0.66	2630	4.5	11.3	66	0.075	0.1690	0.892			
40387253		5900	29.8	0.91	2880	3.4	13.9	81	0.079	0.1800	0.899			
40387254		4360	31.6	0.79	2280	2.8	12.7	93	0.059	0.1340	0.691			
40387255		2910	28.4	0.90	1450	3.4	17.9	79	0.077	0.0847	0.375			
40387256		2960	31.9	0.93	1385	10.8	12.4	70	0.026	0.0767	0.341			
40387257		1235	28.9	0.77	571	4.3	11.2	51	0.023	0.0346	0.146			
40387258		1045	31.0	0.83	459	9.6	10.4	46	0.017	0.0304	0.120			
40387259		3260	23.8	1.32	1535	13.9	9.5	55	0.060	0.0923	0.353			
40387260		3300	23.9	1.40	1550	17.6	9.2	52	0.054	0.0843	0.341			
40387261		750	32.4	0.65	344	4.8	10.1	65	0.008	0.0087	0.028			
40387262		597	36.9	0.73	319	2.5	14.9	77	0.014	0.0205	0.035			
40387263		830	27.9	0.97	440	5.6	11.7	87	0.003	0.0179	0.052			
40387264		612	26.0	0.70	433	2.1	10.8	66	0.006	0.0093	0.025			
40387265		2520	26.2	0.63	1040	2.9	12.7	85	0.032	0.0386	0.097			
40387266		1215	13.7	0.98	571	1.9	23.0	98	0.017	0.0232	0.043			
40387267		2120	26.5	0.70	1025	4.4	15.7	80	0.025	0.0294	0.066			
40387268		2400	28.2	1.28	1280	5.8	15.0	88	0.028	0.0392	0.088			
40387269		2460	27.0	1.59	1400	6.7	13.2	85	0.031	0.0444	0.091			





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Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387270		2.44	59.1	18.00	7.45	6.13	2.53	3.66	2.30	0.003	1.00	0.11	0.37	0.07	0.11	101.18
40387271		2.92	44.7	19.90	13.05	8.72	5.68	2.89	0.54	0.040	0.89	0.10	0.12	0.07	0.02	100.91
40387272		2.83	44.7	19.70	12.00	9.23	6.22	2.85	0.32	0.021	0.82	0.10	0.10	0.05	0.01	100.79
40387273		1.88	45.6	20.6	8.07	9.10	6.55	2.95	0.47	0.054	0.78	0.10	0.10	0.07	0.01	99.12
40387274		1.43	44.6	20.4	9.68	11.50	5.47	2.78	0.09	0.019	0.71	0.09	0.09	0.02	<0.01	100.43
40387275		1.62	45.6	19.85	8.55	10.50	5.81	2.89	0.27	0.018	0.78	0.09	0.11	0.03	0.01	98.82
40387276		2.22	45.7	19.50	10.30	9.21	8.17	2.12	0.32	0.039	0.71	0.10	0.08	0.03	0.01	99.87
40387277		1.09	43.6	10.25	20.4	7.63	11.25	1.69	0.30	0.016	2.11	0.24	0.22	0.02	0.01	99.33
40387278		1.70	46.3	19.65	9.77	9.87	7.11	2.33	0.35	0.036	0.91	0.10	0.12	0.04	0.01	99.38
40387279		3.12	44.9	18.85	11.60	9.46	8.90	2.24	0.30	0.066	0.84	0.12	0.08	0.04	0.01	101.02
40387280		0.17	43.9	18.35	14.00	9.56	7.96	2.17	0.67	0.335	1.37	0.15	0.15	0.04	0.02	100.13
40387281		2.45	44.7	18.20	12.60	9.03	9.92	2.21	0.31	0.191	0.76	0.12	0.07	0.04	0.01	100.61
40387282		2.42	44.3	18.40	13.45	9.01	8.70	2.29	0.28	0.047	0.77	0.12	0.09	0.04	0.01	100.81
40387283		3.04	43.0	18.55	12.65	8.59	7.41	2.62	0.39	0.031	0.77	0.10	0.09	0.05	0.01	98.81
40387284		3.03	43.8	19.10	10.65	7.97	7.19	3.16	0.49	0.050	0.72	0.10	0.07	0.06	0.02	98.00
40387285		3.08	44.5	19.35	10.25	7.98	7.15	3.19	0.48	0.039	0.73	0.11	0.07	0.06	0.02	98.29
40387286		3.08	44.5	18.70	12.30	9.03	7.73	2.50	0.29	0.059	0.75	0.11	0.06	0.05	0.01	99.71
40387287		2.12	45.5	20.3	10.30	9.59	6.52	2.82	0.33	0.027	0.67	0.10	0.07	0.05	0.01	99.99
40387288		2.11	45.7	20.5	10.70	9.32	6.01	3.10	0.51	0.028	0.73	0.10	0.08	0.06	0.02	100.62
40387289		1.37	46.6	21.2	8.65	9.25	6.25	3.37	0.53	0.041	0.67	0.09	0.06	0.07	0.02	100.83
40387290		1.31	46.3	21.0	8.79	9.30	6.39	3.24	0.51	0.044	0.64	0.09	0.05	0.06	0.02	100.49
40387291		3.20	47.0	21.6	7.17	10.25	5.73	3.33	0.53	0.053	0.66	0.09	0.07	0.07	0.01	100.63
40387292		3.05	46.8	21.5	7.16	9.96	5.75	3.11	0.50	0.054	0.73	0.08	0.06	0.06	0.02	99.04
40387293		1.48	46.1	20.7	7.57	9.84	6.52	2.93	0.41	0.050	0.73	0.09	0.07	0.05	0.01	98.60
40387294		1.73	46.7	20.9	8.32	10.10	5.96	2.89	0.41	0.062	0.73	0.09	0.09	0.05	0.01	99.36
40387295		2.99	46.3	19.70	10.50	9.40	5.54	3.10	0.40	0.066	1.23	0.11	0.13	0.04	0.02	99.23
40387296		3.11	45.8	20.4	10.95	9.78	5.58	2.80	0.47	0.070	1.00	0.10	0.10	0.05	0.02	100.20
40387297		3.03	45.9	20.7	10.55	9.43	5.97	2.96	0.54	0.072	0.85	0.09	0.09	0.05	0.02	100.80
40387298		3.02	44.3	19.90	12.80	8.68	6.62	3.16	0.50	0.024	0.63	0.10	0.07	0.06	0.02	101.78
40387299		2.98	41.1	19.55	12.40	12.20	5.53	2.30	0.17	0.038	0.56	0.09	0.07	0.03	<0.01	99.47
40387300		2.82	57.3	19.10	7.63	6.59	2.73	4.10	2.37	0.002	1.03	0.12	0.29	0.07	0.10	101.88
40387301		2.88	45.3	20.2	8.99	10.65	5.52	3.39	0.19	0.059	0.59	0.08	0.06	0.03	0.01	99.85
40387302		3.06	45.3	20.3	8.22	10.05	5.74	3.52	0.24	0.074	0.59	0.08	0.06	0.05	<0.01	99.07
40387303		3.33	45.6	20.4	8.95	9.28	6.55	3.47	0.38	0.094	0.66	0.09	0.07	0.06	0.01	100.57
40387304		2.98	46.8	20.3	7.83	9.73	6.69	3.27	0.57	0.056	0.78	0.10	0.07	0.06	0.01	100.56
40387305		2.90	46.4	19.65	8.67	10.10	6.76	2.98	0.50	0.062	0.98	0.11	0.10	0.05	0.01	100.50
40387306		2.46	46.4	19.70	10.85	9.87	6.45	2.70	0.44	0.020	1.11	0.12	0.11	0.04	0.02	101.13
40387307		1.90	50.8	13.00	15.00	8.46	3.88	3.84	0.37	0.010	2.82	0.22	0.50	0.02	0.02	100.65
40387308		0.76	41.2	8.66	24.1	7.59	11.15	1.65	0.28	0.014	3.84	0.30	0.19	0.02	0.01	99.61
40387309		2.91	45.4	19.50	10.05	9.54	7.60	2.57	0.42	0.026	0.89	0.11	0.10	0.04	0.02	100.49





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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387270		0.35	0.05	0.10	984	64.8	30	1.38	6.43	3.59	1.98	23.6	7.35	7.0	1.21	27.7
40387271		4.19	<0.01	2.03	185.0	17.0	290	4.43	2.68	1.22	1.36	19.9	2.90	1.5	0.51	7.5
40387272		4.67	<0.01	0.81	106.0	16.4	170	3.07	2.24	1.20	1.28	19.2	2.07	1.7	0.47	7.2
40387273		4.67	0.01	0.10	119.5	14.7	400	3.07	2.12	1.23	1.02	18.7	2.12	1.2	0.42	6.5
40387274		4.98	0.01	0.55	26.3	13.3	150	0.34	2.19	1.09	1.06	20.0	2.23	1.4	0.38	6.2
40387275		4.31	0.01	0.16	92.8	18.6	140	1.22	2.85	1.53	1.22	19.4	3.29	1.8	0.58	8.9
40387276		3.58	0.01	0.11	123.5	14.1	300	2.25	2.09	0.97	1.08	17.9	1.79	1.5	0.36	6.2
40387277		1.59	0.01	0.20	93.1	32.2	120	2.36	4.96	2.71	1.39	15.3	4.64	3.5	0.95	14.5
40387278		2.78	0.01	0.15	128.0	17.2	270	2.15	2.66	1.64	1.04	20.2	2.51	1.7	0.44	7.8
40387279		3.61	0.01	0.36	109.5	16.9	530	2.21	2.28	1.27	1.32	20.9	2.03	1.7	0.44	7.9
40387280		1.45	0.03	0.94	166.5	27.2	2470	2.49	3.59	1.94	1.29	21.3	3.48	2.9	0.70	12.4
40387281		2.45	0.01	0.87	105.0	15.3	1370	1.87	2.09	0.98	1.26	19.3	1.90	1.6	0.41	7.1
40387282		3.30	<0.01	1.33	114.0	15.3	370	1.93	1.91	0.99	1.37	20.2	1.95	1.3	0.39	7.1
40387283		4.55	0.02	1.97	137.5	19.3	230	2.19	2.42	1.30	1.29	19.0	2.39	2.0	0.45	8.9
40387284		4.62	0.02	1.24	152.5	16.2	380	3.56	1.98	0.94	1.57	18.9	1.91	1.4	0.42	7.2
40387285		4.36	0.03	0.94	147.5	15.4	290	3.12	1.88	1.10	1.48	19.2	1.81	1.4	0.38	7.1
40387286		3.62	0.03	1.40	113.5	14.2	450	1.60	1.76	0.99	1.76	19.6	1.88	1.4	0.40	6.7
40387287		3.70	0.02	1.17	114.0	14.8	200	1.06	1.71	0.97	1.69	20.2	1.73	1.4	0.43	6.6
40387288		3.76	0.03	1.17	180.0	17.3	240	2.75	2.07	1.11	1.87	22.4	2.11	1.5	0.44	8.1
40387289		4.03	0.02	0.42	157.5	14.1	310	3.50	1.67	0.93	1.92	21.9	1.89	1.2	0.36	6.9
40387290		4.06	0.02	0.43	153.0	14.7	340	3.54	1.82	0.89	1.82	20.9	1.82	1.4	0.40	6.9
40387291		4.07	0.02	0.14	145.0	14.2	410	2.83	1.65	0.86	1.64	21.5	1.92	1.5	0.38	6.8
40387292		3.26	0.02	0.27	164.5	15.7	390	2.08	1.60	0.96	1.46	22.4	2.03	1.4	0.42	7.2
40387293		3.53	0.02	0.04	124.5	15.4	360	1.49	1.84	1.10	1.58	20.6	1.94	1.4	0.38	7.0
40387294		3.05	0.02	0.33	140.5	17.5	470	1.60	2.04	1.22	1.57	22.2	2.21	1.7	0.41	8.0
40387295		2.69	0.02	0.71	144.0	26.9	470	2.01	3.55	1.83	1.70	21.1	3.31	2.7	0.68	12.3
40387296		3.08	0.02	1.28	157.0	20.4	490	1.80	2.42	1.35	1.44	20.9	2.54	2.0	0.51	9.4
40387297		3.58	0.02	1.40	186.5	19.1	520	2.50	2.40	1.03	1.32	21.0	2.21	2.0	0.48	9.0
40387298		4.92	0.02	2.40	145.0	12.9	170	6.24	1.64	0.77	1.47	18.7	1.56	1.3	0.33	6.1
40387299		5.43	0.02	2.25	37.1	12.1	280	1.38	1.46	0.74	1.47	22.3	1.46	1.0	0.30	5.5
40387300		0.45	0.05	0.09	952	83.7	30	1.45	7.60	4.15	2.22	27.5	8.26	7.9	1.47	37.5
40387301		4.78	0.02	0.91	49.1	18.1	420	0.31	1.74	0.80	1.70	20.5	1.92	1.0	0.36	8.9
40387302		4.85	0.02	0.60	50.6	15.1	560	0.42	1.78	1.01	1.75	20.8	1.93	1.3	0.36	8.1
40387303		4.96	0.02	0.64	82.9	13.5	640	3.58	1.71	0.92	1.51	18.1	1.43	1.2	0.35	6.3
40387304		4.29	0.03	0.09	137.0	17.3	420	3.81	2.18	1.15	1.81	20.7	2.17	1.6	0.42	8.1
40387305		4.13	0.03	0.15	146.0	20.6	460	2.04	2.44	1.51	1.84	20.6	2.51	2.1	0.51	9.1
40387306		3.30	0.02	0.60	171.0	23.7	150	1.64	2.79	1.57	1.47	21.5	2.74	2.2	0.61	10.9
40387307		1.71	0.01	0.14	160.0	108.5	80	1.60	13.25	7.54	3.65	30.6	13.30	11.1	2.74	49.4
40387308		0.61	0.02	0.66	107.0	35.0	100	1.54	5.10	2.72	1.49	16.5	5.42	4.0	1.08	15.2
40387309		4.22	0.03	0.45	149.5	18.6	190	1.78	2.15	1.30	1.69	20.3	2.36	1.7	0.45	8.5



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To: RIO TINTO EXPLORATION CANADA INC.  
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Project: EB80001450

**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387270		0.56	13.7	38.4	8.87	95.4	7.22	2	570	0.8	1.11	3.25	0.50	1.53	132	<1
40387271		0.21	4.9	10.3	2.28	18.2	2.28	1	538	0.4	0.40	0.67	0.21	0.16	122	<1
40387272		0.18	4.8	10.0	2.38	12.3	1.93	1	434	0.3	0.35	0.68	0.18	0.22	114	<1
40387273		0.18	4.1	9.0	1.84	17.6	1.99	1	561	0.3	0.37	0.62	0.17	0.17	100	<1
40387274		0.18	4.0	8.2	1.84	2.9	1.38	1	173.5	0.3	0.30	0.53	0.15	0.12	94	1
40387275		0.23	4.9	12.2	2.67	9.4	2.57	1	264	0.4	0.46	0.85	0.21	0.23	108	<1
40387276		0.15	3.8	8.6	2.11	9.4	1.73	1	281	0.5	0.28	0.45	0.15	0.16	96	<1
40387277		0.39	10.5	20.3	4.56	11.4	4.52	2	155.0	0.7	0.80	1.40	0.37	0.41	256	<1
40387278		0.18	5.2	10.3	2.40	9.3	2.24	1	321	0.3	0.45	0.74	0.16	0.27	102	<1
40387279		0.16	4.8	9.5	2.41	9.5	2.23	1	347	0.4	0.36	0.76	0.21	0.21	120	<1
40387280		0.30	7.9	16.2	3.48	25.9	3.48	2	385	0.6	0.60	1.22	0.31	0.30	187	1
40387281		0.18	3.8	8.7	1.90	8.4	1.89	1	339	0.4	0.34	0.58	0.15	0.15	125	<1
40387282		0.16	4.2	8.7	2.11	7.4	2.18	1	374	0.3	0.31	0.57	0.15	0.20	120	<1
40387283		0.17	5.1	10.6	2.48	12.5	2.54	1	416	0.4	0.36	0.82	0.20	0.24	96	<1
40387284		0.15	4.1	8.6	2.11	18.9	2.12	1	574	0.3	0.33	0.72	0.14	0.17	102	<1
40387285		0.13	4.1	8.7	1.97	16.4	1.88	1	522	0.3	0.35	0.71	0.17	0.17	98	<1
40387286		0.15	3.7	8.4	1.93	7.6	1.77	1	414	0.3	0.30	0.62	0.14	0.17	150	<1
40387287		0.12	3.6	8.5	1.91	8.2	1.91	1	448	0.2	0.30	0.60	0.17	0.17	98	<1
40387288		0.15	4.2	9.3	2.15	18.1	2.23	1	550	0.4	0.35	0.69	0.16	0.22	104	<1
40387289		0.15	3.4	7.7	1.95	19.0	1.79	1	619	0.4	0.29	0.51	0.14	0.17	91	<1
40387290		0.12	3.6	8.1	1.95	18.5	1.87	1	606	0.3	0.32	0.51	0.12	0.19	99	<1
40387291		0.12	3.4	8.1	1.90	19.4	1.76	1	596	0.3	0.28	0.56	0.14	0.15	95	<1
40387292		0.16	3.9	8.9	2.06	15.2	1.85	<1	523	0.3	0.33	0.74	0.13	0.19	104	<1
40387293		0.15	3.9	8.6	1.93	11.8	2.18	1	446	0.4	0.30	0.71	0.16	0.68	104	<1
40387294		0.18	4.6	9.5	2.29	11.1	2.13	1	486	0.4	0.34	0.72	0.16	0.24	117	<1
40387295		0.31	7.1	14.8	3.58	11.4	3.57	1	406	0.5	0.56	1.20	0.26	0.34	159	<1
40387296		0.19	5.5	11.3	2.62	13.9	2.47	1	431	0.4	0.41	0.77	0.20	0.22	131	<1
40387297		0.18	4.9	11.3	2.43	17.0	2.54	1	489	0.4	0.40	0.78	0.19	0.25	110	<1
40387298		0.12	3.2	6.7	1.66	17.8	1.86	1	532	0.3	0.25	0.53	0.12	0.13	80	<1
40387299		0.12	2.8	7.0	1.65	6.0	1.58	1	295	0.2	0.25	0.54	0.10	0.15	87	1
40387300		0.54	16.5	46.7	11.10	113.0	10.10	3	697	1.0	1.24	5.42	0.55	1.96	143	1
40387301		0.14	3.5	9.9	2.26	6.1	1.93	1	345	0.3	0.30	1.58	0.13	0.16	93	<1
40387302		0.12	3.5	8.5	1.95	7.9	1.97	1	482	0.3	0.30	0.74	0.15	0.29	124	1
40387303		0.12	3.3	7.4	1.85	12.9	1.72	1	572	0.3	0.26	0.63	0.12	0.26	111	<1
40387304		0.18	4.7	10.1	2.36	20.3	2.07	1	571	0.4	0.35	0.75	0.19	0.24	119	<1
40387305		0.23	5.6	11.7	2.59	16.1	2.80	1	453	0.4	0.46	0.89	0.17	0.27	151	<1
40387306		0.22	6.5	13.2	2.97	12.1	2.78	1	370	0.4	0.44	1.07	0.20	0.30	143	<1
40387307		0.99	28.1	60.2	13.90	13.0	14.15	3	258	1.8	2.15	5.60	1.04	1.49	290	1
40387308		0.40	12.7	20.0	4.66	8.4	4.79	2	153.5	0.9	0.81	1.53	0.42	0.39	433	<1
40387309		0.17	4.8	10.2	2.49	12.6	2.23	1	394	0.3	0.38	0.81	0.21	0.19	118	<1



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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61
		Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	Ag ppm	Cd ppm	Co ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387270		34.1	3.10	301	0.4	0.02	<0.005	0.032	<0.001	<0.05	0.2	0.02	0.33	<0.01	0.09	18.4
40387271		12.4	1.38	69	6.8	0.57	<0.005	0.074	0.016	0.11	2.9	0.13	0.21	0.80	0.93	129.5
40387272		12.1	1.01	65	56.4	0.26	<0.005	0.061	0.010	0.42	2.0	0.12	0.21	0.66	0.63	135.0
40387273		10.5	0.95	59	2.2	0.03	<0.005	0.019	0.001	0.08	0.5	0.02	0.03	0.05	0.11	47.7
40387274		9.9	0.95	51	0.9	0.16	<0.005	0.040	0.009	0.06	1.5	0.07	0.10	0.62	0.46	90.2
40387275		13.5	1.11	75	2.5	0.06	<0.005	0.025	0.003	0.10	0.7	0.02	0.04	0.27	0.23	58.8
40387276		9.6	0.88	57	58.1	0.17	<0.005	0.022	0.003	0.18	0.6	0.06	0.09	0.18	0.13	63.0
40387277		25.0	2.36	131	18.1	0.04	<0.005	0.049	0.001	0.13	0.5	0.04	0.16	0.19	0.19	115.0
40387278		13.3	1.13	74	33.7	0.10	<0.005	0.023	0.002	0.14	0.7	0.05	0.10	0.32	0.20	67.7
40387279		12.5	1.23	65	49.6	0.16	<0.005	0.031	0.004	0.16	1.1	0.09	0.08	0.51	0.36	90.5
40387280		19.9	1.64	108	6.6	0.42	0.008	0.054	0.008	0.30	2.7	0.17	0.33	1.40	0.48	101.0
40387281		10.9	0.94	55	10.6	0.22	<0.005	0.042	0.008	0.07	1.5	0.09	0.08	0.61	0.49	104.0
40387282		11.0	0.99	57	3.5	0.52	<0.005	0.067	0.011	0.08	2.9	0.19	0.19	1.22	0.82	133.0
40387283		13.2	1.31	83	12.6	0.75	<0.005	0.076	0.011	0.10	3.2	0.25	0.17	1.43	0.85	138.5
40387284		11.1	1.07	58	3.5	0.76	<0.005	0.065	0.007	0.10	2.4	0.18	0.15	1.23	0.61	110.0
40387285		10.9	0.97	56	3.8	0.68	<0.005	0.059	0.007	0.11	1.5	0.20	0.12	1.05	0.54	73.5
40387286		10.5	1.10	48	2.3	0.53	<0.005	0.054	0.007	0.06	1.7	0.13	0.12	0.99	0.55	89.6
40387287		10.3	0.98	52	1.5	0.75	<0.005	0.054	0.005	<0.05	1.8	0.17	0.10	1.21	0.71	73.1
40387288		11.8	1.21	64	54.9	0.58	<0.005	0.064	0.008	0.22	2.4	0.22	0.16	1.24	0.77	92.1
40387289		10.5	0.78	51	19.7	0.24	<0.005	0.034	0.004	0.19	1.2	0.09	0.06	0.63	0.35	70.9
40387290		10.5	0.85	51	13.0	0.25	<0.005	0.039	0.004	0.16	1.1	0.08	0.06	0.66	0.36	74.6
40387291		10.2	0.97	49	2.6	0.17	<0.005	0.021	0.001	0.08	0.4	0.05	0.02	0.30	0.21	37.4
40387292		10.9	1.00	54	1.6	0.04	<0.005	0.011	<0.001	0.05	0.3	0.01	0.02	0.08	0.06	24.4
40387293		10.3	0.88	53	5.4	0.04	<0.005	0.009	<0.001	0.08	0.2	0.02	<0.02	0.06	0.06	29.2
40387294		12.0	1.03	62	1.4	0.18	<0.005	0.013	0.004	0.06	0.5	0.02	0.05	0.13	0.09	35.1
40387295		18.8	1.67	99	7.2	0.66	<0.005	0.027	0.009	0.13	0.9	0.07	0.14	0.40	0.27	68.7
40387296		13.9	1.04	73	1.7	0.66	<0.005	0.051	0.007	0.06	2.0	0.17	0.25	1.20	0.48	96.4
40387297		13.3	1.02	71	1.3	0.84	<0.005	0.051	0.008	0.09	2.1	0.18	0.19	1.32	0.48	98.5
40387298		9.2	0.85	45	6.5	1.79	<0.005	0.093	0.012	0.15	3.8	0.37	0.46	2.55	0.89	145.0
40387299		8.3	0.66	41	22.4	1.91	<0.005	0.090	0.009	0.25	4.0	0.38	0.70	2.73	0.84	169.0
40387300		44.0	3.96	315	0.2	0.02	<0.005	0.036	<0.001	<0.05	<0.2	0.03	0.38	0.04	0.09	18.8
40387301		9.8	0.76	45	12.2	0.74	<0.005	0.047	0.005	0.14	1.8	0.17	0.22	1.11	0.44	89.4
40387302		9.6	0.84	50	10.3	0.47	<0.005	0.037	0.004	0.13	1.3	0.11	0.12	0.85	0.32	81.7
40387303		9.3	0.81	46	9.6	0.46	<0.005	0.042	0.005	0.13	1.1	0.12	0.12	0.77	0.35	86.7
40387304		12.2	1.23	61	18.4	0.14	<0.005	0.017	0.002	0.15	0.3	0.04	0.02	0.19	0.16	47.3
40387305		14.3	1.27	76	22.9	0.08	<0.005	0.016	0.002	0.14	0.2	0.03	0.02	0.17	0.17	52.0
40387306		16.6	1.52	89	3.1	0.27	<0.005	0.033	0.006	0.06	1.2	0.09	0.13	0.59	0.42	75.0
40387307		74.7	6.74	434	0.4	0.02	<0.005	0.031	0.002	0.05	0.3	0.01	0.05	0.06	0.18	35.1
40387308		28.4	2.34	147	6.5	0.21	<0.005	0.055	0.007	0.11	1.5	0.06	0.20	0.73	0.41	116.5
40387309		13.2	1.15	68	9.7	0.18	<0.005	0.025	0.003	0.15	0.8	0.07	0.08	0.42	0.27	83.6



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.001	0.005	0.001
40387270		19.9	20.1	1.09	15.8	12.1	17.8	94	0.001	<0.0005	0.001			
40387271		1865	32.9	1.71	1115	7.3	15.0	90	0.027	0.0293	0.073			
40387272		1480	37.1	0.83	892	5.0	13.8	109	0.031	0.0260	0.062			
40387273		131.5	34.4	0.51	98.8	2.7	12.3	68	0.013	0.0034	0.007			
40387274		1190	24.0	0.84	605	6.7	11.7	96	0.006	0.0220	0.052			
40387275		465	25.7	0.94	261	4.4	13.7	77	0.006	0.0078	0.019			
40387276		470	17.1	0.49	306	1.3	11.8	108	0.013	0.0074	0.011			
40387277		609	13.6	0.89	281	1.2	32.8	212	0.009	0.0101	0.013			
40387278		696	15.2	0.85	326	1.9	14.4	91	0.013	0.0117	0.023			
40387279		1065	18.8	0.71	531	2.4	13.5	118	0.015	0.0214	0.040			
40387280		3850	27.4	4.66	1945	8.2	19.2	112	0.073	0.1305	0.758			
40387281		1315	14.6	0.86	650	3.1	12.5	102	0.016	0.0245	0.050			
40387282		2820	13.2	1.19	1265	6.9	11.6	80	0.028	0.0515	0.114			
40387283		3210	16.7	0.94	1380	7.7	11.0	80	0.056	0.0585	0.133			
40387284		2700	33.0	0.92	1075	7.5	11.4	73	0.055	0.0507	0.110			
40387285		2320	25.7	1.34	982	5.9	11.2	78	0.055	0.0479	0.098			
40387286		2080	13.4	1.08	936	7.2	14.1	81	0.041	0.0363	0.103			
40387287		2670	14.9	1.10	1015	5.0	11.0	69	0.044	0.0504	0.136			
40387288		2880	19.5	1.27	1250	3.8	9.9	101	0.045	0.0648	0.181			
40387289		1340	28.6	1.31	547	4.7	8.9	77	0.017	0.0341	0.078			
40387290		1400	29.3	1.08	581	3.3	9.5	77	0.016	0.0389	0.088			
40387291		572	26.1	0.82	250	2.7	9.6	58	0.007	0.0148	0.044			
40387292		132.0	16.4	0.68	87.8	2.8	10.6	51	0.004	0.0045	0.011			
40387293		101.0	15.9	0.89	79.9	2.8	10.9	52	0.010	0.0096	0.014			
40387294		212	14.0	0.85	150.0	4.2	11.2	57	0.019	0.0144	0.055			
40387295		753	14.6	1.20	432	3.5	17.2	88	0.075	0.0458	0.210			
40387296		2410	14.6	1.02	1165	3.6	14.6	82	0.037	0.0536	0.181			
40387297		2890	24.8	0.90	1390	3.5	12.6	66	0.050	0.0701	0.229			
40387298		6000	35.5	0.86	2850	12.0	9.6	67	0.086	0.1175	0.435			
40387299		5910	31.2	1.55	2790	23.4	8.5	61	0.104	0.1295	0.462			
40387300		30.5	21.7	1.07	18.2	11.5	18.8	94	0.001	<0.0005	0.001			
40387301		2520	31.2	1.18	1185	16.5	9.0	60	0.030	0.0536	0.188			
40387302		1750	36.0	1.00	837	21.3	10.2	58	0.016	0.0351	0.132			
40387303		1580	40.0	1.27	753	16.2	9.8	64	0.019	0.0438	0.136			
40387304		410	31.4	0.95	193.0	5.6	11.6	71	0.013	0.0159	0.049			
40387305		398	22.8	1.03	190.0	2.2	13.6	75	0.021	0.0159	0.039			
40387306		1305	15.1	0.94	681	3.7	16.4	102	0.033	0.0385	0.100			
40387307		124.0	7.7	2.35	41.6	5.0	40.5	149	0.063	0.0006	0.002			
40387308		1685	11.9	1.27	709	2.0	45.4	208	0.027	0.0351	0.114			
40387309		879	23.3	1.24	368	3.4	13.5	73	0.018	0.0275	0.076			



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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40387310		0.17	43.9	18.25	14.00	9.60	7.92	2.15	0.67	0.336	1.37	0.15	0.15	0.04	0.02	100.07
40387311		2.13	45.7	19.50	8.88	9.74	7.97	2.80	0.45	0.021	0.70	0.10	0.08	0.05	0.02	100.95
40387312		1.90	46.2	19.80	8.86	9.63	7.80	3.07	0.45	0.020	0.68	0.11	0.07	0.05	0.01	101.85
40387313		2.96	45.3	19.80	9.47	10.05	7.30	3.06	0.28	0.020	0.63	0.10	0.06	0.06	0.01	101.48
40387314		3.04	43.6	19.40	9.83	10.50	6.65	2.78	0.16	0.017	0.64	0.09	0.07	0.04	<0.01	99.39
40387315		3.10	43.3	19.10	9.84	9.66	7.24	2.71	0.21	0.019	0.66	0.09	0.06	0.04	<0.01	98.60
40387316		2.10	42.7	19.60	9.59	11.25	6.64	2.48	0.05	0.017	0.78	0.10	0.08	0.01	<0.01	98.96
40387317		2.66	44.3	20.5	8.41	11.60	6.80	2.43	0.26	0.017	0.92	0.10	0.10	0.03	0.01	100.50
40387318		3.25	47.4	21.5	8.96	10.80	7.58	2.29	0.36	0.045	0.92	0.10	0.11	0.04	0.01	101.37
40387319		1.25	46.6	20.5	9.54	10.45	7.36	2.37	0.30	0.016	0.87	0.11	0.10	0.04	0.01	98.88
40387320		1.49	46.5	20.6	9.70	10.50	7.35	2.33	0.31	0.016	1.04	0.11	0.09	0.04	0.01	99.15
40387321		1.07	48.2	12.70	15.55	11.05	6.43	2.63	0.29	0.035	4.04	0.21	0.22	0.03	0.01	101.88
40387322		0.92	40.8	6.30	27.7	5.90	15.85	1.10	0.22	0.019	1.79	0.32	0.11	0.01	0.01	99.47
40387323		0.83	45.2	16.45	15.55	8.40	8.14	2.34	0.32	0.008	1.51	0.17	0.15	0.03	0.01	101.41
40387324		2.58	45.6	20.0	11.65	10.40	6.19	2.26	0.53	0.024	1.13	0.12	0.13	0.04	0.02	100.53
40387325		1.13	46.4	19.90	10.75	9.12	10.55	2.10	0.31	0.016	0.30	0.11	0.04	0.04	0.01	101.12
40387326		2.84	48.6	11.85	16.95	9.43	5.26	3.03	0.35	0.023	3.91	0.22	0.39	0.02	0.02	100.89
40387327		3.02	44.1	18.70	11.30	9.61	9.35	1.88	0.49	0.022	0.58	0.12	0.07	0.04	0.02	100.62
40387328		2.74	44.9	17.55	12.95	8.74	8.41	2.21	0.45	0.014	1.21	0.14	0.10	0.03	0.02	100.18
40387329		0.72	38.3	6.52	28.3	4.98	16.75	0.91	0.19	0.012	1.55	0.31	0.11	0.01	0.01	98.31





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Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387310		1.51	0.04	0.96	188.0	31.4	2700	2.98	3.51	2.39	1.34	23.7	3.96	2.9	0.76	14.3
40387311		4.94	0.05	0.35	172.5	15.6	170	2.69	1.76	1.05	1.82	19.3	2.02	1.5	0.43	7.4
40387312		5.10	0.05	0.33	138.0	14.8	150	5.61	1.76	1.07	1.85	18.4	1.89	1.4	0.38	6.8
40387313		5.34	0.10	0.73	67.7	13.4	150	2.74	1.72	0.94	1.82	18.5	2.04	1.2	0.37	6.1
40387314		5.61	0.17	1.00	31.1	11.8	130	0.34	1.67	1.05	1.43	18.3	1.81	1.1	0.30	5.5
40387315		5.67	0.25	0.73	41.4	12.7	140	0.69	1.81	1.10	1.30	18.1	1.91	1.3	0.39	5.9
40387316		5.66	0.13	0.56	10.2	14.9	130	0.18	1.94	1.08	1.57	20.7	2.17	1.5	0.36	7.2
40387317		5.02	0.02	0.04	57.2	20.1	130	0.87	2.44	1.47	1.44	21.1	2.69	1.7	0.47	9.5
40387318		1.25	0.02	0.04	132.0	18.0	340	1.46	2.31	1.46	1.08	20.7	2.43	1.8	0.50	8.6
40387319		0.61	0.01	0.05	126.0	17.7	120	1.09	2.61	1.37	1.15	20.3	2.30	1.7	0.49	8.6
40387320		0.55	0.01	0.05	133.0	16.7	120	1.04	2.33	1.36	1.05	20.4	2.42	1.9	0.50	7.7
40387321		0.48	0.01	0.03	126.0	36.5	260	1.23	5.80	3.35	1.58	22.6	5.35	4.8	1.21	16.9
40387322		-0.66	0.01	0.86	92.2	19.5	140	1.23	3.23	1.98	0.92	11.9	3.27	2.2	0.68	8.9
40387323		3.13	0.02	0.46	134.0	26.3	70	1.66	3.72	2.12	1.26	20.2	3.93	2.8	0.70	12.5
40387324		2.44	0.02	0.67	161.5	24.1	180	2.03	3.18	1.96	1.36	22.1	3.50	2.5	0.64	11.2
40387325		1.47	0.02	0.16	96.9	6.9	120	2.53	0.71	0.48	0.91	17.1	0.73	0.4	0.13	3.2
40387326		0.84	0.01	0.06	149.5	68.8	180	1.91	9.37	5.93	2.50	25.7	9.86	7.9	2.01	32.0
40387327		4.34	0.02	0.16	212	11.8	160	2.19	1.70	1.05	0.90	18.1	1.36	1.3	0.31	5.4
40387328		3.46	0.02	0.13	173.5	17.5	110	2.88	2.44	1.43	1.20	20.2	2.46	1.9	0.53	8.3
40387329		0.36	0.01	0.98	68.5	17.2	90	1.32	2.56	1.48	0.77	11.1	2.94	2.1	0.59	8.0



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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387310		0.29	8.7	17.2	4.09	26.7	4.29	2	427	0.7	0.67	1.40	0.32	0.35	181	1
40387311		0.15	4.1	8.8	1.98	17.1	2.37	1	462	0.4	0.30	0.67	0.18	0.15	117	<1
40387312		0.14	3.8	7.8	1.96	16.2	1.94	1	523	0.3	0.33	0.59	0.16	0.21	109	<1
40387313		0.13	3.2	7.4	1.73	10.3	1.63	1	595	0.4	0.27	0.55	0.14	0.15	108	<1
40387314		0.13	3.5	6.4	1.68	4.7	1.45	1	292	0.3	0.31	0.70	0.13	0.42	99	1
40387315		0.13	3.4	6.7	1.69	6.3	1.70	1	340	0.3	0.30	0.53	0.16	0.19	109	<1
40387316		0.16	4.2	8.4	2.12	1.6	2.14	1	100.0	0.3	0.32	0.65	0.16	0.29	112	<1
40387317		0.22	7.4	11.8	2.69	8.4	2.79	1	225	0.4	0.37	0.91	0.23	0.19	116	<1
40387318		0.20	5.4	10.5	2.55	8.3	2.43	1	334	0.4	0.44	0.70	0.21	0.18	119	<1
40387319		0.19	5.0	10.1	2.47	6.6	2.42	1	316	0.4	0.36	0.73	0.21	0.22	113	<1
40387320		0.20	5.1	10.0	2.11	6.7	2.26	1	316	0.4	0.43	0.70	0.20	0.20	127	<1
40387321		0.45	14.5	22.3	5.01	8.4	5.69	1	222	0.9	1.01	1.61	0.48	0.45	488	<1
40387322		0.25	6.8	11.9	2.77	6.5	2.96	1	96.5	0.4	0.55	0.84	0.27	0.24	259	<1
40387323		0.27	8.3	15.1	3.65	8.0	3.75	1	244	0.5	0.65	1.22	0.33	0.33	164	<1
40387324		0.25	6.6	14.3	3.21	15.9	3.25	1	314	0.5	0.55	1.05	0.30	0.33	188	<1
40387325		0.06	1.6	4.0	0.87	9.6	1.01	<1	292	0.2	0.12	0.38	0.06	0.26	85	<1
40387326		0.73	21.9	40.0	9.62	11.7	9.55	2	203	1.4	1.65	3.42	0.74	0.86	407	<1
40387327		0.14	3.4	6.9	1.59	14.5	1.37	1	327	0.3	0.23	0.53	0.15	0.15	95	<1
40387328		0.18	5.5	10.6	2.31	13.7	2.89	2	291	0.4	0.42	0.75	0.19	0.18	147	<1
40387329		0.23	6.5	10.4	2.47	5.3	2.33	1	93.0	0.4	0.41	0.73	0.24	0.21	194	<1



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**CERTIFICATE OF ANALYSIS TB18199779**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	Ag ppm	Cd ppm	Co ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387310		21.7	1.89	117	6.2	0.42	0.007	0.057	0.008	0.30	3.0	0.19	0.33	1.55	0.47	102.0
40387311		11.2	1.13	64	6.3	0.17	<0.005	0.021	0.002	0.10	0.7	0.05	0.08	0.30	0.19	64.5
40387312		10.5	0.99	53	4.8	0.18	<0.005	0.027	0.002	0.14	0.6	0.06	0.10	0.33	0.22	67.5
40387313		9.5	0.82	46	15.6	0.49	<0.005	0.037	0.004	0.22	1.2	0.09	0.15	0.76	0.36	104.5
40387314		8.4	1.04	48	21.6	0.75	<0.005	0.044	0.004	0.28	1.9	0.15	0.17	1.05	0.53	113.5
40387315		9.3	0.99	50	10.7	0.62	<0.005	0.046	0.004	0.21	1.3	0.13	0.11	0.92	0.85	102.0
40387316		10.2	1.19	59	7.0	0.63	<0.005	0.038	0.003	0.15	1.3	0.12	0.12	1.38	1.50	91.7
40387317		12.7	1.45	71	12.0	0.06	<0.005	0.018	0.004	0.15	0.3	0.02	0.02	0.15	0.15	42.7
40387318		12.9	1.25	73	4.5	0.02	<0.005	0.011	<0.001	0.06	<0.2	<0.01	0.04	0.05	0.06	35.1
40387319		12.7	1.26	68	2.2	0.03	<0.005	0.015	<0.001	<0.05	<0.2	<0.01	0.06	0.06	0.08	37.8
40387320		12.0	1.15	68	2.2	0.03	<0.005	0.014	0.001	<0.05	<0.2	<0.01	0.07	0.08	0.10	39.4
40387321		31.2	3.30	172	4.6	0.02	<0.005	0.019	0.001	0.06	<0.2	<0.01	0.09	0.07	0.12	50.4
40387322		16.8	1.76	84	1.5	0.13	<0.005	0.067	0.010	<0.05	2.1	0.13	0.14	1.14	0.62	160.5
40387323		18.6	2.21	109	1.8	0.11	<0.005	0.041	0.006	0.06	1.4	0.07	0.51	0.70	0.47	81.5
40387324		16.9	1.63	102	16.7	0.15	<0.005	0.049	0.008	0.11	2.3	0.14	0.19	1.18	0.63	78.2
40387325		4.0	0.41	19	4.4	0.06	<0.005	0.011	0.003	0.05	0.3	0.03	0.13	0.17	0.16	63.7
40387326		50.2	5.80	304	4.5	0.03	<0.005	0.032	0.002	0.05	<0.2	<0.01	0.12	0.13	0.21	46.2
40387327		8.2	0.95	51	52.0	0.18	<0.005	0.023	0.005	0.13	1.1	0.08	0.04	0.66	0.58	79.3
40387328		13.1	1.31	72	72.7	0.29	<0.005	0.030	0.002	0.14	0.9	0.12	0.08	0.83	0.27	67.4
40387329		14.1	1.81	79	5.1	0.33	<0.005	0.086	0.010	<0.05	2.9	0.20	0.18	1.35	0.65	159.0



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.001	0.005	0.001
40387310		4010	28.8	5.19	2030	8.7	19.6	116	0.071	0.146	0.757			
40387311		579	39.2	0.69	270	13.2	11.5	62	0.005	0.0307	0.051			
40387312		673	37.9	0.77	337	21.5	10.5	60	0.004	0.0221	0.059			
40387313		1500	35.9	1.69	805	38.0	10.2	62	0.014	0.0506	0.157			
40387314		2150	31.2	2.51	1145	7.7	12.4	96	0.020	0.0381	0.129			
40387315		1840	34.1	2.43	954	5.7	13.2	134	0.023	0.0424	0.143			
40387316		1965	29.2	2.02	920	5.5	13.6	181	0.018	0.0436	0.164			
40387317		256	25.8	1.03	152.0	1.6	12.5	96	0.004	0.0057	0.019			
40387318		66.2	13.4	1.04	120.5	1.6	14.2	74	<0.001	0.0065	0.018			
40387319		140.0	12.0	0.99	140.5	1.4	15.5	77	0.002	0.0079	0.020			
40387320		151.5	11.8	1.03	143.0	1.5	16.2	80	0.002	0.0106	0.023			
40387321		149.0	6.9	1.25	96.5	1.4	57.8	121	<0.001	0.0007	0.002			
40387322		3140	10.3	0.91	999	1.8	35.9	217	0.036	0.0557	0.144			
40387323		1940	18.2	0.92	541	2.1	20.1	133	0.049	0.0400	0.091			
40387324		2810	20.5	1.83	820	2.8	17.2	137	0.023	0.0431	0.114			
40387325		463	12.7	1.37	342	2.8	9.4	79	0.002	0.0091	0.014			
40387326		236	6.7	2.01	78.2	1.7	46.3	149	0.001	0.0016	0.004			
40387327		1610	39.7	0.97	623	3.1	9.6	116	0.014	0.0223	0.061			
40387328		1290	21.3	0.44	429	1.6	15.7	155	0.023	0.0161	0.046			
40387329		3820	10.5	0.80	1090	0.9	24.6	184	0.049	0.0552	0.154			



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**CERTIFICATE OF ANALYSIS TB18199779**

CERTIFICATE COMMENTS													
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>C-IR07</td> <td>ME-ICP06</td> <td>ME-MS42</td> <td>ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-ICP24</td> <td>PGM-MS24</td> </tr> <tr> <td>S-IR08</td> <td>TOT-ICP06</td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-ICP24	PGM-MS24	S-IR08	TOT-ICP06		
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-ICP24	PGM-MS24										
S-IR08	TOT-ICP06												





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To: **RIO TINTO EXPLORATION CANADA INC.**  
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 Finalized Date: 12-SEP-2018  
 Account: RTECIKBZ

**CERTIFICATE TB18199778**

Project: EB80001451  
 P.O. No.: 3103290934  
 This report is for 192 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-AUG-2018.

The following have access to data associated with this certificate:

RACHELLE BOULANGER  
 RTXAMRNA ASSAY RESULTS

SUE DRIEBERG  
 ROBERT RUSH

BRIAN GOLDNER

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP81	ICP Fusion - Ore Grade	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387330		2.01	57.6	18.35	7.44	6.32	2.46	3.88	2.54	0.003	0.96	0.11	0.29	0.06	0.10	100.50
40387331		3.08	45.0	19.20	10.50	9.96	9.68	2.03	0.30	0.024	0.35	0.12	0.05	0.04	0.01	100.98
40387332		3.18	43.8	18.55	10.50	9.80	9.58	2.11	0.42	0.029	0.53	0.11	0.08	0.05	0.01	99.89
40387333		2.88	43.7	18.45	10.85	10.20	9.57	1.73	0.40	0.019	0.86	0.12	0.09	0.03	0.02	98.88
40387334		1.82	42.9	17.05	15.10	9.45	7.70	1.98	0.59	0.016	1.31	0.15	0.17	0.03	0.02	99.77
40387335		0.95	47.0	13.60	15.95	9.81	4.70	3.13	0.51	0.008	3.36	0.22	0.48	0.03	0.02	101.04
40387336		0.97	41.1	14.45	18.85	8.33	12.20	1.33	0.32	0.016	0.85	0.18	0.09	0.02	0.01	99.48
40387337		2.95	43.9	21.7	8.85	11.70	8.57	1.64	0.37	0.016	0.57	0.09	0.06	0.04	0.01	100.45
40387338		2.92	43.8	21.0	8.89	11.60	8.85	1.56	0.32	0.015	0.67	0.10	0.08	0.03	0.01	100.58
40387339		2.97	43.9	20.8	8.79	10.95	6.61	1.99	0.59	0.016	1.17	0.12	0.12	0.03	0.02	98.43
40387340		0.17	44.2	18.45	14.20	9.98	7.82	2.16	0.67	0.341	1.36	0.15	0.16	0.04	0.02	100.89
40387341		2.40	44.9	22.8	8.39	10.75	4.70	2.36	0.92	0.032	0.85	0.09	0.09	0.04	0.03	99.24
40387342		3.02	47.5	18.25	12.95	10.15	4.08	3.16	0.76	0.017	1.90	0.15	0.27	0.04	0.03	100.95
40387343		3.18	47.6	13.55	14.50	10.50	5.50	2.85	0.50	0.037	2.84	0.20	0.30	0.03	0.02	99.31
40387344		2.99	46.7	13.35	15.15	9.76	5.47	2.82	0.47	0.032	2.82	0.19	0.30	0.03	0.02	98.24
40387345		1.76	48.5	14.10	13.65	9.70	5.43	3.17	0.56	0.030	2.52	0.19	0.30	0.03	0.02	99.92
40387346		2.13	49.6	15.00	12.90	10.95	5.51	3.10	0.52	0.029	2.45	0.17	0.21	0.03	0.02	101.76
40387347		1.20	39.0	7.40	25.8	6.13	9.94	1.03	0.29	0.019	3.20	0.21	0.22	0.01	0.01	99.28
40387348		3.00	44.8	19.45	10.85	9.94	9.50	2.01	0.42	0.035	0.91	0.12	0.10	0.03	0.02	99.25
40387349		1.14	44.9	19.05	11.75	10.00	9.91	1.94	0.41	0.029	0.86	0.14	0.09	0.03	0.02	100.56
40387350		1.21	45.4	19.00	12.10	9.98	10.25	1.94	0.41	0.029	0.86	0.14	0.09	0.03	0.02	101.45
40387351		3.00	45.3	20.4	10.75	10.85	8.70	2.19	0.31	0.033	0.95	0.12	0.11	0.03	0.01	100.35
40387352		3.23	44.3	19.95	11.50	10.30	8.65	2.13	0.31	0.029	0.98	0.11	0.11	0.03	0.01	98.88
40387353		2.99	45.2	19.55	11.25	10.35	10.05	2.02	0.31	0.037	0.90	0.13	0.09	0.03	0.01	100.10
40387354		3.42	44.7	19.50	11.55	10.30	8.49	2.20	0.25	0.028	0.96	0.14	0.08	0.03	0.01	98.12
40387355		3.21	45.9	20.6	9.75	10.90	9.37	2.14	0.26	0.037	0.93	0.12	0.11	0.03	0.01	100.36
40387356		3.08	46.1	19.45	10.00	10.95	9.28	2.18	0.32	0.034	1.03	0.12	0.10	0.03	0.01	99.77
40387357		6.17	45.8	20.3	9.94	10.70	9.77	2.09	0.29	0.032	1.02	0.12	0.10	0.03	0.01	100.62
40387358		6.41	45.6	19.30	10.35	10.30	10.75	2.01	0.27	0.034	1.00	0.12	0.11	0.03	0.01	100.24
40387359		6.28	45.8	19.10	10.60	10.25	11.35	1.97	0.29	0.032	0.99	0.13	0.11	0.03	0.01	101.54
40387360		1.94	59.4	18.80	6.74	5.96	2.46	3.79	2.56	0.002	0.86	0.10	0.27	0.07	0.13	101.53
40387361		6.48	45.3	19.10	10.45	10.45	11.30	2.04	0.27	0.034	0.95	0.12	0.11	0.03	0.01	100.61
40387362		4.39	45.4	19.50	10.15	10.45	11.15	2.03	0.27	0.034	0.98	0.12	0.11	0.03	0.01	100.58
40387363		4.60	44.6	18.05	12.35	9.56	11.50	2.00	0.34	0.026	1.05	0.15	0.09	0.03	0.01	99.95
40387364		5.10	45.9	12.60	17.70	10.30	5.26	2.70	0.50	0.015	4.23	0.22	0.26	0.03	0.02	100.22
40387365		1.08	44.7	10.25	20.7	9.30	6.42	2.24	0.52	0.014	4.31	0.25	0.32	0.02	0.02	99.84
40387366		6.38	44.6	19.75	9.92	10.45	11.20	1.91	0.21	0.029	0.75	0.12	0.06	0.03	0.01	99.27
40387367		6.21	44.4	20.4	9.34	10.60	10.95	1.89	0.20	0.027	0.74	0.11	0.08	0.03	0.01	99.24
40387368		6.46	44.8	21.0	9.04	10.90	10.55	1.91	0.20	0.027	0.77	0.10	0.07	0.03	0.01	100.04
40387369		6.19	44.7	20.3	9.26	10.60	11.40	1.85	0.19	0.029	0.70	0.11	0.07	0.03	0.01	100.12



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387330		0.39	0.05	0.11	942	83.3	30	1.64	7.36	3.81	1.98	26.5	8.17	7.7	1.48	36.1
40387331		3.72	0.04	0.22	117.5	6.3	170	2.27	0.78	0.48	0.96	18.3	0.98	0.6	0.16	2.9
40387332		4.32	0.02	0.16	143.0	10.9	220	3.31	1.60	0.74	0.98	17.6	1.64	1.1	0.30	4.7
40387333		2.84	0.05	0.21	155.5	17.3	150	2.88	2.38	1.10	1.69	19.1	2.32	1.7	0.48	7.4
40387334		3.30	1.01	1.40	195.0	29.2	120	3.16	3.68	2.18	1.82	20.4	4.14	2.8	0.78	13.0
40387335		2.22	0.02	0.15	169.0	73.4	60	2.16	9.83	5.44	3.00	27.4	10.95	7.2	2.15	31.8
40387336		1.73	0.02	1.52	102.0	14.0	120	2.09	1.64	0.96	1.12	14.8	1.92	1.5	0.32	6.4
40387337		2.93	0.02	0.56	121.0	12.2	120	2.88	1.53	0.79	0.80	17.6	1.52	1.2	0.30	5.7
40387338		3.65	0.02	0.29	116.5	14.5	110	2.71	1.65	0.92	0.83	18.8	1.97	1.3	0.33	6.2
40387339		3.32	0.02	0.07	182.0	24.9	130	3.14	3.21	1.75	1.03	21.0	3.29	2.6	0.64	10.6
40387340		1.34	0.04	0.96	171.5	27.8	2400	2.82	3.18	2.07	1.34	21.6	3.70	2.7	0.74	12.2
40387341		3.29	0.02	0.05	284	19.1	230	4.51	2.41	1.34	1.05	22.6	2.60	1.8	0.54	8.4
40387342		1.69	0.02	0.49	275	48.0	120	1.88	5.72	3.44	2.02	24.9	6.20	4.7	1.26	21.3
40387343		0.88	0.01	0.18	186.0	50.9	270	1.30	6.86	4.04	2.08	24.6	6.92	5.2	1.55	22.5
40387344		1.13	0.02	0.22	164.5	51.9	230	1.11	7.92	4.47	2.29	25.0	7.96	5.2	1.55	22.6
40387345		1.72	0.01	0.06	186.0	52.9	210	0.88	8.43	4.88	2.06	25.4	8.11	5.7	1.59	23.6
40387346		1.27	0.01	0.08	181.0	37.3	200	0.92	6.42	3.44	1.94	25.6	6.08	4.1	1.23	16.8
40387347		6.02	0.03	0.56	102.0	37.0	140	2.57	6.13	3.63	1.33	18.2	5.88	4.7	1.11	16.5
40387348		1.06	0.02	0.17	148.0	17.6	240	1.57	2.53	1.74	0.96	20.0	2.35	1.8	0.53	8.3
40387349		1.43	0.02	0.03	150.0	15.8	200	1.26	2.09	1.25	0.96	20.0	2.45	1.7	0.48	7.3
40387350		1.20	0.02	0.03	153.0	15.2	200	1.29	2.27	1.21	1.00	19.6	2.27	1.8	0.46	6.9
40387351		0.60	0.01	0.51	117.5	19.0	230	0.84	2.82	1.64	1.06	20.1	3.07	2.0	0.52	8.9
40387352		0.47	0.01	0.82	121.5	19.8	200	0.85	2.81	1.59	1.09	21.2	3.04	2.1	0.60	9.2
40387353		0.17	0.02	0.04	114.5	15.8	250	0.67	2.46	1.26	0.98	20.0	2.78	1.9	0.53	7.3
40387354		-0.12	<0.01	0.06	105.5	14.6	190	0.54	2.31	1.37	0.98	19.4	2.45	1.5	0.46	6.5
40387355		0.20	0.01	0.04	117.0	18.7	250	0.20	2.80	1.66	1.02	20.0	2.84	2.1	0.55	8.5
40387356		0.17	<0.01	0.04	125.5	21.2	240	0.50	3.04	1.51	1.11	20.6	3.09	2.3	0.58	9.4
40387357		0.42	0.01	0.03	121.0	19.4	220	0.84	2.80	1.67	0.94	20.2	2.72	2.1	0.57	8.8
40387358		0.36	0.01	0.04	113.0	18.9	230	0.57	2.77	1.59	0.99	18.6	2.72	2.1	0.56	8.4
40387359		0.88	0.01	0.04	112.5	19.1	220	0.75	2.67	1.84	1.07	19.3	3.07	2.2	0.56	8.5
40387360		0.39	0.04	0.11	115.0	59.9	20	1.37	5.89	3.39	1.77	24.2	6.34	7.0	1.16	26.1
40387361		0.45	0.01	0.04	116.0	19.0	230	0.51	3.14	1.66	0.94	18.8	2.81	2.0	0.52	8.5
40387362		0.35	<0.01	0.04	118.5	19.9	230	0.38	3.15	1.50	0.94	18.0	2.84	2.2	0.55	8.9
40387363		0.19	<0.01	0.04	127.5	18.3	170	0.48	2.80	1.47	1.05	18.4	2.98	2.0	0.51	8.2
40387364		0.48	<0.01	0.13	197.0	44.3	100	1.22	7.34	4.25	2.04	25.4	7.33	5.1	1.35	19.7
40387365		0.78	<0.01	0.25	246	62.7	100	1.42	9.78	5.73	2.58	28.5	9.30	7.5	1.93	27.9
40387366		0.23	0.01	0.04	94.6	13.1	190	0.16	1.92	1.03	0.66	18.8	1.96	1.2	0.40	5.8
40387367		0.46	0.01	0.04	92.4	13.9	180	0.10	1.87	1.30	0.90	18.5	2.09	1.3	0.41	6.5
40387368		0.63	0.01	0.04	94.3	14.3	180	0.06	2.08	1.07	0.91	18.7	2.13	1.4	0.39	6.2
40387369		0.87	0.01	0.04	87.9	13.5	190	0.22	1.75	1.07	0.72	17.6	1.99	1.4	0.43	6.2



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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40387330		0.59	15.0	44.4	11.05	115.0	9.87	3	548	0.9	1.27	5.46	0.58	2.06	136	1
40387331		0.07	1.6	3.7	0.78	9.6	0.79	1	362	0.2	0.11	0.33	0.04	0.48	128	<1
40387332		0.10	3.0	5.6	1.45	15.0	1.40	1	450	0.5	0.24	0.47	0.13	0.20	118	<1
40387333		0.15	4.4	9.6	2.33	12.9	2.59	1	310	0.4	0.34	0.66	0.17	0.22	160	<1
40387334		0.25	8.4	17.0	3.85	20.9	3.76	1	289	0.6	0.64	1.32	0.35	0.32	209	<1
40387335		0.78	20.9	41.5	9.85	17.9	10.25	2	246	1.3	1.67	2.96	0.82	0.86	400	1
40387336		0.15	3.9	8.0	1.88	9.8	1.48	1	218	0.3	0.28	0.56	0.13	0.18	207	<1
40387337		0.14	3.1	6.6	1.86	11.4	1.70	1	300	0.3	0.24	0.51	0.11	0.14	72	<1
40387338		0.14	3.6	8.1	1.87	10.0	1.74	1	277	0.2	0.31	0.56	0.09	0.13	83	<1
40387339		0.25	7.7	13.9	3.17	24.4	3.34	1	332	0.7	0.57	0.95	0.24	0.28	112	<1
40387340		0.27	7.9	15.6	3.72	24.0	3.32	2	339	0.6	0.58	1.20	0.26	0.29	197	1
40387341		0.20	5.1	10.2	2.50	41.5	2.30	1	405	0.4	0.38	0.80	0.17	0.22	112	<1
40387342		0.50	12.0	26.7	6.34	22.8	5.96	1	296	0.8	1.10	2.19	0.52	0.56	183	1
40387343		0.59	17.0	29.9	6.82	16.1	7.26	2	246	1.0	1.24	2.19	0.60	0.63	314	<1
40387344		0.57	15.6	29.4	7.28	13.8	7.47	2	218	1.0	1.28	2.38	0.58	0.59	342	<1
40387345		0.62	16.3	31.6	7.60	16.6	7.83	2	233	1.1	1.36	2.56	0.68	0.64	300	<1
40387346		0.47	10.9	22.5	5.39	15.2	5.91	2	266	0.8	1.01	1.70	0.51	0.46	404	<1
40387347		0.45	13.3	22.1	5.28	10.4	5.50	2	118.5	1.0	0.96	2.07	0.45	0.59	397	<1
40387348		0.19	5.4	10.5	2.54	11.9	2.49	1	260	0.4	0.44	0.75	0.20	0.19	114	<1
40387349		0.16	4.9	9.3	2.31	11.3	2.37	1	254	0.4	0.39	0.71	0.20	0.21	103	<1
40387350		0.20	4.7	9.0	2.20	11.5	2.15	1	253	0.4	0.41	0.67	0.18	0.20	101	<1
40387351		0.21	5.4	11.6	2.64	7.8	2.36	1	261	0.5	0.44	0.86	0.25	0.22	121	<1
40387352		0.23	6.1	11.6	2.86	7.4	2.94	2	256	0.5	0.47	0.89	0.24	0.20	119	<1
40387353		0.19	4.8	9.4	2.22	7.2	2.32	1	248	0.4	0.42	0.70	0.22	0.18	113	<1
40387354		0.19	4.4	8.2	2.04	5.3	2.04	<1	250	0.3	0.35	0.62	0.20	0.15	123	<1
40387355		0.22	5.4	11.0	2.66	5.2	2.66	1	265	0.5	0.49	0.81	0.20	0.19	113	<1
40387356		0.23	5.7	12.8	3.07	6.7	3.07	1	277	0.5	0.53	0.90	0.25	0.25	123	<1
40387357		0.20	5.9	11.7	2.76	7.0	2.97	1	261	0.5	0.48	0.86	0.21	0.20	120	<1
40387358		0.20	5.6	11.1	2.66	6.2	2.69	1	247	0.4	0.46	0.82	0.23	0.20	124	1
40387359		0.23	5.5	10.7	2.75	6.9	2.78	1	247	0.4	0.51	0.91	0.23	0.17	122	1
40387360		0.46	13.2	34.5	8.59	97.2	7.41	3	531	0.7	0.98	3.77	0.46	1.53	109	<1
40387361		0.21	5.7	10.8	2.73	5.9	2.78	1	247	0.4	0.41	0.78	0.23	0.19	117	<1
40387362		0.22	5.7	11.4	2.71	6.1	2.76	1	248	0.4	0.46	0.91	0.25	0.23	119	<1
40387363		0.19	5.8	10.9	2.50	7.7	2.49	1	235	0.4	0.46	0.83	0.20	0.23	126	<1
40387364		0.55	14.7	27.0	6.32	14.3	7.66	2	197.0	1.0	1.17	1.98	0.60	0.56	704	1
40387365		0.72	21.2	37.1	8.94	14.3	9.04	3	185.5	1.4	1.59	2.92	0.84	0.74	682	1
40387366		0.14	3.8	7.8	1.84	3.8	1.91	1	248	0.2	0.34	0.60	0.18	0.14	96	<1
40387367		0.15	4.1	8.0	2.02	4.1	2.18	<1	260	0.2	0.31	0.57	0.16	0.14	93	<1
40387368		0.17	4.1	8.0	2.07	3.8	2.04	1	262	0.3	0.32	0.62	0.18	0.14	91	<1
40387369		0.15	3.8	7.7	1.83	3.7	2.11	1	260	0.3	0.29	0.54	0.14	0.12	84	<1





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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387330		41.5	3.64	295	0.2	0.01	<0.005	0.033	0.001	<0.05	0.7	0.02	0.38	0.02	0.07	18.1
40387331		4.7	0.40	21	23.8	0.07	<0.005	0.015	0.004	0.08	0.7	0.05	0.14	0.30	0.18	81.6
40387332		8.1	0.90	45	16.8	0.08	<0.005	0.027	0.009	0.08	1.1	0.09	0.11	0.59	0.63	84.3
40387333		12.5	1.20	64	7.7	0.04	<0.005	0.018	0.003	<0.05	0.7	0.04	0.08	0.21	0.23	48.6
40387334		20.9	2.09	116	11.3	0.23	<0.005	0.065	0.006	0.12	1.9	0.09	0.18	0.78	0.71	110.0
40387335		51.2	5.42	282	2.8	0.02	<0.005	0.044	0.002	0.07	0.5	<0.01	0.08	0.12	0.22	46.9
40387336		10.1	1.21	54	15.2	0.27	<0.005	0.069	0.022	0.17	2.6	0.13	0.13	0.86	0.61	153.0
40387337		8.0	0.74	44	7.4	0.15	<0.005	0.031	0.009	0.10	1.3	0.06	0.09	0.53	0.35	80.1
40387338		9.6	1.00	54	5.7	0.16	0.006	0.021	0.003	0.15	0.8	0.03	0.13	0.26	0.33	68.2
40387339		16.9	1.88	94	8.7	0.04	<0.005	0.018	0.001	0.09	0.3	0.01	0.09	0.11	0.11	43.5
40387340		18.6	1.78	107	6.7	0.45	0.010	0.049	0.008	0.34	2.9	0.19	0.35	1.47	0.44	96.5
40387341		13.0	1.33	71	4.6	0.01	<0.005	0.015	<0.001	0.06	0.2	<0.01	0.20	0.02	0.05	42.5
40387342		32.4	2.93	180	10.5	0.04	<0.005	0.039	0.006	0.06	1.2	0.05	0.10	0.43	0.26	55.4
40387343		37.9	3.60	205	6.8	0.02	<0.005	0.027	0.001	0.08	0.9	0.01	0.07	0.19	0.17	48.7
40387344		38.4	4.20	207	1.7	0.04	<0.005	0.038	0.002	0.05	0.8	0.02	0.06	0.27	0.20	48.2
40387345		40.0	4.00	229	2.0	0.02	<0.005	0.030	0.002	<0.05	0.7	<0.01	0.05	0.12	0.14	41.4
40387346		30.8	3.52	166	2.2	0.01	<0.005	0.027	0.002	<0.05	0.3	<0.01	0.05	0.06	0.13	37.6
40387347		27.6	2.78	178	0.5	0.09	0.008	0.053	0.005	<0.05	1.5	0.08	1.15	0.53	0.35	127.5
40387348		12.7	1.22	72	3.5	0.04	<0.005	0.022	0.003	0.06	0.5	0.03	0.10	0.19	0.13	63.3
40387349		11.8	1.15	68	1.6	0.01	<0.005	0.014	<0.001	<0.05	0.3	0.01	0.11	0.04	0.06	61.2
40387350		11.4	1.27	65	1.6	0.01	<0.005	0.013	0.001	<0.05	0.2	<0.01	0.10	0.04	0.07	63.3
40387351		13.7	1.35	76	0.4	0.09	<0.005	0.029	0.005	<0.05	1.7	0.09	0.05	0.61	0.25	67.5
40387352		14.5	1.45	78	0.9	0.18	<0.005	0.044	0.010	<0.05	1.9	0.08	0.04	0.69	0.40	90.5
40387353		12.0	1.20	71	0.2	0.01	<0.005	0.013	0.002	<0.05	0.2	<0.01	0.02	0.04	0.06	55.6
40387354		11.0	1.08	60	0.5	0.01	<0.005	0.014	0.001	<0.05	0.6	0.01	0.03	0.06	0.07	53.2
40387355		13.6	1.32	75	0.2	<0.01	<0.005	0.013	<0.001	<0.05	0.3	<0.01	0.02	0.03	0.05	50.8
40387356		15.6	1.69	89	<0.1	<0.01	<0.005	0.014	<0.001	<0.05	0.3	<0.01	0.02	0.04	0.06	50.3
40387357		14.1	1.32	85	2.6	0.01	<0.005	0.012	<0.001	<0.05	0.3	<0.01	0.03	0.05	0.05	52.6
40387358		13.9	1.61	83	0.2	<0.01	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	0.03	0.06	0.06	57.1
40387359		14.0	1.47	87	1.0	<0.01	<0.005	0.014	<0.001	<0.05	0.3	<0.01	0.06	0.07	0.06	58.0
40387360		30.9	2.95	281	0.2	0.01	<0.005	0.024	<0.001	<0.05	0.2	0.01	0.33	0.02	0.05	14.6
40387361		13.9	1.45	75	<0.1	0.01	<0.005	0.017	<0.001	<0.05	<0.2	0.01	0.02	0.06	0.08	60.2
40387362		14.2	1.66	86	0.5	<0.01	<0.005	0.016	<0.001	0.07	0.4	<0.01	0.03	0.04	0.06	57.4
40387363		13.3	1.37	77	1.1	0.01	<0.005	0.016	0.001	<0.05	0.5	0.01	0.04	0.05	0.08	64.0
40387364		35.3	3.72	192	1.1	0.01	<0.005	0.023	0.001	<0.05	0.6	<0.01	0.08	0.14	0.19	49.0
40387365		47.8	5.01	279	1.1	0.01	<0.005	0.022	0.002	<0.05	0.4	0.01	0.08	0.15	0.23	60.2
40387366		9.5	1.08	52	<0.1	0.01	<0.005	0.013	<0.001	<0.05	<0.2	<0.01	0.02	0.04	0.08	58.6
40387367		9.5	0.94	53	0.2	0.02	<0.005	0.014	<0.001	<0.05	<0.2	<0.01	0.02	0.03	0.05	56.5
40387368		10.2	0.84	59	<0.1	0.01	<0.005	0.013	0.001	<0.05	<0.2	<0.01	<0.02	0.04	0.07	54.0
40387369		9.6	1.02	53	0.2	0.01	<0.005	0.013	<0.001	<0.05	0.4	0.01	<0.02	0.03	0.05	56.3





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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387330		20.4	22.4	1.09	14.0	11.2	15.8	92	<0.001	<0.0005	0.001					
40387331		714	34.2	0.37	524	4.1	11.4	83	0.009	0.0111	0.023					
40387332		1320	46.5	0.81	695	4.6	11.0	100	0.011	0.0191	0.045					
40387333		481	25.3	1.15	330	7.9	12.5	79	0.003	0.0089	0.017					
40387334		1910	18.7	4.06	607	3.5	19.6	114	0.030	0.0239	0.068					
40387335		301	8.3	2.46	71.2	3.2	42.0	146	0.002	0.0019	0.005					
40387336		1875	17.7	3.47	1060	5.4	17.5	116	0.027	0.0292	0.094					
40387337		1160	24.1	2.71	676	4.3	8.3	72	0.008	0.0355	0.064					
40387338		505	28.5	1.20	537	1.9	9.0	84	0.005	0.0301	0.061					
40387339		157.5	22.2	0.86	335	1.3	12.3	80	0.004	0.0270	0.058					
40387340		3860	29.6	4.88	2030	7.9	17.9	111	0.078	0.150	0.730					
40387341		40.0	21.3	0.61	176.5	1.0	9.8	63	0.004	0.0142	0.027					
40387342		898	12.8	1.32	357	2.5	25.7	112	0.010	0.0146	0.025					
40387343		391	11.5	1.47	104.0	2.5	48.1	131	0.003	0.0019	0.004					
40387344		571	11.6	1.55	112.0	3.0	46.9	137	0.004	0.0037	0.007					
40387345		232	12.4	1.56	81.6	3.1	46.0	126	0.001	0.0020	0.003					
40387346		130.0	8.9	1.25	58.9	2.1	49.2	110	<0.001	<0.0005	<0.001					
40387347		1570	10.8	0.98	561	2.3	34.0	203	0.027	0.0451	0.118					
40387348		429	14.0	0.75	422	1.5	14.1	85	0.006	0.0126	0.026					
40387349		59.9	17.5	0.56	264	1.3	13.7	87	<0.001	0.0012	0.002					
40387350		71.3	17.2	0.62	270	1.2	14.8	89	0.001	0.0014	0.002					
40387351		1535	10.0	0.75	851	2.5	14.2	81	0.023	0.0394	0.064					
40387352		1830	8.4	0.91	776	3.1	13.9	80	0.020	0.0325	0.064					
40387353		111.5	7.9	0.61	371	1.4	15.5	81	0.001	0.0049	0.009					
40387354		133.5	5.9	0.59	287	1.3	17.3	86	0.003	0.0066	0.011					
40387355		94.3	5.1	0.65	353	1.2	12.0	71	0.001	0.0040	0.009					
40387356		99.6	5.6	0.63	351	1.4	13.1	73	0.001	0.0037	0.008					
40387357		88.2	6.9	0.65	377	1.3	12.1	73	0.002	0.0037	0.007					
40387358		94.5	6.1	0.78	438	1.4	14.4	78	0.002	0.0087	0.020					
40387359		87.3	9.9	0.72	456	1.3	14.9	79	0.001	0.0040	0.009					
40387360		14.4	15.8	0.79	12.4	11.8	13.6	87	<0.001	<0.0005	0.002					
40387361		92.6	6.8	0.72	475	1.3	14.9	78	0.001	0.0037	0.007					
40387362		77.5	6.7	0.64	447	1.4	15.2	72	0.001	0.0096	0.016					
40387363		104.0	7.4	0.61	476	1.4	15.9	95	0.003	0.0046	0.007					
40387364		262	8.6	1.28	63.1	2.9	53.1	157	0.001	<0.0005	<0.001					
40387365		294	9.2	1.36	95.3	2.8	49.1	178	0.002	0.0014	0.001					
40387366		82.7	4.9	0.53	497	1.3	12.6	74	0.001	0.0033	0.005					
40387367		65.8	3.6	0.51	495	1.1	11.0	66	0.001	0.0025	0.005					
40387368		78.1	3.3	0.50	478	1.2	10.5	65	0.003	0.0017	0.005					
40387369		59.4	3.5	0.47	526	1.2	10.8	64	0.001	0.0023	0.005					



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Sample Description	Method Analyte Units LOD	ME-ICP81 Cu %	ME-ICP81 Fe %	ME-ICP81 Fe2O3 %	ME-ICP81 K %	ME-ICP81 MgO %	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40387330		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40387331													
40387332													
40387333													
40387334													
40387335													
40387336													
40387337													
40387338													
40387339													
40387340													
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40387363													
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40387365													
40387366													
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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387370		0.17	45.0	18.30	12.65	9.53	7.70	2.10	1.07	0.346	1.32	0.14	0.16	0.05	0.04	100.39
40387371		6.33	44.2	19.75	9.38	10.40	11.50	1.80	0.21	0.030	0.75	0.11	0.09	0.03	0.01	98.80
40387372		6.20	42.8	16.30	11.50	8.65	16.30	1.55	0.24	0.027	0.69	0.13	0.09	0.03	0.01	100.51
40387373		6.27	43.3	18.10	10.45	9.48	14.15	1.66	0.23	0.027	0.69	0.12	0.09	0.03	0.01	100.24
40387374		6.51	42.5	16.85	10.75	9.00	15.05	1.53	0.27	0.026	0.70	0.12	0.08	0.03	0.01	98.78
40387375		6.38	42.6	16.05	11.15	8.59	16.05	1.58	0.20	0.026	0.70	0.13	0.07	0.02	0.01	98.72
40387376		6.12	44.1	18.85	10.00	9.84	13.05	1.77	0.20	0.025	0.72	0.12	0.09	0.03	0.01	99.56
40387377		6.57	43.8	17.70	10.30	9.44	14.50	1.71	0.20	0.031	0.68	0.12	0.08	0.03	0.01	99.75
40387378		5.95	44.9	17.95	9.93	9.77	12.50	1.76	0.27	0.030	0.71	0.12	0.08	0.03	0.01	99.12
40387379		3.13	46.1	18.65	9.74	10.35	12.00	1.85	0.29	0.037	0.77	0.12	0.08	0.03	0.01	100.89
40387380		2.83	46.0	18.65	9.87	10.35	11.95	1.85	0.28	0.035	0.81	0.12	0.08	0.03	0.01	100.88
40387381		6.37	46.3	19.70	9.41	10.55	10.75	1.93	0.30	0.030	0.80	0.11	0.10	0.03	0.01	100.90
40387382		6.14	46.2	19.45	9.31	10.55	11.05	1.96	0.22	0.034	0.78	0.11	0.08	0.03	0.01	100.51
40387383		6.32	45.4	18.00	10.15	9.69	12.20	1.82	0.24	0.031	0.75	0.12	0.09	0.03	0.01	99.22
40387384		6.29	46.7	21.0	8.63	11.20	8.23	2.07	0.25	0.066	0.81	0.10	0.10	0.03	0.01	99.58
40387385		6.16	46.1	21.6	8.03	11.55	7.17	2.14	0.28	0.260	0.95	0.09	0.10	0.04	0.01	99.02
40387386		6.29	46.4	19.80	9.13	10.65	10.10	2.01	0.24	0.093	0.88	0.11	0.10	0.03	0.01	100.02
40387387		0.65	40.2	22.0	10.75	9.86	9.24	1.73	0.19	2.75	0.88	0.10	0.08	0.03	0.01	98.21
40387388		5.66	45.4	18.55	9.84	10.05	11.70	1.88	0.23	0.083	0.83	0.12	0.08	0.03	0.01	99.32
40387389		6.52	46.3	19.95	8.97	10.75	9.93	2.04	0.28	0.033	0.87	0.11	0.10	0.03	0.01	99.81
40387390		2.15	57.8	18.45	7.48	6.49	2.66	3.83	2.28	0.003	0.95	0.11	0.27	0.07	0.11	100.87
40387391		6.31	46.2	18.90	9.97	10.25	11.30	1.96	0.25	0.030	0.92	0.12	0.11	0.03	0.01	100.42
40387392		6.25	46.5	19.00	9.62	10.35	11.30	1.93	0.29	0.033	0.91	0.11	0.10	0.03	0.01	100.67
40387393		6.61	45.6	18.30	11.05	9.77	11.05	1.76	0.36	0.026	0.81	0.13	0.08	0.03	0.01	99.71
40387394		6.18	46.6	17.55	10.80	9.94	10.05	2.16	0.28	0.031	1.16	0.13	0.12	0.03	0.01	99.36
40387395		6.14	46.2	19.20	9.39	10.35	11.00	1.95	0.24	0.033	0.82	0.11	0.09	0.03	0.01	99.86
40387396		6.28	45.8	18.80	9.68	10.15	11.55	1.90	0.22	0.032	0.81	0.12	0.09	0.03	0.01	99.57
40387397		6.10	45.6	18.60	9.67	9.97	11.80	1.85	0.30	0.033	0.79	0.11	0.10	0.03	0.01	99.37
40387398		6.51	45.2	18.60	9.56	10.05	11.70	1.87	0.22	0.035	0.76	0.11	0.08	0.03	0.01	98.56
40387399		6.41	45.3	18.40	10.05	10.25	12.65	1.85	0.26	0.036	0.80	0.12	0.09	0.03	0.01	100.29
40387400		0.17	44.6	18.15	12.45	9.46	7.67	2.10	1.14	0.345	1.32	0.14	0.15	0.05	0.04	99.59
40387401		6.55	45.5	17.75	11.70	9.55	12.75	1.71	0.31	0.035	0.68	0.14	0.07	0.03	0.02	100.80
40387402		6.27	45.9	18.35	11.25	10.00	12.00	1.84	0.22	0.035	0.78	0.14	0.08	0.03	0.01	100.79
40387403		6.41	46.0	18.35	11.05	9.82	11.95	1.83	0.21	0.036	0.67	0.13	0.07	0.03	0.01	100.22
40387404		6.33	45.9	18.85	9.41	10.20	11.90	1.86	0.21	0.044	0.75	0.11	0.08	0.03	0.01	99.82
40387405		6.32	45.0	18.25	9.97	9.87	12.60	1.80	0.20	0.045	0.75	0.12	0.07	0.03	0.01	99.07
40387406		6.51	45.2	18.05	10.05	9.71	13.15	1.76	0.22	0.044	0.74	0.12	0.08	0.03	0.01	99.92
40387407		6.32	45.0	18.05	10.00	9.76	13.00	1.79	0.19	0.048	0.70	0.12	0.09	0.03	0.01	99.22
40387408		6.43	45.7	18.60	9.78	10.05	12.60	1.81	0.19	0.058	0.71	0.12	0.08	0.03	0.01	100.06
40387409		2.96	45.7	19.75	9.57	10.95	11.15	1.95	0.24	0.092	0.79	0.12	0.09	0.03	0.01	100.79



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 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80001451

**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387370		1.98	0.03	0.33	94.4	15.0	210	0.19	2.38	1.24	0.87	17.9	2.08	1.5	0.44	6.7
40387371		0.54	<0.01	0.04	88.2	14.9	200	0.23	2.25	1.20	0.81	16.9	2.11	1.5	0.44	6.6
40387372		2.19	0.01	0.03	85.7	13.7	190	0.45	1.94	1.09	0.76	15.1	2.09	1.6	0.44	6.0
40387373		1.90	0.01	0.03	88.8	13.5	180	0.53	2.00	1.03	0.77	16.3	2.17	1.3	0.39	6.2
40387374		1.86	0.01	0.03	85.2	13.2	180	0.59	2.03	1.23	0.67	15.4	1.66	1.3	0.37	5.9
40387375		1.54	0.04	0.03	82.8	13.2	180	0.26	2.03	1.19	0.78	14.7	2.07	1.3	0.40	5.9
40387376		0.75	0.01	0.03	89.5	14.2	170	0.08	2.26	1.22	0.88	16.3	2.36	1.5	0.43	6.4
40387377		1.15	0.01	0.04	87.1	13.6	200	0.12	2.06	1.31	0.81	15.5	2.27	1.4	0.39	6.2
40387378		1.06	0.01	0.03	86.5	14.6	210	0.57	1.96	1.12	0.76	16.9	2.15	1.7	0.39	6.3
40387379		0.86	0.01	0.04	87.8	14.3	260	0.55	2.20	1.22	0.76	16.0	2.21	1.5	0.42	6.5
40387380		0.84	<0.01	0.04	87.2	14.5	250	0.58	2.23	1.23	0.80	16.9	2.17	1.5	0.45	6.3
40387381		0.88	0.01	0.04	94.3	15.8	210	0.51	2.12	1.24	0.81	17.7	2.42	1.9	0.40	7.2
40387382		0.73	<0.01	0.04	92.5	15.1	240	0.22	2.11	1.13	0.87	17.4	2.19	1.7	0.42	7.0
40387383		0.69	0.01	0.03	85.8	14.4	220	0.40	1.94	1.35	0.81	16.3	2.20	1.7	0.42	6.6
40387384		0.38	<0.01	0.04	92.8	16.2	460	0.32	2.34	1.31	0.93	18.8	2.43	1.9	0.45	7.4
40387385		0.70	0.01	0.04	106.0	18.1	1890	0.43	2.69	1.31	0.87	19.5	2.67	1.9	0.59	8.1
40387386		0.47	0.01	0.05	98.7	16.3	660	0.21	2.54	1.28	0.85	18.1	2.67	1.8	0.50	7.1
40387387		0.39	0.02	0.19	75.2	12.2	>10000	0.12	1.88	1.10	0.65	27.1	1.93	1.3	0.35	5.5
40387388		0.52	0.01	0.04	93.7	15.8	590	0.17	2.38	1.32	0.79	16.6	2.46	1.7	0.52	7.3
40387389		0.44	0.02	0.03	104.0	17.5	240	0.39	2.49	1.31	0.94	17.7	2.75	2.0	0.53	7.9
40387390		0.37	0.06	0.10	958	62.1	20	1.35	7.33	3.66	1.78	24.5	7.31	6.9	1.38	27.0
40387391		0.37	0.02	0.03	99.8	18.0	220	0.38	2.70	1.58	0.83	17.0	2.84	1.9	0.53	8.1
40387392		0.49	0.01	0.03	102.0	17.6	240	0.39	2.78	1.39	0.79	17.5	2.82	1.9	0.55	8.0
40387393		0.73	0.02	0.03	104.5	14.1	190	0.92	2.27	1.06	0.75	17.4	1.97	1.6	0.44	6.6
40387394		0.50	0.02	0.03	104.0	20.3	220	0.32	3.19	1.66	1.11	18.0	3.14	2.5	0.63	9.0
40387395		0.44	0.02	0.03	96.2	16.0	240	0.10	2.33	1.30	0.84	17.9	2.26	1.8	0.47	7.1
40387396		0.38	0.02	0.03	97.4	15.5	230	0.11	2.32	1.20	0.74	16.8	2.47	1.9	0.46	6.9
40387397		0.51	0.02	0.02	90.5	15.5	230	0.53	2.52	1.25	0.73	16.6	2.38	1.7	0.44	7.1
40387398		0.33	0.01	0.03	87.8	15.0	240	0.21	2.32	1.25	0.77	16.7	2.07	1.7	0.48	6.7
40387399		0.44	0.02	0.03	315	25.5	2510	2.32	3.61	1.95	1.05	20.7	3.83	2.8	0.70	11.6
40387400		1.97	0.04	0.33	91.3	15.4	270	0.21	2.31	1.27	0.81	17.1	2.28	1.7	0.47	7.0
40387401		0.55	0.01	0.04	155.0	11.8	240	0.95	1.83	0.91	0.77	16.1	1.77	1.2	0.36	5.3
40387402		0.15	0.02	0.03	86.0	13.1	240	0.19	2.04	1.14	0.82	17.0	1.99	1.3	0.38	6.0
40387403		0.06	0.01	0.03	84.0	12.2	250	0.17	1.82	0.94	0.80	16.5	1.90	1.3	0.35	5.3
40387404		0.47	0.02	0.02	97.2	17.9	310	0.06	2.37	1.11	0.92	16.9	2.41	1.5	0.45	8.1
40387405		0.35	0.02	0.03	83.9	13.5	320	0.05	1.81	1.04	0.82	16.7	2.17	1.5	0.37	6.2
40387406		0.76	0.01	0.03	83.4	13.5	300	0.32	1.76	1.17	0.77	15.7	2.03	1.5	0.41	5.8
40387407		0.43	0.02	0.03	83.0	13.1	340	0.10	1.87	1.12	0.85	15.7	1.99	1.5	0.40	6.0
40387408		0.32	0.01	0.02	85.2	13.5	400	0.01	2.13	1.28	0.66	16.7	2.10	1.5	0.43	6.0
40387409		0.35	0.02	0.03	88.0	14.5	640	0.03	2.23	1.28	0.81	17.1	2.22	1.6	0.40	6.8



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Project: EB80001451

**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40387370		0.17	4.4	9.0	2.15	4.4	2.19	1	258	0.4	0.32	0.64	0.17	0.15	98	<1
40387371		0.17	4.4	8.6	1.99	4.4	2.15	<1	254	0.3	0.32	0.62	0.17	0.15	92	<1
40387372		0.17	4.0	7.8	1.95	6.2	2.19	<1	216	0.3	0.32	0.61	0.17	0.14	84	<1
40387373		0.17	3.9	7.9	1.98	5.8	1.97	<1	241	0.3	0.32	0.59	0.15	0.13	81	<1
40387374		0.15	3.8	7.8	1.87	7.4	2.44	1	225	0.3	0.34	0.59	0.15	0.27	86	<1
40387375		0.18	3.8	7.5	1.85	4.7	2.25	1	205	0.4	0.31	0.54	0.15	0.19	88	<1
40387376		0.16	4.1	7.9	2.14	4.0	2.11	<1	241	0.4	0.35	0.61	0.18	0.15	88	<1
40387377		0.12	3.7	8.2	1.85	4.0	2.00	<1	224	0.3	0.34	0.53	0.17	0.14	88	<1
40387378		0.15	4.0	8.3	1.94	7.2	2.23	1	246	0.3	0.33	0.55	0.18	0.14	95	<1
40387379		0.15	4.2	8.4	1.93	8.2	2.27	1	254	0.3	0.32	0.56	0.18	0.14	101	<1
40387380		0.15	4.4	8.2	1.95	7.9	2.44	1	251	0.3	0.37	0.58	0.16	0.16	101	<1
40387381		0.19	4.6	9.5	2.05	8.4	2.03	1	271	0.3	0.39	0.62	0.17	0.15	99	<1
40387382		0.15	4.4	9.1	2.00	4.7	2.10	1	263	0.3	0.38	0.59	0.18	0.14	99	<1
40387383		0.16	4.4	8.4	1.99	5.8	2.06	<1	244	0.3	0.39	0.62	0.18	0.15	93	<1
40387384		0.18	4.7	9.3	2.06	5.5	2.35	1	280	0.4	0.42	0.67	0.18	0.17	94	<1
40387385		0.24	5.1	10.4	2.35	6.7	2.60	1	301	0.3	0.41	0.71	0.22	0.20	146	<1
40387386		0.18	4.8	9.2	2.11	5.3	2.53	1	267	0.3	0.35	0.66	0.21	0.17	113	<1
40387387		0.15	3.6	7.4	1.68	4.3	1.85	1	248	0.4	0.27	0.49	0.15	0.12	316	<1
40387388		0.18	4.6	9.7	2.19	5.5	2.20	1	252	0.3	0.36	0.63	0.21	0.17	112	1
40387389		0.19	5.1	10.2	2.33	7.0	2.75	1	273	0.3	0.39	0.65	0.21	0.15	106	<1
40387390		0.49	13.8	37.1	8.48	94.7	8.72	2	565	0.8	1.09	3.83	0.52	1.60	132	<1
40387391		0.20	5.3	10.8	2.38	6.1	2.89	1	258	0.3	0.42	0.79	0.20	0.18	112	<1
40387392		0.19	5.2	10.3	2.40	7.3	2.32	1	261	0.4	0.41	0.72	0.23	0.22	118	1
40387393		0.15	4.1	8.3	1.94	10.2	2.13	1	250	0.2	0.32	0.61	0.18	0.18	100	<1
40387394		0.21	6.4	12.2	2.77	6.4	2.87	1	246	0.4	0.57	0.92	0.27	0.24	152	<1
40387395		0.16	4.5	9.3	2.11	4.7	2.47	1	263	0.4	0.36	0.65	0.18	0.18	102	<1
40387396		0.16	4.9	9.7	2.19	4.5	2.35	1	259	0.3	0.27	0.59	0.18	0.20	101	<1
40387397		0.17	4.6	9.3	2.00	7.3	2.10	1	249	0.2	0.35	0.56	0.17	0.16	97	1
40387398		0.17	4.4	9.2	2.06	4.9	2.04	1	251	0.3	0.37	0.59	0.16	0.11	97	<1
40387399		0.19	7.6	15.3	3.39	33.2	3.91	2	377	0.6	0.54	1.12	0.25	0.32	191	<1
40387400		0.21	4.5	8.6	1.97	5.4	2.34	1	258	0.3	0.35	0.69	0.19	0.15	102	<1
40387401		0.14	3.6	7.4	1.56	8.4	1.51	1	238	0.2	0.30	0.48	0.13	0.13	92	<1
40387402		0.15	3.7	8.0	1.76	4.3	2.14	1	249	0.3	0.33	0.53	0.17	0.15	103	<1
40387403		0.12	3.2	7.1	1.69	4.3	1.58	1	245	0.3	0.30	0.42	0.12	0.13	89	<1
40387404		0.18	4.6	10.2	2.40	4.1	2.59	1	261	0.3	0.35	1.27	0.18	0.16	96	<1
40387405		0.16	3.7	7.8	1.81	3.8	1.83	<1	251	0.2	0.33	0.62	0.15	0.16	98	<1
40387406		0.15	3.8	7.7	1.74	4.6	1.77	<1	239	0.3	0.31	0.56	0.17	0.16	92	<1
40387407		0.14	3.8	8.2	1.74	3.8	2.09	1	245	0.3	0.33	0.54	0.16	0.12	88	<1
40387408		0.15	3.9	8.2	1.81	3.6	2.12	1	253	0.3	0.29	0.49	0.15	0.13	88	<1
40387409		0.17	4.2	8.9	1.99	4.0	2.02	1	263	0.4	0.33	0.54	0.20	0.18	96	<1





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Project: EB80001451

**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387370		10.9	1.20	61	4.2	0.15	0.005	0.031	0.003	0.29	0.9	0.05	0.47	0.47	0.26	62.5
40387371		10.9	1.12	59	0.7	0.01	<0.005	0.013	<0.001	<0.05	0.3	<0.01	0.02	0.03	0.06	59.2
40387372		9.8	1.06	58	1.0	0.01	<0.005	0.016	0.001	<0.05	<0.2	<0.01	0.03	0.04	0.06	83.5
40387373		9.6	0.89	52	1.3	0.01	<0.005	0.015	<0.001	<0.05	0.3	<0.01	0.03	0.03	0.05	71.2
40387374		9.8	1.02	55	0.8	0.01	<0.005	0.015	<0.001	<0.05	<0.2	0.01	0.03	0.04	0.05	75.5
40387375		10.0	1.06	53	0.5	0.01	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.03	0.04	0.05	75.3
40387376		10.3	0.94	56	0.1	<0.01	<0.005	0.017	<0.001	<0.05	0.2	0.01	0.02	0.04	0.06	65.5
40387377		10.1	1.10	53	<0.1	<0.01	<0.005	0.012	0.001	<0.05	0.4	<0.01	<0.02	0.03	0.05	72.5
40387378		10.6	1.10	63	2.4	0.01	<0.005	0.013	<0.001	<0.05	<0.2	0.01	0.04	0.05	0.06	65.6
40387379		10.8	1.23	60	1.1	0.01	<0.005	0.013	<0.001	<0.05	0.4	<0.01	0.04	0.05	0.06	59.4
40387380		11.3	1.10	62	0.8	0.01	<0.005	0.014	<0.001	<0.05	0.3	<0.01	0.03	0.05	0.06	62.3
40387381		11.6	1.21	69	0.7	<0.01	<0.005	0.013	<0.001	<0.05	0.2	<0.01	0.05	0.04	0.07	55.8
40387382		11.1	1.17	68	0.2	0.01	<0.005	0.017	<0.001	<0.05	0.3	0.01	0.02	0.03	0.06	51.6
40387383		10.9	1.14	61	1.4	0.01	<0.005	0.014	0.001	<0.05	0.3	<0.01	0.02	0.05	0.06	60.1
40387384		11.8	1.25	71	0.3	<0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.03	0.06	0.05	45.3
40387385		13.2	1.36	76	3.2	0.02	<0.005	0.014	0.001	<0.05	0.5	0.03	0.03	0.13	0.06	41.4
40387386		12.2	1.25	72	0.2	0.01	<0.005	0.015	<0.001	<0.05	0.3	0.02	0.02	0.09	0.06	52.2
40387387		8.9	0.86	50	0.4	0.05	<0.005	0.020	0.002	<0.05	1.2	0.09	0.04	0.48	0.11	70.9
40387388		12.0	1.30	71	0.2	0.01	<0.005	0.015	0.001	<0.05	0.2	<0.01	0.02	0.05	0.07	59.6
40387389		12.8	1.53	72	0.7	<0.01	<0.005	0.013	<0.001	<0.05	0.2	<0.01	0.02	0.05	0.07	50.1
40387390		35.1	3.34	293	0.3	0.01	<0.005	0.031	<0.001	<0.05	0.2	0.02	0.32	0.02	0.08	19.1
40387391		13.2	1.53	75	0.2	<0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.02	0.04	0.05	58.2
40387392		13.2	1.30	76	0.3	0.01	<0.005	0.017	<0.001	<0.05	0.2	<0.01	0.03	0.04	0.06	59.7
40387393		10.5	0.96	60	8.0	0.01	<0.005	0.016	0.001	0.09	0.3	0.01	0.09	0.06	0.08	63.2
40387394		15.7	1.63	93	0.4	0.01	<0.005	0.014	<0.001	<0.05	0.2	<0.01	0.03	0.06	0.09	55.5
40387395		11.7	1.26	69	0.3	<0.01	<0.005	0.015	0.001	<0.05	0.2	<0.01	0.02	0.05	0.08	59.5
40387396		11.2	1.24	68	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.02	0.04	0.09	60.0
40387397		11.1	1.07	66	2.7	0.01	<0.005	0.015	<0.001	0.06	<0.2	<0.01	0.04	0.14	0.06	63.5
40387398		11.1	1.19	60	0.2	<0.01	<0.005	0.014	0.001	<0.05	0.2	<0.01	0.02	0.04	0.06	62.7
40387399		17.9	1.79	105	0.2	0.01	<0.005	0.015	<0.001	<0.05	<0.2	0.01	0.02	0.04	0.06	63.2
40387400		11.4	1.11	65	3.8	0.17	0.006	0.030	0.003	0.31	0.9	0.05	0.41	0.52	0.23	65.3
40387401		8.8	0.78	52	5.0	0.01	<0.005	0.016	<0.001	0.08	0.3	0.01	0.07	0.06	0.08	68.2
40387402		9.7	0.98	52	0.2	0.01	<0.005	0.016	<0.001	<0.05	0.2	<0.01	0.02	0.07	0.11	65.2
40387403		8.4	0.93	47	0.3	<0.01	<0.005	0.016	<0.001	<0.05	<0.2	<0.01	0.02	0.08	0.10	67.3
40387404		11.2	1.07	60	0.2	<0.01	<0.005	0.014	<0.001	<0.05	<0.2	<0.01	0.02	0.24	0.14	63.9
40387405		9.7	1.22	55	0.2	0.01	<0.005	0.013	<0.001	<0.05	<0.2	<0.01	0.02	0.03	0.07	65.3
40387406		10.0	0.94	56	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.2	0.01	0.03	0.06	0.09	69.2
40387407		9.6	1.12	55	0.2	0.01	<0.005	0.015	<0.001	<0.05	<0.2	<0.01	0.02	0.05	0.06	70.9
40387408		10.0	1.06	58	0.2	<0.01	<0.005	0.014	<0.001	<0.05	0.2	<0.01	0.02	0.04	0.09	66.8
40387409		10.9	1.06	59	0.3	<0.01	<0.005	0.015	<0.001	<0.05	<0.2	0.01	<0.02	0.04	0.08	58.4



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387370		1115	35.0	2.77	698	6.2	18.9	107	0.024	0.0508	0.236					
40387371		69.1	5.9	0.55	548	1.2	12.2	68	0.001	0.0030	0.007					
40387372		83.4	7.6	0.46	832	1.3	11.9	82	0.001	0.0016	0.004					
40387373		73.0	6.0	0.48	712	1.0	10.8	73	0.001	0.0026	0.006					
40387374		77.2	6.8	0.50	793	1.0	12.5	77	0.001	0.0030	0.005					
40387375		71.4	5.1	0.44	824	1.0	9.7	78	0.001	0.0018	0.003					
40387376		95.4	4.1	0.57	650	1.1	11.7	70	0.001	0.0017	0.002					
40387377		83.1	5.3	0.50	747	1.0	12.4	71	0.001	0.0018	0.002					
40387378		85.9	8.1	0.54	654	1.1	12.8	74	0.002	0.0068	0.020					
40387379		88.6	7.3	0.50	606	1.2	14.0	70	<0.001	0.0010	0.002					
40387380		92.4	7.6	0.54	599	1.2	15.0	69	0.002	0.0011	0.003					
40387381		102.0	7.6	0.58	551	1.3	11.9	70	<0.001	0.0005	0.002					
40387382		92.3	4.0	0.71	520	1.8	8.7	64	<0.001	0.0005	0.002					
40387383		94.4	7.1	0.54	626	1.2	8.1	72	0.001	0.0015	0.003					
40387384		115.5	6.6	0.55	425	1.3	7.9	67	0.002	0.0026	0.002					
40387385		266	7.7	0.63	459	1.3	7.7	65	0.011	0.0285	0.078					
40387386		215	5.2	0.55	547	1.3	8.3	66	0.009	0.0230	0.073					
40387387		1145	4.6	0.69	1110	1.1	6.3	142	0.037	0.0838	0.523					
40387388		91.7	5.8	0.54	591	1.5	8.3	73	0.002	0.0035	0.009					
40387389		83.1	8.2	0.60	473	1.6	8.3	66	0.003	0.0048	0.020					
40387390		18.2	18.9	0.85	14.8	10.6	15.5	94	0.001	<0.0005	0.001					
40387391		82.6	8.4	0.59	524	1.3	10.3	69	0.002	0.0150	0.025					
40387392		74.9	9.1	0.57	542	1.4	9.3	71	0.001	0.0037	0.008					
40387393		99.3	13.5	0.59	562	1.4	11.5	91	0.002	0.0033	0.007					
40387394		105.5	8.1	0.66	438	1.8	16.9	85	0.001	0.0030	0.006					
40387395		79.3	4.6	0.60	545	1.7	9.6	69	0.001	0.0030	0.006					
40387396		76.5	4.6	0.60	569	1.9	8.9	73	0.001	0.0033	0.007					
40387397		74.6	10.3	0.70	608	1.3	9.3	73	0.001	0.0029	0.006					
40387398		76.6	6.4	0.55	605	1.4	9.5	69	0.001	0.0033	0.007					
40387399		75.2	7.5	0.56	622	1.3	9.5	69	0.001	0.0032	0.007					
40387400		1120	38.3	2.74	694	5.7	17.4	108	0.022	0.0494	0.215					
40387401		109.5	11.6	0.49	643	1.5	9.0	89	0.002	0.0040	0.006					
40387402		128.0	7.9	0.56	575	1.9	11.1	86	0.001	0.0036	0.006					
40387403		112.5	8.2	0.53	592	2.3	10.0	89	0.002	0.0041	0.007					
40387404		79.3	4.6	0.51	624	4.3	9.7	82	0.001	0.0032	0.006					
40387405		64.3	4.2	0.53	653	1.6	9.7	75	0.001	0.0036	0.006					
40387406		86.6	13.1	0.46	690	2.6	9.0	83	0.002	0.0032	0.005					
40387407		85.2	6.8	0.53	698	2.1	10.4	77	0.001	0.0030	0.006					
40387408		82.4	3.6	0.48	658	1.8	9.7	74	0.001	0.0031	0.007					
40387409		86.2	4.0	0.55	533	1.5	8.9	68	0.002	0.0038	0.009					



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-ICP81 Cu %	ME-ICP81 Fe %	ME-ICP81 Fe2O3 %	ME-ICP81 K %	ME-ICP81 MgO %	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40387370		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40387371													
40387372													
40387373													
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40387376													
40387377													
40387378													
40387379													
40387380													
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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	TOT-ICP06 Total %
		LOD	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01
40387410		2.83	46.7	20.2	9.18	10.90	10.60	1.97	0.22	0.096	0.77	0.11	0.08	0.03	0.01	101.37
40387411		6.08	46.2	19.85	9.56	10.55	11.00	1.92	0.24	0.081	0.79	0.11	0.09	0.04	0.01	101.03
40387412		6.06	46.2	19.45	9.78	10.40	11.40	1.89	0.20	0.107	0.76	0.12	0.08	0.03	0.01	100.75
40387413		6.59	44.7	19.15	10.05	10.50	11.80	1.89	0.22	0.127	0.75	0.12	0.09	0.03	0.01	99.80
40387414		6.30	46.1	20.9	9.41	10.45	11.10	1.91	0.19	0.026	0.67	0.11	0.09	0.03	0.01	101.33
40387415		6.03	44.4	20.2	9.00	10.25	10.65	1.86	0.17	0.025	0.68	0.10	0.08	0.04	0.01	98.06
40387416		6.47	45.2	20.4	9.07	10.35	10.95	1.85	0.18	0.026	0.68	0.10	0.08	0.03	0.01	99.56
40387417		6.31	45.4	19.75	9.39	9.87	11.45	1.91	0.24	0.024	0.71	0.11	0.09	0.04	0.01	99.70
40387418		6.36	46.2	20.3	9.18	10.10	10.80	1.94	0.28	0.025	0.71	0.10	0.09	0.04	0.01	100.62
40387419		6.47	45.3	19.65	9.42	10.90	11.25	1.92	0.23	0.029	0.71	0.11	0.07	0.03	0.01	100.17
40387420		1.90	57.4	18.75	7.62	6.02	2.65	3.77	2.34	0.002	0.96	0.11	0.30	0.07	0.11	100.61
40387421		6.31	45.8	20.4	9.29	10.35	11.20	1.91	0.19	0.027	0.72	0.11	0.10	0.03	0.01	100.71
40387422		6.05	45.3	20.0	9.30	10.15	11.35	1.85	0.19	0.030	0.72	0.11	0.10	0.03	0.01	99.60
40387423		6.44	44.8	19.25	9.65	9.85	12.00	1.79	0.20	0.044	0.71	0.11	0.08	0.03	0.01	99.31
40387424		6.35	45.2	19.90	9.38	10.10	11.45	1.85	0.19	0.046	0.72	0.11	0.09	0.03	0.01	99.80
40387425		6.26	45.3	20.1	9.37	10.20	11.25	1.85	0.18	0.059	0.73	0.11	0.09	0.03	0.01	100.06
40387426		6.34	44.6	19.45	9.77	9.90	11.60	1.84	0.20	0.074	0.76	0.11	0.10	0.03	0.01	99.34
40387427		6.26	44.4	20.2	9.20	10.25	10.40	1.88	0.20	0.089	0.78	0.11	0.09	0.04	0.01	98.44
40387428		2.49	44.8	20.1	9.37	10.20	10.60	1.85	0.29	0.088	0.78	0.11	0.10	0.03	0.01	99.32
40387429		0.60	49.8	12.10	16.25	7.05	4.19	3.61	0.48	0.009	3.03	0.19	0.36	0.03	0.02	99.01
40387430		0.17	44.5	18.85	12.05	9.01	7.40	2.05	1.03	0.339	1.28	0.14	0.17	0.05	0.04	99.03
40387431		3.53	44.3	19.50	9.59	9.96	10.60	1.87	0.22	0.084	0.85	0.11	0.10	0.03	0.01	98.12
40387432		6.26	44.6	20.2	9.14	10.25	10.35	1.91	0.22	0.094	0.77	0.11	0.10	0.03	0.01	98.78
40387433		6.29	44.5	20.2	9.09	10.35	9.79	1.91	0.24	0.115	0.82	0.11	0.09	0.03	0.01	98.26
40387434		6.14	44.8	20.4	9.24	10.45	9.76	1.95	0.27	0.125	0.84	0.11	0.10	0.04	0.01	99.32
40387435		6.33	45.4	20.9	9.20	10.75	9.26	1.99	0.29	0.145	0.88	0.11	0.12	0.04	0.01	99.94
40387436		4.34	45.4	20.6	9.60	10.35	9.60	2.00	0.39	0.146	0.88	0.11	0.11	0.04	0.01	100.72
40387437		3.20	45.5	16.20	14.15	8.35	5.80	2.86	0.60	0.083	1.97	0.18	0.45	0.03	0.02	100.48
40387438		4.62	46.9	11.95	18.55	8.18	4.22	3.08	0.61	0.008	3.24	0.25	0.70	0.03	0.03	98.61
40387439		3.01	47.9	11.60	18.80	7.57	3.31	3.31	0.70	0.004	3.05	0.26	0.81	0.03	0.03	98.35
40387440		2.89	47.8	11.55	18.70	7.56	3.32	3.29	0.69	0.003	3.03	0.26	0.79	0.03	0.03	98.12
40387441		3.82	48.5	11.55	19.55	7.30	2.76	3.34	0.87	<0.002	2.87	0.27	0.96	0.03	0.04	99.06
40387442		2.89	45.2	20.3	9.54	10.35	8.21	2.13	0.37	0.163	1.03	0.11	0.14	0.03	0.01	98.19
40387443		6.00	45.8	20.8	9.23	10.75	8.17	2.13	0.26	0.170	0.99	0.11	0.12	0.03	0.01	98.96
40387444		6.54	45.6	21.1	9.36	10.85	7.69	2.17	0.26	0.198	1.04	0.11	0.13	0.03	0.01	98.94
40387445		6.46	45.4	20.2	9.87	10.45	8.65	2.13	0.28	0.204	1.06	0.12	0.13	0.04	0.01	98.98
40387446		2.72	45.4	22.0	9.51	10.85	5.98	2.34	0.42	0.664	1.24	0.11	0.16	0.04	0.02	99.47
40387447		1.47	27.0	25.8	17.45	7.02	9.40	1.18	0.12	8.18	1.28	0.13	0.05	0.02	0.01	98.16
40387448		2.55	45.0	19.05	11.05	9.99	10.50	2.06	0.34	0.185	0.84	0.13	0.10	0.03	0.01	99.78
40387449		6.44	46.1	18.15	11.35	10.30	10.50	2.10	0.33	0.155	0.92	0.14	0.12	0.03	0.01	100.56



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Project: EB80001451

**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40387410		0.50	0.02	0.02	94.1	14.9	670	0.05	2.35	1.18	0.87	18.4	2.16	1.7	0.42	6.7
40387411		0.59	0.01	0.03	91.3	15.3	570	0.32	2.32	1.09	0.73	18.0	2.25	1.6	0.42	6.9
40387412		0.32	0.01	0.02	86.3	14.3	740	0.05	2.11	1.00	0.77	18.0	2.21	1.4	0.40	6.5
40387413		0.36	0.01	0.03	97.9	16.6	920	0.11	2.00	1.03	0.82	17.3	2.11	1.5	0.43	7.4
40387414		0.33	0.02	0.04	94.3	14.1	200	0.09	1.92	1.12	0.94	17.5	2.09	1.2	0.40	6.4
40387415		0.59	0.02	0.04	93.8	13.7	200	0.13	1.88	1.14	0.82	17.2	1.89	1.4	0.37	6.4
40387416		0.63	0.02	0.04	92.0	13.9	200	0.23	2.02	1.14	0.81	16.9	2.01	1.4	0.38	6.1
40387417		0.71	0.02	0.03	96.9	15.7	180	0.66	2.12	1.21	0.74	16.4	2.22	1.8	0.46	7.1
40387418		0.84	0.02	0.03	102.0	16.9	190	0.78	2.37	1.28	0.85	17.5	2.31	1.9	0.44	7.7
40387419		0.54	0.01	0.03	119.0	16.5	240	0.33	2.49	1.51	0.94	20.3	2.47	1.6	0.48	7.6
40387420		0.51	0.05	0.10	1065	71.4	20	1.35	6.96	3.74	1.90	24.3	7.73	7.7	1.33	31.4
40387421		0.57	0.02	0.02	97.3	15.1	210	0.14	2.24	1.26	0.82	17.2	2.16	1.4	0.40	6.8
40387422		0.46	0.02	0.03	100.5	16.1	240	0.19	2.25	1.30	0.83	18.4	2.38	1.4	0.46	7.2
40387423		0.79	0.02	0.02	97.7	15.1	330	0.28	2.04	1.22	0.80	17.2	2.34	1.6	0.43	6.8
40387424		0.72	0.02	0.03	96.2	14.9	340	0.14	2.22	1.23	0.86	17.0	2.03	1.7	0.43	6.9
40387425		0.78	0.02	0.03	101.0	15.7	450	0.14	2.27	1.28	0.78	17.3	2.23	1.4	0.48	7.0
40387426		0.90	<0.01	0.03	102.5	16.2	560	0.17	2.52	1.21	0.87	17.0	2.18	1.7	0.47	7.2
40387427		0.79	0.01	0.02	102.0	15.8	680	0.17	2.46	1.28	0.87	18.8	2.07	1.4	0.46	7.2
40387428		0.99	0.01	0.03	124.0	16.5	680	0.41	2.59	1.45	0.93	18.6	2.62	1.8	0.48	7.5
40387429		1.89	0.02	0.06	191.0	79.1	70	1.93	9.34	5.29	2.50	26.7	9.74	8.9	1.92	35.4
40387430		2.12	0.02	0.34	377	28.3	2630	2.61	3.86	2.05	1.20	21.8	3.98	3.1	0.79	12.7
40387431		0.90	0.01	0.03	106.0	16.3	640	0.30	2.40	1.36	0.88	18.0	2.19	3.1	0.47	7.2
40387432		1.00	<0.01	0.02	102.0	15.6	690	0.30	2.41	1.20	0.84	17.9	2.07	1.6	0.45	6.9
40387433		1.00	0.01	0.03	104.0	16.2	850	0.42	2.22	1.40	0.94	18.3	2.31	1.8	0.46	7.2
40387434		1.22	0.01	0.03	110.5	17.3	910	0.51	2.45	1.51	0.88	18.9	2.33	1.8	0.50	7.5
40387435		0.84	<0.01	0.03	113.5	16.9	1040	0.43	2.53	1.35	1.00	19.1	2.55	1.6	0.52	7.7
40387436		1.48	<0.01	0.04	121.5	16.6	1010	0.72	2.38	1.46	0.87	17.9	2.43	1.6	0.47	7.5
40387437		4.29	0.01	0.11	229	50.7	590	1.59	7.75	4.08	2.06	22.5	7.55	4.3	1.47	22.1
40387438		0.86	<0.01	0.16	294	83.9	70	1.62	12.05	6.83	3.31	26.5	12.75	7.7	2.34	37.1
40387439		0.98	0.01	0.17	314	105.5	30	1.78	14.70	8.20	3.94	27.9	15.00	9.3	2.76	46.9
40387440		1.07	0.01	0.17	315	110.0	30	1.78	14.80	8.46	3.73	28.3	15.75	9.6	2.79	48.3
40387441		1.02	<0.01	0.16	340	126.5	20	2.24	17.40	9.35	4.51	30.0	17.95	10.7	3.14	55.1
40387442		0.61	<0.01	0.04	139.5	22.4	1160	0.54	3.32	1.69	0.98	19.0	3.21	2.2	0.62	10.0
40387443		0.39	<0.01	0.04	126.0	20.3	1240	0.35	2.65	1.49	1.09	20.2	2.81	2.2	0.56	8.8
40387444		0.39	<0.01	0.04	123.0	19.5	1360	0.36	2.76	1.71	1.03	19.4	3.04	2.0	0.56	8.6
40387445		0.44	<0.01	0.04	131.0	21.2	1520	0.36	3.28	1.83	1.03	19.8	2.92	2.3	0.56	9.2
40387446		0.74	<0.01	0.03	162.0	24.3	5020	0.67	3.51	2.20	1.17	24.0	3.50	2.7	0.70	10.9
40387447		0.52	<0.01	0.18	57.5	8.7	>10000	0.44	1.25	0.98	0.66	54.3	1.30	0.9	0.28	4.4
40387448		0.49	<0.01	0.12	122.0	18.8	1360	0.80	2.87	1.51	0.99	17.5	2.93	1.9	0.67	10.0
40387449		0.35	<0.01	0.04	124.0	19.4	1160	0.78	3.17	2.08	1.19	17.0	3.04	2.3	0.73	9.9





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Project: EB80001451

**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387410		0.17	4.4	8.7	2.08	4.4	2.27	1	276	0.3	0.34	0.64	0.19	0.69	107	<1
40387411		0.15	4.5	9.5	2.13	6.2	2.41	1	270	0.3	0.32	0.63	0.19	0.23	98	<1
40387412		0.14	4.1	8.8	1.90	3.9	2.24	1	263	0.4	0.30	0.63	0.13	0.16	102	<1
40387413		0.15	5.8	9.4	2.07	3.8	1.92	1	275	0.3	0.34	0.73	0.20	0.18	106	<1
40387414		0.15	4.4	8.3	1.89	3.7	1.86	1	285	0.3	0.31	0.61	0.16	0.17	88	<1
40387415		0.17	3.9	8.1	1.87	3.5	1.78	<1	284	0.3	0.30	0.59	0.16	0.14	95	<1
40387416		0.16	3.8	7.9	1.81	3.7	2.20	<1	284	0.3	0.28	0.58	0.17	0.10	96	<1
40387417		0.16	4.1	8.6	2.11	7.2	2.02	1	268	0.2	0.33	0.85	0.17	0.24	89	<1
40387418		0.16	4.3	9.9	2.19	7.9	1.94	1	280	0.3	0.34	0.91	0.18	0.24	96	<1
40387419		0.18	4.7	9.7	2.32	6.0	2.42	1	331	0.4	0.39	0.69	0.19	0.20	114	<1
40387420		0.56	14.0	40.5	9.52	103.0	8.33	2	574	0.9	1.11	4.33	0.50	1.66	140	1
40387421		0.17	4.1	8.7	1.92	4.3	1.88	1	287	0.3	0.30	0.60	0.18	0.15	102	<1
40387422		0.16	4.2	9.3	2.09	4.3	2.05	<1	288	0.3	0.35	0.62	0.19	0.17	105	<1
40387423		0.19	4.4	9.2	2.04	5.1	2.23	1	269	0.4	0.36	0.61	0.21	0.15	100	<1
40387424		0.13	4.3	8.9	1.88	3.9	2.09	1	267	0.4	0.37	0.63	0.15	0.17	98	<1
40387425		0.19	4.4	9.3	2.03	4.0	1.99	1	282	0.4	0.35	0.63	0.19	0.16	107	<1
40387426		0.18	4.5	9.5	2.15	4.7	2.11	1	278	0.4	0.38	0.69	0.20	0.15	108	<1
40387427		0.22	4.7	9.6	2.04	4.4	2.42	1	284	0.3	0.35	0.60	0.19	0.18	114	85
40387428		0.20	4.6	9.8	2.21	7.7	2.33	1	293	0.3	0.36	0.78	0.21	0.19	112	<1
40387429		0.74	21.1	44.2	10.25	17.1	9.85	3	244	1.3	1.60	4.87	0.75	1.47	308	1
40387430		0.32	8.0	16.8	3.81	36.4	3.70	2	413	0.5	0.59	1.35	0.31	0.35	185	<1
40387431		0.18	4.6	9.8	2.11	5.2	2.32	1	278	0.3	0.36	0.73	0.15	0.14	115	1
40387432		0.17	4.3	9.3	2.07	5.1	2.47	1	274	0.3	0.38	0.62	0.20	0.17	106	<1
40387433		0.19	4.8	9.7	2.11	6.1	2.33	1	280	0.3	0.38	0.68	0.17	0.19	110	2
40387434		0.19	4.6	9.8	2.24	7.2	2.30	1	282	0.3	0.36	0.73	0.22	0.31	116	<1
40387435		0.23	5.0	10.5	2.28	7.0	2.64	1	285	0.3	0.39	0.75	0.21	0.19	116	<1
40387436		0.20	4.8	9.4	2.13	10.3	2.07	1	274	0.4	0.36	0.58	0.18	0.18	115	<1
40387437		0.54	13.8	32.2	6.87	16.4	7.41	1	253	1.0	1.19	1.81	0.50	0.56	144	1
40387438		0.95	24.5	52.2	11.45	16.7	12.40	2	211	1.5	1.96	3.24	1.00	0.94	266	1
40387439		1.10	31.8	64.6	14.05	19.1	14.60	3	226	1.9	2.26	4.47	1.09	1.23	195	1
40387440		1.07	32.8	66.6	14.60	19.4	14.85	3	235	2.0	2.44	4.17	1.11	1.16	204	1
40387441		1.22	32.6	74.1	16.65	25.6	17.80	4	240	1.9	2.67	4.79	1.24	1.37	124	1
40387442		0.24	6.6	13.3	2.91	9.4	2.80	1	276	0.4	0.51	0.91	0.28	0.26	132	<1
40387443		0.23	5.7	12.1	2.78	6.2	2.61	1	289	0.4	0.41	0.82	0.25	0.20	139	<1
40387444		0.24	5.7	11.9	2.73	6.0	2.76	1	274	0.4	0.43	0.85	0.24	0.18	131	<1
40387445		0.27	6.1	12.8	2.84	6.7	3.13	1	277	0.4	0.51	0.93	0.24	0.19	150	<1
40387446		0.28	7.3	14.1	3.26	11.5	3.24	1	311	0.6	0.60	1.13	0.30	0.26	214	<1
40387447		0.10	2.5	5.9	1.20	2.9	1.23	1	165.0	0.3	0.17	0.34	0.09	0.12	859	<1
40387448		0.28	5.6	11.8	2.54	8.8	2.73	1	240	0.4	0.51	1.02	0.26	0.53	76	1
40387449		0.19	6.3	12.1	2.72	7.4	3.07	1	254	0.5	0.51	0.85	0.28	0.41	93	<1



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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387410		11.0	1.02	63	0.3	0.01	<0.005	0.015	<0.001	<0.05	<0.2	<0.01	0.02	0.05	0.08	56.3
40387411		10.8	1.17	65	1.8	0.01	<0.005	0.014	<0.001	<0.05	0.2	<0.01	0.04	0.04	0.07	59.2
40387412		10.4	1.07	58	0.1	0.01	<0.005	0.014	0.001	<0.05	<0.2	<0.01	0.02	0.04	0.07	60.2
40387413		10.9	1.11	58	0.2	0.01	<0.005	0.014	<0.001	<0.05	<0.2	0.01	0.02	0.04	0.06	62.2
40387414		10.3	1.05	56	0.1	0.02	<0.005	0.015	<0.001	<0.05	<0.2	<0.01	<0.02	0.02	0.07	60.3
40387415		9.8	1.23	50	0.2	0.02	<0.005	0.014	<0.001	<0.05	<0.2	<0.01	0.02	0.05	0.10	58.8
40387416		10.0	1.07	54	0.2	0.02	<0.005	0.015	<0.001	<0.05	<0.2	<0.01	0.02	0.05	0.10	59.4
40387417		10.6	1.09	74	1.4	0.02	<0.005	0.014	<0.001	<0.05	<0.2	0.01	0.05	0.04	0.07	60.7
40387418		11.4	1.26	70	0.9	0.01	<0.005	0.013	0.001	<0.05	<0.2	<0.01	0.06	0.04	0.08	53.8
40387419		11.9	1.23	66	0.2	0.01	<0.005	0.013	0.001	<0.05	<0.2	<0.01	0.02	0.03	0.07	54.8
40387420		36.4	3.56	311	0.3	0.01	<0.005	0.030	0.001	<0.05	<0.2	0.01	0.33	0.03	0.09	17.0
40387421		11.1	1.03	59	0.2	0.01	<0.005	0.015	0.001	<0.05	0.2	<0.01	0.02	0.04	0.06	54.8
40387422		11.4	1.13	65	0.1	0.01	<0.005	0.015	0.001	<0.05	<0.2	0.01	0.02	0.03	0.05	57.2
40387423		10.9	1.19	63	0.2	<0.01	<0.005	0.014	<0.001	<0.05	0.2	0.01	0.02	0.05	0.06	58.5
40387424		10.8	1.06	60	0.1	<0.01	<0.005	0.014	0.001	<0.05	<0.2	0.01	0.02	0.04	0.06	56.4
40387425		11.4	1.20	63	0.2	<0.01	<0.005	0.015	0.001	<0.05	0.2	0.01	0.02	0.04	0.05	55.9
40387426		12.0	1.30	67	0.2	0.01	<0.005	0.016	<0.001	<0.05	0.3	0.01	0.02	0.04	0.06	57.1
40387427		11.6	1.17	62	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.2	0.01	0.02	0.04	0.06	54.4
40387428		12.0	1.34	68	0.5	<0.01	<0.005	0.017	<0.001	<0.05	0.2	0.01	0.03	0.06	0.07	53.8
40387429		48.3	5.10	338	0.8	0.03	<0.005	0.030	0.001	0.05	0.3	0.01	0.09	0.17	0.28	39.1
40387430		19.1	1.93	115	4.1	0.17	0.008	0.031	0.002	0.36	1.0	0.07	0.37	0.47	0.27	60.5
40387431		12.2	1.32	66	0.2	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.03	0.06	0.09	56.0
40387432		11.8	1.11	64	0.3	0.01	<0.005	0.016	0.001	<0.05	0.2	<0.01	0.03	0.07	0.13	54.3
40387433		11.9	1.20	67	0.4	0.01	<0.005	0.014	<0.001	<0.05	<0.2	<0.01	0.03	0.09	0.17	52.2
40387434		12.3	1.44	68	0.2	<0.01	<0.005	0.016	<0.001	<0.05	0.3	0.01	0.03	0.07	0.13	50.5
40387435		12.9	1.36	70	0.3	<0.01	<0.005	0.016	0.001	<0.05	0.2	<0.01	0.03	0.09	0.15	49.3
40387436		12.3	1.36	63	0.2	<0.01	<0.005	0.015	0.001	<0.05	0.2	0.01	0.22	0.10	0.13	52.1
40387437		36.3	3.62	165	0.7	0.01	<0.005	0.024	0.001	<0.05	0.2	0.01	1.07	0.16	0.22	45.2
40387438		62.1	5.93	311	1.0	0.02	<0.005	0.026	0.002	0.05	0.3	0.01	0.10	0.15	0.42	40.8
40387439		74.2	7.61	379	1.3	0.02	<0.005	0.027	0.002	0.05	0.5	0.01	0.11	0.21	0.55	38.0
40387440		75.8	7.37	375	1.1	0.01	<0.005	0.024	0.001	0.05	0.4	<0.01	0.09	0.18	0.50	36.1
40387441		83.5	8.07	420	1.0	0.02	<0.005	0.032	0.001	0.05	0.3	<0.01	0.13	0.16	0.44	32.3
40387442		16.4	1.59	97	0.4	0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.04	0.09	0.14	48.1
40387443		15.0	1.51	81	0.3	0.01	<0.005	0.015	0.001	<0.05	0.2	<0.01	0.03	0.07	0.12	45.8
40387444		14.9	1.49	75	0.4	0.01	<0.005	0.016	0.001	<0.05	0.2	<0.01	0.03	0.07	0.14	43.8
40387445		16.4	1.62	84	0.3	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.03	0.06	0.09	47.3
40387446		18.6	2.02	106	0.2	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.03	0.08	0.13	40.0
40387447		6.8	0.62	39	0.2	0.04	<0.005	0.017	0.003	<0.05	0.6	0.06	0.02	0.32	0.10	112.5
40387448		15.1	1.48	82	0.4	0.02	<0.005	0.022	0.001	<0.05	0.6	0.03	0.13	0.20	0.12	58.6
40387449		16.5	1.47	85	0.2	0.01	<0.005	0.019	0.001	<0.05	0.2	<0.01	0.08	0.04	0.10	53.3



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Project: EB80001451

**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387410		83.3	4.0	0.57	515	1.6	9.2	66	0.002	0.0042	0.009					
40387411		82.1	7.6	0.63	552	1.5	8.8	70	0.002	0.0035	0.011					
40387412		80.5	4.4	0.61	591	1.4	9.5	71	0.003	0.0096	0.029					
40387413		82.4	3.4	0.67	598	1.2	8.7	69	0.002	0.0057	0.020					
40387414		59.3	3.2	0.59	522	1.1	8.4	62	<0.001	0.0008	0.003					
40387415		42.0	4.2	0.85	522	3.2	10.4	66	<0.001	0.0012	0.003					
40387416		43.1	8.8	0.55	540	2.4	10.5	74	<0.001	0.0005	0.002					
40387417		46.9	7.4	0.59	593	1.3	10.4	70	<0.001	<0.0005	0.002					
40387418		54.8	7.7	0.73	509	2.1	11.0	69	0.001	0.0018	0.005					
40387419		66.0	5.5	0.67	528	1.4	10.5	64	0.002	0.0039	0.008					
40387420		18.9	20.4	1.04	14.0	11.1	16.1	93	0.001	0.0008	0.001					
40387421		80.4	3.8	0.62	545	1.2	10.6	64	0.001	0.0037	0.009					
40387422		80.1	4.0	0.56	572	1.1	11.7	66	0.002	0.0128	0.014					
40387423		77.1	4.2	0.62	597	1.4	12.5	67	0.001	0.0052	0.011					
40387424		85.2	3.8	0.56	584	1.0	11.7	66	0.001	0.0056	0.009					
40387425		84.4	3.9	0.60	578	1.1	12.0	67	0.002	0.0040	0.010					
40387426		91.1	5.0	0.55	603	1.6	11.8	74	0.003	0.0051	0.013					
40387427		86.2	5.7	0.59	539	1.5	11.8	72	0.002	0.0047	0.013					
40387428		89.5	11.7	0.54	534	1.7	11.0	75	0.003	0.0069	0.014					
40387429		288	11.5	1.92	43.7	7.2	35.8	181	0.003	0.0007	0.001					
40387430		1100	35.2	2.86	689	5.9	16.5	108	0.021	0.0423	0.210					
40387431		112.5	7.7	0.59	545	1.9	12.4	79	0.002	0.0064	0.013					
40387432		94.8	8.2	0.53	534	3.1	11.0	88	0.003	0.0038	0.009					
40387433		95.8	9.0	0.58	490	3.1	11.8	87	0.001	0.0045	0.010					
40387434		96.6	9.6	0.54	470	2.5	11.3	80	0.003	0.0046	0.010					
40387435		100.5	11.7	0.57	443	3.1	12.7	90	0.003	0.0048	0.009					
40387436		105.0	16.7	0.58	483	3.0	12.4	89	0.003	0.0069	0.028					
40387437		132.0	24.1	1.31	271	4.5	24.2	152	0.002	0.0029	0.004					
40387438		166.5	14.6	2.27	28.4	9.0	40.0	239	0.002	0.0012	0.001					
40387439		143.5	14.4	2.74	15.7	13.1	37.6	279	0.002	0.0007	<0.001					
40387440		140.5	14.1	2.63	15.1	12.4	36.2	261	0.002	0.0007	<0.001					
40387441		125.5	14.9	3.06	8.9	9.2	34.1	271	0.002	<0.0005	<0.001					
40387442		109.0	13.7	0.70	377	3.2	14.5	93	0.003	0.0058	0.012					
40387443		109.0	8.3	0.62	366	2.5	13.8	86	0.003	0.0061	0.012					
40387444		114.5	5.5	0.63	329	3.2	14.7	92	0.001	0.0064	0.012					
40387445		111.5	5.2	0.68	379	2.0	14.7	84	0.003	0.0062	0.012					
40387446		127.0	7.8	0.68	239	2.5	13.3	99	0.004	0.0117	0.040					
40387447		984	3.1	0.60	1250	1.3	8.9	316	0.019	0.0944	0.347					
40387448		538	5.8	0.61	753	2.5	14.0	91	0.009	0.0169	0.076					
40387449		111.0	6.0	0.66	461	2.6	15.6	95	0.001	0.0024	0.006					



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-ICP81 Cu %	ME-ICP81 Fe %	ME-ICP81 Fe2O3 %	ME-ICP81 K %	ME-ICP81 MgO %	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40387410		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40387411													
40387412													
40387413													
40387414													
40387415													
40387416													
40387417													
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\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40387450		2.28	59.5	18.00	6.99	6.13	2.57	3.61	2.53	0.003	0.88	0.10	0.25	0.06	0.14	101.11
40387451		6.20	46.1	18.55	11.50	10.55	9.95	2.20	0.31	0.157	1.27	0.13	0.14	0.03	0.01	101.37
40387452		6.51	46.0	18.55	11.40	10.60	9.62	2.20	0.32	0.161	1.29	0.13	0.13	0.03	0.01	100.72
40387453		6.38	45.8	18.60	11.45	10.55	9.18	2.23	0.35	0.180	1.32	0.13	0.14	0.03	0.02	100.27
40387454		5.28	46.3	18.40	11.30	10.50	8.89	2.32	0.41	0.224	1.32	0.14	0.15	0.03	0.02	100.30
40387455		0.69	41.6	17.10	14.40	9.17	7.48	2.29	0.33	0.122	1.16	0.15	0.17	0.03	0.01	98.91
40387456		6.76	46.0	18.90	11.55	10.70	8.41	2.34	0.39	0.275	1.44	0.14	0.15	0.03	0.02	100.79
40387457		6.51	46.1	18.70	11.70	10.65	7.80	2.39	0.39	0.312	1.50	0.14	0.18	0.03	0.02	100.04
40387458		3.34	43.5	19.50	12.90	10.05	7.74	2.26	0.41	1.525	1.58	0.14	0.17	0.03	0.02	100.49
40387459		3.24	36.9	22.6	15.25	8.87	8.42	1.90	0.31	4.73	1.46	0.14	0.14	0.03	0.01	101.10
40387460		0.17	44.9	18.95	12.65	9.70	7.67	2.09	1.06	0.347	1.38	0.14	0.15	0.05	0.04	101.05
40387461		3.33	40.9	19.85	13.40	9.52	9.27	2.00	0.28	2.18	1.34	0.13	0.13	0.03	0.01	99.71
40387462		3.08	40.2	19.25	13.15	9.40	9.13	1.95	0.25	2.35	1.38	0.14	0.13	0.03	0.01	100.42
40387463		2.62	39.6	20.4	13.75	9.35	8.76	1.98	0.29	3.01	1.43	0.14	0.14	0.03	0.01	98.98
40387464		2.67	40.9	19.15	13.70	9.33	9.02	2.03	0.32	1.875	1.35	0.14	0.15	0.03	0.01	98.36
40387465		1.42	42.6	17.40	11.75	9.42	9.07	2.16	0.36	0.645	1.24	0.14	0.14	0.03	0.02	94.86
40387466		3.31	42.1	19.25	14.50	9.50	10.05	1.96	0.34	1.590	1.21	0.14	0.12	0.03	0.01	101.44
40387467		3.28	43.6	19.60	13.40	9.36	8.89	2.26	0.36	0.956	1.01	0.12	0.12	0.03	0.01	100.53
40387468		2.92	45.9	19.45	11.35	8.85	8.50	2.53	0.46	0.061	0.79	0.10	0.11	0.04	0.01	99.57
40387469		1.46	43.0	18.75	13.15	10.15	9.70	1.86	0.35	0.021	0.79	0.11	0.10	0.04	0.01	99.82
40387470		1.50	43.0	19.40	13.05	10.35	9.77	1.83	0.30	0.020	0.83	0.11	0.10	0.04	0.01	100.45
40387471		3.20	40.0	20.5	13.25	9.89	9.42	1.76	0.24	1.905	1.07	0.12	0.11	0.03	0.01	99.35
40387472		3.49	34.7	22.3	16.45	8.12	8.57	1.81	0.30	5.55	1.58	0.15	0.16	0.02	0.01	99.92
40387473		3.27	38.4	20.4	15.15	8.78	9.05	1.96	0.31	3.63	1.48	0.15	0.16	0.03	0.01	99.69
40387474		3.23	40.6	18.65	14.30	9.16	9.38	2.02	0.31	2.14	1.43	0.15	0.16	0.03	0.02	98.48
40387475		3.29	43.2	17.20	14.05	9.40	9.73	2.21	0.46	1.265	1.48	0.16	0.17	0.03	0.02	99.38
40387476		3.18	41.0	18.10	14.85	9.07	9.40	2.09	0.31	2.03	1.57	0.15	0.15	0.03	0.02	98.85
40387477		3.26	43.6	17.25	14.10	9.64	9.19	2.23	0.33	0.711	1.52	0.15	0.17	0.03	0.02	98.94
40387478		3.32	41.3	17.45	15.85	9.13	8.71	2.12	0.34	1.640	1.63	0.15	0.16	0.03	0.02	98.83
40387479		3.23	43.7	17.35	14.35	9.51	9.33	2.26	0.35	0.949	1.63	0.16	0.19	0.03	0.02	99.77
40387480		1.88	56.3	18.50	7.75	6.93	2.94	3.74	2.06	0.005	0.96	0.11	0.32	0.06	0.09	100.14
40387481		2.24	42.7	17.90	15.15	9.59	8.37	2.21	0.36	0.838	1.49	0.15	0.15	0.03	0.02	99.18
40387482		2.48	43.9	21.0	11.55	10.15	7.40	2.14	0.38	0.281	0.85	0.11	0.10	0.04	0.01	99.51
40387483		2.88	45.3	21.5	10.95	10.60	5.94	2.33	0.52	0.048	1.02	0.11	0.13	0.04	0.02	100.10
40387484		2.85	46.5	16.65	14.30	9.74	7.59	2.59	0.40	0.058	1.53	0.16	0.18	0.03	0.02	99.97
40387485		2.93	47.3	16.90	13.65	9.83	7.68	2.65	0.43	0.065	1.88	0.18	0.23	0.03	0.02	100.96
40387486		3.30	43.9	16.55	16.30	9.23	7.03	2.40	0.44	0.110	1.66	0.16	0.21	0.03	0.02	99.15
40387487		3.18	44.8	17.35	15.20	9.49	7.99	2.36	0.39	0.121	1.38	0.16	0.16	0.03	0.02	99.87
40387488		3.16	45.8	17.60	15.05	9.59	8.01	2.44	0.33	0.050	1.40	0.16	0.17	0.03	0.02	101.03
40387489		2.30	45.7	17.75	15.40	9.54	8.13	2.46	0.39	0.057	1.21	0.16	0.14	0.03	0.02	101.16





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

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 Plus Appendix Pages  
 Finalized Date: 12-SEP-2018  
 Account: RTEICKBZ

Project: EB80001451

**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387450		0.35	0.03	0.08	1080	52.1	30	1.07	5.73	3.97	1.75	22.8	6.05	7.3	1.21	25.5
40387451		0.47	<0.01	0.04	121.5	21.2	1140	0.79	3.39	2.02	1.09	18.7	3.26	2.5	0.68	10.6
40387452		0.28	0.01	0.04	119.5	21.4	1170	0.76	3.13	1.89	1.11	18.6	3.09	2.2	0.62	10.5
40387453		0.29	<0.01	0.04	135.0	22.1	1330	0.92	3.38	1.72	1.24	20.7	3.05	2.4	0.70	10.6
40387454		0.30	<0.01	0.04	143.5	24.4	1740	0.71	3.58	2.05	1.27	21.5	3.67	2.7	0.78	12.1
40387455		4.90	0.01	1.08	79.3	52.8	880	1.75	5.94	3.40	1.94	24.3	5.81	7.0	1.24	27.6
40387456		0.44	<0.01	0.05	140.5	23.7	2090	0.92	4.06	2.15	1.08	21.4	3.79	2.6	0.76	11.9
40387457		0.13	<0.01	0.05	145.0	25.6	2330	0.81	4.00	2.48	1.35	22.2	4.36	2.8	0.84	12.4
40387458		0.66	<0.01	0.06	143.5	25.0	>10000	0.98	3.76	2.52	1.31	25.7	4.05	3.0	0.85	12.3
40387459		0.34	0.01	0.29	118.0	22.0	>10000	0.73	3.28	1.83	1.25	36.8	3.34	2.6	0.69	10.5
40387460		1.92	0.03	0.32	319	23.5	2610	2.69	3.57	2.41	1.27	19.7	3.50	2.5	0.77	11.8
40387461		0.67	0.01	0.34	118.0	21.3	>10000	0.80	3.38	1.80	0.88	28.3	2.91	2.5	0.72	10.3
40387462		3.05	0.03	0.10	103.0	24.1	>10000	1.00	3.23	1.83	1.12	28.6	3.56	2.4	0.63	11.6
40387463		0.09	<0.01	0.10	118.0	21.6	>10000	0.71	3.14	1.81	1.21	31.5	3.19	2.7	0.69	11.1
40387464		0.35	<0.01	0.47	119.0	21.5	>10000	1.30	3.41	1.82	1.15	27.1	3.32	2.5	0.66	10.7
40387465		-0.12	<0.01	0.11	132.0	24.3	5440	0.97	3.99	2.40	1.27	22.2	4.06	2.6	0.80	12.1
40387466		0.64	0.01	0.83	115.0	17.7	>10000	1.06	2.84	1.83	1.12	24.6	2.80	2.1	0.59	9.1
40387467		0.81	<0.01	1.10	122.0	18.9	7670	1.01	2.29	1.51	1.10	23.4	2.74	2.0	0.56	9.6
40387468		1.42	<0.01	0.80	121.5	22.8	470	1.56	2.91	1.61	1.22	18.9	2.71	2.1	0.60	11.6
40387469		1.79	<0.01	1.64	93.6	14.3	150	1.06	2.27	1.28	1.20	15.9	2.01	1.6	0.47	7.0
40387470		1.64	<0.01	1.47	104.0	14.9	160	1.10	2.20	1.34	1.15	17.5	2.44	1.7	0.46	7.5
40387471		1.04	0.01	0.94	104.5	16.3	>10000	0.55	2.24	1.39	1.14	25.1	2.52	1.6	0.63	7.9
40387472		0.20	0.01	0.30	126.0	22.6	>10000	0.46	3.63	1.93	1.18	43.0	3.42	2.4	0.71	11.2
40387473		0.18	0.01	0.35	128.5	23.4	>10000	0.83	3.68	2.23	1.09	33.5	3.94	2.7	0.79	11.4
40387474		0.13	0.01	0.43	124.0	23.7	>10000	0.72	3.98	2.24	1.45	27.5	3.76	2.8	0.70	11.8
40387475		0.00	<0.01	0.29	138.0	25.4	9870	0.81	3.99	2.21	1.38	23.8	3.92	2.7	0.85	12.9
40387476		0.08	<0.01	0.37	124.0	22.3	>10000	0.74	3.61	2.00	1.22	27.4	3.75	2.9	0.75	11.0
40387477		0.00	0.01	0.60	141.5	26.0	5670	0.64	4.07	2.15	1.24	23.6	3.86	2.8	0.79	12.3
40387478		0.30	<0.01	0.95	132.5	23.3	>10000	1.06	3.38	1.90	1.08	24.3	3.80	2.7	0.82	11.1
40387479		-0.06	<0.01	0.36	143.5	27.1	7320	0.95	4.28	2.60	1.33	25.2	4.15	3.4	0.86	13.2
40387480		0.37	0.03	0.09	717	57.3	40	1.19	6.12	2.87	1.52	23.5	6.51	6.8	1.21	27.9
40387481		0.22	<0.01	1.23	135.0	23.6	6550	0.89	3.82	2.19	1.29	24.1	3.76	2.7	0.78	11.5
40387482		1.60	<0.01	1.39	117.5	18.1	1940	1.95	2.42	1.23	0.88	18.0	2.27	1.9	0.44	8.6
40387483		1.59	<0.01	1.13	147.5	21.4	330	1.88	2.97	1.39	1.15	19.4	3.00	2.2	0.63	10.1
40387484		0.22	<0.01	0.89	171.0	30.0	390	1.12	4.23	2.29	1.45	20.7	4.24	3.2	0.86	14.0
40387485		0.11	<0.01	0.14	589	50.3	250	1.28	5.39	3.02	1.66	22.6	6.01	6.3	1.08	23.7
40387486		1.11	<0.01	2.21	170.0	31.9	740	1.41	4.61	2.44	1.50	20.0	4.80	3.5	0.89	14.7
40387487		0.42	<0.01	1.67	148.5	26.0	810	0.63	3.83	2.04	1.44	19.9	3.86	2.8	0.79	12.1
40387488		0.38	<0.01	1.63	152.5	26.6	320	0.58	3.84	2.23	1.30	20.1	4.15	2.9	0.81	12.4
40387489		0.17	<0.01	1.50	137.0	22.6	380	0.41	3.27	1.77	1.12	18.8	3.38	2.5	0.65	10.6



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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40387450		0.41	11.8	31.9	7.28	92.8	6.56	2	488	0.7	1.04	3.84	0.59	1.44	118	<1
40387451		0.25	7.1	13.4	3.13	7.6	3.12	1	241	0.5	0.49	1.02	0.26	0.28	148	<1
40387452		0.23	6.6	14.1	2.76	7.2	3.55	1	247	0.5	0.56	1.01	0.31	0.30	145	3
40387453		0.24	6.9	14.1	3.00	8.5	3.13	1	250	0.5	0.62	1.22	0.27	0.23	161	<1
40387454		0.27	7.3	14.5	3.30	10.4	3.51	1	261	0.6	0.55	0.99	0.33	0.31	198	<1
40387455		0.51	12.6	28.3	6.68	15.4	5.69	2	260	0.9	0.93	5.11	0.58	1.64	116	3
40387456		0.29	7.7	14.9	3.04	10.1	3.26	1	257	0.5	0.57	1.07	0.29	0.25	191	<1
40387457		0.26	8.4	16.6	3.61	10.0	3.96	1	248	0.6	0.69	1.32	0.29	0.39	198	<1
40387458		0.28	8.0	15.4	3.30	10.4	3.99	2	235	0.6	0.57	1.26	0.37	0.31	279	<1
40387459		0.23	6.9	13.3	2.82	8.0	3.55	1	212	0.5	0.55	0.94	0.27	0.28	492	<1
40387460		0.27	7.4	15.0	3.21	35.4	3.26	2	382	0.5	0.50	1.39	0.34	0.38	193	<1
40387461		0.23	6.6	13.9	3.01	7.6	3.09	1	232	0.5	0.54	0.99	0.34	0.73	313	1
40387462		0.27	7.1	14.9	3.08	6.4	4.15	1	227	0.5	0.52	1.88	0.26	0.36	349	<1
40387463		0.23	6.7	14.3	2.81	7.5	3.03	1	219	0.4	0.56	1.15	0.27	0.21	395	<1
40387464		0.27	7.1	13.9	2.79	8.9	3.56	1	217	0.5	0.53	1.09	0.30	0.28	309	<1
40387465		0.24	7.7	15.7	3.22	8.1	3.52	1	228	0.6	0.56	1.28	0.30	0.26	201	<1
40387466		0.19	5.9	11.1	2.37	9.7	2.77	1	231	0.4	0.43	0.79	0.19	0.29	281	<1
40387467		0.22	5.8	11.1	2.52	11.2	2.64	1	269	0.5	0.40	0.94	0.21	0.31	195	<1
40387468		0.25	6.5	13.7	2.95	16.5	3.01	1	300	0.5	0.47	1.87	0.21	0.88	95	1
40387469		0.16	4.4	9.3	1.76	8.2	1.94	1	282	0.4	0.25	0.77	0.18	0.12	99	<1
40387470		0.14	5.0	10.1	1.91	8.5	2.22	1	306	0.3	0.34	0.83	0.20	0.17	108	<1
40387471		0.15	5.1	10.8	2.33	6.2	2.74	1	253	0.4	0.46	0.78	0.18	0.20	260	<1
40387472		0.26	7.4	14.7	3.11	6.9	3.50	1	187.0	0.6	0.57	1.12	0.28	0.32	606	<1
40387473		0.27	7.6	14.7	3.42	7.6	3.14	1	204	0.5	0.52	0.96	0.28	0.31	424	<1
40387474		0.26	7.9	14.8	3.32	8.0	4.18	1	211	0.6	0.64	1.27	0.33	0.31	321	<1
40387475		0.24	8.1	16.2	3.40	8.7	3.72	1	219	0.4	0.69	1.19	0.34	0.28	269	<1
40387476		0.26	7.5	14.5	3.21	6.8	3.32	1	200.0	0.6	0.46	1.27	0.30	0.20	323	<1
40387477		0.25	8.3	16.0	3.47	8.2	3.92	1	221	0.5	0.60	1.22	0.33	0.31	227	<1
40387478		0.24	7.9	15.4	3.07	9.1	3.44	1	214	0.5	0.64	0.97	0.29	0.27	316	<1
40387479		0.35	9.0	18.1	3.83	8.6	4.33	1	211	0.5	0.71	1.32	0.32	0.33	260	<1
40387480		0.46	12.4	34.0	7.77	87.2	7.27	2	513	0.7	0.84	3.91	0.51	1.27	128	<1
40387481		0.23	7.4	15.7	3.44	10.0	3.90	1	231	0.4	0.56	1.12	0.30	0.21	239	<1
40387482		0.19	4.9	10.8	2.32	12.4	2.44	1	304	0.4	0.43	1.03	0.18	0.58	114	<1
40387483		0.21	6.2	12.2	2.88	14.8	2.76	2	306	0.6	0.52	0.93	0.24	0.23	115	<1
40387484		0.30	8.9	17.9	3.96	9.2	4.23	2	252	0.7	0.76	1.27	0.33	0.32	182	<1
40387485		0.42	12.1	28.3	6.57	51.6	6.50	2	397	0.9	0.95	3.56	0.42	0.94	170	<1
40387486		0.33	10.2	18.5	4.16	11.6	4.22	2	241	0.8	0.84	1.44	0.32	0.34	171	<1
40387487		0.28	8.1	15.5	3.47	7.9	3.73	2	249	0.6	0.64	1.09	0.26	0.27	152	<1
40387488		0.28	8.0	15.7	3.51	7.4	4.00	2	249	0.6	0.70	1.16	0.29	0.24	158	<1
40387489		0.20	7.0	13.0	3.11	6.0	3.41	2	249	0.6	0.58	0.96	0.27	0.21	151	<1



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Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387450		32.2	2.91	283	0.3	0.01	<0.005	0.027	0.001	<0.05	<0.2	0.02	0.28	0.03	0.07	15.0
40387451		18.3	1.59	98	0.8	0.01	<0.005	0.018	0.001	<0.05	<0.2	0.01	0.04	0.06	0.08	53.3
40387452		17.8	1.71	88	0.2	0.01	<0.005	0.017	<0.001	<0.05	0.2	0.01	0.04	0.05	0.08	52.7
40387453		19.2	1.81	98	0.2	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.03	0.05	0.08	49.3
40387454		19.5	1.95	103	0.3	0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.04	0.15	0.18	54.9
40387455		33.6	3.14	269	>250	0.75	0.009	0.852	0.002	1.33	4.1	0.73	0.17	3.86	21.0	766
40387456		19.8	1.92	111	1.1	0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.05	0.09	0.15	55.6
40387457		21.8	2.06	117	1.2	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.03	0.05	0.11	51.7
40387458		21.2	1.89	123	0.4	0.01	<0.005	0.019	0.001	<0.05	<0.2	0.02	0.06	0.07	0.09	61.8
40387459		18.5	1.50	96	0.4	0.06	<0.005	0.031	0.003	<0.05	0.6	0.05	0.05	0.34	0.18	95.3
40387460		18.7	1.74	107	4.6	0.13	0.011	0.031	0.002	0.35	0.9	0.06	0.45	0.48	0.27	65.6
40387461		17.9	1.36	98	2.3	0.05	<0.005	0.025	0.003	0.06	0.5	0.02	0.09	0.24	0.15	85.4
40387462		17.9	1.62	97	0.5	0.03	<0.005	0.022	0.002	0.06	0.6	0.02	0.16	0.15	0.11	72.4
40387463		17.8	1.80	99	0.3	0.02	<0.005	0.023	0.002	<0.05	0.3	0.03	0.05	0.15	0.11	80.7
40387464		17.8	1.89	99	1.1	0.11	<0.005	0.036	0.005	0.05	0.9	0.05	0.08	0.67	0.18	91.2
40387465		19.3	1.78	109	0.3	0.02	<0.005	0.022	0.001	<0.05	0.2	0.01	0.05	0.13	0.09	67.6
40387466		15.2	1.44	81	1.3	0.23	<0.005	0.052	0.007	0.05	1.6	0.10	0.06	0.89	0.39	110.0
40387467		14.2	1.66	86	5.1	0.23	<0.005	0.055	0.009	0.11	1.6	0.10	0.09	0.87	0.51	109.0
40387468		14.6	1.51	86	3.4	0.23	<0.005	0.049	0.006	0.17	1.0	0.06	0.11	0.57	0.51	90.6
40387469		11.4	1.14	62	2.7	0.37	<0.005	0.070	0.012	0.07	2.6	0.15	0.06	1.44	1.00	146.0
40387470		12.3	1.07	67	2.7	0.34	<0.005	0.063	0.011	0.05	2.1	0.11	0.06	1.10	0.82	136.0
40387471		12.8	1.31	73	1.3	0.24	<0.005	0.044	0.008	<0.05	1.6	0.08	0.03	0.90	0.42	124.5
40387472		19.3	1.74	99	0.7	0.06	<0.005	0.030	0.003	<0.05	0.6	0.05	0.04	0.36	0.19	117.5
40387473		20.0	1.96	111	0.5	0.14	<0.005	0.037	0.003	<0.05	1.0	0.06	0.03	0.45	0.18	98.1
40387474		19.9	2.08	107	0.4	0.08	<0.005	0.035	0.004	<0.05	0.7	0.04	0.03	0.40	0.22	95.6
40387475		21.0	1.89	118	0.3	0.05	<0.005	0.029	0.003	<0.05	0.5	0.04	0.03	0.30	0.16	83.1
40387476		19.1	1.94	111	1.6	0.06	<0.005	0.032	0.003	0.06	0.5	0.04	0.04	0.34	0.19	95.4
40387477		21.7	1.98	120	0.4	0.10	<0.005	0.038	0.006	<0.05	1.1	0.06	0.04	0.60	0.23	95.4
40387478		20.5	1.80	104	0.6	0.24	<0.005	0.061	0.007	0.24	1.6	0.13	0.06	1.16	0.48	115.0
40387479		23.0	2.40	125	0.7	0.06	<0.005	0.029	0.004	<0.05	0.6	0.04	0.04	0.38	0.15	87.9
40387480		32.0	3.13	275	0.5	0.02	<0.005	0.028	0.001	<0.05	<0.2	0.01	0.32	0.04	0.08	20.7
40387481		19.7	1.74	114	1.0	0.30	<0.005	0.058	0.011	<0.05	2.4	0.14	0.06	1.27	0.45	115.5
40387482		11.8	1.22	69	17.6	0.57	<0.005	0.077	0.009	0.28	2.4	0.15	0.12	1.44	0.55	116.0
40387483		15.1	1.72	87	3.0	0.35	<0.005	0.050	0.011	0.17	2.3	0.12	0.13	1.30	0.40	102.0
40387484		22.2	2.29	123	3.6	0.20	<0.005	0.045	0.007	0.10	1.7	0.08	0.05	0.94	0.36	99.6
40387485		29.6	2.78	251	1.0	0.03	<0.005	0.024	0.001	<0.05	0.3	0.02	0.05	0.16	0.15	60.2
40387486		23.7	2.18	132	3.2	0.40	<0.005	0.071	0.018	0.08	2.9	0.13	0.08	1.77	0.67	154.0
40387487		19.9	2.00	106	5.2	0.34	<0.005	0.070	0.013	0.12	3.1	0.15	0.05	1.68	0.58	147.0
40387488		19.8	2.07	112	3.2	0.29	<0.005	0.062	0.015	0.09	3.0	0.12	0.05	1.55	0.51	132.0
40387489		17.3	1.72	95	1.1	0.25	<0.005	0.062	0.016	0.07	2.6	0.13	0.04	1.60	0.52	135.5



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Project: EB80001451

**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387450		17.0	14.8	0.83	14.1	10.8	14.3	84	0.001	0.0021	0.002					
40387451		116.5	7.5	0.78	428	1.7	17.9	90	0.003	0.0073	0.015					
40387452		135.0	6.6	0.71	399	1.8	18.5	88	0.003	0.0070	0.017					
40387453		129.0	5.9	0.68	365	1.8	17.2	87	0.005	0.0071	0.015					
40387454		138.5	8.1	0.66	376	3.0	23.2	101	0.003	0.0076	0.017					
40387455		7280	28.0	1.18	650	3.9	16.6	3440	0.098	0.0085	0.027					
40387456		158.0	8.8	0.68	346	2.1	23.9	103	0.001	0.0079	0.013					
40387457		159.5	7.4	0.72	294	2.1	24.5	103	0.003	0.0081	0.014					
40387458		190.5	9.8	0.68	383	2.0	23.0	139	0.005	0.0134	0.031					
40387459		1000	7.5	0.74	1070	2.6	20.1	219	0.022	0.0446	0.227					
40387460		1110	40.5	2.63	733	5.6	19.7	110	0.026	0.0476	0.217					
40387461		609	8.7	1.29	933	2.3	22.4	150	0.007	0.0216	0.097					
40387462		377	15.4	0.59	675	1.7	19.0	161	0.010	0.0263	0.110					
40387463		405	7.3	0.65	729	2.3	22.3	184	0.006	0.0284	0.137					
40387464		1795	8.8	0.71	1480	3.0	22.1	153	0.013	0.0411	0.238					
40387465		388	7.9	0.69	581	2.0	23.2	112	0.005	0.0109	0.057					
40387466		2580	7.7	0.72	1570	4.4	19.3	138	0.023	0.0662	0.353					
40387467		2470	13.0	1.30	1270	6.5	18.4	122	0.024	0.0452	0.233					
40387468		1565	19.8	1.45	712	6.4	13.5	98	0.013	0.0277	0.125					
40387469		3760	18.0	0.74	1710	9.0	12.7	112	0.033	0.0661	0.325					
40387470		3040	16.2	0.72	1490	7.8	12.5	96	0.028	0.0656	0.254					
40387471		2550	8.9	0.69	1510	5.8	15.2	144	0.034	0.0645	0.304					
40387472		970	8.2	0.83	1150	2.8	24.5	268	0.011	0.0406	0.228					
40387473		1305	8.6	0.72	1070	2.5	23.1	196	0.010	0.0517	0.243					
40387474		1285	9.5	0.72	1060	2.6	25.1	161	0.009	0.0397	0.181					
40387475		935	9.5	0.74	903	2.5	26.4	138	0.012	0.0333	0.134					
40387476		1040	9.7	1.00	964	2.7	26.1	165	0.015	0.0472	0.147					
40387477		1885	9.4	0.79	1300	3.1	25.7	121	0.020	0.0537	0.218					
40387478		3870	11.6	0.75	1760	2.9	24.9	173	0.025	0.0580	0.574					
40387479		1060	10.0	0.91	982	2.4	28.8	132	0.011	0.0247	0.138					
40387480		23.2	25.3	0.95	20.8	9.8	18.1	92	0.001	0.0008	0.002					
40387481		4160	9.5	0.85	2180	5.3	22.7	125	0.041	0.0821	0.595					
40387482		3700	18.2	1.11	1850	4.6	12.4	101	0.040	0.1370	0.363					
40387483		3550	20.4	1.14	1880	3.9	13.5	100	0.037	0.0754	0.342					
40387484		2830	9.6	1.49	1560	6.5	27.3	106	0.031	0.0572	0.301					
40387485		394	8.9	0.89	346	3.2	28.1	112	0.007	0.0170	0.062					
40387486		5200	9.8	1.38	3150	10.9	24.9	107	0.050	0.1180	0.623					
40387487		5030	5.8	1.97	2760	6.3	21.3	108	0.042	0.1425	0.586					
40387488		4970	6.3	1.46	2490	6.3	23.9	102	0.041	0.1080	0.418					
40387489		5100	6.3	0.87	2530	5.8	21.3	102	0.032	0.0735	0.457					



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	
		Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %	TiO2 %	Zn %
40387450		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40387451													
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\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40387490		0.17	44.5	18.50	14.10	9.60	7.69	2.17	0.65	0.337	1.31	0.15	0.16	0.04	0.02	100.72
40387491		2.56	42.9	16.20	17.90	9.00	7.15	2.32	0.35	0.085	1.39	0.16	0.16	0.03	0.02	98.68
40387492		2.71	41.3	18.25	19.00	9.26	5.39	2.22	0.46	0.058	1.10	0.12	0.13	0.03	0.02	99.50
40387493		3.32	39.0	15.65	22.8	8.39	6.41	2.11	0.25	0.048	1.25	0.14	0.12	0.03	0.01	98.35
40387494		3.07	40.8	17.70	20.2	9.23	4.98	2.30	0.35	0.036	1.26	0.13	0.15	0.03	0.02	98.86
40387495		3.20	42.5	20.6	15.15	10.10	5.23	2.27	0.28	0.021	0.86	0.10	0.09	0.04	0.01	98.61
40387496		3.02	47.2	20.7	11.40	10.95	5.38	2.59	0.44	0.020	1.15	0.12	0.14	0.04	0.02	100.75
40387497		3.07	44.3	19.55	13.70	10.00	4.87	2.62	0.42	0.021	1.37	0.12	0.16	0.04	0.02	98.14
40387498		3.09	45.4	19.70	13.20	9.90	6.14	2.59	0.41	0.023	1.26	0.13	0.17	0.04	0.02	99.32
40387499		1.53	41.4	18.20	18.40	9.19	5.85	2.27	0.39	0.033	1.02	0.12	0.12	0.03	0.01	98.25
40387500		1.51	40.6	17.70	20.3	8.82	5.98	2.21	0.41	0.036	0.97	0.13	0.11	0.03	0.01	98.80
40387501		2.53	46.9	19.90	10.70	10.10	6.52	2.65	0.62	0.025	1.29	0.13	0.15	0.04	0.02	99.30
40387502		2.68	45.6	19.60	12.50	9.39	6.11	2.52	0.87	0.024	1.29	0.13	0.15	0.04	0.02	98.86
40387503		3.08	46.6	20.1	10.30	10.15	6.19	2.65	0.64	0.025	1.37	0.13	0.16	0.04	0.02	98.68
40387504		3.24	46.7	17.65	12.05	9.76	7.39	2.62	0.59	0.029	1.73	0.16	0.21	0.04	0.02	99.10
40387505		3.15	47.0	18.35	12.10	9.65	6.95	2.66	0.63	0.026	1.61	0.15	0.20	0.04	0.02	99.53
40387506		4.26	47.5	18.20	12.50	8.85	7.14	2.53	1.19	0.030	1.60	0.17	0.20	0.05	0.05	100.72
40387507		2.26	45.8	11.15	15.30	13.05	3.76	1.40	2.21	0.014	1.81	0.20	0.36	0.02	0.11	98.62
40387508		10.62	64.4	15.80	4.94	1.31	2.37	2.11	4.99	0.024	0.76	0.06	0.16	0.02	0.13	100.41
40387509		10.00	65.1	16.35	5.49	0.87	2.44	1.91	5.00	0.025	0.78	0.05	0.17	0.02	0.10	101.83
40387510		2.47	59.3	18.60	6.70	5.91	2.33	3.93	2.60	0.004	0.87	0.11	0.26	0.07	0.12	101.10
40387511		12.69	63.3	16.35	5.47	0.96	2.37	2.17	5.06	0.025	0.80	0.06	0.16	0.02	0.09	100.91
40387512		11.41	64.6	16.35	5.53	0.90	2.40	1.87	5.07	0.026	0.81	0.05	0.17	0.02	0.09	101.73
40387513		11.77	63.9	15.95	5.80	0.95	2.40	1.78	5.14	0.024	0.80	0.06	0.17	0.02	0.09	101.48
40387514		8.51	56.9	11.40	3.42	11.50	1.82	0.83	4.83	0.022	0.46	0.08	0.12	0.02	0.07	99.80
40387515		7.09	69.5	13.75	4.10	1.01	1.92	0.94	6.09	0.012	0.54	0.05	0.11	0.02	0.09	100.75
40387516		3.80	49.3	12.95	16.00	6.32	4.83	2.46	1.06	0.005	3.44	0.24	0.41	0.04	0.05	100.22
40387517		9.53	73.3	13.05	3.37	0.89	1.89	0.70	5.45	0.006	0.43	0.03	0.09	0.02	0.07	101.24
40387518		5.79	48.8	13.35	16.45	7.59	4.27	2.67	0.86	0.005	3.59	0.20	0.43	0.06	0.04	99.83
40387519		8.09	61.1	7.80	5.10	10.40	5.50	0.39	3.37	0.008	0.33	0.35	0.15	0.02	0.05	99.14
40387520		0.17	45.1	19.15	11.95	9.40	7.62	2.14	1.09	0.353	1.32	0.14	0.17	0.05	0.04	100.57
40387521		10.99	31.5	1.72	7.27	25.5	9.79	0.06	0.51	0.002	0.06	1.67	0.32	0.02	0.01	98.03



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40387490		1.49	0.02	0.88	168.5	25.5	2400	2.64	3.61	1.97	1.27	20.9	3.58	2.8	0.67	11.9
40387491		1.01	<0.01	2.91	146.5	29.0	570	1.10	3.72	2.07	1.38	19.0	4.15	2.7	0.79	13.6
40387492		2.16	<0.01	4.66	135.0	20.7	400	1.71	2.85	1.67	1.03	18.2	2.85	2.3	0.55	9.6
40387493		2.14	<0.01	5.36	114.0	18.3	320	0.44	2.70	1.39	1.09	16.6	2.78	1.9	0.51	8.6
40387494		1.67	<0.01	4.44	138.5	24.4	250	0.89	3.41	1.72	1.27	18.7	3.58	2.6	0.67	11.7
40387495		1.36	<0.01	3.12	106.5	16.0	140	1.28	2.14	1.15	0.93	19.1	2.28	1.6	0.42	7.6
40387496		0.60	<0.01	0.86	146.5	22.6	130	1.76	3.09	1.63	1.22	21.1	3.21	2.5	0.60	10.9
40387497		0.95	<0.01	1.94	151.5	25.9	140	1.72	3.72	1.99	1.31	20.6	3.98	2.7	0.72	12.3
40387498		0.34	<0.01	1.20	155.0	26.0	170	1.50	3.49	2.10	1.34	20.3	3.91	2.7	0.69	12.2
40387499		1.22	<0.01	4.18	120.0	18.4	230	0.88	2.62	1.41	1.08	19.1	2.91	2.2	0.53	8.6
40387500		1.49	<0.01	4.85	116.0	17.7	260	0.97	2.60	1.22	1.10	18.2	2.56	1.8	0.47	8.2
40387501		0.25	<0.01	0.05	159.0	25.8	180	0.89	3.60	1.95	1.27	21.8	3.51	2.9	0.72	11.9
40387502		0.62	<0.01	0.89	157.0	23.6	170	1.37	3.11	1.67	1.33	21.3	3.30	2.7	0.68	10.8
40387503		0.30	<0.01	0.06	165.0	26.0	170	0.79	3.77	1.96	1.41	21.2	3.98	2.9	0.72	12.4
40387504		0.15	<0.01	0.07	180.5	32.0	200	0.96	4.80	2.43	1.55	21.4	4.50	3.8	0.97	15.3
40387505		0.14	0.01	0.09	192.0	31.9	180	1.18	4.33	2.40	1.54	22.3	5.00	3.3	0.87	15.1
40387506		0.71	<0.01	0.10	489	30.7	210	2.30	4.51	2.35	1.54	22.9	4.67	3.4	0.87	14.6
40387507		3.44	0.80	2.16	1020	72.7	100	2.47	8.52	4.82	2.49	21.2	9.09	5.8	1.79	37.8
40387508		3.34	1.29	0.42	1190	67.1	170	4.74	4.43	2.57	1.28	21.0	5.04	4.8	0.83	36.8
40387509		3.52	1.14	0.43	919	69.2	170	5.29	4.78	2.51	1.27	22.5	5.41	5.2	0.87	37.1
40387510		0.30	0.04	0.10	1065	68.0	20	1.29	6.31	3.63	1.84	24.7	7.09	9.3	1.27	31.5
40387511		4.07	1.96	0.53	844	69.5	180	5.59	4.63	2.68	1.33	23.8	5.16	5.1	0.91	37.6
40387512		3.84	1.72	0.35	815	68.1	180	6.09	4.58	2.66	1.40	22.9	5.38	5.2	0.92	36.8
40387513		4.40	2.37	0.53	795	67.9	180	6.98	4.85	2.91	1.35	22.1	5.49	5.2	1.05	37.0
40387514		8.33	2.80	0.37	610	68.4	170	7.42	4.52	2.65	1.05	16.7	4.95	4.6	0.84	35.0
40387515		2.62	0.93	0.24	825	96.7	90	7.63	7.86	4.49	1.34	21.4	8.20	7.4	1.58	48.4
40387516		3.11	0.14	0.06	465	74.7	40	3.03	7.67	3.64	2.68	24.6	9.06	7.0	1.42	33.0
40387517		1.94	0.09	0.08	693	115.5	50	11.40	12.40	6.75	1.79	22.7	11.45	10.2	2.38	51.1
40387518		1.51	0.01	0.42	348	73.8	40	4.82	7.61	3.52	2.65	26.9	9.58	7.4	1.48	32.2
40387519		4.57	0.99	0.63	454	48.2	70	5.88	3.31	1.74	0.87	11.4	3.92	2.6	0.64	23.3
40387520		2.05	0.03	0.34	350	27.2	2530	2.99	3.61	1.99	1.27	21.9	4.01	2.8	0.70	12.6
40387521		19.60	5.33	0.36	55.0	22.6	20	2.97	1.90	1.16	0.53	5.0	2.24	0.5	0.41	11.4



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Project: EB80001451

**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40387490		0.23	7.7	14.7	3.34	21.9	3.32	3	347	0.6	0.62	1.10	0.29	0.24	184	<1
40387491		0.26	10.4	17.9	3.82	7.8	4.12	2	228	0.6	0.68	1.37	0.29	0.25	182	<1
40387492		0.20	6.5	12.4	2.72	11.0	2.96	2	262	0.5	0.48	0.86	0.25	0.18	154	<1
40387493		0.18	6.2	11.1	2.41	4.6	2.89	2	227	0.4	0.45	0.73	0.19	0.19	167	<1
40387494		0.23	7.4	13.7	3.28	8.5	3.49	3	260	0.6	0.55	1.07	0.27	0.23	154	<1
40387495		0.14	4.6	9.2	2.09	7.6	2.29	2	311	0.4	0.38	0.64	0.15	0.16	105	<1
40387496		0.22	6.8	13.7	3.05	13.5	3.26	2	326	0.5	0.54	0.93	0.21	0.21	131	<1
40387497		0.26	8.2	15.3	3.54	13.9	3.92	2	306	0.6	0.62	1.28	0.29	0.35	149	<1
40387498		0.23	8.0	15.1	3.35	12.7	3.59	2	306	0.6	0.57	1.17	0.27	0.28	138	<1
40387499		0.18	5.2	10.6	2.50	12.5	2.80	1	287	0.4	0.43	0.81	0.20	0.15	160	<1
40387500		0.18	4.8	10.2	2.35	12.3	2.40	2	280	0.5	0.45	0.76	0.18	0.15	161	<1
40387501		0.25	7.5	14.8	3.44	18.1	3.39	1	331	0.6	0.56	1.23	0.28	0.29	147	<1
40387502		0.24	7.1	13.4	3.03	34.0	3.41	2	328	0.6	0.53	1.08	0.24	0.21	146	<1
40387503		0.26	8.2	15.5	3.46	18.9	3.73	1	343	0.7	0.60	1.10	0.31	0.25	145	<1
40387504		0.35	10.2	19.1	4.29	16.1	4.46	2	306	0.8	0.80	1.64	0.33	0.36	186	<1
40387505		0.30	10.1	18.1	4.20	18.9	4.50	2	325	0.9	0.77	1.41	0.33	0.34	172	<1
40387506		0.29	9.7	17.8	4.01	40.6	4.07	2	410	0.7	0.74	1.45	0.32	0.41	187	<1
40387507		0.69	15.7	40.7	9.64	72.7	8.89	11	197.5	1.1	1.50	7.34	0.71	6.92	226	1
40387508		0.40	12.1	31.7	8.59	151.5	6.29	2	188.5	1.0	0.74	10.95	0.36	10.05	216	1
40387509		0.40	12.5	33.9	8.89	145.5	6.49	2	160.5	1.1	0.80	11.60	0.40	7.90	201	1
40387510		0.47	14.1	36.3	8.97	104.0	8.15	3	611	0.7	1.08	5.82	0.46	1.72	119	<1
40387511		0.40	12.9	33.1	8.76	156.5	6.72	2	172.5	1.0	0.83	11.25	0.38	9.88	246	1
40387512		0.40	12.3	33.2	8.51	146.5	6.33	2	154.0	1.0	0.77	11.30	0.39	10.50	238	1
40387513		0.40	12.3	33.6	8.64	156.0	6.99	2	151.5	1.0	0.87	10.85	0.40	13.10	287	1
40387514		0.36	11.8	30.5	8.10	156.5	5.98	2	184.0	0.9	0.71	10.05	0.36	8.93	174	<1
40387515		0.66	17.4	43.9	11.65	192.5	9.10	2	162.0	1.3	1.31	14.20	0.69	9.26	148	1
40387516		0.45	25.5	42.8	9.91	37.1	10.10	2	348	1.7	1.32	4.39	0.50	1.56	402	1
40387517		1.00	20.6	57.3	14.20	203	12.20	3	143.0	1.3	1.90	10.85	1.02	7.22	103	1
40387518		0.45	26.1	42.5	9.84	33.4	9.19	2	464	1.8	1.24	4.24	0.52	1.37	415	1
40387519		0.24	6.3	24.1	5.78	122.0	4.38	2	140.0	0.5	0.48	5.47	0.21	6.58	274	1
40387520		0.26	7.7	16.0	3.61	34.9	4.01	2	400	0.6	0.63	1.27	0.29	0.36	193	1
40387521		0.07	2.2	11.1	2.64	27.5	2.31	1	174.5	0.2	0.31	1.09	0.14	3.90	125	<1



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40387490		18.4	1.75	105	6.9	0.51	0.007	0.051	0.008	0.33	2.8	0.19	0.33	1.49	0.48	92.0
40387491		19.7	1.98	108	14.8	0.61	<0.005	0.106	0.022	0.55	3.6	0.21	0.14	2.38	1.08	175.5
40387492		14.7	1.37	81	76.4	0.80	<0.005	0.142	0.018	2.88	4.5	0.28	0.23	1.95	1.29	225
40387493		14.2	1.27	74	48.0	1.01	<0.005	0.137	0.032	1.89	4.9	0.22	0.23	2.39	2.33	283
40387494		17.3	1.78	100	44.2	1.00	<0.005	0.120	0.022	1.45	3.8	0.21	0.21	1.89	1.81	242
40387495		11.4	1.12	60	29.4	0.51	<0.005	0.082	0.015	0.93	2.6	0.10	0.24	1.06	1.29	167.0
40387496		16.7	1.64	97	9.4	0.21	<0.005	0.039	0.003	0.41	1.1	0.05	0.11	0.53	0.53	75.8
40387497		19.0	1.83	107	19.5	0.48	<0.005	0.074	0.007	0.81	1.8	0.10	0.16	1.15	1.05	114.5
40387498		19.2	1.85	109	13.0	0.31	<0.005	0.044	0.004	0.87	1.3	0.06	0.12	0.57	0.64	91.3
40387499		13.8	1.38	84	27.1	0.40	<0.005	0.065	0.029	1.36	3.1	0.10	0.16	0.83	1.05	204
40387500		12.9	1.31	70	30.7	0.43	<0.005	0.070	0.036	1.22	3.3	0.10	0.15	0.89	1.07	226
40387501		18.8	1.89	111	1.5	0.02	<0.005	0.017	<0.001	0.05	0.4	0.01	0.07	0.06	0.11	45.6
40387502		17.1	1.52	101	15.7	0.24	<0.005	0.043	0.004	1.20	0.9	0.05	0.21	0.49	0.55	84.1
40387503		19.0	1.76	108	0.6	0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.06	0.10	0.13	44.6
40387504		24.8	2.29	146	1.3	0.02	<0.005	0.020	0.001	<0.05	0.2	0.01	0.10	0.06	0.16	50.0
40387505		23.3	2.18	139	1.0	0.02	<0.005	0.021	0.001	<0.05	0.3	0.01	0.17	0.13	0.14	51.2
40387506		23.5	2.30	132	2.1	0.03	<0.005	0.022	0.001	0.07	0.4	0.01	0.49	0.21	0.26	53.6
40387507		53.7	4.62	217	>250	3.86	0.057	0.187	0.008	13.50	4.3	0.46	3.22	5.45	7.52	78.4
40387508		25.1	2.48	187	26.9	0.18	<0.005	0.040	0.014	0.58	0.7	0.05	0.32	0.27	1.00	13.7
40387509		25.3	2.76	194	18.8	0.20	<0.005	0.037	0.011	0.39	0.7	0.04	0.31	0.20	0.46	14.1
40387510		34.7	3.24	378	0.4	0.02	<0.005	0.028	0.001	<0.05	<0.2	0.02	0.36	0.03	0.09	15.0
40387511		25.6	2.82	190	31.8	0.23	<0.005	0.030	0.012	0.67	0.8	0.04	0.46	0.22	0.44	16.2
40387512		25.2	2.56	191	17.9	0.23	<0.005	0.046	0.014	0.68	0.8	0.04	0.51	0.32	1.01	15.8
40387513		28.5	3.08	188	21.0	0.23	<0.005	0.052	0.015	0.69	1.4	0.06	0.70	0.60	1.92	16.7
40387514		26.2	2.61	177	33.5	0.21	0.006	0.029	0.008	1.12	1.0	0.06	0.42	0.25	0.72	10.3
40387515		44.8	4.39	266	25.8	0.23	<0.005	0.036	0.009	0.31	0.8	0.08	0.29	0.26	0.24	9.8
40387516		36.2	3.06	272	22.3	0.05	<0.005	0.046	0.001	0.29	0.2	0.02	0.23	0.19	0.19	49.2
40387517		64.7	6.90	366	24.9	0.11	0.006	0.066	0.005	0.27	0.3	0.04	0.28	0.16	0.55	7.5
40387518		36.5	3.33	277	44.9	0.05	<0.005	0.028	0.001	0.28	0.8	0.04	0.32	0.13	0.30	51.3
40387519		19.2	1.64	106	45.9	0.19	0.005	0.020	0.008	1.04	1.1	0.08	0.34	0.24	2.08	10.7
40387520		19.0	1.79	113	4.2	0.14	0.008	0.028	0.003	0.30	0.9	0.06	0.44	0.47	0.26	61.0
40387521		15.4	0.73	23	38.8	0.13	<0.005	0.005	<0.001	0.29	0.5	0.06	0.06	0.10	0.51	5.4



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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40387490		3920	22.9	5.36	1965	10.3	17.1	116	0.076	0.1550	0.830					
40387491		7030	7.8	3.66	3060	11.4	22.2	126	0.081	0.202	0.631					
40387492		5240	10.7	11.85	2500	11.7	14.7	143	0.056	0.1285	0.410					
40387493		5590	6.3	16.90	2800	19.3	17.7	131	0.069	0.1180	0.447	15.35	0.01	8.30	0.029	0.03
40387494		4180	5.9	12.05	2180	29.5	16.3	123	0.051	0.0998	0.331					
40387495		2360	8.8	8.10	1405	17.9	10.0	97	0.017	0.0334	0.123					
40387496		1140	7.2	2.07	618	10.1	13.8	84	0.010	0.0215	0.068					
40387497		2600	7.0	3.27	1240	15.0	16.4	98	0.028	0.0319	0.196					
40387498		1315	6.2	3.12	707	10.8	15.1	107	0.014	0.0405	0.086					
40387499		2530	6.0	13.15	1520	13.4	14.9	112	0.017	0.0254	0.126					
40387500		2860	5.7	14.70	1690	12.6	12.9	111	0.020	0.0251	0.133					
40387501		109.5	16.3	0.93	194.0	3.1	15.0	87	0.001	0.0056	0.009					
40387502		942	15.5	2.71	557	9.0	15.5	99	0.010	0.0178	0.066					
40387503		135.0	20.5	0.77	198.5	2.3	15.4	87	0.001	0.0069	0.009					
40387504		268	18.8	1.02	245	2.9	22.1	103	0.002	0.0070	0.010					
40387505		405	19.3	0.97	259	3.1	18.9	105	0.002	0.0134	0.024					
40387506		433	27.4	0.88	274	3.7	20.0	114	0.004	0.0104	0.033					
40387507		5720	28.1	12.05	1335	75.0	19.9	701	0.039	0.1585	0.555					
40387508		91.8	46.1	10.25	82.1	32.4	18.4	184	0.002	0.0020	0.004					
40387509		80.7	53.8	7.84	80.5	18.3	19.3	132	0.001	0.0017	0.003					
40387510		16.5	18.4	1.08	12.0	12.5	14.8	89	<0.001	<0.0005	0.001					
40387511		115.0	53.8	11.35	98.3	21.2	20.5	118	0.002	0.0022	0.004					
40387512		114.5	56.9	12.95	88.4	23.4	21.1	176	0.002	0.0022	0.003					
40387513		143.5	52.3	19.65	99.2	34.1	20.8	278	0.004	0.0028	0.005					
40387514		125.5	39.4	8.75	44.8	21.0	12.1	136	0.001	0.0024	0.004					
40387515		181.0	43.3	9.42	43.6	26.0	13.3	97	0.001	0.0036	0.006					
40387516		284	35.8	4.26	73.4	5.3	26.7	145	0.002	0.0027	0.010					
40387517		59.1	42.9	7.24	20.4	17.1	10.2	136	<0.001	0.0043	0.002					
40387518		272	20.8	1.65	73.0	8.8	26.8	164	0.002	0.0026	0.010					
40387519		95.4	37.6	8.01	45.1	12.6	8.0	261	<0.001	0.0020	0.003					
40387520		1085	33.5	2.87	691	6.2	17.6	112	0.020	0.0409	0.210					
40387521		51.8	25.1	1.80	10.7	7.8	1.7	87	0.001	<0.0005	0.001					





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**CERTIFICATE OF ANALYSIS TB18199778**

Sample Description	Method Analyte Units LOD	ME-ICP81 Cu %	ME-ICP81 Fe %	ME-ICP81 Fe2O3 %	ME-ICP81 K %	ME-ICP81 MgO %	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40387490 40387491 40387492 40387493 40387494		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40387495 40387496 40387497 40387498 40387499		0.532	15.75	22.5	0.2	6.25	0.14	0.267	<0.01	5.39	40.3	1.24	0.014
40387500 40387501 40387502 40387503 40387504													
40387505 40387506 40387507 40387508 40387509													
40387510 40387511 40387512 40387513 40387514													
40387515 40387516 40387517 40387518 40387519													
40387520 40387521													

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



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<b>CERTIFICATE OF ANALYSIS TB18199778</b>
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	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">C-IR07</td> <td style="width: 25%;">ME-ICP06</td> <td style="width: 25%;">ME-ICP81</td> <td style="width: 25%;">ME-MS42</td> </tr> <tr> <td>ME-MS61</td> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> </tr> <tr> <td>S-IR08</td> <td>TOT-ICP06</td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-ICP81	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06		
C-IR07	ME-ICP06	ME-ICP81	ME-MS42										
ME-MS61	ME-MS81	OA-GRA05	PGM-MS24										
S-IR08	TOT-ICP06												



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To: **RIO TINTO EXPLORATION CANADA INC.**  
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 Plus Appendix Pages  
 Finalized Date: 7-SEP-2018  
 Account: RTECIKBZ

**CERTIFICATE TB18201482**

Project: EB80001452  
 P.O. No.: 3103290934  
 This report is for 175 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 17-AUG-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
--	-----------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40386475		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386475		2.10	56.9	18.30	7.31	6.41	2.75	3.63	2.32	0.002	0.94	0.10	0.28	0.06	0.10	99.57
40386476		7.84	62.9	17.30	7.94	0.46	2.83	1.93	3.05	0.025	0.83	0.03	0.11	0.01	0.06	100.79
40386477		5.52	69.4	14.20	6.06	0.58	2.06	3.21	1.91	0.024	0.69	0.02	0.11	0.01	0.05	100.60
40386478		5.42	70.6	14.05	5.66	0.59	2.06	3.40	1.87	0.024	0.67	0.02	0.11	0.02	0.05	101.28
40386479		5.59	68.7	14.95	6.43	0.47	2.28	2.85	2.17	0.023	0.72	0.02	0.11	0.01	0.05	101.23
40386480		0.17	45.2	18.60	12.10	9.25	7.39	2.06	1.07	0.343	1.33	0.14	0.15	0.05	0.04	99.72
40386481		5.60	61.7	17.80	8.40	0.39	2.99	1.56	3.64	0.026	0.84	0.03	0.12	0.01	0.07	101.22
40386482		5.36	63.0	17.70	8.13	0.47	2.96	1.59	3.44	0.027	0.87	0.03	0.12	0.01	0.07	101.75
40386483		5.98	62.2	17.85	8.49	0.70	3.01	1.54	3.49	0.027	0.88	0.03	0.11	0.01	0.07	101.91
40386484		5.95	64.1	16.70	7.81	0.66	2.73	1.87	3.37	0.026	0.81	0.03	0.12	0.01	0.07	101.46
40386485		5.51	68.0	14.30	6.25	0.51	2.27	2.93	2.69	0.023	0.67	0.03	0.10	0.02	0.10	100.21
40386486		5.08	63.7	16.30	7.76	0.73	2.77	1.95	3.32	0.024	0.83	0.04	0.12	0.02	0.09	100.74
40386487		6.52	43.7	13.35	14.40	6.87	4.73	1.39	3.62	0.017	2.99	0.14	0.42	0.02	0.13	98.07
40386488		4.22	46.9	14.30	15.60	6.85	5.83	2.37	1.35	0.018	3.47	0.17	0.47	0.03	0.07	100.54
40386489		3.10	47.4	14.40	15.85	7.82	5.49	2.39	1.35	0.018	3.36	0.19	0.46	0.04	0.08	100.58
40386490		2.98	46.7	14.15	15.90	7.80	5.45	2.46	1.37	0.019	3.34	0.20	0.46	0.04	0.08	99.56
40386491		6.48	46.9	14.15	15.75	7.84	5.56	2.47	1.43	0.020	3.24	0.20	0.43	0.05	0.06	99.40
40386492		6.54	47.8	14.35	15.95	7.87	5.63	2.48	1.57	0.020	3.22	0.20	0.46	0.05	0.05	101.05
40386493		6.24	47.1	14.15	15.95	7.85	5.45	2.45	1.56	0.018	3.30	0.19	0.45	0.05	0.04	100.09
40386494		6.57	47.2	14.10	16.00	7.89	5.32	2.55	1.47	0.019	3.33	0.20	0.45	0.05	0.05	99.83
40386495		6.58	47.4	13.80	15.75	7.73	5.16	2.44	1.36	0.018	3.42	0.19	0.47	0.04	0.06	99.20
40386496		2.50	51.2	14.05	13.60	5.93	4.35	2.12	1.73	0.020	2.75	0.15	0.40	0.03	0.08	98.73
40386497		5.12	68.6	13.45	6.19	1.13	2.16	1.76	4.16	0.025	0.64	0.03	0.12	0.03	0.14	100.99
40386498		5.87	68.1	14.20	6.00	0.52	2.09	2.35	3.38	0.028	0.70	0.03	0.13	0.03	0.11	99.93
40386499		5.80	69.1	13.90	6.35	0.40	2.18	2.77	2.69	0.025	0.68	0.03	0.12	0.02	0.06	100.44
40386500		2.34	58.4	18.25	6.96	5.89	2.46	3.97	2.55	0.002	0.93	0.11	0.28	0.07	0.11	100.36
40386501		3.83	71.3	13.15	5.63	0.53	1.98	2.88	2.94	0.025	0.62	0.03	0.12	0.02	0.08	101.21
40386502		3.39	71.9	12.45	5.91	0.49	2.03	2.37	3.26	0.027	0.60	0.03	0.12	0.02	0.08	101.19
40386503		1.67	52.8	14.20	15.05	4.27	3.53	2.18	2.33	0.006	3.16	0.15	0.48	0.05	0.11	100.79
40386504		5.76	66.5	14.85	7.34	0.63	2.63	2.20	3.51	0.027	0.74	0.04	0.16	0.02	0.09	101.41
40386505		4.70	61.4	14.25	10.55	1.30	2.39	2.16	4.79	0.008	1.37	0.10	0.48	0.04	0.12	101.43
40386506		6.01	60.2	14.65	11.05	1.86	2.79	2.12	4.38	0.014	1.55	0.12	0.35	0.05	0.10	101.75
40386507		5.95	60.3	13.55	12.00	1.54	2.82	1.62	4.86	0.014	1.82	0.11	0.38	0.03	0.09	101.77
40386508		5.50	58.9	13.90	11.60	2.28	3.10	2.22	3.35	0.014	1.77	0.11	0.37	0.04	0.09	100.34
40386509		5.00	59.1	13.40	11.85	1.82	2.88	2.07	4.30	0.013	1.78	0.13	0.40	0.04	0.09	100.58
40386510		0.17	44.3	18.50	12.15	9.15	7.41	2.13	1.07	0.351	1.33	0.14	0.16	0.05	0.04	98.75
40386511		3.07	58.5	13.20	12.45	2.65	3.08	2.45	3.47	0.012	1.87	0.14	0.44	0.04	0.07	101.02
40386512		3.13	56.9	13.30	12.75	3.10	3.15	2.63	2.94	0.014	1.98	0.15	0.42	0.05	0.06	99.37
40386513		2.18	57.2	13.75	12.45	3.63	2.89	2.67	2.43	0.012	2.03	0.14	0.39	0.06	0.06	100.33
40386514		1.70	54.9	14.20	13.20	3.52	3.87	2.35	1.98	0.027	1.91	0.14	0.33	0.05	0.05	99.61



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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386475		0.47	0.06	0.09	883	68.0	30	1.41	5.84	3.22	1.71	23.9	6.21	5.9	1.18	32.1
40386476		3.31	0.01	0.16	575	62.5	190	3.59	4.15	2.61	1.37	24.1	5.02	4.3	0.84	32.6
40386477		2.28	0.02	0.01	459	49.6	180	1.63	3.53	2.22	1.00	18.5	3.95	5.5	0.66	24.8
40386478		2.16	0.03	0.02	497	51.7	180	1.54	3.23	2.15	1.13	16.9	4.04	5.2	0.69	26.2
40386479		2.45	0.01	0.03	460	53.2	170	2.23	3.49	2.03	1.22	19.6	4.31	5.0	0.68	27.3
40386480		2.00	0.04	0.33	347	26.3	2540	2.62	3.57	2.19	1.15	21.5	3.72	2.7	0.71	12.5
40386481		3.64	0.01	0.42	621	64.4	200	5.08	4.30	2.67	1.41	25.5	5.05	4.3	0.87	34.2
40386482		3.33	0.01	0.02	643	57.1	200	3.09	4.19	2.69	1.33	24.5	5.16	4.2	0.87	28.7
40386483		3.50	0.04	0.01	699	58.6	200	2.89	4.59	2.92	1.20	25.6	4.64	4.2	0.89	29.4
40386484		3.15	0.03	0.02	595	55.7	190	2.90	3.97	2.60	1.24	22.1	4.88	4.7	0.86	27.8
40386485		2.32	0.02	0.03	913	51.9	170	1.16	3.53	1.89	1.11	19.1	3.85	4.6	0.72	26.5
40386486		3.09	0.04	<0.01	859	57.3	180	1.94	4.14	2.58	1.12	22.3	4.58	4.4	0.85	30.5
40386487		6.29	0.91	0.24	1160	64.5	120	3.14	7.53	4.61	2.28	23.9	8.21	6.4	1.55	32.9
40386488		3.11	0.03	0.08	609	64.2	130	4.82	8.09	4.58	2.27	26.6	9.21	7.2	1.59	29.5
40386489		1.73	0.01	0.07	724	62.1	130	4.99	8.38	4.74	2.33	25.4	8.47	7.1	1.79	28.8
40386490		1.59	0.01	0.07	711	65.6	140	5.14	8.23	4.33	2.53	24.0	8.70	7.1	1.75	27.8
40386491		1.30	0.01	0.05	564	65.1	160	5.47	8.09	4.66	2.36	24.7	8.52	6.9	1.71	29.1
40386492		1.40	0.01	0.04	433	67.5	150	5.44	8.00	5.02	2.76	25.8	9.02	7.0	1.73	29.5
40386493		1.53	0.01	0.05	372	63.7	130	4.69	7.87	4.29	2.23	22.9	8.66	6.5	1.60	27.9
40386494		1.20	0.01	0.03	430	63.4	120	4.76	8.72	4.85	2.48	22.7	9.30	6.5	1.69	30.3
40386495		1.36	0.01	0.03	505	68.2	120	4.48	8.50	4.82	2.41	23.8	9.24	7.1	1.75	29.9
40386496		2.32	0.02	0.05	713	67.2	150	2.83	8.02	4.15	2.25	23.5	8.24	7.0	1.44	29.8
40386497		2.55	0.18	0.05	1180	55.3	190	1.86	3.29	1.89	1.00	16.4	3.40	5.8	0.68	27.3
40386498		2.26	0.04	0.02	927	61.7	210	2.51	3.63	1.99	1.16	17.5	3.71	6.1	0.64	29.9
40386499		2.11	0.01	0.05	586	54.4	190	2.09	3.31	2.06	1.01	16.8	3.71	5.4	0.68	26.1
40386500		0.38	0.03	0.08	1030	66.6	30	1.31	6.42	3.45	1.74	22.7	6.68	6.6	1.35	28.7
40386501		1.90	0.05	0.02	732	60.0	190	1.53	2.95	1.92	1.28	16.4	3.53	6.6	0.61	28.0
40386502		1.90	0.06	0.03	783	49.1	210	1.58	3.29	2.03	1.11	15.8	3.34	6.1	0.70	23.1
40386503		2.47	0.04	0.07	1040	83.9	60	2.85	7.69	3.83	2.69	26.7	8.75	7.6	1.64	38.3
40386504		2.67	0.04	0.12	808	60.3	190	2.46	4.46	2.36	1.37	19.6	4.48	5.6	1.03	29.5
40386505		2.47	0.02	0.05	1110	98.5	70	4.50	9.31	4.99	2.43	25.0	10.20	9.1	1.80	45.7
40386506		2.52	0.02	0.10	866	83.1	100	3.83	6.91	4.32	2.44	23.7	8.72	7.2	1.51	38.0
40386507		2.64	0.09	0.07	821	83.3	100	2.58	8.28	3.98	2.20	23.8	8.71	7.9	1.62	38.4
40386508		2.60	0.02	0.05	808	87.8	110	3.59	8.48	4.32	2.62	24.0	8.32	8.0	1.67	40.9
40386509		2.71	0.10	0.06	815	85.5	100	2.52	8.63	3.67	2.39	23.5	9.58	7.9	1.74	39.0
40386510		1.97	0.04	0.32	366	28.2	2770	2.85	3.48	2.00	1.39	21.3	3.82	2.8	0.81	12.6
40386511		2.65	0.04	0.10	672	85.0	90	2.06	7.68	4.56	2.65	23.1	9.66	7.8	1.63	39.1
40386512		1.93	0.03	0.03	568	85.8	100	2.08	8.16	4.02	2.65	24.2	9.33	8.0	1.73	39.0
40386513		2.62	0.01	0.11	541	84.1	90	2.08	8.16	4.13	2.76	26.1	8.69	8.1	1.69	38.9
40386514		3.08	0.01	0.15	451	72.3	200	2.89	6.85	3.68	2.42	24.4	7.96	6.7	1.39	33.7





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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386475		0.44	11.5	37.9	9.29	87.5	8.19	2	523	0.8	0.98	5.31	0.42	1.35	124	1
40386476		0.36	10.8	30.6	8.18	126.5	6.37	2	67.0	0.9	0.75	8.07	0.35	3.84	141	2
40386477		0.33	9.2	24.1	6.39	76.4	5.01	2	108.5	0.7	0.60	7.30	0.34	2.84	101	1
40386478		0.32	8.9	24.0	6.39	79.4	4.73	2	143.0	0.6	0.55	7.08	0.31	2.89	100	1
40386479		0.30	9.6	26.2	6.73	97.2	4.85	2	120.5	0.8	0.63	7.59	0.35	3.07	111	1
40386480		0.29	7.8	15.5	3.65	35.5	3.82	2	398	0.5	0.64	1.19	0.27	0.33	187	1
40386481		0.35	10.9	30.7	8.13	156.0	6.02	2	86.7	0.8	0.71	8.18	0.38	5.07	158	2
40386482		0.34	11.1	28.5	7.41	126.0	6.05	2	102.5	0.8	0.75	7.91	0.38	3.55	146	2
40386483		0.39	11.6	30.4	7.68	125.0	5.83	2	100.5	0.8	0.71	8.06	0.39	3.40	149	2
40386484		0.39	10.6	27.6	7.11	121.5	5.82	2	105.0	0.8	0.70	7.75	0.34	3.25	136	2
40386485		0.31	8.9	24.0	6.45	91.4	4.45	2	176.5	0.7	0.57	7.17	0.26	2.89	103	1
40386486		0.34	10.3	27.9	7.50	119.5	5.78	2	144.0	0.8	0.67	7.51	0.39	3.48	135	1
40386487		0.58	18.8	37.0	8.82	134.5	8.61	2	167.0	1.3	1.27	3.98	0.62	1.31	247	1
40386488		0.61	21.2	36.9	8.54	51.3	9.03	2	269	1.4	1.33	4.06	0.63	1.42	285	1
40386489		0.63	20.2	37.8	8.70	56.2	8.71	2	332	1.3	1.40	3.99	0.72	1.34	276	1
40386490		0.63	21.0	35.1	8.34	57.0	8.31	2	335	1.2	1.32	4.12	0.59	1.35	285	2
40386491		0.63	21.1	37.5	8.49	57.5	8.92	2	377	1.3	1.29	4.03	0.62	1.34	288	1
40386492		0.64	21.1	38.0	8.83	59.2	8.82	2	443	1.3	1.38	4.15	0.62	1.32	282	1
40386493		0.62	20.5	35.6	8.15	55.7	8.47	2	402	1.3	1.30	3.71	0.55	1.21	273	1
40386494		0.61	19.8	39.1	8.91	52.0	8.44	2	374	1.3	1.52	4.05	0.65	1.40	282	1
40386495		0.63	21.4	37.8	8.72	53.7	8.40	2	304	1.3	1.42	4.17	0.66	1.42	279	1
40386496		0.59	18.9	36.4	8.57	75.9	8.26	2	286	1.1	1.13	4.73	0.65	1.70	246	1
40386497		0.28	9.0	24.8	6.48	139.0	4.77	1	204	0.6	0.54	7.49	0.35	2.83	97	1
40386498		0.31	9.6	26.3	7.15	118.5	4.85	2	203	0.6	0.55	7.81	0.28	3.29	104	1
40386499		0.25	10.0	25.4	6.33	98.8	5.22	1	165.0	0.7	0.51	7.69	0.29	2.79	105	1
40386500		0.50	14.1	38.3	8.66	100.5	8.75	3	556	0.8	1.07	4.67	0.47	1.55	116	<1
40386501		0.31	8.1	27.5	6.81	113.5	5.57	2	193.5	0.6	0.59	7.13	0.25	2.75	91	2
40386502		0.29	8.5	23.3	5.69	127.5	4.62	2	187.0	0.6	0.44	7.17	0.31	2.87	91	1
40386503		0.52	24.4	47.8	10.80	115.5	10.65	2	385	1.5	1.37	5.60	0.49	1.84	286	1
40386504		0.38	9.7	28.0	7.06	151.5	5.83	2	183.5	0.8	0.73	7.98	0.36	4.77	121	1
40386505		0.64	20.6	53.5	12.85	147.0	11.70	3	263	1.4	1.69	9.19	0.64	4.22	89	1
40386506		0.51	17.8	42.9	10.35	157.0	9.33	3	380	1.3	1.19	7.73	0.58	3.61	133	1
40386507		0.54	19.2	46.5	10.25	193.0	10.85	3	241	1.2	1.39	7.38	0.61	3.08	152	1
40386508		0.58	20.2	48.8	11.15	125.0	10.60	3	296	1.3	1.36	7.55	0.64	2.99	156	1
40386509		0.57	20.5	48.3	10.75	179.5	10.35	2	291	1.4	1.36	6.97	0.56	2.86	142	1
40386510		0.28	7.3	16.0	3.66	37.4	4.08	2	402	0.5	0.63	1.37	0.28	0.35	192	<1
40386511		0.55	20.1	48.4	10.75	122.5	10.35	2	319	1.3	1.44	6.99	0.57	2.72	148	1
40386512		0.54	21.3	46.6	11.35	105.0	11.15	2	379	1.4	1.38	6.62	0.64	2.56	164	1
40386513		0.61	21.1	46.4	10.90	82.7	10.05	2	443	1.4	1.28	6.80	0.60	2.66	157	1
40386514		0.49	18.6	39.3	9.10	67.1	9.74	2	400	1.2	1.13	5.71	0.56	2.52	228	1



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**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40386475		30.9	3.21	251	0.6	0.03	<0.005	0.030	0.001	<0.05	<0.2	0.01	0.31	0.03	0.07	19.5
40386476		21.8	2.56	162	7.9	0.10	0.008	0.029	0.001	0.33	<0.2	0.02	0.50	0.05	0.05	21.7
40386477		17.7	2.17	193	3.5	0.06	0.006	0.036	<0.001	0.14	0.2	<0.01	0.12	0.02	0.02	16.1
40386478		17.5	2.15	203	4.0	0.04	<0.005	0.024	<0.001	0.15	<0.2	0.01	0.11	0.04	0.02	15.4
40386479		18.6	2.26	179	4.6	0.08	<0.005	0.021	<0.001	0.10	<0.2	<0.01	0.15	0.04	<0.02	17.8
40386480		17.9	1.75	107	4.2	0.18	0.010	0.032	0.003	0.31	1.0	0.05	0.42	0.54	0.27	65.9
40386481		23.7	2.68	162	8.5	0.19	<0.005	0.045	0.001	0.13	0.2	0.03	0.27	0.08	0.14	23.4
40386482		22.8	2.61	156	6.1	0.11	<0.005	0.039	<0.001	0.16	<0.2	0.01	0.21	0.03	0.16	22.8
40386483		22.7	2.61	159	3.6	0.09	<0.005	0.037	<0.001	0.11	<0.2	0.02	0.17	0.03	0.05	23.1
40386484		21.8	2.53	172	2.1	0.08	<0.005	0.043	<0.001	0.09	0.2	0.01	0.19	0.02	0.02	20.7
40386485		17.6	2.11	185	2.6	0.04	0.006	0.041	<0.001	0.12	0.2	0.01	0.09	0.02	0.04	17.8
40386486		21.0	2.57	165	7.7	0.05	0.005	0.036	<0.001	0.23	<0.2	0.01	0.13	0.03	0.05	21.7
40386487		39.5	4.06	268	7.3	0.05	0.042	0.086	0.001	0.36	0.3	0.01	0.49	0.16	0.21	44.4
40386488		41.2	4.20	297	8.1	0.05	0.006	0.055	0.002	0.20	0.3	0.01	0.43	0.11	0.19	50.1
40386489		41.9	4.35	286	8.0	0.05	0.006	0.037	0.001	0.16	0.3	0.01	0.34	0.11	0.20	50.6
40386490		42.7	4.26	279	7.5	0.05	0.006	0.033	0.001	0.16	0.2	0.01	0.32	0.10	0.22	50.6
40386491		42.0	3.88	280	2.4	0.03	<0.005	0.028	0.001	0.11	0.3	0.01	0.38	0.11	0.16	51.3
40386492		43.4	4.59	280	1.7	0.04	<0.005	0.026	0.004	0.08	0.2	0.01	0.32	0.11	0.17	49.4
40386493		40.3	3.98	267	3.4	0.03	0.005	0.027	0.002	0.16	0.3	0.01	0.28	0.10	0.19	49.1
40386494		43.9	4.52	258	2.3	0.03	<0.005	0.027	0.002	0.14	0.2	0.01	0.38	0.11	0.15	47.7
40386495		42.9	4.19	282	10.1	0.05	<0.005	0.030	0.001	0.39	0.2	0.03	0.34	0.11	0.19	48.4
40386496		40.0	3.97	270	1.1	0.04	0.005	0.046	0.001	0.23	0.2	0.01	0.21	0.12	0.21	42.1
40386497		17.6	2.10	224	3.1	0.03	0.021	0.030	<0.001	0.20	<0.2	0.01	0.12	0.03	0.03	15.7
40386498		18.3	2.12	214	2.1	0.02	0.006	0.025	<0.001	0.12	<0.2	0.01	0.10	0.02	<0.02	16.2
40386499		16.3	2.03	209	2.7	0.02	0.007	0.032	<0.001	0.12	<0.2	0.01	0.11	0.03	<0.02	16.5
40386500		32.4	3.18	251	0.3	0.02	<0.005	0.029	0.001	<0.05	<0.2	0.02	0.32	0.02	0.07	16.9
40386501		15.6	1.95	225	1.8	0.01	0.007	0.034	<0.001	0.10	<0.2	0.01	0.09	0.04	0.11	14.7
40386502		15.8	1.75	242	3.0	0.02	0.018	0.030	<0.001	0.16	<0.2	0.01	0.09	0.03	0.03	14.9
40386503		37.5	3.46	306	1.2	0.04	<0.005	0.059	0.001	0.12	0.2	0.02	0.10	0.11	0.14	39.4
40386504		21.3	2.24	221	5.5	0.03	0.011	0.053	0.001	0.15	0.4	0.02	0.12	0.06	0.20	19.2
40386505		44.6	4.82	336	1.4	0.03	0.014	0.096	<0.001	0.17	0.2	0.01	0.08	0.04	0.17	16.0
40386506		35.5	3.97	277	2.7	0.03	0.013	0.072	0.001	0.22	<0.2	0.01	0.09	0.06	0.20	22.2
40386507		39.2	3.90	292	1.8	0.02	0.010	0.096	0.001	0.20	<0.2	0.01	0.09	0.07	0.20	25.1
40386508		39.0	4.48	302	2.7	0.01	0.011	0.068	0.001	0.21	<0.2	0.01	0.22	0.04	0.19	22.8
40386509		39.5	3.77	306	1.5	0.02	0.013	0.064	0.001	0.23	<0.2	<0.01	0.06	0.03	0.17	22.0
40386510		18.6	2.09	112	4.2	0.14	0.006	0.032	0.003	0.36	1.0	0.06	0.42	0.46	0.25	62.4
40386511		38.6	4.03	302	0.9	0.02	0.014	0.046	0.001	0.30	<0.2	0.01	0.04	0.03	0.16	21.5
40386512		39.9	3.71	297	1.1	0.02	0.007	0.042	<0.001	0.19	<0.2	0.01	0.04	0.04	0.16	23.2
40386513		37.5	3.98	294	4.5	0.03	0.007	0.034	<0.001	0.16	0.2	0.01	0.10	0.06	0.17	23.9
40386514		33.8	3.68	248	9.7	0.06	0.006	0.034	0.001	0.14	0.2	0.02	0.19	0.11	0.23	36.7



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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386475		19.8	18.0	0.81	19.4	9.6	17.5	82	<0.001	0.0010	0.003
40386476		42.0	67.1	1.34	78.5	8.2	21.4	103	<0.001	0.0010	0.001
40386477		25.4	52.1	1.07	55.5	4.1	15.4	58	<0.001	0.0009	0.001
40386478		28.5	49.0	1.12	54.0	4.6	14.9	44	<0.001	0.0008	0.001
40386479		28.2	62.0	1.17	64.4	9.1	17.6	68	<0.001	0.0009	0.001
40386480		1150	37.6	2.94	698	5.0	19.6	105	0.017	0.0452	0.205
40386481		63.1	91.5	5.49	85.4	10.4	24.3	130	<0.001	0.0012	0.002
40386482		42.7	85.5	0.99	85.1	7.0	24.1	138	<0.001	0.0011	0.002
40386483		41.7	91.6	0.70	86.2	6.0	24.1	119	<0.001	0.0011	0.001
40386484		36.4	78.9	0.74	75.0	6.4	21.5	95	<0.001	0.0010	0.001
40386485		34.1	57.0	1.29	61.2	14.1	17.0	69	<0.001	0.0009	0.001
40386486		46.4	77.0	1.83	75.3	7.9	20.8	90	<0.001	0.0011	0.001
40386487		284	61.5	1.81	82.9	4.7	30.5	142	0.001	0.0041	0.003
40386488		309	42.7	2.09	96.0	4.4	34.7	150	0.003	0.0046	0.004
40386489		316	31.3	1.78	99.0	4.4	34.6	155	0.002	0.0041	0.003
40386490		318	30.6	1.80	98.5	4.5	33.9	156	0.002	0.0045	0.004
40386491		312	27.6	1.91	108.0	5.2	32.9	154	0.003	0.0048	0.004
40386492		311	31.8	2.54	103.0	5.7	31.7	147	0.002	0.0047	0.004
40386493		308	32.9	1.93	96.3	5.5	33.4	149	0.002	0.0044	0.003
40386494		309	26.8	1.66	91.8	4.9	32.6	152	0.001	0.0044	0.003
40386495		298	29.7	1.70	84.7	8.4	33.9	159	0.002	0.0044	0.003
40386496		300	42.9	1.35	78.9	6.0	30.5	150	<0.001	0.0035	0.003
40386497		44.5	57.4	0.99	55.9	17.7	15.0	77	<0.001	0.0009	0.001
40386498		10.1	64.2	0.96	57.4	5.7	16.8	55	<0.001	0.0009	0.001
40386499		26.6	58.8	1.19	56.7	5.3	15.3	64	<0.001	0.0009	0.001
40386500		16.3	20.2	0.89	13.4	10.8	16.7	82	<0.001	0.0014	0.001
40386501		21.5	55.1	1.13	54.0	6.1	14.3	74	<0.001	0.0009	0.001
40386502		19.1	56.8	1.65	53.4	8.5	14.0	71	<0.001	0.0009	0.001
40386503		243	50.6	1.56	45.3	6.5	25.5	114	<0.001	0.0035	0.008
40386504		79.8	61.9	5.79	63.1	11.0	18.9	104	<0.001	0.0012	0.001
40386505		40.7	60.9	2.76	19.6	10.8	21.4	107	<0.001	<0.0005	0.001
40386506		77.7	64.8	3.04	41.1	14.3	23.4	136	<0.001	0.0007	0.001
40386507		124.5	56.2	2.90	35.0	11.4	26.1	151	0.004	0.0006	0.001
40386508		67.6	56.9	2.54	35.3	15.8	24.2	144	<0.001	0.0009	0.001
40386509		67.9	51.1	2.64	30.1	13.3	24.6	137	<0.001	0.0007	0.001
40386510		1110	38.1	2.77	658	5.7	18.7	97	0.022	0.0415	0.209
40386511		46.5	38.2	2.14	20.1	11.7	25.1	151	<0.001	<0.0005	0.001
40386512		59.7	34.7	2.07	22.5	12.9	26.6	156	<0.001	0.0005	0.001
40386513		65.7	32.1	2.83	25.9	17.0	25.6	147	<0.001	<0.0005	0.001
40386514		147.5	40.3	2.86	112.5	14.9	28.7	148	0.002	0.0024	0.005



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**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40386515		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386516		3.10	48.5	17.50	15.15	3.75	6.18	1.49	2.20	0.046	1.12	0.10	0.09	0.05	0.03	99.21
40386517		3.18	50.7	15.95	14.05	4.65	6.56	1.61	1.75	0.057	0.68	0.09	0.09	0.05	0.03	99.08
40386518		3.44	54.3	15.85	11.95	3.26	6.60	1.66	2.32	0.075	0.71	0.08	0.07	0.04	0.04	99.66
40386519		3.12	51.2	16.10	12.45	4.99	8.14	1.60	1.51	0.080	0.79	0.11	0.08	0.04	0.03	99.59
40386520		1.21	49.2	16.80	12.45	6.70	8.55	1.86	0.96	0.071	0.71	0.12	0.08	0.04	0.02	99.64
40386521		1.30	48.2	17.55	12.15	8.09	8.44	2.09	0.54	0.055	0.81	0.13	0.11	0.03	0.02	99.63
40386522		3.20	48.3	16.35	14.00	6.65	8.14	1.87	0.83	0.060	0.89	0.13	0.15	0.04	0.02	99.55
40386523		3.12	44.6	21.4	9.97	9.78	7.09	1.80	0.42	0.156	0.43	0.08	0.05	0.04	0.01	99.89
40386524		2.98	45.7	21.0	9.74	9.44	7.25	1.92	0.41	0.166	0.51	0.08	0.05	0.04	0.01	99.09
40386525		3.23	46.9	18.30	11.10	8.05	8.16	1.93	0.65	0.164	0.68	0.10	0.12	0.04	0.02	98.93
40386526		3.14	44.1	21.7	10.45	10.10	7.82	1.86	0.36	0.323	0.49	0.08	0.05	0.04	0.01	99.54
40386527		3.14	42.0	21.7	10.35	9.87	9.54	1.71	0.19	1.090	0.47	0.09	0.05	0.04	0.01	98.71
40386528		2.22	40.8	20.9	10.85	9.21	10.60	1.60	0.18	1.690	0.50	0.10	0.04	0.03	0.01	98.14
40386529		2.17	43.8	19.30	12.40	9.04	9.31	1.87	0.36	0.387	0.58	0.10	0.07	0.03	0.01	98.75
40386530		2.04	44.0	21.0	8.97	9.85	10.15	1.81	0.32	0.567	0.54	0.10	0.07	0.04	0.01	100.18
40386531		1.86	58.1	18.05	7.41	5.80	2.49	3.86	2.56	0.004	0.99	0.11	0.35	0.07	0.10	100.19
40386532		2.72	44.4	20.6	9.80	9.51	9.92	1.87	0.57	0.821	0.69	0.11	0.08	0.05	0.01	100.37
40386533		3.24	43.2	20.4	10.60	10.00	10.55	1.87	0.22	1.105	0.72	0.12	0.07	0.03	0.01	100.00
40386534		3.03	43.0	18.80	11.15	9.76	9.51	1.89	0.34	0.778	0.85	0.13	0.08	0.04	0.01	98.75
40386535		3.38	44.4	19.25	12.05	9.47	9.88	2.15	0.28	0.911	0.86	0.13	0.07	0.03	0.01	99.80
40386536		3.09	46.5	18.75	11.40	9.94	8.29	2.43	0.47	0.228	1.19	0.13	0.14	0.04	0.02	100.35
40386537		3.29	46.8	18.90	10.35	9.51	9.25	2.35	0.44	0.081	0.88	0.12	0.11	0.03	0.01	99.47
40386538		3.12	45.8	20.1	9.39	10.45	8.80	2.29	0.32	0.057	0.76	0.11	0.09	0.04	0.01	99.28
40386539		3.10	46.7	20.1	9.35	10.60	8.20	2.47	0.40	0.049	0.90	0.11	0.12	0.04	0.01	99.84
40386540		3.17	46.0	19.90	9.72	10.30	9.93	2.20	0.27	0.073	0.64	0.12	0.07	0.03	0.01	99.79
40386541		0.17	43.4	18.35	14.25	9.52	7.75	2.17	0.63	0.324	1.31	0.15	0.15	0.04	0.02	99.52
40386542		3.20	47.1	17.75	11.75	9.24	8.19	2.42	0.54	0.060	1.02	0.15	0.23	0.03	0.02	99.10
40386543		3.18	46.8	17.10	12.60	9.89	7.99	2.48	0.48	0.106	1.62	0.15	0.19	0.03	0.02	100.39
40386544		2.28	45.7	18.15	12.15	9.72	8.58	2.35	0.39	0.081	1.20	0.14	0.12	0.03	0.02	100.21
40386545		2.15	46.7	19.70	10.45	10.40	8.99	2.39	0.37	0.071	0.94	0.13	0.11	0.04	0.02	100.80
40386546		2.93	45.7	16.60	13.15	9.87	9.13	2.33	0.32	0.082	1.87	0.16	0.17	0.03	0.01	100.22
40386547		4.72	46.5	18.65	11.35	10.25	9.98	2.22	0.27	0.063	0.91	0.14	0.10	0.03	0.01	101.00
40386548		6.48	45.7	19.00	10.55	10.10	9.96	2.25	0.29	0.043	0.86	0.13	0.10	0.04	0.01	99.45
40386549		6.46	46.1	19.05	10.65	10.15	10.10	2.24	0.29	0.036	0.91	0.13	0.11	0.03	0.01	100.26
40386550		2.85	45.6	19.00	10.40	10.25	10.45	2.16	0.24	0.036	0.77	0.13	0.09	0.03	0.01	99.76
40386551		2.78	45.8	19.20	10.60	10.15	10.45	2.17	0.25	0.032	0.83	0.13	0.09	0.03	0.01	100.32
40386552		6.38	45.6	19.20	10.65	10.20	10.45	2.15	0.24	0.032	0.83	0.13	0.10	0.03	0.01	100.01
40386553		6.36	45.9	19.70	10.50	10.35	10.45	2.13	0.23	0.031	0.76	0.13	0.09	0.03	0.01	100.86
40386554		6.18	45.4	19.90	10.35	10.50	9.83	2.08	0.28	0.052	0.80	0.13	0.11	0.03	0.01	99.96
40386555		6.15	45.8	19.10	10.80	10.00	9.03	2.29	0.48	0.112	1.03	0.13	0.12	0.04	0.01	100.18





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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386515		3.00	0.01	1.20	305	33.1	330	5.75	2.85	1.42	1.37	21.7	2.58	2.5	0.57	17.2
40386516		2.81	0.02	1.32	308	38.1	400	5.44	3.49	2.14	1.79	19.8	3.18	3.4	0.68	18.7
40386517		2.70	0.01	0.35	392	45.8	530	5.55	4.27	2.26	1.40	22.6	4.45	5.1	0.96	22.3
40386518		2.47	0.02	0.37	261	32.8	570	4.35	2.86	1.41	1.38	19.3	3.08	3.3	0.60	16.4
40386519		2.08	0.02	0.38	191.5	22.9	490	3.38	2.56	1.49	1.17	18.3	2.81	2.4	0.54	11.2
40386520		1.41	0.02	0.32	152.0	20.7	400	2.78	2.77	1.55	1.25	20.8	2.70	1.9	0.47	9.9
40386521		2.12	0.02	0.54	204	30.5	440	3.58	2.90	1.71	1.34	18.1	3.09	2.7	0.62	14.2
40386522		4.06	0.03	0.50	105.5	10.1	1110	3.22	1.14	0.57	0.80	18.3	1.20	0.9	0.24	5.0
40386523		2.77	0.04	0.44	125.5	13.5	1200	3.60	1.24	0.81	0.91	18.7	1.60	1.2	0.25	6.3
40386524		2.72	0.03	0.45	157.0	23.9	1200	3.35	2.57	1.12	1.20	19.5	2.55	2.2	0.54	11.0
40386525		2.16	0.02	1.12	106.0	12.4	2510	3.23	1.48	0.77	0.80	18.5	1.54	1.2	0.35	5.4
40386526		1.60	0.02	0.64	73.8	8.5	8460	2.55	1.11	0.60	0.71	21.0	1.16	0.7	0.23	3.9
40386527		1.63	0.01	0.24	68.9	7.9	>10000	3.02	1.08	0.52	0.52	22.2	1.08	0.7	0.15	3.6
40386528		1.49	0.01	1.12	101.5	13.5	3100	2.88	1.62	0.84	0.88	17.7	1.86	1.2	0.31	5.9
40386529		2.75	0.03	0.04	90.7	11.3	4470	2.83	1.37	0.77	0.64	19.3	1.62	1.2	0.23	5.0
40386530		0.30	0.05	0.11	872	66.0	30	1.73	6.14	3.04	1.98	24.1	7.20	8.2	1.36	27.7
40386531		1.94	0.03	0.04	109.5	15.3	6240	2.09	1.97	1.15	0.75	19.7	1.87	1.4	0.33	6.4
40386532		1.10	0.01	0.04	87.6	12.2	8580	1.92	1.56	1.11	0.83	20.8	1.92	1.3	0.39	5.5
40386533		2.41	0.03	0.17	107.0	16.1	6100	2.93	2.30	1.20	0.92	21.1	2.11	1.7	0.44	7.1
40386534		0.31	0.01	0.03	95.2	12.6	6850	1.47	1.55	1.03	0.89	20.7	1.68	1.3	0.37	5.6
40386535		0.82	0.01	0.03	142.5	21.5	1620	1.71	3.08	1.41	1.22	19.0	3.10	2.2	0.65	9.3
40386536		0.64	0.01	0.02	138.0	20.3	590	1.45	2.57	1.37	0.98	19.8	2.48	2.3	0.55	9.2
40386537		1.06	0.01	0.02	109.5	16.0	410	1.78	1.96	1.25	0.98	18.7	2.14	1.5	0.45	6.7
40386538		0.79	0.01	0.04	127.5	18.5	350	1.25	2.74	1.62	0.92	19.5	2.91	2.1	0.56	8.4
40386539		0.53	<0.01	0.02	95.4	12.8	510	1.16	1.90	1.03	0.78	17.7	2.10	1.0	0.41	5.7
40386540		1.46	0.03	0.91	163.0	25.1	2380	2.85	3.43	1.83	1.26	20.4	3.71	2.5	0.75	11.0
40386541		0.60	0.01	0.04	201	37.7	430	1.50	4.92	2.36	1.76	21.5	5.37	3.9	1.05	16.5
40386542		0.93	0.01	0.04	179.5	30.8	760	1.53	4.46	2.30	1.42	21.0	4.37	3.8	1.01	13.3
40386543		1.58	0.02	0.05	144.5	20.5	600	1.86	2.76	1.62	1.14	20.5	3.11	2.2	0.58	9.3
40386544		0.49	0.01	0.02	135.5	19.7	510	1.16	2.96	1.73	1.16	19.1	2.69	2.1	0.55	8.8
40386545		0.80	0.01	0.05	129.5	29.2	580	1.35	4.26	2.68	1.25	19.6	4.65	3.3	0.81	12.7
40386546		0.53	0.01	0.02	116.5	16.4	450	1.32	2.58	1.46	1.01	18.8	2.39	2.0	0.50	7.5
40386547		0.42	0.01	0.02	112.5	17.1	300	1.14	2.11	1.26	1.01	18.7	2.46	1.7	0.45	7.5
40386548		0.45	0.01	0.02	106.0	16.6	250	1.01	2.47	1.50	0.97	17.8	2.47	1.7	0.51	7.0
40386549		0.59	0.01	0.02	103.0	15.1	260	1.21	2.24	1.17	0.84	18.5	2.15	1.6	0.48	6.8
40386550		0.58	0.01	0.02	100.5	15.8	220	1.12	2.05	1.42	0.74	18.0	2.35	1.7	0.44	6.9
40386551		0.39	0.01	0.02	110.0	18.7	230	1.14	2.37	1.23	0.99	18.1	2.48	1.5	0.50	8.6
40386552		0.55	<0.01	0.01	108.0	16.3	220	1.08	2.20	1.28	0.95	18.4	2.37	1.8	0.40	7.4
40386553		0.49	<0.01	0.02	114.0	17.6	380	1.03	2.35	1.41	0.95	17.9	2.65	1.7	0.46	8.0
40386554		1.24	0.01	0.02	135.0	21.7	810	2.04	2.94	1.63	0.90	19.5	2.57	2.2	0.58	9.6





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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386515		0.25	7.2	16.9	3.88	95.5	3.26	1	353	0.6	0.46	3.31	0.26	1.69	214	1
40386516		0.31	6.1	19.2	4.74	73.6	4.31	1	394	0.5	0.62	3.36	0.30	1.45	290	1
40386517		0.33	7.3	24.4	5.74	94.3	4.93	2	335	0.5	0.65	4.54	0.28	2.02	332	1
40386518		0.23	6.2	17.4	3.93	62.6	3.92	1	315	0.5	0.46	2.97	0.23	1.22	259	<1
40386519		0.19	4.5	12.4	2.77	39.2	2.99	1	288	0.4	0.38	1.92	0.23	0.75	212	<1
40386520		0.20	4.8	11.2	2.60	20.7	2.33	1	265	0.4	0.36	1.50	0.22	0.56	170	<1
40386521		0.23	7.1	18.7	3.79	35.7	3.52	1	290	0.5	0.51	2.28	0.23	0.99	192	<1
40386522		0.08	2.1	5.3	1.34	15.0	1.30	1	313	0.1	0.19	0.62	0.11	0.32	66	<1
40386523		0.10	2.7	7.3	1.75	16.1	1.87	1	311	0.3	0.26	0.88	0.11	0.35	80	<1
40386524		0.18	5.2	12.7	3.16	28.0	2.97	1	288	0.4	0.42	1.85	0.19	0.80	134	<1
40386525		0.12	2.8	6.9	1.58	14.7	1.53	<1	309	0.3	0.25	0.97	0.10	0.24	101	<1
40386526		0.08	1.9	4.4	1.15	7.6	1.04	<1	289	0.2	0.18	0.40	0.08	0.12	161	<1
40386527		0.08	1.8	4.1	1.03	7.3	0.84	<1	261	0.2	0.17	0.41	0.09	0.13	235	<1
40386528		0.12	3.1	7.7	1.76	13.4	1.51	1	270	0.3	0.26	0.82	0.14	0.28	137	<1
40386529		0.10	2.6	6.4	1.49	9.6	1.51	<1	331	0.3	0.17	0.60	0.10	0.21	118	<1
40386530		0.46	13.8	37.2	8.70	114.5	7.99	2	504	0.8	1.06	4.89	0.50	1.79	127	<1
40386531		0.12	4.1	8.3	2.10	16.2	1.81	<1	367	0.4	0.35	0.85	0.16	0.26	162	3
40386532		0.15	3.2	7.6	1.57	7.1	1.74	<1	277	0.3	0.26	0.54	0.14	0.14	190	<1
40386533		0.16	3.9	9.8	2.25	10.3	2.52	1	318	0.4	0.35	0.86	0.17	0.36	204	<1
40386534		0.17	3.1	6.9	1.82	8.6	1.65	<1	261	0.2	0.28	0.59	0.14	0.47	239	<1
40386535		0.25	6.2	12.6	2.89	15.9	3.45	<1	271	0.5	0.48	1.04	0.23	0.32	194	<1
40386536		0.18	5.4	12.0	2.77	15.2	2.85	1	269	0.4	0.36	1.20	0.25	0.42	115	<1
40386537		0.17	4.2	9.4	2.10	9.6	2.23	1	286	0.4	0.32	0.69	0.20	0.23	105	<1
40386538		0.19	5.0	11.0	2.55	12.5	2.74	1	285	0.4	0.38	0.82	0.21	0.24	121	<1
40386539		0.10	3.6	7.4	1.80	6.8	2.05	<1	289	0.3	0.28	0.72	0.13	0.13	94	<1
40386540		0.26	7.2	15.2	3.36	23.6	3.91	2	329	0.5	0.49	1.01	0.23	0.26	181	1
40386541		0.36	10.5	22.2	5.21	16.3	4.92	1	263	0.7	0.71	1.87	0.39	0.59	95	<1
40386542		0.35	8.9	17.9	4.17	14.6	4.34	1	263	0.6	0.72	1.46	0.40	0.47	209	<1
40386543		0.23	6.5	12.0	2.69	11.3	2.91	1	273	0.5	0.52	0.93	0.24	0.30	170	<1
40386544		0.27	5.3	11.6	2.78	10.2	3.14	<1	280	0.4	0.49	1.01	0.24	0.29	123	<1
40386545		0.34	9.1	17.2	3.90	8.8	4.41	1	244	0.5	0.69	1.42	0.36	0.38	235	<1
40386546		0.21	4.7	10.0	2.20	6.9	2.66	1	263	0.4	0.37	0.86	0.18	0.23	126	<1
40386547		0.14	4.5	9.6	2.25	7.2	2.40	<1	267	0.3	0.34	0.70	0.14	0.17	107	<1
40386548		0.18	4.6	9.8	2.15	6.4	2.34	1	251	0.3	0.43	0.75	0.18	0.18	112	<1
40386549		0.21	4.1	8.7	1.99	6.1	2.27	<1	259	0.4	0.38	0.65	0.17	0.16	107	<1
40386550		0.16	4.5	9.4	2.12	5.9	2.10	<1	262	0.4	0.33	0.69	0.17	0.17	102	<1
40386551		0.17	4.7	11.4	2.45	5.6	2.65	<1	254	0.4	0.36	1.35	0.16	0.17	100	<1
40386552		0.14	4.5	9.6	2.23	5.5	2.02	1	283	0.4	0.45	0.91	0.19	0.17	100	<1
40386553		0.18	4.8	10.0	2.48	9.2	2.54	1	279	0.4	0.42	0.84	0.16	0.22	106	<1
40386554		0.20	5.6	13.1	3.06	17.0	3.19	<1	284	0.6	0.47	1.25	0.24	0.41	139	<1



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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40386515		13.4	1.51	103	10.2	0.60	<0.005	0.038	0.010	0.16	2.2	0.14	0.67	0.78	0.88	127.0
40386516		16.4	2.13	122	5.8	0.42	<0.005	0.042	0.011	0.13	2.4	0.15	0.71	0.72	0.67	128.0
40386517		20.7	2.01	183	8.6	0.31	<0.005	0.038	0.007	0.13	1.5	0.10	0.52	0.51	0.39	88.0
40386518		15.2	1.64	122	6.9	0.59	<0.005	0.035	0.011	0.11	1.8	0.17	0.58	0.62	0.38	101.5
40386519		12.3	1.46	82	2.7	0.58	<0.005	0.035	0.010	0.11	2.3	0.21	0.44	0.88	0.40	104.5
40386520		12.0	1.37	72	0.8	0.32	<0.005	0.025	0.010	0.10	1.5	0.14	0.34	0.64	0.25	88.3
40386521		15.2	1.55	107	11.2	0.71	<0.005	0.037	0.013	0.13	2.3	0.23	0.71	0.98	0.39	121.0
40386522		5.5	0.60	35	6.7	0.84	0.011	0.038	0.010	0.22	3.5	0.30	0.88	1.26	0.38	106.0
40386523		6.9	0.87	45	1.9	0.26	<0.005	0.028	0.008	0.08	2.1	0.15	0.68	0.84	0.24	84.4
40386524		12.0	1.46	77	3.1	0.43	<0.005	0.037	0.011	0.08	2.3	0.21	0.54	0.89	0.34	95.3
40386525		7.2	0.78	41	1.8	0.73	<0.005	0.042	0.011	0.07	3.4	0.26	0.75	1.26	0.43	115.0
40386526		5.4	0.46	27	1.8	0.42	<0.005	0.034	0.008	0.13	3.3	0.30	0.58	1.27	0.27	101.5
40386527		5.1	0.44	25	3.1	0.29	<0.005	0.019	0.007	0.18	2.0	0.17	0.14	0.80	0.13	89.2
40386528		8.5	0.70	47	6.7	0.96	<0.005	0.040	0.015	0.15	3.3	0.28	0.50	0.88	0.43	140.5
40386529		7.5	0.80	39	0.6	0.05	<0.005	0.010	0.001	0.07	0.3	0.02	0.55	0.05	0.04	56.6
40386530		31.7	3.10	326	0.6	0.02	<0.005	0.034	0.001	0.06	0.3	0.01	0.41	0.03	0.09	16.6
40386531		9.1	0.97	59	2.1	0.05	<0.005	0.012	<0.001	0.09	0.4	0.04	0.37	0.09	0.07	58.9
40386532		9.2	0.83	47	1.7	0.04	<0.005	0.014	0.001	0.09	0.6	0.04	0.03	0.13	0.07	68.0
40386533		11.5	1.10	60	89.4	0.15	<0.005	0.044	0.002	0.59	1.0	0.14	0.11	0.45	0.30	69.2
40386534		9.1	0.92	50	15.5	0.05	<0.005	0.016	0.001	0.19	0.5	0.04	0.03	0.12	0.10	69.2
40386535		16.3	1.65	81	2.0	0.02	<0.005	0.016	0.001	0.08	0.2	0.01	0.04	0.09	0.09	55.9
40386536		13.0	1.50	81	1.2	0.02	<0.005	0.017	<0.001	0.07	0.2	0.01	0.06	0.06	0.07	56.8
40386537		11.9	0.97	59	1.2	0.01	<0.005	0.014	0.001	0.06	0.2	0.01	0.04	0.04	0.07	52.1
40386538		13.4	1.27	76	0.2	0.01	<0.005	0.017	0.001	0.05	0.5	0.02	0.04	0.07	0.09	49.0
40386539		9.3	0.81	46	0.2	0.01	<0.005	0.013	<0.001	0.06	0.3	<0.01	0.04	0.04	0.06	55.4
40386540		17.4	1.66	101	6.9	0.62	0.006	0.053	0.006	0.35	3.0	0.21	0.31	1.70	0.45	97.6
40386541		25.1	2.37	137	0.6	0.01	<0.005	0.018	0.001	0.05	0.4	0.02	0.04	0.05	0.12	50.6
40386542		24.1	2.02	133	0.6	0.01	<0.005	0.021	0.001	0.06	0.5	0.02	0.04	0.14	0.15	50.3
40386543		15.7	1.71	83	0.3	0.01	<0.005	0.018	<0.001	0.06	0.4	0.01	0.04	0.07	0.10	55.4
40386544		14.5	1.44	82	0.2	0.01	<0.005	0.017	0.001	0.05	0.3	0.01	0.02	0.05	0.08	50.0
40386545		21.3	1.77	117	0.2	0.01	<0.005	0.022	0.001	0.05	0.3	0.01	0.03	0.08	0.13	55.6
40386546		12.6	1.45	68	2.7	0.01	<0.005	0.016	<0.001	0.07	0.3	0.02	0.03	0.06	0.10	55.6
40386547		12.4	1.29	70	0.4	0.01	<0.005	0.016	<0.001	0.05	0.2	0.01	0.02	0.05	0.10	56.7
40386548		12.3	1.27	63	0.3	<0.01	<0.005	0.016	<0.001	<0.05	0.3	0.01	0.02	0.03	0.08	54.1
40386549		11.4	1.04	60	0.5	0.01	<0.005	0.013	<0.001	<0.05	0.3	0.01	0.02	0.04	0.08	55.5
40386550		11.4	1.01	61	0.4	0.01	<0.005	0.014	<0.001	<0.05	0.4	0.01	0.02	0.04	0.08	56.3
40386551		11.8	0.94	62	0.1	<0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.02	0.05	0.09	58.1
40386552		11.6	1.15	63	0.7	0.01	<0.005	0.017	0.001	<0.05	0.4	0.01	0.02	0.06	0.08	54.7
40386553		12.6	1.36	66	0.2	0.01	<0.005	0.017	<0.001	0.05	0.2	0.01	0.02	0.05	0.09	53.4
40386554		14.7	1.47	80	0.8	0.01	<0.005	0.018	<0.001	0.06	0.5	0.02	0.04	0.05	0.09	51.9



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 Account: RTEICKBZ

Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386515		1530	53.6	18.45	1070	18.2	24.0	133	0.021	0.0337	0.074
40386516		1620	53.2	13.35	1125	13.9	32.5	122	0.025	0.0279	0.080
40386517		1140	63.2	8.84	921	16.3	31.6	126	0.015	0.0273	0.062
40386518		1450	55.1	7.17	1265	13.5	24.3	108	0.027	0.0415	0.125
40386519		2310	37.2	3.40	1655	9.2	23.0	95	0.041	0.0583	0.199
40386520		1760	19.6	2.45	1220	5.0	18.1	81	0.019	0.0408	0.131
40386521		2300	35.3	5.18	1680	13.5	19.3	111	0.037	0.0616	0.183
40386522		3660	38.9	2.79	2420	4.0	6.7	69	0.066	0.0948	0.472
40386523		2260	33.7	1.98	1480	3.3	8.6	74	0.049	0.0728	0.294
40386524		2360	35.3	2.96	1515	6.7	13.7	93	0.035	0.0607	0.260
40386525		2900	35.7	3.50	2080	8.7	8.7	71	0.059	0.100	0.377
40386526		3370	39.0	1.15	2290	2.9	8.0	89	0.122	0.1135	0.567
40386527		2090	39.8	1.04	1560	3.4	6.7	105	0.189	0.0830	0.452
40386528		1990	29.2	6.86	2010	6.0	10.5	84	0.129	0.0828	0.170
40386529		154.0	49.4	0.54	515	1.2	7.3	71	0.026	0.0138	0.061
40386530		17.6	20.4	1.06	13.3	11.4	15.0	93	0.004	<0.0005	0.001
40386531		257	36.3	0.81	566	1.7	9.8	88	0.021	0.0191	0.065
40386532		353	25.7	0.63	669	1.5	12.8	99	0.049	0.0315	0.180
40386533		1345	39.4	0.62	877	1.6	15.4	132	0.029	0.0308	0.214
40386534		340	17.9	0.58	475	1.5	14.6	107	0.011	0.0359	0.114
40386535		154.0	15.7	0.76	282	1.3	17.4	101	0.005	0.0088	0.028
40386536		150.0	18.0	0.67	355	2.7	11.0	87	0.008	0.0546	0.024
40386537		100.5	15.6	0.53	334	1.0	11.1	77	0.002	0.0057	0.013
40386538		188.0	12.3	0.68	322	1.1	12.5	78	0.061	0.0896	0.065
40386539		109.0	15.7	0.62	426	0.8	10.7	76	0.003	0.0097	0.012
40386540		4070	28.9	4.76	2040	7.7	17.2	120	0.072	0.1330	0.793
40386541		158.5	13.9	0.98	359	3.6	16.3	112	0.002	0.0058	0.019
40386542		206	10.2	0.89	240	3.2	23.8	98	0.005	0.0103	0.024
40386543		174.5	10.7	0.70	295	1.9	19.7	92	0.431	0.0126	0.018
40386544		117.0	10.0	0.76	331	1.7	15.5	75	0.014	0.0053	0.013
40386545		217	9.2	0.82	321	2.1	28.2	100	0.010	0.0084	0.019
40386546		139.5	9.7	0.61	373	1.5	17.8	84	0.003	0.0065	0.011
40386547		115.0	8.0	0.61	374	1.5	14.8	76	0.083	0.0094	0.016
40386548		90.3	6.6	0.65	364	1.3	14.4	73	0.001	0.0043	0.009
40386549		94.7	6.8	0.59	376	1.3	13.9	72	0.002	0.0051	0.007
40386550		94.8	6.8	0.56	368	1.3	13.9	73	0.002	0.0140	0.013
40386551		110.5	5.7	0.59	400	1.4	14.9	76	0.002	0.0054	0.008
40386552		104.5	7.2	0.58	418	1.9	12.2	71	0.001	0.0058	0.008
40386553		112.0	7.4	0.63	365	1.3	12.9	71	0.005	0.0077	0.012
40386554		118.0	12.8	0.64	325	2.1	14.6	83	0.007	0.0081	0.014



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 Account: RTEICKBZ

Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386555		6.39	45.1	18.50	11.20	9.81	11.85	1.98	0.20	0.043	0.76	0.13	0.09	0.03	0.01	100.32
40386556		6.19	45.4	19.60	10.40	10.25	10.90	2.02	0.21	0.036	0.73	0.12	0.09	0.03	0.01	100.54
40386557		6.52	44.9	19.05	10.35	9.87	11.55	1.90	0.27	0.033	0.62	0.12	0.08	0.03	0.01	100.06
40386558		6.43	44.1	18.90	10.60	9.87	12.20	1.83	0.15	0.033	0.62	0.13	0.07	0.03	0.01	99.25
40386559		6.43	46.7	19.50	9.69	10.10	11.45	2.14	0.30	0.030	0.61	0.11	0.08	0.04	0.01	101.64
40386560		1.81	58.9	18.05	7.59	6.00	2.62	3.79	2.55	0.003	1.01	0.11	0.33	0.07	0.11	101.65
40386561		6.33	46.1	20.1	9.71	10.40	11.25	1.86	0.18	0.029	0.61	0.12	0.08	0.04	0.01	101.42
40386562		6.38	46.1	19.70	10.15	10.40	11.45	1.85	0.19	0.028	0.66	0.12	0.07	0.03	0.01	101.37
40386563		6.09	45.3	20.3	9.89	10.50	9.65	1.97	0.27	0.184	0.77	0.12	0.09	0.04	0.01	99.96
40386564		6.62	46.4	18.85	9.90	10.75	7.89	2.29	0.36	0.098	1.25	0.13	0.13	0.03	0.02	99.52
40386565		6.23	46.3	18.70	10.10	10.75	8.27	2.22	0.38	0.062	1.19	0.13	0.15	0.04	0.02	99.85
40386566		5.98	46.6	18.35	10.45	10.50	8.07	2.30	0.39	0.039	1.38	0.13	0.16	0.04	0.02	100.77
40386567		5.80	46.8	17.65	10.75	10.60	7.66	2.39	0.40	0.039	1.66	0.14	0.19	0.03	0.02	100.95
40386568		6.56	46.0	18.35	11.10	9.88	9.49	2.11	0.49	0.035	1.20	0.14	0.14	0.04	0.02	100.35
40386569		5.90	45.8	17.80	10.15	10.40	8.56	1.97	0.75	0.041	1.22	0.14	0.14	0.04	0.04	100.05
40386570		0.17	45.2	18.55	11.85	9.33	7.53	2.12	1.08	0.345	1.31	0.14	0.15	0.05	0.04	99.78
40386571		6.29	45.9	18.50	10.65	10.40	7.95	2.10	0.66	0.038	1.36	0.14	0.16	0.04	0.02	100.01
40386572		6.22	45.7	19.45	10.40	10.20	7.72	2.22	0.55	0.101	1.14	0.13	0.13	0.04	0.02	98.89
40386573		6.32	46.0	18.40	10.55	10.70	8.29	2.18	0.38	0.136	1.21	0.13	0.13	0.04	0.02	99.05
40386574		6.69	46.0	17.60	12.05	10.10	8.31	2.25	0.43	0.100	1.86	0.15	0.18	0.03	0.02	100.08
40386575		6.26	46.8	19.45	11.00	10.65	8.70	2.15	0.41	0.030	1.03	0.14	0.12	0.03	0.01	101.22
40386576		6.34	45.4	17.65	12.25	9.67	10.35	2.06	0.32	0.028	0.98	0.15	0.12	0.03	0.01	99.35
40386577		6.25	46.6	17.35	13.15	9.70	9.49	2.17	0.52	0.026	1.22	0.17	0.14	0.03	0.02	100.99
40386578		6.44	47.0	20.1	10.70	10.50	8.39	2.23	0.51	0.022	0.98	0.13	0.12	0.04	0.02	101.22
40386579		2.86	46.2	18.05	11.80	10.05	7.30	2.61	0.50	0.035	1.44	0.15	0.17	0.04	0.02	99.18
40386580		2.80	46.7	17.90	11.85	9.51	7.02	2.60	0.49	0.029	1.41	0.15	0.18	0.04	0.02	98.84
40386581		6.54	47.1	16.35	12.40	9.92	6.92	2.66	0.45	0.045	1.78	0.16	0.19	0.03	0.02	99.08
40386582		5.91	46.7	16.90	12.15	9.48	7.61	2.62	0.42	0.045	1.46	0.15	0.16	0.03	0.02	99.01
40386583		6.58	46.9	16.45	12.40	9.39	7.51	2.62	0.43	0.038	1.45	0.16	0.17	0.03	0.02	98.43
40386584		6.07	47.2	16.60	12.55	9.55	7.68	2.61	0.46	0.046	1.37	0.16	0.16	0.03	0.02	99.42
40386585		6.03	48.2	17.25	11.90	9.72	7.02	2.78	0.62	0.033	1.42	0.15	0.17	0.03	0.02	100.74
40386586		6.41	47.9	15.90	13.25	9.67	7.73	2.65	0.53	0.039	1.58	0.17	0.18	0.03	0.02	100.42
40386587		6.16	47.4	15.85	11.85	10.35	6.93	2.51	0.60	0.050	1.46	0.16	0.18	0.03	0.03	98.84
40386588		6.49	48.3	15.90	12.20	10.60	7.12	2.53	0.56	0.055	1.49	0.16	0.16	0.03	0.03	100.11
40386589		6.45	48.8	16.10	12.25	10.85	7.35	2.58	0.48	0.058	1.52	0.17	0.16	0.03	0.02	100.96
40386590		1.82	59.0	18.05	6.70	5.67	2.24	3.81	2.63	0.002	0.92	0.10	0.25	0.07	0.12	99.93
40386591		6.40	48.2	15.80	12.55	10.25	6.67	2.73	0.56	0.042	1.75	0.17	0.19	0.03	0.02	99.61
40386592		6.45	48.1	15.80	13.40	9.97	6.80	2.75	0.56	0.034	1.94	0.17	0.20	0.03	0.02	100.31
40386593		6.06	46.5	15.45	13.40	9.95	7.05	2.64	0.67	0.040	1.90	0.19	0.22	0.03	0.03	98.77
40386594		6.09	47.4	15.90	13.20	9.49	6.79	2.57	0.89	0.036	1.81	0.17	0.23	0.04	0.05	99.85





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**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386555		0.62	0.01	0.02	95.8	14.6	290	1.15	1.86	1.14	0.88	16.5	1.99	1.5	0.39	6.3
40386556		0.74	0.01	0.01	98.1	15.1	250	1.34	2.02	1.31	0.77	17.9	2.03	1.4	0.41	6.6
40386557		1.28	0.01	<0.01	93.3	14.1	240	1.39	1.62	0.94	0.84	16.9	1.82	1.7	0.34	6.1
40386558		0.71	0.01	0.01	80.6	13.0	230	1.00	1.87	0.89	0.82	15.6	1.77	1.4	0.38	5.6
40386559		0.88	0.01	0.01	88.1	13.6	220	1.12	1.96	1.08	0.71	16.6	1.55	1.3	0.28	6.3
40386560		0.52	0.04	0.10	976	66.5	30	1.39	6.51	3.59	1.76	22.9	7.29	6.9	1.29	29.1
40386561		0.93	0.01	0.01	83.3	13.0	200	1.41	1.75	1.06	0.62	15.0	2.02	1.1	0.33	6.0
40386562		0.61	<0.01	0.01	86.9	14.3	210	1.13	1.65	0.94	0.83	16.7	1.84	1.4	0.35	6.8
40386563		0.87	<0.01	0.01	95.2	17.0	1270	1.25	1.96	1.37	0.79	18.5	2.17	1.4	0.38	7.6
40386564		1.42	0.01	0.01	148.0	25.7	690	1.73	3.04	1.92	1.18	19.6	3.69	2.4	0.69	11.7
40386565		1.54	0.02	0.01	145.5	24.4	430	1.84	3.45	1.83	1.13	18.1	3.51	2.1	0.66	10.7
40386566		2.34	0.02	0.01	155.0	30.0	270	2.18	3.81	2.14	1.22	19.3	4.37	2.7	0.77	13.7
40386567		2.62	0.02	0.01	156.5	34.2	270	1.95	4.47	2.26	1.40	20.0	5.07	3.5	0.89	15.4
40386568		1.35	0.01	0.01	171.0	26.7	260	1.80	3.52	1.87	1.23	19.5	3.60	2.5	0.69	12.1
40386569		3.00	0.06	0.05	433	25.1	320	2.56	3.76	1.90	1.21	20.6	4.05	2.4	0.68	10.9
40386570		2.08	0.03	0.36	357	28.8	2510	2.55	3.54	2.03	1.18	21.4	3.97	2.6	0.67	13.2
40386571		2.09	0.03	0.04	203	25.6	260	2.08	3.42	2.05	1.17	19.1	3.94	2.3	0.68	11.8
40386572		1.09	0.02	0.05	180.5	26.4	800	2.13	3.65	1.99	1.04	21.8	3.53	2.6	0.68	11.7
40386573		0.88	0.02	0.03	151.0	23.5	1000	1.74	3.31	1.77	1.19	19.1	3.56	2.3	0.61	10.6
40386574		1.00	0.01	0.03	170.5	32.1	770	1.86	4.02	2.34	1.38	20.9	4.70	3.3	0.89	14.3
40386575		0.70	0.02	0.03	152.5	22.3	230	1.95	3.12	1.71	1.15	21.4	3.36	2.2	0.56	10.1
40386576		0.33	0.01	0.02	132.5	22.5	210	1.56	2.71	1.58	1.10	18.0	3.14	2.4	0.56	10.0
40386577		0.40	0.01	0.04	180.0	25.8	200	1.84	3.36	2.04	1.11	19.7	3.61	2.8	0.68	11.7
40386578		0.48	0.01	0.03	148.5	22.0	160	2.14	2.85	1.64	0.98	18.5	2.99	1.9	0.57	9.9
40386579		0.81	0.01	0.03	178.5	29.8	240	1.75	3.97	2.28	1.42	20.5	3.96	2.6	0.78	13.5
40386580		0.94	0.01	0.03	169.0	29.6	200	1.66	3.75	2.19	1.28	19.3	4.13	3.0	0.75	13.3
40386581		1.05	0.01	0.04	197.5	37.6	350	1.78	4.89	2.95	1.59	23.2	5.45	3.9	0.97	16.9
40386582		1.26	0.02	0.03	175.0	31.2	360	2.29	4.43	2.31	1.42	23.1	4.60	3.3	0.86	13.9
40386583		0.86	0.04	0.05	169.5	30.3	270	1.80	4.80	2.32	1.48	20.6	4.55	3.1	0.78	13.6
40386584		0.98	0.02	0.06	168.0	28.9	320	2.25	4.27	2.45	1.27	19.9	4.02	2.8	0.80	13.1
40386585		1.43	0.01	0.04	201	30.4	230	1.79	4.48	2.51	1.33	21.5	4.18	3.1	0.85	14.0
40386586		0.77	0.01	0.05	196.0	35.6	280	2.02	4.93	2.63	1.39	20.8	5.09	3.4	0.90	21.5
40386587		1.44	0.03	0.04	263	34.7	380	2.39	4.73	2.59	1.64	21.9	4.87	3.3	0.91	15.1
40386588		0.97	0.01	0.05	243	32.6	410	1.93	4.70	2.82	1.49	21.4	4.84	3.3	0.92	14.1
40386589		0.59	0.01	0.06	186.5	31.4	430	1.69	4.27	2.41	1.41	22.4	4.90	3.0	0.92	13.8
40386590		0.37	0.05	0.10	1130	70.1	20	1.37	6.96	3.26	1.90	23.5	7.45	8.4	1.27	30.8
40386591		0.65	0.02	0.07	193.0	35.3	300	1.74	5.05	2.78	1.51	21.2	5.15	3.6	1.01	15.4
40386592		0.54	0.02	0.07	209	36.9	260	1.60	5.62	2.89	1.71	22.7	5.24	3.8	0.96	16.8
40386593		0.70	0.01	0.07	216	36.3	270	1.72	5.08	2.98	1.72	21.3	4.99	4.1	1.07	16.4
40386594		1.27	0.02	0.06	408	40.3	270	2.32	5.35	2.89	1.73	21.2	5.46	4.2	1.13	18.4





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To: RIO TINTO EXPLORATION CANADA INC.  
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 Account: RTEICKBZ

Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386555		0.19	4.0	8.0	1.80	4.8	2.02	<1	245	0.3	0.34	0.64	0.15	0.17	98	<1
40386556		0.16	4.0	8.5	2.02	5.7	2.17	1	254	0.3	0.29	0.65	0.17	0.13	91	<1
40386557		0.14	3.5	8.2	1.87	8.0	1.89	<1	266	0.3	0.33	0.74	0.12	0.23	80	<1
40386558		0.15	3.4	7.6	1.57	4.2	1.59	<1	251	0.3	0.35	0.58	0.11	0.11	77	1
40386559		0.12	3.6	7.4	1.74	5.1	1.68	1	282	0.3	0.31	0.62	0.14	0.15	72	<1
40386560		0.44	14.1	37.3	9.05	104.5	8.25	2	531	0.7	1.10	3.83	0.53	1.39	125	<1
40386561		0.12	3.3	7.3	1.75	4.2	1.77	<1	282	0.3	0.30	0.57	0.14	0.18	71	<1
40386562		0.12	3.9	7.8	1.80	4.3	2.13	1	290	0.3	0.30	0.54	0.10	0.12	79	<1
40386563		0.13	5.6	9.6	2.16	7.7	2.06	<1	299	0.4	0.32	0.75	0.15	0.18	89	<1
40386564		0.26	7.4	14.3	3.27	10.6	3.60	1	299	0.5	0.56	1.03	0.24	0.29	150	<1
40386565		0.24	7.0	13.7	3.29	10.1	3.56	1	285	0.5	0.59	1.04	0.22	0.29	145	<1
40386566		0.29	8.3	17.7	4.02	11.3	4.21	1	285	0.5	0.70	1.32	0.28	0.32	156	<1
40386567		0.33	9.3	19.4	4.46	10.7	4.27	1	272	0.7	0.77	1.54	0.36	0.38	187	<1
40386568		0.29	7.7	15.8	3.46	17.2	3.51	1	324	0.6	0.62	1.03	0.26	0.28	150	<1
40386569		0.30	7.1	13.8	3.25	30.3	3.13	1	345	0.6	0.66	1.03	0.26	0.26	174	<1
40386570		0.26	7.7	15.5	3.76	37.9	3.92	2	428	0.5	0.64	1.27	0.28	0.32	191	<1
40386571		0.24	7.7	15.1	3.41	22.8	3.70	1	330	0.6	0.56	1.07	0.24	0.34	145	<1
40386572		0.24	7.5	15.7	3.49	19.3	3.75	1	350	0.6	0.60	1.21	0.32	0.39	158	<1
40386573		0.21	6.4	13.6	3.09	11.9	3.12	1	291	0.5	0.53	0.99	0.23	0.28	167	2
40386574		0.32	10.9	18.4	4.12	13.7	4.67	1	302	0.7	0.64	1.43	0.31	0.35	202	<1
40386575		0.22	6.3	11.8	2.92	12.2	2.99	1	320	0.5	0.46	0.90	0.21	0.27	129	<1
40386576		0.25	6.2	12.0	2.94	9.0	2.87	1	282	0.4	0.46	0.97	0.22	0.25	128	<1
40386577		0.28	7.5	15.0	3.35	16.7	3.33	1	287	0.5	0.63	1.12	0.26	0.27	156	1
40386578		0.20	5.9	11.6	2.73	15.9	2.83	1	310	0.4	0.44	0.90	0.20	0.22	115	<1
40386579		0.29	8.4	15.9	3.77	13.7	3.88	1	292	0.6	0.66	1.37	0.30	0.32	157	<1
40386580		0.28	8.6	16.6	4.01	13.0	4.00	1	273	0.6	0.66	1.28	0.26	0.37	146	<1
40386581		0.37	10.9	21.9	4.99	12.6	4.71	1	292	0.7	0.88	1.63	0.37	0.40	241	1
40386582		0.32	8.9	17.5	4.04	12.7	4.40	1	301	0.7	0.77	1.29	0.32	0.52	185	<1
40386583		0.32	8.8	17.5	4.02	10.8	4.08	1	267	0.6	0.70	1.46	0.29	0.48	177	<1
40386584		0.30	7.9	16.2	3.90	11.8	3.92	1	264	0.5	0.66	1.17	0.28	0.38	179	<1
40386585		0.34	8.6	17.4	4.29	18.7	4.14	1	305	0.7	0.71	1.37	0.30	0.40	166	<1
40386586		0.35	9.7	21.4	4.73	14.1	4.78	1	271	0.6	0.80	1.48	0.39	0.43	265	2
40386587		0.35	9.3	19.9	4.90	17.7	4.66	1	287	0.7	0.84	1.52	0.42	0.36	221	<1
40386588		0.35	9.1	17.9	4.50	17.2	4.69	1	288	0.7	0.78	1.42	0.38	0.33	224	<1
40386589		0.33	8.3	17.9	4.12	13.0	4.81	1	285	0.6	0.77	1.24	0.31	0.32	244	<1
40386590		0.49	15.7	40.2	9.35	112.5	8.76	2	632	0.9	1.17	3.85	0.51	1.83	124	<1
40386591		0.31	9.6	20.1	4.68	14.6	4.80	1	272	0.7	0.81	1.54	0.38	0.37	240	<1
40386592		0.41	11.1	21.4	4.95	15.1	4.72	1	286	0.6	0.87	1.49	0.46	0.41	267	<1
40386593		0.40	10.7	21.5	4.85	18.6	4.95	2	285	0.6	0.78	1.48	0.45	0.37	243	1
40386594		0.42	11.7	24.0	5.44	28.7	5.46	2	292	0.7	0.83	1.89	0.46	0.81	233	<1



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**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40386555		10.6	1.01	55	0.3	0.01	<0.005	0.015	0.001	<0.05	<0.2	0.01	0.02	0.04	0.08	63.6
40386556		10.2	1.00	58	0.2	0.01	<0.005	0.013	<0.001	<0.05	0.5	<0.01	0.02	0.03	0.08	58.3
40386557		9.4	0.70	51	0.4	<0.01	<0.005	0.013	0.001	<0.05	0.2	0.01	0.03	0.02	0.07	58.2
40386558		9.2	0.84	55	0.2	<0.01	<0.005	0.014	<0.001	<0.05	0.2	0.01	0.02	0.03	0.08	64.7
40386559		9.5	0.85	52	0.1	<0.01	<0.005	0.013	<0.001	<0.05	0.4	0.02	0.02	0.02	0.06	58.6
40386560		35.6	3.49	280	0.5	0.02	<0.005	0.038	<0.001	<0.05	0.2	0.02	0.39	0.03	0.09	16.5
40386561		9.4	0.84	44	0.2	<0.01	<0.005	0.014	<0.001	<0.05	0.3	0.01	0.02	0.04	0.08	60.9
40386562		10.3	0.90	56	0.3	0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.02	0.03	0.09	61.3
40386563		10.5	0.98	59	0.1	0.01	<0.005	0.014	<0.001	<0.05	0.3	0.01	0.02	0.04	0.08	57.2
40386564		18.1	1.62	95	0.2	<0.01	<0.005	0.013	0.001	<0.05	0.3	0.01	0.03	0.05	0.10	47.5
40386565		18.7	1.74	95	0.3	0.01	<0.005	0.014	<0.001	<0.05	<0.2	0.01	0.05	0.04	0.09	48.2
40386566		21.1	2.02	112	0.8	0.01	<0.005	0.015	<0.001	<0.05	0.2	<0.01	0.09	0.04	0.12	46.7
40386567		25.3	2.55	137	0.6	0.01	<0.005	0.019	<0.001	0.05	<0.2	0.01	0.14	0.08	0.13	46.4
40386568		19.6	1.91	105	1.4	0.01	0.006	0.015	<0.001	0.05	0.2	<0.01	0.15	0.06	0.11	54.0
40386569		19.3	1.88	98	3.7	0.01	0.008	0.017	0.001	0.09	<0.2	0.01	0.78	0.06	0.11	48.9
40386570		19.6	2.00	106	4.1	0.14	0.012	0.030	0.003	0.36	0.8	0.07	0.45	0.46	0.27	59.1
40386571		19.5	1.86	102	4.1	0.01	0.005	0.018	0.001	0.09	<0.2	0.01	0.38	0.06	0.11	47.7
40386572		19.9	1.76	109	1.1	0.01	0.005	0.017	<0.001	0.09	<0.2	0.01	0.21	0.04	0.11	51.4
40386573		17.3	1.79	97	1.0	0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.06	0.04	0.10	49.0
40386574		23.1	2.17	127	0.3	0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.08	0.05	0.14	56.5
40386575		16.0	1.60	94	1.0	0.02	<0.005	0.015	<0.001	0.06	<0.2	0.01	0.04	0.05	0.11	50.0
40386576		16.0	1.62	97	1.4	0.02	<0.005	0.018	<0.001	0.05	0.2	<0.01	0.03	0.05	0.11	58.4
40386577		19.5	1.86	112	0.3	0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.04	0.06	0.10	56.8
40386578		15.5	1.60	78	1.1	0.01	<0.005	0.017	<0.001	<0.05	0.2	0.01	0.03	0.05	0.10	50.7
40386579		20.6	1.92	112	1.4	0.01	0.005	0.023	0.001	0.06	0.3	0.01	0.04	0.07	0.11	48.2
40386580		20.9	1.72	117	1.5	0.01	<0.005	0.021	<0.001	0.05	0.2	0.02	0.04	0.06	0.10	47.2
40386581		27.5	2.95	140	0.8	0.01	<0.005	0.022	<0.001	0.05	0.2	0.01	0.04	0.07	0.11	47.4
40386582		22.0	2.17	126	1.6	0.02	<0.005	0.022	<0.001	0.05	0.2	0.01	0.05	0.07	0.12	54.3
40386583		23.0	2.17	122	0.4	0.01	0.005	0.021	0.001	0.05	0.2	<0.01	0.04	0.07	0.11	51.0
40386584		21.2	2.20	116	0.4	0.01	<0.005	0.019	<0.001	<0.05	0.3	0.01	0.06	0.07	0.11	50.7
40386585		23.1	2.43	132	0.7	0.01	<0.005	0.020	<0.001	<0.05	0.3	0.01	0.11	0.06	0.13	46.9
40386586		26.8	2.61	136	0.7	0.01	<0.005	0.021	0.001	<0.05	<0.2	0.01	0.10	0.07	0.12	53.3
40386587		25.6	2.52	130	0.9	0.01	<0.005	0.018	<0.001	<0.05	0.2	0.01	0.17	0.07	0.14	47.4
40386588		25.3	2.43	128	0.3	0.01	<0.005	0.020	0.001	<0.05	0.2	0.02	0.16	0.09	0.12	47.6
40386589		24.9	2.38	123	0.3	0.01	<0.005	0.019	<0.001	<0.05	0.2	0.01	0.08	0.09	0.13	49.1
40386590		37.6	3.69	336	0.3	0.01	<0.005	0.028	<0.001	<0.05	<0.2	0.01	0.38	0.03	0.07	15.0
40386591		26.4	2.60	134	0.4	0.01	<0.005	0.024	0.001	<0.05	0.3	0.01	0.07	0.08	0.13	45.2
40386592		28.0	2.86	147	0.3	0.01	<0.005	0.023	0.001	<0.05	0.4	0.01	0.06	0.08	0.13	49.8
40386593		26.6	2.80	144	0.6	0.01	<0.005	0.023	0.001	<0.05	0.2	0.01	0.10	0.08	0.14	51.2
40386594		28.4	2.86	159	0.8	0.01	<0.005	0.026	0.001	0.05	0.3	0.01	0.16	0.06	0.14	45.4



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 Account: RTEICKBZ

Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386555		78.6	6.7	0.56	470	1.3	12.8	76	0.002	0.0209	0.039
40386556		66.5	5.8	0.55	438	1.2	11.1	71	0.002	0.0155	0.008
40386557		58.7	9.8	0.48	470	1.5	9.7	67	0.001	0.0040	0.005
40386558		60.2	4.9	0.50	528	1.1	10.3	71	0.004	0.0072	0.009
40386559		57.4	5.4	0.49	458	1.0	9.1	65	0.002	0.0069	0.011
40386560		17.5	17.5	0.85	14.3	11.5	14.9	91	<0.001	<0.0005	0.001
40386561		63.6	8.9	0.50	447	1.4	11.0	68	0.001	0.0034	0.005
40386562		67.7	7.3	0.49	443	1.3	11.2	70	0.001	0.0029	0.004
40386563		87.5	8.1	0.52	383	1.1	12.0	78	0.001	0.0058	0.011
40386564		112.5	8.3	0.70	273	1.7	19.7	79	0.001	0.0049	0.011
40386565		107.0	10.6	0.71	281	1.5	20.1	78	0.002	0.0043	0.006
40386566		116.5	12.0	0.74	265	1.6	19.5	83	0.001	0.0040	0.005
40386567		133.5	11.9	0.91	232	2.0	24.4	90	0.001	0.0038	0.004
40386568		122.0	14.2	0.68	336	1.6	17.0	86	0.001	0.0056	0.007
40386569		120.5	27.6	0.78	290	3.4	21.5	84	0.001	0.0052	0.005
40386570		1050	34.2	2.74	650	5.5	16.8	103	0.027	0.0540	0.209
40386571		110.5	18.1	0.74	239	1.4	19.5	87	0.002	0.0061	0.013
40386572		116.5	13.0	0.80	262	1.6	16.1	89	0.003	0.0075	0.007
40386573		108.0	9.8	0.74	248	1.5	21.9	83	0.002	0.0075	0.008
40386574		140.5	10.4	0.90	267	2.0	25.4	103	0.010	0.0084	0.024
40386575		118.5	10.1	0.61	249	1.3	16.2	85	0.003	0.0075	0.007
40386576		124.0	8.9	0.62	305	1.3	16.6	94	0.003	0.0070	0.006
40386577		152.5	10.2	0.69	256	1.7	20.9	100	0.003	0.0078	0.008
40386578		144.0	13.3	0.98	238	2.9	12.9	87	0.003	0.0064	0.005
40386579		159.5	12.1	0.97	123.5	2.2	19.6	103	0.004	0.0166	0.010
40386580		162.0	11.5	0.90	120.0	2.1	15.8	105	0.005	0.0182	0.010
40386581		183.0	11.4	0.96	103.5	2.0	26.5	111	0.005	0.0188	0.012
40386582		182.0	12.5	0.84	131.0	1.5	22.7	112	0.005	0.0246	0.016
40386583		173.5	11.6	0.92	115.5	2.2	23.3	103	0.003	0.0264	0.024
40386584		174.5	11.6	0.87	117.0	2.1	22.0	101	0.004	0.0155	0.012
40386585		174.5	13.0	0.83	104.5	1.7	22.1	104	0.003	0.0091	0.007
40386586		196.0	10.8	1.03	119.5	2.2	29.4	113	0.004	0.0088	0.005
40386587		207	13.5	0.92	95.2	2.0	30.7	106	0.004	0.0092	0.004
40386588		216	12.5	0.94	96.3	2.0	34.4	102	0.004	0.0127	0.012
40386589		219	11.1	0.96	104.0	2.3	36.1	103	0.004	0.0261	0.021
40386590		18.4	19.3	1.01	9.6	12.6	14.1	90	0.001	<0.0005	0.001
40386591		222	10.3	1.09	82.5	2.6	33.8	105	0.004	0.0177	0.010
40386592		230	11.0	1.05	92.1	2.6	32.4	113	0.003	0.0102	0.007
40386593		217	11.8	1.08	99.4	3.0	33.0	114	0.003	0.0050	0.002
40386594		174.5	14.0	1.06	96.8	2.8	28.2	110	0.003	0.0079	0.005



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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386595		6.29	47.9	16.90	12.95	10.25	7.33	2.70	0.65	0.034	1.72	0.18	0.20	0.04	0.02	101.38
40386596		6.34	47.0	15.95	12.50	10.65	7.38	2.52	0.58	0.051	1.68	0.17	0.18	0.03	0.02	99.33
40386597		6.23	46.7	15.75	12.45	10.65	7.17	2.52	0.62	0.050	1.82	0.18	0.19	0.04	0.02	98.79
40386598		6.17	46.0	15.55	12.00	11.15	7.10	2.37	0.71	0.058	1.66	0.17	0.19	0.03	0.04	98.62
40386599		6.14	46.6	15.55	13.05	10.25	7.88	2.44	0.59	0.052	1.70	0.18	0.19	0.03	0.02	99.46
40386600		0.17	44.3	18.30	12.20	9.53	7.58	2.10	1.09	0.369	1.37	0.15	0.17	0.05	0.04	99.22
40386601		6.31	46.4	15.55	12.75	10.40	8.16	2.26	0.73	0.057	1.61	0.18	0.20	0.04	0.03	99.94
40386602		6.39	46.8	16.30	12.90	10.40	7.82	2.49	0.49	0.049	1.77	0.18	0.19	0.03	0.02	100.17
40386603		6.47	46.7	16.00	13.45	10.25	8.58	2.44	0.47	0.048	1.72	0.18	0.18	0.03	0.02	100.58
40386604		6.40	46.3	16.10	13.15	10.05	8.37	2.47	0.47	0.046	1.71	0.18	0.20	0.03	0.02	99.78
40386605		6.59	46.5	16.35	13.25	10.05	8.62	2.46	0.47	0.050	1.61	0.18	0.17	0.03	0.02	100.26
40386606		6.49	46.0	16.05	13.80	9.56	9.00	2.44	0.49	0.041	1.51	0.18	0.18	0.03	0.02	99.74
40386607		6.53	46.0	16.70	12.65	10.20	8.48	2.38	0.49	0.049	1.46	0.17	0.16	0.03	0.02	99.34
40386608		6.45	46.3	17.05	12.25	10.40	7.87	2.46	0.48	0.049	1.49	0.17	0.16	0.03	0.02	99.33
40386609		2.90	46.6	17.20	11.95	10.50	7.45	2.57	0.49	0.045	1.52	0.16	0.18	0.03	0.02	99.47
40386610		2.89	46.4	17.15	12.15	10.30	7.43	2.57	0.48	0.041	1.50	0.17	0.17	0.03	0.02	99.11
40386611		6.19	46.5	17.15	12.50	10.25	7.79	2.49	0.53	0.044	1.59	0.17	0.18	0.03	0.02	99.96
40386612		6.03	45.6	16.60	12.45	9.19	7.96	1.99	1.57	0.047	1.56	0.17	0.16	0.06	0.08	100.50
40386613		6.09	46.7	16.75	12.95	10.05	8.42	2.46	0.58	0.044	1.53	0.18	0.17	0.03	0.02	100.39
40386614		6.26	47.1	17.45	12.25	10.25	7.61	2.65	0.51	0.041	1.55	0.17	0.20	0.03	0.02	100.32
40386615		6.51	45.9	14.75	14.95	9.42	9.21	2.39	0.47	0.035	1.95	0.21	0.23	0.03	0.02	100.14
40386616		6.53	47.2	17.35	12.40	10.60	7.59	2.59	0.46	0.042	1.81	0.17	0.18	0.03	0.02	100.99
40386617		6.38	47.0	17.45	12.20	10.50	7.53	2.65	0.45	0.040	1.76	0.16	0.18	0.03	0.02	100.65
40386618		6.37	47.3	17.90	12.25	10.70	7.78	2.61	0.43	0.043	1.78	0.16	0.18	0.03	0.02	101.65
40386619		6.36	46.8	17.90	11.80	10.55	7.64	2.60	0.41	0.038	1.61	0.16	0.18	0.03	0.02	100.30
40386620		2.14	57.4	18.25	7.34	6.30	2.57	3.86	2.57	0.004	1.00	0.12	0.34	0.07	0.12	100.39
40386621		6.41	47.1	18.00	11.70	10.60	7.76	2.59	0.43	0.039	1.54	0.16	0.17	0.03	0.02	100.70
40386622		6.28	47.3	18.10	11.65	10.80	7.82	2.56	0.43	0.043	1.56	0.16	0.17	0.03	0.02	101.23
40386623		6.30	47.6	18.35	11.70	10.85	7.80	2.57	0.42	0.041	1.51	0.16	0.17	0.03	0.02	101.82
40386624		6.35	47.4	18.30	11.70	10.85	7.69	2.53	0.43	0.041	1.47	0.16	0.18	0.03	0.02	101.42
40386625		6.21	47.4	18.25	12.45	10.15	7.60	2.61	0.45	0.034	1.50	0.16	0.18	0.03	0.02	101.37
40386626		6.39	47.2	17.95	12.95	10.00	8.00	2.56	0.44	0.031	1.47	0.17	0.16	0.03	0.02	101.55
40386627		6.32	47.2	17.90	13.10	9.63	7.80	2.68	0.49	0.024	1.44	0.17	0.17	0.03	0.02	101.17
40386628		6.27	46.0	15.15	14.10	9.33	6.49	3.07	0.49	0.022	2.39	0.19	0.30	0.03	0.03	98.44
40386629		5.89	43.4	12.75	14.75	9.62	9.02	2.40	0.23	0.028	1.92	0.22	0.23	0.02	0.01	98.82
40386630		0.17	43.7	18.40	12.15	9.45	7.58	2.16	1.10	0.359	1.37	0.15	0.16	0.05	0.04	98.81
40386631		6.04	45.1	17.35	12.30	9.78	8.97	2.44	0.39	0.036	1.37	0.16	0.17	0.03	0.02	98.88
40386632		6.11	45.0	17.20	11.95	9.84	9.24	2.42	0.37	0.038	1.37	0.16	0.16	0.03	0.02	98.41
40386633		6.27	45.7	17.75	11.60	10.20	8.64	2.48	0.40	0.035	1.42	0.16	0.14	0.03	0.02	99.14
40386634		6.35	45.5	18.00	11.40	10.20	8.42	2.49	0.39	0.036	1.42	0.15	0.16	0.03	0.02	99.11





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**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386595		0.51	0.02	0.06	203	34.5	240	1.82	4.76	2.94	1.52	22.8	4.73	3.5	1.03	15.5
40386596		0.62	0.01	0.05	185.0	32.7	360	1.90	4.83	2.66	1.52	21.3	4.72	3.4	1.00	14.5
40386597		0.63	0.01	0.07	213	33.5	370	1.90	4.97	2.75	1.66	22.2	4.92	3.6	1.04	14.9
40386598		1.59	0.10	0.06	322	30.6	390	2.11	4.76	2.48	1.58	21.1	4.55	3.3	0.94	13.5
40386599		0.93	0.01	0.06	219	34.7	390	2.27	5.05	2.67	1.58	22.6	4.58	4.3	1.04	15.1
40386600		1.97	0.04	0.34	329	27.6	2620	2.51	3.70	2.16	1.31	20.6	3.64	2.7	0.76	12.6
40386601		1.57	0.02	0.05	220	29.8	400	2.14	4.58	2.51	1.56	19.9	4.37	3.2	0.90	13.5
40386602		0.73	0.01	0.06	162.0	30.5	340	1.76	4.17	2.27	1.42	21.5	4.32	3.4	0.96	13.5
40386603		0.51	0.01	0.07	160.5	30.6	330	1.95	4.53	2.44	1.43	20.4	4.33	3.3	0.95	13.7
40386604		0.68	0.01	0.07	171.0	32.8	330	2.17	4.77	2.64	1.53	20.9	4.58	3.7	1.03	14.4
40386605		0.50	0.01	0.07	162.5	30.4	350	1.88	4.40	2.46	1.50	20.5	4.22	3.5	0.93	13.5
40386606		0.44	0.01	0.06	170.0	29.7	290	1.70	4.13	2.40	1.41	20.4	4.41	3.3	0.79	13.0
40386607		0.55	0.01	0.07	157.0	26.9	350	1.44	4.09	2.07	1.46	21.0	3.94	2.8	0.84	12.3
40386608		0.60	0.01	0.05	154.0	28.6	350	1.59	4.26	2.36	1.32	22.2	3.97	2.8	0.83	12.9
40386609		0.75	<0.01	0.05	165.0	30.1	310	1.56	4.25	2.31	1.41	20.8	3.99	3.1	0.91	13.3
40386610		0.70	0.01	0.05	158.5	29.8	290	1.62	4.08	2.57	1.39	21.2	4.07	3.2	0.91	13.4
40386611		0.72	<0.01	0.05	169.0	28.3	310	1.65	4.41	2.27	1.45	21.4	4.22	3.5	0.88	12.7
40386612		3.06	0.03	0.06	713	27.6	330	4.23	3.98	2.20	1.39	20.4	4.16	3.3	0.81	12.7
40386613		0.51	0.01	0.06	205	33.1	310	1.56	4.36	2.29	1.48	20.5	4.47	3.0	0.92	15.0
40386614		0.49	<0.01	0.06	177.5	32.8	290	1.28	4.49	2.29	1.59	23.3	4.45	3.3	1.00	14.9
40386615		0.57	0.01	0.07	159.5	34.2	230	1.58	5.01	2.47	1.56	18.9	4.94	3.8	1.09	15.4
40386616		0.55	<0.01	0.05	165.0	30.2	290	1.29	4.25	2.24	1.45	20.4	4.22	3.4	0.90	13.8
40386617		0.68	<0.01	0.06	175.5	31.7	290	1.38	4.52	2.57	1.60	23.1	4.64	3.7	1.00	14.5
40386618		0.47	<0.01	0.05	156.0	28.8	300	1.27	4.30	2.34	1.31	22.1	4.22	3.0	0.90	12.6
40386619		0.56	0.03	0.05	156.5	28.2	270	1.21	3.85	2.33	1.46	21.2	4.01	3.0	0.82	12.8
40386620		0.45	0.05	0.08	1025	71.5	30	1.22	6.86	3.71	1.92	24.9	7.48	8.0	1.42	31.3
40386621		0.56	<0.01	0.05	162.0	29.1	280	1.31	4.37	2.39	1.37	21.4	3.99	3.2	0.88	12.9
40386622		0.59	<0.01	0.05	155.5	28.1	290	1.16	4.13	2.04	1.44	20.6	4.02	3.1	0.83	12.4
40386623		0.60	<0.01	0.06	156.5	27.3	280	1.11	4.12	2.06	1.43	21.3	3.76	2.9	0.81	12.6
40386624		0.62	<0.01	0.06	153.0	28.4	270	1.21	3.76	2.30	1.36	21.4	4.10	2.9	0.79	12.5
40386625		0.54	0.01	0.05	168.5	31.0	250	1.16	4.34	2.29	1.32	22.9	4.40	3.3	0.93	13.8
40386626		0.57	0.01	0.05	160.5	28.7	230	1.16	3.78	2.11	1.34	21.6	4.00	2.8	0.81	13.1
40386627		0.52	0.01	0.05	177.0	30.6	170	1.06	3.99	2.20	1.28	21.0	4.09	3.0	0.90	13.5
40386628		0.85	0.01	0.09	219	50.8	160	0.82	6.80	4.09	1.92	25.0	7.15	5.0	1.55	22.7
40386629		4.22	0.03	0.03	114.0	37.1	200	1.01	5.67	3.16	1.48	21.5	5.98	4.4	1.16	16.2
40386630		2.14	0.03	0.34	329	25.9	2620	2.57	3.63	1.95	1.27	23.3	3.99	2.8	0.81	12.0
40386631		0.76	0.01	0.03	159.5	27.0	260	1.15	3.78	2.10	1.23	22.7	4.17	3.0	0.70	12.0
40386632		0.61	<0.01	0.03	151.5	25.0	270	1.05	3.87	2.06	1.08	21.5	4.13	2.9	0.80	11.6
40386633		0.56	0.01	0.03	153.5	26.5	250	0.89	3.61	2.15	1.28	22.0	4.05	2.9	0.80	12.0
40386634		0.89	<0.01	0.03	154.0	26.4	250	1.07	3.52	2.15	1.11	22.4	3.99	2.9	0.75	12.0





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To: RIO TINTO EXPLORATION CANADA INC.  
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 Account: RTECIKBZ

Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386595		0.36	10.3	20.8	4.58	17.8	4.90	1	302	0.6	0.83	1.50	0.35	0.49	213	1
40386596		0.32	9.3	19.5	4.13	16.1	4.73	1	289	0.6	0.78	1.43	0.39	0.39	234	1
40386597		0.37	10.6	20.8	4.51	18.1	5.01	1	301	0.6	0.86	1.37	0.39	0.46	258	1
40386598		0.30	9.0	19.1	3.98	21.0	4.43	1	271	0.6	0.79	1.25	0.37	0.40	233	1
40386599		0.40	10.1	20.3	4.53	17.5	4.78	1	291	0.6	0.85	1.58	0.41	0.42	250	1
40386600		0.26	8.2	16.5	3.69	35.5	3.81	2	397	0.5	0.61	1.19	0.32	0.33	175	2
40386601		0.31	8.9	18.7	3.99	22.6	4.55	1	363	0.5	0.72	1.32	0.36	0.40	217	1
40386602		0.29	9.1	18.9	4.10	12.0	4.68	1	256	0.6	0.78	1.28	0.34	0.35	230	1
40386603		0.33	9.4	18.7	3.99	12.0	4.32	1	244	0.5	0.69	1.32	0.37	0.35	211	1
40386604		0.35	10.2	19.3	4.29	12.1	4.66	1	255	0.6	0.79	1.46	0.36	0.41	215	1
40386605		0.29	9.2	18.1	4.04	11.6	4.09	1	245	0.5	0.74	1.34	0.37	0.41	196	1
40386606		0.29	8.7	17.1	3.94	12.9	4.23	1	259	0.5	0.64	1.33	0.32	0.40	196	<1
40386607		0.28	8.2	16.6	3.64	12.9	4.09	1	270	0.5	0.61	1.21	0.33	0.35	196	1
40386608		0.26	8.2	16.7	3.69	12.6	4.20	1	273	0.5	0.66	1.22	0.34	0.37	199	1
40386609		0.32	8.8	18.4	3.98	12.8	4.30	1	282	0.5	0.65	1.32	0.30	0.33	198	1
40386610		0.29	8.7	18.0	4.03	12.7	4.39	1	276	0.5	0.64	1.38	0.35	0.35	193	1
40386611		0.30	8.9	16.8	3.67	14.5	3.86	1	289	0.5	0.71	1.27	0.33	0.37	196	1
40386612		0.28	8.9	16.5	3.65	53.8	3.99	1	542	0.5	0.71	1.28	0.32	0.35	207	1
40386613		0.32	9.1	19.4	4.17	16.3	4.25	1	283	0.5	0.75	1.99	0.29	0.37	196	1
40386614		0.34	9.7	19.2	4.38	13.2	4.41	1	272	0.6	0.76	1.47	0.34	0.38	191	1
40386615		0.35	10.6	20.2	4.63	11.2	4.52	1	214	0.6	0.82	1.52	0.39	0.39	200	1
40386616		0.30	9.7	17.7	3.95	11.5	4.10	1	261	0.5	0.69	1.35	0.36	0.33	213	1
40386617		0.35	9.8	18.2	4.06	11.7	4.52	1	275	0.6	0.68	1.35	0.36	0.36	230	1
40386618		0.35	9.3	16.6	3.85	10.1	4.45	1	267	0.6	0.67	1.29	0.40	0.30	214	1
40386619		0.27	8.4	16.9	3.82	10.2	4.17	1	268	0.5	0.65	1.29	0.31	0.35	203	1
40386620		0.54	14.1	40.9	9.65	105.0	8.91	2	584	0.7	1.18	4.73	0.58	1.72	129	1
40386621		0.29	8.9	17.3	3.70	10.4	4.06	1	277	0.5	0.66	1.19	0.35	0.33	203	1
40386622		0.27	8.6	16.5	3.72	9.9	3.82	1	269	0.5	0.68	1.30	0.31	0.33	186	1
40386623		0.27	8.4	15.8	3.61	9.8	3.69	1	267	0.5	0.62	1.16	0.33	0.32	184	1
40386624		0.27	8.5	16.3	3.64	9.9	4.16	1	266	0.5	0.61	1.13	0.30	0.31	181	1
40386625		0.30	9.4	18.1	4.07	11.3	4.19	1	284	0.5	0.77	1.32	0.34	0.38	198	1
40386626		0.27	8.6	16.2	3.87	10.3	4.02	1	265	0.5	0.62	1.27	0.35	0.35	187	1
40386627		0.31	8.8	17.6	4.09	12.0	4.23	1	272	0.5	0.65	1.21	0.35	0.39	173	1
40386628		0.47	14.0	29.1	6.48	13.2	6.89	2	254	0.9	1.12	2.26	0.55	0.65	320	1
40386629		0.41	12.1	22.4	4.97	6.3	4.75	1	148.5	0.7	0.90	1.91	0.44	0.53	259	3
40386630		0.26	7.9	15.8	3.37	35.3	3.82	2	399	0.4	0.67	1.13	0.32	0.39	190	1
40386631		0.30	7.9	15.4	3.58	9.5	3.87	1	257	0.4	0.72	1.20	0.31	0.27	194	1
40386632		0.30	8.0	15.6	3.39	8.5	3.98	1	257	0.5	0.59	1.11	0.30	0.30	171	1
40386633		0.32	7.7	15.3	3.43	9.7	3.94	1	263	0.5	0.61	1.24	0.33	0.34	174	1
40386634		0.31	8.0	15.5	3.41	9.5	3.92	1	262	0.4	0.68	1.22	0.33	0.30	174	1



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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386595		25.7	2.56	143	0.1	0.01	0.005	0.020	<0.001	<0.05	0.3	0.01	0.11	0.09	0.12	48.9
40386596		24.7	2.15	122	0.6	0.01	<0.005	0.019	<0.001	0.05	0.3	0.02	0.15	0.07	0.14	46.6
40386597		26.9	2.79	141	0.5	0.01	<0.005	0.021	0.001	<0.05	0.3	0.02	0.14	0.08	0.13	46.6
40386598		23.5	2.39	125	0.6	0.01	0.006	0.021	0.001	<0.05	0.3	0.01	0.24	0.09	0.15	48.8
40386599		26.3	2.54	150	0.3	0.03	<0.005	0.023	0.001	<0.05	0.3	0.01	0.17	0.08	0.15	52.6
40386600		18.7	1.82	105	4.7	0.16	0.010	0.034	0.002	0.38	1.0	0.06	0.40	0.49	0.26	62.0
40386601		23.3	2.23	120	0.7	0.03	<0.005	0.024	0.002	<0.05	0.5	0.01	0.22	0.10	0.17	53.9
40386602		23.2	2.23	121	0.4	0.03	<0.005	0.023	<0.001	<0.05	0.3	0.01	0.09	0.08	0.15	54.2
40386603		23.3	2.25	127	0.1	0.03	<0.005	0.020	0.002	<0.05	0.4	0.02	0.08	0.08	0.13	57.8
40386604		24.6	2.56	136	0.3	0.03	<0.005	0.023	0.001	<0.05	0.4	0.01	0.08	0.07	0.12	51.4
40386605		22.4	2.03	139	0.3	0.03	<0.005	0.023	0.001	<0.05	0.3	0.01	0.08	0.08	0.13	54.3
40386606		21.8	2.27	120	0.4	0.03	<0.005	0.023	0.001	<0.05	0.2	0.01	0.08	0.07	0.13	60.9
40386607		20.3	2.22	105	0.3	0.03	<0.005	0.019	0.001	<0.05	0.4	0.01	0.08	0.07	0.11	53.0
40386608		20.8	2.10	113	0.4	0.03	<0.005	0.019	0.001	<0.05	0.4	0.01	0.06	0.07	0.11	49.3
40386609		22.0	2.22	119	0.2	0.03	<0.005	0.019	0.001	<0.05	0.3	0.01	0.08	0.07	0.12	47.8
40386610		22.2	2.12	124	0.4	0.03	<0.005	0.018	0.001	<0.05	0.4	0.01	0.09	0.07	0.13	50.2
40386611		21.3	2.04	120	0.4	0.04	<0.005	0.020	0.002	<0.05	0.2	0.01	0.13	0.07	0.10	47.9
40386612		20.9	1.97	114	0.5	0.03	0.012	0.023	0.001	<0.05	0.3	0.01	0.88	0.08	0.14	53.0
40386613		22.2	2.24	129	0.3	0.03	<0.005	0.020	0.001	<0.05	0.3	0.01	0.10	0.07	0.10	51.4
40386614		24.4	2.36	136	0.4	0.03	<0.005	0.023	0.001	<0.05	0.3	0.01	0.06	0.05	0.11	50.3
40386615		26.2	2.58	137	0.4	0.03	<0.005	0.025	0.001	<0.05	0.3	0.01	0.10	0.06	0.12	59.4
40386616		22.9	1.99	125	0.4	0.03	<0.005	0.018	0.001	<0.05	0.4	<0.01	0.04	0.05	0.11	51.9
40386617		23.5	2.42	131	0.2	0.02	<0.005	0.020	0.001	<0.05	0.3	0.01	0.04	0.05	0.11	47.6
40386618		21.8	2.21	120	0.2	0.02	<0.005	0.018	0.001	<0.05	0.3	0.01	0.03	0.06	0.12	49.2
40386619		20.9	2.04	113	0.1	0.02	<0.005	0.019	0.001	<0.05	0.4	0.01	0.04	0.06	0.10	48.2
40386620		37.6	3.48	316	0.3	0.03	<0.005	0.033	0.001	<0.05	0.2	0.01	0.33	0.02	0.08	17.2
40386621		21.2	2.03	118	0.4	0.02	<0.005	0.019	0.001	<0.05	0.2	<0.01	0.03	0.05	0.09	46.6
40386622		20.9	2.06	118	0.3	0.03	<0.005	0.019	0.001	<0.05	0.3	<0.01	0.03	0.05	0.10	46.8
40386623		20.4	2.11	116	0.3	0.03	<0.005	0.018	0.001	<0.05	0.3	0.01	0.03	0.05	0.10	46.0
40386624		20.7	2.15	117	0.2	0.03	<0.005	0.020	0.001	<0.05	<0.2	0.01	0.04	0.05	0.13	51.4
40386625		22.6	2.11	126	0.5	0.03	<0.005	0.019	0.001	<0.05	0.3	<0.01	0.04	0.06	0.12	54.7
40386626		20.6	2.00	112	0.4	0.02	<0.005	0.018	0.001	<0.05	0.3	<0.01	0.03	0.04	0.10	53.3
40386627		21.8	2.07	121	0.3	0.02	<0.005	0.021	0.001	<0.05	0.2	<0.01	0.03	0.05	0.10	53.5
40386628		34.7	3.70	179	0.7	0.03	<0.005	0.025	0.002	<0.05	0.4	<0.01	0.03	0.04	0.15	52.0
40386629		28.4	2.79	149	2.4	0.04	<0.005	0.024	0.001	<0.05	0.2	<0.01	0.04	0.04	0.10	58.5
40386630		18.8	1.74	102	4.7	0.15	0.007	0.030	0.003	0.35	0.9	0.05	0.41	0.45	0.26	62.2
40386631		19.8	2.24	101	0.4	0.02	<0.005	0.018	0.001	<0.05	0.2	0.01	0.04	0.06	0.08	56.1
40386632		19.3	1.93	106	1.1	0.04	<0.005	0.017	0.001	0.05	0.3	0.01	0.03	0.06	0.09	56.8
40386633		19.4	1.95	102	0.7	0.03	<0.005	0.018	0.001	<0.05	0.3	<0.01	0.04	0.06	0.09	57.7
40386634		19.5	1.84	100	0.5	0.02	<0.005	0.019	0.001	<0.05	0.3	<0.01	0.04	0.05	0.08	55.1



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Project: EB80001452

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386595		217	11.3	0.97	119.5	2.5	27.6	104	0.006	0.0245	0.021
40386596		204	11.1	0.88	117.5	2.3	32.1	100	0.005	0.0059	0.007
40386597		214	11.8	0.95	116.5	2.6	33.3	102	0.003	0.0011	0.002
40386598		215	15.1	0.89	122.5	3.4	34.9	112	0.004	0.0043	0.002
40386599		219	14.2	0.99	144.0	3.1	31.8	112	0.003	0.0048	0.005
40386600		1110	41.9	2.95	678	5.8	16.1	106	0.022	0.0407	0.235
40386601		216	23.2	0.86	160.0	4.1	32.8	125	0.003	0.0059	0.006
40386602		224	14.2	0.93	160.0	3.1	27.2	114	0.003	0.0056	0.006
40386603		216	13.4	0.93	191.0	3.2	29.6	115	0.004	0.0061	0.006
40386604		190.0	11.8	0.92	173.0	2.8	25.4	102	0.001	0.0032	0.003
40386605		197.0	11.4	0.97	185.0	2.7	23.7	104	0.006	0.0071	0.007
40386606		182.0	11.6	0.88	208	2.5	24.1	115	0.006	0.0139	0.008
40386607		187.5	13.2	0.87	194.5	2.2	23.5	102	0.007	0.0069	0.006
40386608		185.5	12.7	0.85	173.5	2.3	23.8	98	0.004	0.0099	0.010
40386609		154.0	14.1	0.85	151.5	3.2	23.8	98	0.004	0.0140	0.010
40386610		162.5	14.2	0.93	154.5	2.9	22.9	103	0.004	0.0144	0.010
40386611		153.0	13.2	0.80	148.0	2.2	22.1	100	0.008	0.0175	0.016
40386612		198.5	46.1	0.73	185.5	2.6	22.2	105	0.009	0.0080	0.009
40386613		170.5	12.1	0.82	173.0	2.0	22.9	101	0.006	0.0151	0.018
40386614		141.5	10.1	0.93	150.5	2.7	23.6	95	0.002	0.0115	0.014
40386615		171.0	9.5	0.98	193.0	2.5	28.0	122	0.002	0.0078	0.005
40386616		180.5	9.2	0.89	176.0	2.2	27.6	105	0.003	0.0060	0.007
40386617		162.0	7.9	0.85	161.0	2.0	22.5	94	0.003	0.0063	0.008
40386618		161.0	7.6	0.85	177.0	2.0	23.7	96	0.002	0.0056	0.009
40386619		156.0	6.7	0.79	180.0	1.9	21.8	92	0.002	0.0063	0.007
40386620		16.7	17.8	0.97	13.3	12.7	17.1	94	<0.001	0.0009	<0.001
40386621		146.0	6.7	0.75	174.0	1.8	21.7	87	0.002	0.0046	0.006
40386622		137.5	7.2	0.71	180.0	1.8	21.9	88	0.002	0.0049	0.006
40386623		143.5	6.9	0.79	186.0	1.8	20.5	89	0.002	0.0051	0.006
40386624		161.5	8.0	0.86	197.0	2.0	24.6	95	0.002	0.0050	0.007
40386625		172.5	7.6	0.94	211	2.0	21.5	101	0.003	0.0065	0.008
40386626		136.0	7.7	0.80	210	1.8	20.5	96	0.003	0.0193	0.018
40386627		128.0	7.1	0.81	193.0	2.0	18.2	102	0.001	0.0062	0.003
40386628		165.5	7.3	1.36	124.0	3.3	32.7	132	0.001	0.0031	0.002
40386629		124.0	15.9	0.84	180.0	1.8	30.4	134	0.003	0.0018	0.002
40386630		1050	33.5	2.74	661	7.1	17.8	106	0.026	0.0400	0.200
40386631		146.0	10.0	0.77	266	1.7	21.0	96	0.002	0.0018	0.001
40386632		130.0	9.2	0.75	266	1.5	21.3	94	0.002	0.0040	0.006
40386633		144.0	8.8	0.83	259	2.0	20.9	95	0.002	0.0074	0.008
40386634		138.5	9.5	0.83	249	1.9	19.6	91	0.002	0.0062	0.008



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 Account: RTEICKBZ

Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40386635		6.12	45.3	17.75	11.70	10.65	8.21	2.45	0.36	0.035	1.52	0.16	0.17	0.03	0.02	99.86
40386636		5.95	45.9	18.60	11.05	10.50	8.04	2.53	0.40	0.034	1.41	0.15	0.15	0.03	0.02	99.32
40386637		6.47	46.4	18.50	11.15	10.55	8.19	2.55	0.42	0.033	1.44	0.15	0.17	0.03	0.02	100.25
40386638		6.20	45.5	17.85	11.35	10.25	8.39	2.54	0.36	0.028	1.45	0.16	0.16	0.03	0.02	100.30
40386639		2.80	45.7	17.70	11.45	10.35	8.30	2.55	0.33	0.033	1.34	0.16	0.16	0.03	0.02	99.89
40386640		2.76	45.4	17.30	11.55	10.45	8.43	2.51	0.30	0.029	1.32	0.17	0.15	0.03	0.02	99.81
40386641		6.18	45.7	17.95	11.55	10.30	8.72	2.43	0.39	0.029	1.39	0.16	0.17	0.03	0.02	99.79
40386642		6.02	44.8	17.40	11.95	10.00	9.33	2.28	0.40	0.030	1.31	0.16	0.15	0.03	0.02	99.26
40386643		6.23	45.0	17.85	11.60	10.20	8.63	2.43	0.43	0.026	1.41	0.15	0.16	0.03	0.02	98.72
40386644		6.19	44.5	16.70	13.10	9.58	10.25	2.21	0.31	0.030	1.26	0.17	0.12	0.03	0.01	99.20
40386645		6.30	45.5	18.35	11.00	10.45	9.07	2.46	0.35	0.033	1.24	0.15	0.16	0.03	0.02	99.41
40386646		6.15	45.8	18.20	11.10	10.45	9.11	2.41	0.39	0.033	1.31	0.15	0.16	0.03	0.02	100.15
40386647		6.29	45.7	18.45	11.15	10.45	8.97	2.48	0.35	0.032	1.27	0.15	0.14	0.03	0.02	99.86
40386648		6.31	45.6	18.45	11.05	10.50	8.84	2.47	0.37	0.031	1.33	0.15	0.16	0.03	0.02	99.86
40386649		6.31	45.8	18.75	10.85	10.55	8.72	2.46	0.36	0.030	1.29	0.15	0.15	0.03	0.02	100.03

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



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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386635		1.50	0.01	0.02	147.0	25.2	240	0.95	3.65	2.11	1.21	21.6	3.67	2.8	0.76	11.2
40386636		0.51	0.01	0.03	156.0	26.5	240	0.83	3.92	2.00	1.26	22.8	4.23	2.9	0.85	12.0
40386637		0.65	0.01	0.02	164.5	26.6	230	0.87	4.09	2.32	1.27	21.5	3.94	3.0	0.75	12.2
40386638		2.21	0.02	0.02	162.0	29.4	200	0.99	3.92	2.36	1.38	21.2	4.46	3.0	0.87	13.7
40386639		1.77	0.01	0.01	153.0	25.5	240	0.93	3.53	2.00	1.09	22.2	4.03	2.8	0.71	11.8
40386640		2.15	0.01	0.01	133.5	23.2	200	0.74	3.44	2.05	1.11	21.2	3.48	2.5	0.69	10.3
40386641		0.95	0.02	0.01	162.5	26.6	210	1.01	3.85	2.05	1.18	21.9	3.87	2.8	0.79	11.9
40386642		1.40	0.01	0.01	148.5	24.6	210	1.00	3.62	1.97	1.20	21.3	3.62	2.5	0.74	11.2
40386643		0.78	0.01	0.01	159.5	26.3	190	0.76	3.68	2.27	1.17	22.3	3.91	2.8	0.79	11.8
40386644		0.93	0.01	0.01	124.5	18.8	210	0.81	2.64	1.57	1.16	19.8	2.56	2.2	0.51	8.3
40386645		0.60	0.01	0.01	144.0	23.2	230	0.75	3.42	1.90	1.14	21.1	3.46	2.7	0.71	10.5
40386646		0.99	0.02	0.01	143.5	24.6	230	0.63	3.54	2.26	1.07	21.4	3.92	2.7	0.72	11.6
40386647		0.67	0.01	0.02	145.5	24.8	220	0.72	3.28	1.91	1.19	21.8	3.74	2.6	0.74	11.2
40386648		0.86	0.01	0.02	144.5	25.1	220	0.75	3.66	2.29	1.16	21.9	3.82	2.7	0.73	11.3
40386649		0.87	0.01	0.03	143.5	25.4	210	0.63	3.60	1.94	1.11	23.0	3.87	2.7	0.73	11.4

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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40386635		0.28	7.7	15.2	3.29	8.1	3.92	1	250	0.4	0.60	1.07	0.31	0.26	178	1
40386636		0.26	8.2	15.3	3.68	9.4	3.75	1	272	0.5	0.64	1.15	0.35	0.32	171	<1
40386637		0.29	7.9	15.8	3.66	9.5	4.11	1	269	0.5	0.68	1.23	0.35	0.30	173	2
40386638		0.33	8.5	17.5	3.91	8.6	4.21	1	258	0.5	0.66	1.70	0.32	0.33	175	1
40386639		0.30	7.1	14.7	3.42	7.8	3.88	1	262	0.4	0.67	1.33	0.25	0.32	163	1
40386640		0.29	7.0	14.3	2.95	7.0	3.44	1	242	0.4	0.62	1.31	0.24	0.26	157	1
40386641		0.27	8.1	15.8	3.42	9.3	3.85	1	266	0.5	0.61	1.25	0.30	0.29	163	1
40386642		0.27	7.3	14.2	3.33	9.8	3.32	1	253	0.5	0.57	1.14	0.29	0.32	160	1
40386643		0.29	7.8	15.4	3.38	11.1	4.28	1	270	0.4	0.69	1.12	0.31	0.28	167	<1
40386644		0.22	5.9	11.5	2.45	6.8	2.75	1	240	0.3	0.45	0.78	0.21	0.17	136	1
40386645		0.28	7.0	14.0	3.05	7.8	3.33	1	262	0.4	0.61	1.16	0.27	0.25	154	1
40386646		0.29	7.2	15.0	3.30	9.2	3.82	1	264	0.4	0.62	1.09	0.28	0.29	169	1
40386647		0.25	7.3	14.4	3.32	8.2	3.24	1	266	0.4	0.60	1.12	0.29	0.26	157	1
40386648		0.28	7.7	14.4	3.50	8.6	3.98	1	263	0.4	0.67	1.07	0.31	0.24	158	<1
40386649		0.30	7.6	14.2	3.36	7.9	3.78	1	271	0.5	0.62	1.18	0.28	0.46	155	1

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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386635		18.9	1.96	95	1.4	0.02	<0.005	0.016	<0.001	0.06	0.4	<0.01	0.04	0.05	0.09	51.0
40386636		19.8	2.30	101	0.2	0.01	<0.005	0.018	0.001	<0.05	<0.2	<0.01	0.03	0.05	0.10	49.1
40386637		19.2	1.95	101	0.6	0.01	<0.005	0.015	<0.001	<0.05	<0.2	<0.01	0.04	0.10	0.08	48.4
40386638		20.8	2.08	106	2.9	0.03	<0.005	0.015	0.001	0.07	<0.2	0.02	0.03	0.06	0.07	47.9
40386639		18.6	1.96	100	2.6	0.02	<0.005	0.017	<0.001	0.07	0.2	0.01	0.03	0.06	0.10	52.8
40386640		17.1	1.81	92	2.7	0.03	<0.005	0.013	<0.001	0.07	0.4	0.01	0.02	0.04	0.07	49.2
40386641		19.5	2.06	101	2.3	0.03	<0.005	0.014	0.001	<0.05	<0.2	0.01	0.03	0.05	0.09	51.4
40386642		18.6	2.02	91	4.4	0.03	<0.005	0.012	<0.001	<0.05	0.2	0.01	0.03	0.06	0.08	54.0
40386643		18.8	1.80	97	3.0	0.03	0.005	0.015	0.001	<0.05	<0.2	<0.01	0.03	0.03	0.08	52.7
40386644		14.0	1.25	74	2.9	0.04	<0.005	0.016	<0.001	<0.05	0.6	0.01	0.03	0.06	0.08	64.1
40386645		17.5	1.56	89	1.9	0.05	0.005	0.013	<0.001	<0.05	0.4	0.01	0.02	0.05	0.07	51.6
40386646		18.3	1.87	94	2.4	0.04	<0.005	0.015	0.001	<0.05	0.2	0.01	0.03	0.05	0.09	54.3
40386647		18.0	1.83	91	0.4	0.01	<0.005	0.017	<0.001	<0.05	<0.2	0.02	0.03	0.06	0.10	54.2
40386648		18.7	2.08	93	0.5	0.03	<0.005	0.019	0.001	<0.05	<0.2	<0.01	0.04	0.04	0.07	52.6
40386649		18.4	1.91	98	0.5	0.03	<0.005	0.014	0.002	0.05	0.5	<0.01	0.04	0.06	0.14	52.9



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Project: EB80001452

**CERTIFICATE OF ANALYSIS TB18201482**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386635		128.0	11.3	0.73	228	1.5	22.0	96	0.002	0.0056	0.008
40386636		128.0	7.1	0.75	229	1.7	18.9	86	0.002	0.0060	0.008
40386637		121.5	8.2	0.75	219	1.7	19.6	84	0.002	0.0060	0.008
40386638		102.5	14.8	0.69	227	1.7	18.0	101	0.003	0.0074	0.009
40386639		128.5	13.4	0.70	243	1.7	21.3	103	0.002	0.0063	0.008
40386640		96.8	13.8	0.56	230	1.6	18.8	109	0.003	0.0056	0.008
40386641		123.5	9.5	0.76	262	2.7	18.4	95	0.002	0.0060	0.008
40386642		119.0	12.9	0.59	274	1.8	18.8	92	0.003	0.0055	0.008
40386643		111.5	10.3	0.69	258	1.7	18.9	88	0.003	0.0083	0.009
40386644		140.0	11.0	0.59	315	1.7	20.3	101	0.003	0.0076	0.009
40386645		119.0	9.8	0.64	279	1.9	18.2	83	0.002	0.0080	0.010
40386646		122.5	13.4	0.59	282	1.9	19.7	85	0.002	0.0075	0.010
40386647		122.0	11.2	0.80	273	3.1	18.1	89	0.002	0.0062	0.009
40386648		111.5	14.6	0.87	272	2.6	18.9	84	0.002	0.0060	0.008
40386649		106.0	14.8	0.87	269	5.0	18.8	93	0.001	0.0026	0.005



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**CERTIFICATE OF ANALYSIS TB18201482**

	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">C-IR07</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS42</td> <td style="width: 33%;">ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06			
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-MS24	S-IR08										
TOT-ICP06													



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**CERTIFICATE TB18231360**

Project: EB80001453  
 P.O. No.: 3103290934  
 This report is for 155 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 14-SEP-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
--	-----------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
SPL-22X	Addnl Rot Cru Split w No Analysis
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP81	ICP Fusion - Ore Grade	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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 \*\*\*\*\*  
 Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - A  
 Total # Pages: 5 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40388250		1.85	56.6	18.55	7.58	6.19	2.64	3.96	2.54	0.003	1.04	0.12	0.35	0.08	0.12	100.15
40388251		10.89	68.0	14.00	6.41	0.82	2.06	2.39	2.95	0.025	0.64	0.04	0.12	0.02	0.07	99.88
40388252		11.06	64.3	15.90	7.02	0.76	2.41	1.80	3.81	0.026	0.72	0.03	0.14	0.01	0.09	99.98
40388253		8.46	64.5	15.50	7.64	0.83	2.46	1.80	3.47	0.026	0.77	0.04	0.12	0.02	0.08	100.32
40388254		4.10	75.7	10.95	5.09	0.60	1.59	3.72	1.91	0.022	0.43	0.03	0.09	0.03	0.06	101.43
40388255		4.68	50.0	14.00	16.30	6.71	4.25	2.68	1.30	0.007	3.54	0.19	0.41	0.06	0.07	100.96
40388256		6.06	47.7	13.15	16.80	7.43	4.55	2.68	1.26	0.006	3.79	0.21	0.47	0.06	0.08	99.49
40388257		6.60	47.5	14.45	16.00	8.14	5.44	2.74	1.24	0.020	3.39	0.21	0.47	0.04	0.05	100.59
40388258		6.65	47.4	14.45	16.10	8.43	5.51	2.73	1.10	0.021	3.38	0.21	0.48	0.03	0.04	100.73
40388259		6.18	47.0	14.25	16.20	8.35	5.42	2.78	1.16	0.020	3.46	0.21	0.48	0.03	0.04	100.28
40388260		0.17	45.1	18.85	12.15	9.29	7.59	2.18	1.12	0.366	1.36	0.15	0.16	0.05	0.04	100.44
40388261		6.19	46.0	13.95	15.90	8.25	5.55	2.66	1.13	0.020	3.40	0.21	0.47	0.03	0.05	98.93
40388262		6.13	50.9	14.55	14.60	6.07	5.18	2.25	1.48	0.028	2.86	0.17	0.40	0.03	0.05	100.51
40388263		5.99	45.8	14.60	15.10	8.34	5.02	2.68	1.17	0.018	3.36	0.19	0.48	0.04	0.06	98.58
40388264		6.16	48.9	14.90	14.30	6.26	5.81	2.20	1.63	0.029	3.04	0.17	0.29	0.04	0.09	100.33
40388265		6.50	46.9	14.80	15.15	7.88	5.67	2.52	1.20	0.022	3.20	0.19	0.40	0.04	0.06	100.38
40388266		6.18	47.9	14.95	15.10	8.12	5.74	2.50	1.06	0.022	3.30	0.19	0.34	0.03	0.04	100.67
40388267		6.56	46.4	14.45	16.00	8.66	5.65	2.59	0.94	0.022	3.50	0.21	0.46	0.03	0.04	100.36
40388268		6.66	45.3	14.10	16.05	8.37	5.59	2.53	1.08	0.022	3.36	0.21	0.46	0.03	0.04	98.53
40388269		2.55	46.2	14.10	16.25	8.31	5.58	2.58	1.26	0.022	3.42	0.22	0.47	0.03	0.05	100.12
40388270		3.08	47.6	14.20	16.05	8.21	5.64	2.67	1.21	0.021	3.38	0.21	0.47	0.03	0.05	101.25
40388271		6.18	43.4	13.80	15.80	9.96	5.30	2.00	2.46	0.021	3.46	0.20	0.46	0.03	0.11	100.92
40388272		6.40	45.0	14.05	16.10	8.52	5.67	2.56	0.83	0.021	3.54	0.22	0.47	0.03	0.04	98.25
40388273		3.16	46.2	14.55	17.00	8.96	5.93	2.60	0.90	0.024	3.70	0.22	0.47	0.03	0.03	101.27
40388274		3.01	44.6	14.15	16.95	9.24	5.87	2.35	0.91	0.024	3.77	0.22	0.43	0.03	0.03	99.55
40388275		2.49	47.0	16.80	15.10	7.24	6.07	1.79	1.38	0.030	2.58	0.16	0.21	0.04	0.05	100.37
40388276		2.84	49.6	16.40	16.00	2.82	5.67	1.79	2.43	0.051	0.87	0.09	0.08	0.03	0.06	100.33
40388277		3.09	49.6	16.35	14.45	6.99	6.62	1.98	1.20	0.045	1.49	0.14	0.18	0.03	0.04	101.10
40388278		3.57	51.5	16.85	13.30	6.09	6.44	2.29	1.51	0.041	1.42	0.14	0.13	0.04	0.05	101.75
40388279		2.89	45.3	17.30	12.85	7.53	7.19	2.08	1.12	0.608	1.01	0.13	0.11	0.04	0.05	99.84
40388280		1.74	59.7	18.25	6.79	5.99	2.42	3.91	2.69	0.003	0.85	0.10	0.24	0.07	0.12	101.44
40388281		2.83	41.5	17.90	11.85	9.12	8.52	1.32	1.26	0.855	0.81	0.13	0.07	0.06	0.07	99.49
40388282		3.05	42.8	18.45	11.60	8.02	9.20	1.75	0.85	0.557	0.86	0.12	0.09	0.05	0.03	99.83
40388283		2.80	46.2	16.10	11.60	7.10	8.16	2.21	1.96	0.319	1.32	0.17	0.18	0.09	0.08	100.67
40388284		3.07	44.5	19.50	11.80	8.79	8.31	2.06	1.15	0.969	1.09	0.12	0.12	0.05	0.03	100.22
40388285		3.08	43.9	19.70	12.15	9.91	9.07	2.01	0.40	0.982	1.00	0.13	0.08	0.04	0.01	99.96
40388286		3.47	45.6	18.70	11.80	10.45	8.27	2.18	0.48	0.512	1.04	0.14	0.10	0.04	0.01	100.35
40388287		2.58	49.0	17.35	9.94	11.65	7.77	2.43	0.59	0.125	0.95	0.14	0.09	0.04	0.02	100.74
40388288		3.23	47.9	17.55	10.20	11.10	8.55	2.31	0.61	0.166	0.87	0.14	0.09	0.04	0.02	100.03
40388289		3.35	46.3	17.70	10.05	10.05	7.92	1.86	1.30	0.081	0.93	0.13	0.10	0.07	0.03	100.08

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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To: RIO TINTO EXPLORATION CANADA INC.  
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 THUNDER BAY ON P7E 4X4

Page: 2 - B  
 Total # Pages: 5 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40388250		0.38	0.04	0.10	1070	63.9	30	1.29	7.10	3.73	1.88	23.9	7.64	7.8	1.35	27.4
40388251		2.33	0.06	0.07	637	53.1	170	1.99	3.68	2.07	1.13	17.2	4.11	4.9	0.78	25.1
40388252		2.96	0.04	0.22	795	63.2	180	2.89	4.58	2.17	1.23	21.5	4.55	4.6	0.80	29.5
40388253		3.06	0.06	0.43	756	60.4	180	3.05	4.57	2.46	1.13	21.1	4.80	4.5	0.87	28.4
40388254		1.21	0.03	0.06	572	41.2	160	0.51	2.75	1.50	0.83	13.2	2.98	5.2	0.50	19.0
40388255		1.44	<0.01	0.06	631	75.7	50	5.47	7.85	3.83	2.88	25.9	9.63	6.6	1.38	33.2
40388256		1.30	0.01	0.12	761	75.4	50	4.32	8.73	3.97	3.00	24.6	9.90	7.1	1.60	32.7
40388257		0.90	0.01	0.09	457	65.8	140	4.48	9.51	5.11	2.35	25.4	9.12	7.4	1.76	28.5
40388258		0.85	<0.01	0.10	369	64.5	150	4.52	8.97	4.43	2.33	25.1	9.34	6.9	1.69	28.7
40388259		0.88	<0.01	0.08	368	65.8	140	4.78	9.17	4.77	2.46	24.7	9.38	6.6	1.80	28.4
40388260		2.03	0.02	0.34	371	27.5	2510	2.48	4.03	1.97	1.31	20.8	3.66	2.8	0.74	12.2
40388261		1.31	0.01	0.07	436	65.4	150	4.92	8.81	4.46	2.43	25.3	10.10	6.7	1.76	28.3
40388262		1.94	0.02	0.08	474	48.3	190	3.54	6.06	3.26	1.87	21.1	6.73	3.4	1.28	20.4
40388263		1.72	0.02	0.08	521	61.5	130	3.65	8.40	4.25	2.47	24.6	8.04	6.2	1.57	26.5
40388264		2.67	0.04	0.07	851	44.3	210	5.84	5.30	2.68	1.66	21.5	5.97	3.8	1.11	20.0
40388265		2.35	0.05	0.08	521	53.7	150	4.34	7.30	3.72	2.11	23.5	7.86	5.3	1.46	24.1
40388266		1.38	0.01	0.06	388	43.2	160	4.77	5.44	3.10	1.72	21.6	6.24	4.3	1.20	19.3
40388267		1.41	<0.01	0.10	355	58.5	150	4.05	8.31	4.63	2.30	24.1	9.07	5.7	1.64	26.3
40388268		1.39	0.07	0.10	399	58.6	150	4.70	8.22	4.32	2.34	24.6	8.28	5.8	1.64	25.2
40388269		1.63	0.01	0.06	498	58.2	140	5.85	8.39	4.39	2.38	23.2	8.48	6.1	1.71	25.9
40388270		1.51	0.02	0.08	470	60.5	150	5.91	8.29	4.30	2.21	24.0	8.78	6.5	1.69	26.4
40388271		3.92	0.66	0.54	981	58.6	140	4.14	8.28	4.12	2.10	22.6	8.41	6.1	1.62	25.6
40388272		1.20	0.01	0.08	359	57.8	150	3.73	8.06	4.29	2.29	23.5	8.75	6.2	1.61	25.4
40388273		0.66	<0.01	0.09	308	53.8	160	3.28	7.69	4.06	2.35	24.6	8.45	5.6	1.48	23.1
40388274		0.98	<0.01	0.09	282	50.8	170	3.20	7.46	4.25	2.08	24.8	7.87	5.3	1.53	21.5
40388275		1.92	0.02	0.72	420	34.4	230	4.56	4.15	2.29	1.89	22.0	4.39	2.8	0.82	15.6
40388276		4.44	0.13	3.32	538	41.4	370	8.74	3.09	1.68	1.36	20.5	3.22	2.5	0.65	19.9
40388277		1.98	0.03	1.20	366	43.3	330	4.37	4.90	2.70	1.65	21.2	4.90	3.5	1.04	19.5
40388278		1.95	<0.01	0.69	453	44.0	300	5.52	4.60	2.74	1.81	21.5	4.56	4.3	0.92	20.2
40388279		4.52	0.03	1.08	404	30.7	4370	3.99	3.52	1.75	1.31	19.8	3.52	2.9	0.67	13.7
40388280		0.31	0.04	0.11	1085	61.7	30	1.20	6.38	3.15	1.75	21.8	6.92	8.4	1.22	26.8
40388281		6.02	0.04	0.76	631	15.1	6160	3.73	2.11	1.16	0.83	18.3	2.08	1.5	0.41	6.7
40388282		5.45	0.05	0.62	251	17.7	4060	5.87	2.39	1.13	0.89	17.9	2.44	1.6	0.45	7.8
40388283		5.18	0.05	0.31	761	42.5	2310	7.69	4.55	2.16	1.44	18.1	4.65	3.8	0.87	18.8
40388284		1.73	0.01	0.66	235	24.4	6990	2.71	2.90	1.71	1.04	20.8	3.70	2.3	0.62	10.8
40388285		0.58	0.01	0.44	94.5	15.0	7180	2.02	2.42	1.20	0.80	20.1	2.18	1.4	0.43	6.4
40388286		1.03	<0.01	0.33	114.5	17.6	3750	2.08	2.70	1.39	1.03	19.3	2.55	1.8	0.54	7.7
40388287		0.64	<0.01	0.05	140.0	20.3	930	1.39	3.33	1.61	1.04	19.2	3.48	2.3	0.62	8.9
40388288		0.48	<0.01	0.04	131.0	20.6	1210	1.41	2.79	1.38	0.99	18.3	2.94	1.7	0.54	9.4
40388289		3.56	0.03	0.05	299	21.3	610	2.96	2.53	1.50	0.96	18.1	2.65	1.8	0.53	9.5

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 2 - C  
 Total # Pages: 5 (A - F)  
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 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40388250		0.48	14.7	38.8	8.48	94.6	8.54	2	577	0.7	1.09	3.81	0.59	1.62	126	<1
40388251		0.30	9.5	24.6	6.22	107.5	5.28	2	133.5	0.7	0.64	7.39	0.32	3.00	97	1
40388252		0.38	14.8	30.3	7.79	141.5	5.93	2	112.5	0.8	0.70	8.67	0.35	5.46	132	1
40388253		0.36	11.8	28.2	7.26	124.5	5.87	2	122.5	0.8	0.69	8.16	0.42	6.66	145	1
40388254		0.22	6.9	19.1	4.98	60.6	3.83	1	202	0.5	0.48	6.15	0.22	2.37	61	1
40388255		0.46	26.3	42.8	9.82	47.0	9.88	2	445	1.8	1.25	4.54	0.49	1.60	399	2
40388256		0.51	27.5	42.7	10.05	45.7	10.35	2	459	1.7	1.38	3.92	0.59	1.25	374	1
40388257		0.67	22.1	37.8	8.71	45.2	9.66	2	288	1.4	1.40	4.03	0.69	1.24	286	1
40388258		0.58	21.4	38.5	8.58	39.4	9.10	2	268	1.3	1.41	3.71	0.66	1.18	283	1
40388259		0.61	21.8	38.1	8.60	41.9	9.80	2	263	1.4	1.43	3.77	0.68	1.28	293	1
40388260		0.24	8.2	15.6	3.67	34.6	3.81	2	407	0.5	0.62	1.22	0.26	0.33	187	<1
40388261		0.62	21.7	39.1	8.34	43.6	8.96	2	267	1.4	1.48	3.67	0.66	1.23	287	<1
40388262		0.38	17.1	28.4	6.48	50.4	6.91	1	244	1.1	1.01	3.01	0.41	1.57	277	1
40388263		0.57	20.0	36.4	8.08	43.3	8.58	2	284	1.3	1.32	3.36	0.62	1.16	290	7
40388264		0.41	14.6	24.8	5.86	65.8	5.56	1	312	1.0	0.79	3.45	0.43	1.60	304	1
40388265		0.52	18.4	31.9	7.18	46.5	7.45	2	279	1.2	1.23	3.31	0.58	1.21	278	2
40388266		0.41	14.7	25.3	5.71	42.0	6.47	1	258	1.0	0.95	2.99	0.44	1.07	294	1
40388267		0.56	20.4	34.2	7.98	36.1	8.62	2	253	1.3	1.39	3.06	0.64	1.22	297	1
40388268		0.55	20.7	34.5	7.57	40.7	7.69	2	259	1.3	1.31	3.23	0.62	1.26	297	<1
40388269		0.59	20.3	34.8	7.70	50.2	8.65	2	246	1.3	1.35	4.75	0.69	1.51	280	1
40388270		0.56	20.0	34.8	8.08	48.5	8.42	2	252	1.4	1.40	5.11	0.68	1.59	291	1
40388271		0.60	20.2	34.5	7.74	92.0	8.13	2	211	1.3	1.33	3.30	0.63	1.05	288	1
40388272		0.55	20.6	35.2	7.76	32.9	8.45	2	245	1.4	1.35	3.30	0.61	1.03	301	<1
40388273		0.55	19.7	32.7	7.24	31.0	8.05	2	246	1.3	1.21	2.76	0.57	0.93	318	<1
40388274		0.52	19.0	30.3	6.69	31.5	8.04	2	250	1.4	1.20	2.84	0.54	0.87	330	1
40388275		0.31	11.6	20.0	4.49	55.0	4.67	1	328	0.9	0.64	2.32	0.36	1.91	289	<1
40388276		0.32	7.9	20.2	5.03	102.5	3.35	2	243	0.7	0.50	4.84	0.30	5.06	253	1
40388277		0.38	10.1	22.7	5.51	51.0	4.69	1	272	0.7	0.86	3.33	0.44	2.85	245	3
40388278		0.40	9.8	22.9	5.46	62.4	4.45	1	331	0.7	0.71	3.79	0.38	2.31	232	1
40388279		0.26	7.8	17.2	3.96	39.3	3.74	1	353	0.5	0.58	2.02	0.27	0.66	201	1
40388280		0.49	12.5	35.3	8.24	96.9	7.44	2	585	1.8	1.01	3.32	0.49	1.48	112	<1
40388281		0.17	4.2	8.8	1.95	40.2	2.21	1	436	0.3	0.34	0.58	0.17	0.16	203	<1
40388282		0.18	4.5	9.9	2.37	31.9	2.23	1	383	0.3	0.39	0.80	0.17	0.21	169	<1
40388283		0.31	11.2	23.9	5.33	63.5	5.04	2	753	0.7	0.75	2.58	0.36	0.81	176	<1
40388284		0.27	7.0	13.5	3.12	40.1	3.14	1	436	0.5	0.47	1.20	0.25	0.32	211	1
40388285		0.20	3.9	8.6	2.06	12.2	2.16	1	305	0.3	0.33	0.65	0.18	0.13	225	<1
40388286		0.18	4.7	10.5	2.23	14.4	2.58	1	314	0.3	0.38	0.72	0.23	0.18	233	<1
40388287		0.25	5.2	12.6	2.73	17.6	2.44	1	322	0.5	0.51	0.97	0.24	0.28	197	<1
40388288		0.21	4.6	12.1	2.72	18.3	2.77	1	348	0.3	0.50	1.65	0.26	0.19	173	<1
40388289		0.20	5.4	11.8	2.76	41.2	2.96	1	577	0.5	0.43	1.17	0.20	0.29	124	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388250		34.5	3.53	318	0.2	0.01	<0.005	0.034	<0.001	<0.05	<0.2	0.02	0.37	0.04	0.09	19.7
40388251		18.3	2.11	189	8.4	0.10	0.020	0.035	0.001	0.40	0.2	0.01	0.27	0.05	0.08	15.6
40388252		21.3	2.54	169	12.6	0.08	0.034	0.039	0.003	0.80	0.3	0.01	0.75	0.09	0.12	20.1
40388253		22.5	2.78	173	13.6	0.09	0.044	0.041	0.004	0.95	0.2	0.03	0.95	0.16	0.32	22.1
40388254		13.3	1.46	209	2.7	0.21	0.036	0.026	<0.001	0.30	<0.2	0.01	0.24	0.07	0.14	9.8
40388255		34.0	3.30	254	1.0	0.03	0.007	0.026	0.001	0.16	0.2	0.01	0.23	0.11	0.18	51.4
40388256		38.9	3.74	284	0.3	0.02	0.007	0.026	0.001	0.11	0.3	<0.01	0.16	0.11	0.16	50.4
40388257		43.2	4.49	288	0.8	0.02	0.005	0.021	0.002	0.07	0.4	<0.01	0.22	0.11	0.13	49.2
40388258		42.4	4.48	284	0.7	0.02	0.005	0.017	0.001	0.05	0.3	<0.01	0.22	0.11	0.15	48.0
40388259		42.9	4.71	280	0.7	0.02	<0.005	0.020	0.001	0.05	0.4	<0.01	0.36	0.10	0.15	49.0
40388260		18.7	1.79	106	4.4	0.15	0.012	0.031	0.003	0.41	0.9	0.05	0.45	0.47	0.25	64.1
40388261		43.1	4.52	263	0.9	0.03	<0.005	0.020	0.001	0.09	0.4	<0.01	0.35	0.10	0.14	47.5
40388262		28.3	2.96	133	3.6	0.09	0.011	0.026	0.001	0.46	<0.2	0.01	0.39	0.13	0.16	43.9
40388263		39.9	4.20	251	1.0	0.02	0.005	0.022	0.001	0.10	0.3	0.01	0.29	0.10	0.17	46.7
40388264		26.1	2.70	167	3.4	0.05	0.011	0.025	0.001	0.25	0.2	0.01	0.39	0.12	0.15	47.1
40388265		33.9	3.36	218	1.2	0.02	0.008	0.026	0.001	0.13	0.3	<0.01	0.36	0.12	0.18	50.1
40388266		27.6	2.72	166	0.8	0.03	<0.005	0.021	0.001	0.07	0.3	<0.01	0.37	0.12	0.18	49.0
40388267		39.2	3.95	238	1.1	0.02	0.007	0.023	0.001	0.10	0.2	<0.01	0.39	0.12	0.17	51.4
40388268		38.7	4.20	233	0.6	0.02	0.006	0.021	0.002	0.07	0.2	<0.01	0.31	0.10	0.16	48.7
40388269		38.8	4.08	247	0.6	0.03	0.005	0.021	0.001	0.06	0.3	<0.01	0.32	0.11	0.15	47.4
40388270		40.2	4.16	258	0.9	0.03	0.007	0.021	0.001	0.09	0.3	<0.01	0.34	0.10	0.15	48.6
40388271		37.9	4.00	248	2.7	0.02	0.039	0.034	0.001	0.40	0.4	<0.01	1.07	0.11	0.15	50.0
40388272		39.9	3.96	244	0.8	0.02	<0.005	0.021	0.001	0.10	0.5	<0.01	0.31	0.11	0.15	51.4
40388273		38.0	3.77	235	1.0	0.02	<0.005	0.019	0.001	0.05	0.3	<0.01	0.28	0.11	0.14	53.9
40388274		35.7	3.56	215	0.5	0.02	<0.005	0.022	0.001	0.05	0.3	<0.01	0.39	0.14	0.15	55.7
40388275		21.1	2.16	99	8.3	0.22	0.018	0.025	0.004	0.37	1.1	0.03	0.69	0.38	0.45	70.9
40388276		16.5	1.87	92	25.2	1.29	0.032	0.084	0.016	1.15	3.7	0.27	1.67	1.18	1.17	128.5
40388277		25.6	2.57	136	8.8	0.28	0.015	0.033	0.008	0.34	1.4	0.06	0.69	0.52	0.46	87.2
40388278		23.4	2.43	159	6.1	0.16	0.029	0.018	0.004	0.25	0.8	0.03	0.61	0.28	0.29	59.4
40388279		17.4	1.97	107	1.7	0.50	0.021	0.042	0.010	0.08	3.1	0.23	1.85	1.18	0.39	104.0
40388280		33.0	3.07	314	0.2	0.01	<0.005	0.027	0.001	<0.05	<0.2	0.01	0.33	0.04	0.06	17.0
40388281		10.3	0.97	51	1.9	0.49	0.027	0.038	0.007	0.07	2.6	0.17	3.24	1.11	0.38	96.6
40388282		11.9	1.20	59	1.0	0.42	0.012	0.030	0.008	<0.05	2.1	0.14	1.72	0.87	0.28	93.0
40388283		22.1	2.24	139	1.2	0.83	0.017	0.022	0.004	<0.05	1.2	0.07	1.49	0.51	0.27	65.4
40388284		16.2	1.71	86	1.5	0.25	0.008	0.047	0.006	0.12	1.7	0.14	1.79	0.73	0.33	85.4
40388285		11.6	1.06	51	0.4	0.31	<0.005	0.028	0.005	<0.05	1.5	0.09	0.38	0.49	0.19	80.8
40388286		13.8	1.26	60	0.3	0.24	<0.005	0.022	0.003	<0.05	1.0	0.06	0.51	0.36	0.19	69.5
40388287		16.0	1.61	77	0.4	0.01	<0.005	0.011	0.001	<0.05	0.3	<0.01	0.19	0.07	0.08	45.2
40388288		14.3	1.35	59	0.4	0.01	<0.005	0.013	0.001	<0.05	0.2	0.01	0.47	0.08	0.07	51.3
40388289		13.7	1.31	65	0.4	0.01	0.009	0.014	<0.001	<0.05	0.3	0.01	2.47	0.07	0.07	54.1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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





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 Plus Appendix Pages  
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 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40388250		18.9	17.1	1.12	14.8	12.3	18.3	101	0.003	0.0005	0.001					
40388251		31.5	48.8	3.47	55.6	23.0	16.1	102	0.001	0.0009	0.001					
40388252		98.6	66.2	10.70	74.0	16.9	19.4	109	0.001	0.0016	0.002					
40388253		111.5	75.6	15.70	80.9	17.5	18.9	149	0.002	0.0018	0.002					
40388254		18.3	39.0	3.39	37.8	15.0	9.5	87	0.001	0.0006	0.001					
40388255		246	29.6	1.85	73.4	7.0	28.6	190	0.006	0.0024	0.008					
40388256		294	24.5	1.57	61.9	4.5	29.8	162	0.004	0.0036	0.008					
40388257		321	20.8	1.87	99.7	5.1	33.1	162	0.006	0.0054	0.004					
40388258		302	18.0	1.63	102.0	5.6	32.2	158	0.005	0.0047	0.004					
40388259		313	17.0	1.63	102.0	6.0	33.1	160	0.005	0.0049	0.003					
40388260		1140	33.9	2.85	724	6.0	17.7	113	0.022	0.0572	0.201					
40388261		306	19.3	1.54	103.0	5.6	31.4	158	0.005	0.0044	0.004					
40388262		240	43.0	2.39	111.0	9.4	31.1	155	0.004	0.0049	0.003					
40388263		309	24.2	1.58	87.9	5.3	32.4	155	0.005	0.0042	0.003					
40388264		285	47.2	1.88	124.0	5.6	32.9	150	0.005	0.0053	0.004					
40388265		314	24.6	1.38	111.5	6.6	31.6	156	0.006	0.0051	0.004					
40388266		299	20.3	1.12	110.0	5.5	31.4	141	0.005	0.0054	0.004					
40388267		314	19.8	1.48	110.5	6.1	34.1	163	0.005	0.0049	0.004					
40388268		314	21.5	1.99	106.5	5.9	32.2	162	0.005	0.0048	0.004					
40388269		303	16.7	1.38	102.0	5.2	31.3	160	0.005	0.0047	0.004					
40388270		305	16.4	1.47	102.5	5.4	31.9	161	0.005	0.0050	0.004					
40388271		313	31.1	1.96	110.5	5.9	33.2	157	0.005	0.0049	0.004					
40388272		327	16.6	1.48	109.5	4.5	34.7	160	0.005	0.0053	0.004					
40388273		356	15.6	1.44	115.0	4.8	36.3	161	0.005	0.0056	0.004					
40388274		389	17.4	1.27	118.0	4.9	38.0	160	0.006	0.0061	0.004					
40388275		592	29.6	5.24	365	10.4	31.1	180	0.010	0.0140	0.021					
40388276		2350	60.9	15.60	1435	24.6	25.0	222	0.044	0.0414	0.099					
40388277		1090	26.9	7.22	721	13.6	30.5	149	0.012	0.0142	0.037					
40388278		500	31.8	4.82	348	9.0	29.8	141	0.007	0.0111	0.017					
40388279		3390	40.2	1.15	2040	5.3	17.4	122	0.042	0.0869	0.240					
40388280		24.1	16.8	0.93	18.4	11.3	16.1	88	0.001	0.0007	0.001					
40388281		2870	96.6	0.89	1560	5.0	11.9	105	0.037	0.0728	0.229					
40388282		2480	53.7	0.67	1620	5.3	13.9	99	0.032	0.0560	0.215					
40388283		1240	61.7	1.24	849	6.0	20.0	117	0.021	0.0352	0.113					
40388284		2140	29.3	0.84	1230	3.9	17.0	118	0.030	0.0624	0.232					
40388285		1420	20.1	0.73	1095	3.6	17.6	118	0.026	0.0739	0.192					
40388286		1040	21.5	0.75	743	2.8	22.6	102	0.015	0.0342	0.107					
40388287		190.5	13.7	0.69	193.0	1.5	36.2	79	0.004	0.0074	0.009					
40388288		215	17.0	0.61	240	1.2	32.0	79	0.006	0.0099	0.014					
40388289		202	50.6	0.60	242	1.8	17.0	85	0.010	0.0188	0.020					

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-ICP81 Cu %	ME-ICP81 Fe %	ME-ICP81 Fe2O3 %	ME-ICP81 K %	ME-ICP81 MgO %	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40388250		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40388251													
40388252													
40388253													
40388254													
40388255													
40388256													
40388257													
40388258													
40388259													
40388260													
40388261													
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40388273													
40388274													
40388275													
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Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
40388290		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40388291		0.17	45.5	18.65	12.05	9.36	7.39	2.13	1.11	0.353	1.31	0.14	0.15	0.05	0.04	100.22
40388292		5.68	46.7	19.10	10.30	9.79	8.12	2.51	0.50	0.062	1.00	0.13	0.10	0.04	0.02	99.02
40388293		6.21	46.5	19.85	9.90	10.05	9.41	2.35	0.31	0.077	0.77	0.12	0.07	0.04	0.01	99.81
40388294		6.30	45.6	19.40	9.51	10.10	9.76	2.09	0.36	0.082	0.78	0.11	0.09	0.04	0.01	99.21
40388295		5.90	46.9	20.5	8.95	10.55	8.75	2.16	0.68	0.051	0.86	0.11	0.10	0.05	0.02	101.12
40388296		6.20	46.5	19.05	10.35	10.35	9.05	2.23	0.52	0.083	1.16	0.13	0.13	0.04	0.02	100.68
40388297		6.35	46.8	18.45	11.20	9.82	8.28	2.38	0.77	0.075	1.22	0.14	0.14	0.05	0.02	99.88
40388298		6.29	45.0	18.15	10.25	10.35	8.51	1.82	1.19	0.039	1.04	0.14	0.11	0.06	0.07	99.72
40388299		6.33	46.8	18.40	10.60	10.60	8.84	2.35	1.03	0.039	1.03	0.14	0.12	0.05	0.04	100.26
40388300		2.59	46.3	18.35	10.75	8.44	8.79	1.85	1.84	0.038	1.13	0.14	0.12	0.07	0.12	100.85
40388301		2.73	45.0	18.10	10.50	8.19	8.66	1.84	1.87	0.036	1.05	0.14	0.13	0.08	0.12	98.69
40388302		6.13	44.3	17.35	10.20	8.39	8.88	1.61	1.76	0.030	1.14	0.16	0.13	0.06	0.19	99.61
40388303		6.20	46.0	18.00	11.30	8.40	8.86	2.03	1.44	0.031	1.26	0.15	0.13	0.05	0.11	100.96
40388304		6.39	45.7	18.30	10.75	8.20	10.15	1.83	1.33	0.032	0.98	0.14	0.11	0.06	0.09	100.98
40388305		6.14	45.3	18.60	10.20	8.46	9.85	1.76	1.49	0.044	0.92	0.14	0.10	0.06	0.11	100.10
40388306		3.56	45.4	17.90	10.25	7.21	9.00	1.46	2.81	0.070	1.01	0.17	0.11	0.07	0.24	100.90
40388307		3.65	45.8	18.40	11.00	7.38	8.78	1.64	2.49	0.099	0.93	0.17	0.11	0.07	0.17	101.39
40388308		1.79	45.4	17.00	10.15	8.32	6.47	1.31	4.16	0.086	1.51	0.19	0.19	0.05	0.21	100.32
40388309		2.67	43.3	18.60	12.90	5.27	7.40	1.47	4.09	1.760	1.29	0.20	0.12	0.07	0.32	101.52
40388310		3.08	45.4	19.95	9.92	8.66	6.62	2.02	2.16	0.108	1.11	0.16	0.14	0.05	0.15	101.02
40388311		1.67	57.0	18.95	7.37	7.58	2.57	4.03	2.37	0.004	0.97	0.11	0.31	0.07	0.11	101.78
40388312		2.57	42.9	19.35	13.40	7.51	8.51	1.74	1.75	1.900	1.34	0.16	0.11	0.05	0.12	101.73
40388313		3.13	42.2	19.20	12.20	6.66	8.02	1.43	2.76	2.04	1.17	0.20	0.10	0.06	0.28	101.73
40388314		2.74	40.6	17.35	12.55	8.46	8.34	0.86	2.69	1.575	0.91	0.18	0.10	0.04	0.20	100.56
40388315		2.73	42.9	17.90	11.25	5.66	9.17	1.18	3.51	1.070	0.88	0.19	0.10	0.08	0.37	100.51
40388316		2.96	39.9	19.70	11.80	7.35	8.24	1.69	1.26	1.680	0.85	0.15	0.09	0.05	0.10	98.05
40388317		2.56	41.5	18.65	11.20	9.44	8.92	1.36	1.62	0.599	0.82	0.13	0.10	0.06	0.12	100.86
40388318		2.88	44.6	20.3	9.36	8.78	8.83	1.70	1.41	0.271	0.82	0.13	0.09	0.05	0.10	101.87
40388319		3.24	44.4	19.40	9.49	10.45	7.89	1.51	1.54	0.263	0.95	0.16	0.10	0.04	0.08	101.98
40388320		2.25	44.8	20.8	9.81	9.37	7.72	1.91	1.36	0.068	1.04	0.14	0.13	0.06	0.09	101.38
40388321		0.17	44.9	19.20	12.35	9.59	7.63	2.16	1.10	0.361	1.35	0.14	0.16	0.05	0.04	100.97
40388322		2.94	46.4	20.5	9.60	10.40	7.42	2.17	0.91	0.046	1.09	0.12	0.13	0.04	0.03	100.75
40388323		3.17	47.8	18.50	11.50	10.50	8.05	2.44	0.63	0.042	1.39	0.15	0.16	0.04	0.02	101.71
40388324		6.04	47.1	18.05	11.75	10.55	8.47	2.35	0.50	0.042	1.37	0.15	0.16	0.03	0.02	100.93
40388325		6.08	46.7	19.05	11.55	10.60	8.43	2.40	0.52	0.045	1.36	0.14	0.15	0.04	0.02	101.78
40388326		6.09	47.2	19.20	11.50	10.45	6.95	2.54	0.96	0.052	1.61	0.15	0.20	0.05	0.04	101.84
40388327		5.77	46.6	17.85	11.90	9.37	7.31	2.09	1.59	0.239	1.57	0.15	0.17	0.05	0.09	101.74
40388328		6.06	46.5	18.30	11.35	8.69	8.90	1.96	2.02	0.035	1.36	0.15	0.16	0.05	0.09	101.99
40388329		6.17	47.2	17.85	11.50	9.93	9.27	2.22	0.83	0.033	1.43	0.15	0.17	0.04	0.03	101.93
40388329		2.81	45.6	17.35	11.05	9.94	9.63	2.16	0.51	0.038	1.33	0.14	0.14	0.03	0.02	98.51

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - B  
 Total # Pages: 5 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40388290		1.99	0.02	0.34	338	27.9	2580	2.50	3.50	1.92	1.17	20.0	3.94	2.8	0.73	12.3
40388291		0.65	<0.01	0.04	144.0	22.6	460	1.72	2.88	1.72	0.99	18.3	3.17	2.0	0.58	9.6
40388292		0.35	<0.01	0.03	97.5	15.4	550	1.45	2.31	1.12	0.73	16.8	2.28	1.4	0.48	6.7
40388293		1.28	<0.01	0.03	108.0	15.4	580	2.54	2.19	1.28	0.85	16.8	2.29	1.4	0.45	6.7
40388294		1.44	<0.01	0.03	205	18.4	360	2.30	2.84	1.30	0.90	17.3	2.54	1.7	0.50	8.2
40388295		1.07	<0.01	0.04	147.5	23.9	590	1.85	3.45	1.92	1.17	17.9	3.42	2.5	0.72	10.5
40388296		0.53	<0.01	0.05	193.5	24.9	560	1.80	3.70	2.05	1.18	19.6	3.85	2.6	0.75	11.1
40388297		2.99	0.04	0.04	604	20.2	290	2.79	2.88	1.54	1.05	17.5	2.74	2.0	0.61	8.9
40388298		1.56	<0.01	0.04	333	26.8	280	2.29	3.25	1.85	1.07	17.4	3.40	2.6	0.67	11.7
40388299		2.91	0.01	0.05	1090	22.4	280	4.01	3.43	1.65	1.17	17.9	3.51	2.3	0.63	9.6
40388300		2.97	0.01	0.04	1075	22.2	270	3.93	3.05	1.89	1.05	17.9	3.30	2.1	0.67	9.9
40388301		5.41	0.04	0.05	1620	23.1	220	3.79	3.10	1.84	1.11	17.0	3.12	2.2	0.69	10.4
40388302		3.20	0.01	0.05	1000	23.6	230	4.31	3.45	2.16	1.16	17.9	3.63	2.4	0.69	10.5
40388303		3.31	0.01	0.04	772	19.1	230	5.50	2.64	1.49	0.88	16.2	2.52	2.0	0.58	8.7
40388304		3.07	0.01	0.04	1030	18.4	320	4.37	2.49	1.32	1.01	17.2	2.93	1.7	0.55	8.1
40388305		5.20	0.02	0.09	2190	19.7	510	4.76	2.98	1.61	0.95	16.3	2.91	1.9	0.60	8.8
40388306		4.35	0.01	0.13	1525	19.4	700	4.69	2.92	1.52	0.99	17.4	2.67	2.0	0.59	8.7
40388307		5.27	0.06	0.06	1915	36.3	620	2.30	4.54	2.84	1.28	20.4	4.86	3.8	0.94	16.7
40388308		4.73	0.01	0.21	2830	21.0	>10000	5.35	2.67	1.77	0.88	21.5	3.00	2.2	0.59	9.4
40388309		4.57	0.03	0.11	1345	24.9	750	4.85	3.59	1.94	1.17	20.8	3.62	2.4	0.68	11.0
40388310		0.34	0.03	0.10	947	66.6	30	1.36	6.66	3.63	1.79	24.9	7.35	8.4	1.29	29.3
40388311		2.89	0.01	0.14	1090	16.5	>10000	5.64	2.59	1.40	0.99	25.4	2.51	1.9	0.51	7.5
40388312		5.41	0.31	0.25	2620	18.0	>10000	5.12	2.63	1.59	0.98	24.5	2.36	1.9	0.51	8.4
40388313		6.70	0.07	0.40	1715	22.1	>10000	3.51	2.33	1.38	0.95	24.3	2.44	1.6	0.44	10.7
40388314		6.25	0.02	0.30	3370	16.9	7740	5.36	2.19	1.32	0.96	17.7	2.38	1.7	0.46	8.6
40388315		5.19	0.01	0.73	941	16.8	>10000	5.58	2.31	1.25	0.89	24.2	2.54	1.8	0.48	7.4
40388316		6.34	0.05	0.90	1045	16.3	4090	5.34	2.22	1.18	0.95	18.1	2.38	1.7	0.43	7.2
40388317		5.43	0.02	0.30	880	17.2	1970	6.16	2.23	1.46	0.82	18.9	2.51	1.9	0.50	7.6
40388318		5.71	0.04	0.12	683	21.1	1890	4.08	2.88	1.73	1.08	21.0	2.87	2.1	0.54	9.8
40388319		4.08	0.02	0.09	805	21.2	470	4.98	3.05	1.66	0.92	19.1	2.87	2.4	0.64	9.3
40388320		1.94	0.03	0.32	348	28.2	2540	2.54	3.52	2.00	1.12	21.7	3.66	2.9	0.73	12.2
40388321		1.89	<0.01	0.04	249	21.5	310	3.08	2.82	1.93	1.01	19.7	3.16	2.3	0.63	9.2
40388322		0.49	0.02	0.05	200	28.2	310	2.05	4.18	2.25	1.39	21.5	3.83	3.1	0.85	12.6
40388323		0.39	0.02	0.05	160.5	26.3	310	1.91	3.95	1.90	1.28	20.7	3.88	2.7	0.74	11.4
40388324		0.77	0.02	0.04	163.5	25.5	300	1.90	3.85	2.09	1.10	20.0	3.99	2.5	0.74	11.3
40388325		0.94	0.03	0.05	346	32.8	380	1.99	4.91	2.91	1.48	23.0	4.98	3.7	1.04	14.5
40388326		2.76	0.03	0.11	846	31.2	1780	3.31	4.47	2.53	1.31	21.7	4.64	3.4	0.93	13.5
40388327		2.42	0.04	0.06	853	27.9	260	4.11	3.87	2.15	1.31	21.4	4.10	3.0	0.80	12.2
40388328		1.28	0.02	0.04	275	26.5	230	2.64	3.92	1.93	1.40	19.9	3.85	2.9	0.79	11.5
40388329		0.57	0.03	0.04	161.5	24.3	260	1.87	3.49	2.09	1.02	18.6	3.99	2.7	0.73	10.8

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - C  
 Total # Pages: 5 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTECIKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40388290		0.27	7.8	15.7	3.61	35.0	3.47	2	411	0.6	0.62	1.37	0.35	0.31	187	1
40388291		0.20	6.1	12.9	2.90	14.3	3.04	1	327	0.5	0.49	1.27	0.26	0.29	124	1
40388292		0.16	4.2	9.4	1.86	7.7	2.20	1	303	0.3	0.38	0.70	0.16	0.12	94	<1
40388293		0.18	4.4	9.2	2.02	10.2	2.06	1	321	0.3	0.34	0.67	0.18	0.15	94	<1
40388294		0.18	5.2	10.7	2.25	21.4	2.48	1	390	0.3	0.43	0.83	0.22	0.20	105	<1
40388295		0.27	6.9	13.8	3.07	14.9	3.33	1	323	0.5	0.55	1.03	0.26	0.24	139	<1
40388296		0.26	7.1	14.9	3.32	24.1	3.11	1	379	0.5	0.55	1.09	0.30	0.23	167	<1
40388297		0.22	5.9	11.8	2.80	38.1	2.49	1	477	0.4	0.47	0.87	0.25	0.19	130	<1
40388298		0.25	6.7	15.2	3.37	32.0	3.23	1	397	0.5	0.59	1.45	0.25	0.37	128	<1
40388299		0.25	6.3	13.2	2.82	66.7	3.10	1	591	0.4	0.49	0.92	0.24	0.18	142	<1
40388300		0.24	6.0	12.7	2.86	65.9	3.07	1	598	0.4	0.49	0.99	0.26	0.23	132	<1
40388301		0.24	6.8	12.8	3.06	58.8	3.07	1	460	0.4	0.54	0.97	0.26	0.25	135	<1
40388302		0.27	6.8	14.3	3.04	52.3	3.16	1	435	0.4	0.59	1.15	0.30	0.25	159	<1
40388303		0.24	5.6	11.1	2.61	48.9	2.12	1	463	0.3	0.50	0.81	0.22	0.62	117	<1
40388304		0.23	5.4	11.3	2.41	55.8	2.37	1	459	0.5	0.45	0.82	0.22	0.20	117	<1
40388305		0.21	5.6	11.1	2.56	100.0	2.73	1	556	0.3	0.42	0.86	0.24	0.23	130	<1
40388306		0.24	5.0	11.8	2.52	87.4	2.67	1	563	0.4	0.46	0.82	0.24	0.18	118	<1
40388307		0.33	9.7	19.7	4.83	118.5	4.54	1	373	0.8	0.77	1.45	0.37	0.37	151	1
40388308		0.16	5.6	11.9	2.76	142.5	2.76	1	570	0.5	0.43	0.79	0.19	0.16	324	<1
40388309		0.25	6.8	14.4	3.26	75.8	3.26	1	410	0.5	0.54	1.12	0.28	0.25	128	<1
40388310		0.55	13.8	38.3	8.92	94.8	7.84	2	581	0.9	1.09	3.83	0.49	1.46	120	<1
40388311		0.17	4.9	10.5	2.25	71.1	2.75	1	417	0.5	0.40	0.71	0.17	0.18	349	<1
40388312		0.15	4.8	9.4	2.36	106.0	2.22	1	511	0.5	0.42	0.77	0.19	0.14	317	1
40388313		0.14	4.2	11.1	2.65	91.3	2.43	1	312	0.4	0.37	0.62	0.16	0.16	245	1
40388314		0.17	4.6	9.5	2.26	123.5	2.19	1	648	0.4	0.38	0.74	0.14	0.18	205	1
40388315		0.14	4.3	9.4	2.19	46.4	2.23	<1	455	0.4	0.36	0.76	0.18	0.17	247	<1
40388316		0.15	4.2	9.6	2.14	50.9	2.21	1	454	0.4	0.29	0.75	0.14	0.16	156	1
40388317		0.15	4.7	10.2	2.29	53.6	2.52	1	481	0.5	0.40	0.65	0.15	0.17	124	1
40388318		0.19	5.4	12.0	2.84	57.3	2.93	1	370	0.5	0.42	0.81	0.19	0.20	139	1
40388319		0.19	6.3	12.2	2.78	47.9	2.78	1	441	0.5	0.45	0.83	0.20	0.20	120	<1
40388320		0.26	7.8	15.3	3.67	33.9	3.61	2	396	0.7	0.62	1.43	0.29	0.33	193	1
40388321		0.21	6.2	13.1	2.78	30.3	3.16	1	371	0.5	0.55	0.88	0.23	0.24	124	1
40388322		0.27	8.3	16.3	3.79	18.7	3.86	1	326	0.6	0.67	1.16	0.30	0.24	175	1
40388323		0.25	7.7	15.2	3.54	13.7	3.65	1	293	0.7	0.60	1.19	0.30	0.25	174	<1
40388324		0.26	7.5	14.4	3.42	14.0	3.28	1	286	0.6	0.62	1.12	0.27	0.22	160	1
40388325		0.34	9.8	19.8	4.45	31.1	4.76	1	392	0.7	0.77	1.48	0.35	0.34	212	<1
40388326		0.34	9.1	18.3	4.29	56.8	4.60	1	416	0.7	0.75	1.46	0.39	0.32	209	<1
40388327		0.31	7.9	17.2	3.64	73.5	3.48	1	414	0.6	0.63	1.16	0.27	0.27	174	1
40388328		0.25	8.0	15.3	3.49	27.2	3.57	1	325	0.6	0.61	1.20	0.32	0.28	164	5
40388329		0.27	7.3	13.9	3.31	14.1	3.15	1	270	0.7	0.65	1.09	0.26	0.26	151	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388290		18.9	1.81	97	4.7	0.14	0.009	0.029	0.003	0.41	1.0	0.04	0.43	0.48	0.26	65.0
40388291		14.8	1.56	78	0.4	0.01	<0.005	0.012	<0.001	<0.05	0.2	<0.01	0.46	0.05	0.08	55.0
40388292		10.8	0.97	55	0.1	<0.01	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.25	0.04	0.06	60.5
40388293		10.8	1.15	55	0.1	<0.01	0.007	0.012	0.001	<0.05	<0.2	<0.01	1.41	0.04	0.04	58.8
40388294		13.3	1.25	65	0.2	<0.01	<0.005	0.011	0.001	<0.05	0.2	<0.01	1.08	0.04	0.06	52.7
40388295		17.7	1.52	91	0.4	<0.01	<0.005	0.013	0.001	<0.05	0.2	<0.01	0.61	0.04	0.07	56.6
40388296		18.8	1.83	98	0.3	0.01	<0.005	0.017	0.001	<0.05	0.2	<0.01	0.34	0.06	0.07	55.6
40388297		14.5	1.62	76	0.4	0.01	0.010	0.014	0.001	<0.05	<0.2	<0.01	2.19	0.05	0.06	54.0
40388298		17.7	1.67	90	0.4	0.01	0.008	0.017	<0.001	<0.05	0.3	<0.01	1.14	0.06	0.06	54.9
40388299		16.5	1.80	92	0.2	0.01	0.021	0.015	0.001	<0.05	0.2	<0.01	2.95	0.05	0.06	54.9
40388300		16.0	1.59	75	0.4	0.01	0.025	0.017	0.001	0.22	<0.2	0.01	3.19	0.05	0.06	55.3
40388301		16.3	1.68	85	0.2	0.01	0.034	0.016	0.001	0.09	0.2	0.01	4.90	0.05	0.07	51.3
40388302		18.1	1.93	94	0.2	0.01	0.030	0.017	0.001	<0.05	0.2	0.01	4.33	0.05	0.07	58.8
40388303		14.5	1.32	71	0.2	0.01	0.023	0.015	0.001	<0.05	0.3	0.01	5.86	0.04	0.06	60.7
40388304		13.2	1.30	68	0.3	0.01	0.026	0.014	0.001	0.05	0.3	0.01	3.56	0.04	0.06	59.8
40388305		14.6	1.43	72	0.4	0.01	0.057	0.016	0.001	<0.05	0.2	0.01	5.75	0.06	0.07	61.5
40388306		14.6	1.38	67	0.3	0.01	0.038	0.016	<0.001	<0.05	0.2	0.01	4.31	0.06	0.06	62.2
40388307		23.1	2.21	133	0.2	0.01	0.061	0.025	0.001	0.09	0.3	<0.01	3.64	0.16	0.08	41.6
40388308		13.9	1.38	75	0.4	0.03	0.082	0.021	0.001	0.17	0.3	0.03	6.53	0.19	0.14	69.5
40388309		17.7	1.78	91	0.3	0.01	0.035	0.015	0.001	0.05	0.2	0.01	4.96	0.06	0.08	45.5
40388310		34.3	3.33	327	0.5	0.02	<0.005	0.033	0.001	<0.05	<0.2	0.02	0.40	0.04	0.07	17.2
40388311		12.7	1.24	69	0.1	0.03	0.030	0.018	0.001	<0.05	0.6	0.06	4.21	0.19	0.09	70.9
40388312		13.1	1.15	73	0.3	0.16	0.088	0.025	0.004	0.13	1.0	0.09	5.94	1.02	0.12	75.1
40388313		11.9	1.01	57	0.2	0.34	0.093	0.043	0.007	0.18	2.0	0.26	6.41	1.65	0.17	84.8
40388314		11.5	1.29	63	0.3	0.25	0.100	0.029	0.005	0.10	1.2	0.13	7.87	0.66	0.20	80.2
40388315		11.5	1.13	69	0.5	0.32	0.054	0.029	0.007	0.13	1.9	0.15	7.82	0.69	0.25	96.6
40388316		11.2	1.21	63	0.6	0.75	0.092	0.046	0.012	0.06	2.9	0.28	4.40	1.32	0.40	100.5
40388317		12.0	1.19	67	0.6	0.12	0.058	0.020	0.003	<0.05	0.8	0.06	8.29	0.25	0.12	62.7
40388318		14.7	1.62	77	0.3	0.02	0.055	0.017	0.001	0.08	0.5	0.04	5.62	0.23	0.10	46.7
40388319		15.3	1.49	83	0.3	0.02	0.038	0.015	0.001	<0.05	0.3	0.01	4.89	0.10	0.08	48.0
40388320		18.5	1.88	111	5.0	0.14	0.011	0.031	0.003	0.41	0.8	0.06	0.48	0.46	0.26	63.4
40388321		15.9	1.64	87	0.2	0.01	0.017	0.014	0.001	<0.05	0.2	0.01	2.09	0.04	0.07	44.3
40388322		20.9	1.94	115	0.3	0.01	0.005	0.018	0.001	<0.05	0.3	0.01	0.24	0.06	0.10	51.0
40388323		19.6	1.98	101	0.4	0.01	0.006	0.018	0.001	<0.05	0.2	0.01	0.28	0.06	0.10	52.7
40388324		18.8	1.80	100	0.3	0.01	0.006	0.019	0.001	<0.05	0.3	0.01	0.41	0.06	0.08	51.1
40388325		24.9	2.49	131	0.5	0.01	0.005	0.018	0.001	<0.05	0.2	0.01	0.38	0.07	0.11	48.0
40388326		23.4	2.49	130	0.4	0.01	0.022	0.019	0.001	<0.05	0.3	0.01	2.01	0.08	0.10	50.5
40388327		20.0	2.07	112	0.2	0.01	0.020	0.018	0.001	<0.05	0.3	0.01	2.21	0.08	0.10	55.8
40388328		20.0	1.99	112	0.4	0.01	0.012	0.017	0.001	<0.05	0.2	0.01	1.30	0.05	0.10	54.3
40388329		18.2	1.75	105	0.3	0.01	<0.005	0.016	0.001	<0.05	0.2	0.01	0.50	0.05	0.08	58.4

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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 Finalized Date: 9-OCT-2018  
 Account: RTECIKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40388290		1170	30.7	2.82	734	6.0	18.5	115	0.025	0.0430	0.204					
40388291		122.0	15.3	0.70	279	1.9	16.2	85	0.005	0.0242	0.045					
40388292		85.0	16.1	0.60	333	1.1	12.7	78	0.002	0.0039	0.011					
40388293		84.3	30.5	0.59	383	1.1	12.4	75	0.002	0.0035	0.008					
40388294		89.2	29.2	0.65	382	1.2	13.7	72	0.002	0.0033	0.005					
40388295		134.5	19.8	0.66	407	1.6	19.3	87	0.003	0.0049	0.007					
40388296		154.5	18.1	0.69	292	1.7	21.4	96	0.003	0.0060	0.008					
40388297		128.0	53.0	0.58	328	1.4	17.2	85	0.003	0.0049	0.006					
40388298		126.5	22.5	0.74	312	2.1	19.6	88	0.003	0.0052	0.007					
40388299		126.5	51.8	0.58	315	1.6	18.4	87	0.003	0.0075	0.010					
40388300		125.0	53.2	0.49	328	1.5	17.4	87	0.003	0.0076	0.010					
40388301		127.5	104.0	0.49	276	1.5	19.1	84	0.003	0.0054	0.009					
40388302		138.5	53.3	0.59	327	1.6	21.8	95	0.004	0.0050	0.006					
40388303		104.0	70.3	0.51	407	1.3	17.4	87	0.002	0.0042	0.007					
40388304		104.0	65.7	0.50	405	1.2	16.5	82	0.003	0.0040	0.007					
40388305		127.0	116.5	0.46	398	1.4	21.1	91	0.003	0.0060	0.010					
40388306		134.5	93.0	0.45	374	1.4	19.8	92	0.003	0.0078	0.012					
40388307		95.6	101.0	0.60	212	2.3	22.4	82	0.002	0.0040	0.013					
40388308		345	150.5	0.47	554	1.8	18.7	154	0.007	0.0261	0.113					
40388309		105.0	58.7	0.52	255	1.5	18.2	77	0.003	0.0067	0.007					
40388310		17.6	19.4	1.18	13.0	11.0	17.6	90	0.001	<0.0005	0.001					
40388311		539	56.5	0.47	573	1.5	17.3	134	0.013	0.0229	0.113					
40388312		1120	143.0	0.40	978	1.9	16.4	122	0.037	0.0460	0.216					
40388313		3090	146.5	0.35	1535	2.9	12.6	105	0.041	0.0752	0.318					
40388314		1675	181.5	0.38	1225	2.3	13.5	94	0.028	0.0527	0.236					
40388315		1695	100.0	0.45	1405	3.4	14.1	119	0.027	0.0700	0.297					
40388316		3520	127.0	0.39	2110	3.8	13.3	81	0.046	0.1155	0.390					
40388317		686	107.0	0.35	716	2.1	12.1	71	0.009	0.0262	0.064					
40388318		550	96.7	0.42	470	1.3	14.2	73	0.012	0.0612	0.096					
40388319		303	69.1	0.58	376	1.4	13.8	74	0.002	0.0081	0.021					
40388320		1135	33.9	2.80	700	5.7	19.2	111	0.018	0.0410	0.212					
40388321		120.5	33.8	0.54	273	1.5	15.7	74	0.002	0.0060	0.015					
40388322		156.0	15.5	0.71	244	1.7	22.8	89	0.002	0.0084	0.011					
40388323		163.0	13.6	0.70	283	1.7	23.1	91	0.002	0.0083	0.014					
40388324		161.5	16.6	0.75	284	1.8	23.4	88	0.002	0.0076	0.013					
40388325		181.0	18.6	0.86	216	2.5	26.4	94	0.002	0.0070	0.011					
40388326		175.5	34.9	0.71	288	1.8	23.6	99	0.002	0.0079	0.018					
40388327		135.5	41.8	0.67	383	1.7	23.6	88	0.002	0.0047	0.008					
40388328		135.0	26.5	0.72	369	1.7	22.1	88	0.001	0.0050	0.010					
40388329		130.5	19.3	0.70	423	1.7	23.2	87	0.001	0.0046	0.008					

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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 Plus Appendix Pages  
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 Account: RTECIKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-ICP81 Cu %	ME-ICP81 Fe %	ME-ICP81 Fe2O3 %	ME-ICP81 K %	ME-ICP81 MgO %	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40388290		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40388291													
40388292													
40388293													
40388294													
40388295													
40388296													
40388297													
40388298													
40388299													
40388300													
40388301													
40388302													
40388303													
40388304													
40388305													
40388306													
40388307													
40388308													
40388309													
40388310													
40388311													
40388312													
40388313													
40388314													
40388315													
40388316													
40388317													
40388318													
40388319													
40388320													
40388321													
40388322													
40388323													
40388324													
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40388326													
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Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40388330		2.74	47.0	18.00	11.30	10.30	9.77	2.24	0.53	0.039	1.32	0.14	0.15	0.03	0.02	101.41
40388331		6.05	46.4	17.55	11.60	9.38	9.96	2.04	1.00	0.042	1.37	0.15	0.16	0.04	0.04	101.01
40388332		5.72	45.5	17.30	11.40	9.00	9.70	1.64	1.59	0.046	1.31	0.16	0.14	0.05	0.17	101.44
40388333		6.14	45.6	17.45	11.15	9.64	9.60	1.81	1.17	0.050	1.38	0.14	0.17	0.05	0.08	100.75
40388334		5.94	46.4	18.25	11.35	9.98	8.71	1.97	1.16	0.058	1.44	0.15	0.17	0.05	0.06	101.82
40388335		5.75	46.3	18.10	10.90	9.72	8.39	1.93	1.41	0.057	1.29	0.15	0.14	0.04	0.08	101.09
40388336		6.40	46.6	18.80	10.70	10.45	9.77	2.05	0.63	0.032	1.13	0.14	0.13	0.04	0.03	101.44
40388337		5.76	46.3	18.60	10.60	10.15	9.77	2.05	0.61	0.031	1.13	0.13	0.13	0.04	0.03	100.88
40388338		6.35	46.2	18.10	10.50	8.32	9.44	1.94	1.71	0.038	1.11	0.13	0.12	0.05	0.09	100.20
40388339		5.00	45.1	17.90	9.87	8.29	8.70	1.55	2.32	0.053	1.11	0.15	0.11	0.06	0.21	100.14
40388340		1.87	57.3	18.05	7.72	5.95	2.64	3.85	2.63	0.003	1.02	0.11	0.28	0.07	0.11	100.14
40388341		5.68	46.1	18.70	10.20	7.92	9.37	1.72	2.05	0.060	1.10	0.14	0.13	0.07	0.13	100.67
40388342		5.74	44.5	17.75	9.62	8.41	9.55	1.07	2.61	0.062	1.04	0.15	0.13	0.09	0.25	100.44
40388343		5.66	46.5	19.25	10.20	8.33	9.36	1.92	1.68	0.088	1.12	0.13	0.13	0.05	0.08	100.85
40388344		5.76	45.4	16.95	10.10	6.89	8.48	1.24	3.60	0.078	1.52	0.17	0.22	0.09	0.43	100.63
40388345		6.71	45.1	18.85	9.94	8.67	9.56	1.80	1.52	0.109	1.08	0.13	0.12	0.06	0.11	99.21
40388346		6.53	46.4	19.20	10.40	9.35	9.64	1.99	1.12	0.130	1.09	0.13	0.13	0.05	0.06	101.06
40388347		5.59	45.0	18.10	9.94	8.67	8.82	1.47	2.26	0.131	1.07	0.14	0.12	0.07	0.17	100.61
40388348		5.79	45.2	18.05	10.10	6.65	8.46	1.47	3.12	0.144	1.14	0.16	0.13	0.08	0.32	99.73
40388349		5.55	46.5	18.30	10.50	6.53	7.15	1.77	3.40	0.158	1.21	0.15	0.13	0.06	0.20	100.06
40388350		0.17	45.2	18.55	12.05	9.13	7.48	2.11	1.09	0.346	1.31	0.14	0.16	0.05	0.04	99.68
40388351		3.78	46.1	18.35	10.00	7.31	7.53	1.97	2.50	0.154	1.28	0.13	0.14	0.06	0.12	98.02
40388352		3.37	48.3	18.80	10.70	9.62	6.52	2.56	1.08	0.280	1.71	0.14	0.27	0.04	0.04	100.96
40388353		2.56	43.0	20.7	11.45	9.73	8.77	1.99	0.40	1.860	1.11	0.13	0.12	0.03	0.01	100.36
40388354		2.96	42.1	19.00	12.75	8.92	10.90	1.88	0.41	1.720	1.09	0.14	0.13	0.03	0.01	100.09
40388355		3.88	45.2	18.25	11.50	9.55	10.70	2.10	0.40	0.501	1.18	0.14	0.15	0.03	0.01	100.11
40388356		6.14	46.7	17.90	11.60	9.65	9.66	2.25	0.49	0.176	1.35	0.14	0.19	0.04	0.02	100.71
40388357		6.69	46.3	18.05	11.15	9.91	8.87	2.33	0.44	0.142	1.31	0.14	0.15	0.04	0.02	99.08
40388358		4.17	46.4	18.30	11.35	9.95	8.30	2.39	0.47	0.162	1.38	0.14	0.16	0.04	0.02	99.39
40388359		1.57	45.1	18.20	11.60	10.05	7.79	2.30	0.50	0.702	1.57	0.14	0.15	0.04	0.02	98.53
40388360		1.54	45.9	18.55	11.85	10.15	7.85	2.34	0.52	0.710	1.54	0.14	0.17	0.03	0.02	100.15
40388361		2.80	44.4	18.35	12.15	9.61	9.54	2.06	0.45	0.989	1.37	0.14	0.15	0.03	0.01	99.83
40388362		2.98	45.3	18.60	11.10	9.63	9.48	1.96	0.75	0.156	1.11	0.13	0.13	0.05	0.02	99.74
40388363		2.89	43.9	18.20	12.10	8.43	9.63	1.66	1.42	0.345	1.13	0.15	0.13	0.05	0.09	99.86
40388364		3.23	40.8	19.50	14.20	8.48	9.70	1.78	0.74	2.57	1.30	0.14	0.11	0.04	0.02	100.46
40388365		3.32	34.9	22.2	15.20	7.82	9.55	1.55	0.38	5.14	1.15	0.13	0.08	0.03	0.01	99.15
40388366		2.89	42.7	19.85	12.60	9.34	9.04	2.07	0.40	2.21	1.16	0.13	0.11	0.03	0.01	100.34
40388367		2.99	45.3	19.55	11.40	9.51	9.62	2.19	0.42	0.212	0.82	0.12	0.10	0.04	0.01	100.21
40388368		3.09	46.7	19.00	11.55	9.41	8.96	2.34	0.45	0.076	1.00	0.12	0.12	0.03	0.01	100.73
40388369		3.21	44.1	18.80	14.20	8.76	7.95	2.15	0.53	0.345	0.73	0.12	0.09	0.04	0.01	99.30

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - B  
 Total # Pages: 5 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40388330		0.57	0.03	0.04	184.5	26.9	290	2.01	3.71	2.31	1.29	21.1	3.92	3.1	0.83	12.1
40388331		1.28	0.03	0.05	380	24.4	290	2.73	3.77	2.14	1.06	19.0	3.67	2.8	0.68	11.1
40388332		3.43	0.04	0.05	1690	27.9	370	4.14	4.11	2.32	1.37	21.2	3.86	3.1	0.86	12.6
40388333		2.46	0.04	0.04	673	26.3	350	2.81	3.92	2.23	1.33	17.8	4.11	3.1	0.78	12.1
40388334		2.07	0.03	0.04	493	27.1	400	3.24	3.94	2.45	1.29	20.0	3.85	3.1	0.79	12.3
40388335		2.58	0.03	0.06	725	26.3	400	3.17	3.76	2.04	1.20	19.5	4.11	2.8	0.74	11.7
40388336		0.94	0.03	0.04	254	21.9	220	2.52	3.18	1.92	1.03	19.0	3.12	2.2	0.66	9.6
40388337		1.31	0.03	0.03	251	21.1	220	3.04	2.95	1.96	1.02	19.8	3.16	2.3	0.61	9.6
40388338		2.45	0.03	0.06	775	21.8	290	3.42	3.09	1.77	1.06	17.6	3.30	2.4	0.64	9.8
40388339		4.72	0.07	0.05	1920	21.6	400	4.63	2.77	1.58	1.01	17.7	3.07	2.3	0.64	9.4
40388340		0.41	0.06	0.10	1000	68.3	30	1.43	6.61	3.93	1.95	24.0	7.67	9.4	1.39	30.1
40388341		2.98	0.03	0.03	1225	21.7	430	4.62	2.90	1.53	0.97	18.5	2.93	2.4	0.68	9.6
40388342		5.21	0.05	0.04	2180	23.8	460	4.49	2.81	1.64	1.17	16.3	3.16	2.1	0.54	10.7
40388343		2.01	0.02	0.03	698	21.9	640	4.04	3.15	1.74	0.99	19.1	3.25	2.3	0.62	9.8
40388344		5.46	0.06	0.06	3930	33.5	580	5.68	4.20	2.21	1.38	19.5	4.55	3.1	0.87	15.6
40388345		2.16	0.04	0.02	1000	20.1	780	3.03	2.96	1.59	1.06	17.6	3.02	2.1	0.56	8.9
40388346		1.37	0.03	0.03	529	20.7	950	2.41	3.14	1.60	1.04	18.2	2.92	2.2	0.60	9.2
40388347		4.65	0.08	0.04	1495	21.6	950	5.16	2.76	1.65	0.93	16.7	3.19	2.0	0.61	9.7
40388348		4.71	0.07	0.10	2910	27.6	1030	5.84	3.73	1.91	1.27	17.9	3.75	2.8	0.77	12.5
40388349		4.00	0.04	0.16	1825	25.6	1140	5.90	3.27	1.89	1.00	18.8	3.68	2.4	0.74	11.3
40388350		2.02	0.04	0.35	351	27.6	2490	2.73	3.58	2.00	1.27	21.0	3.87	2.8	0.76	12.8
40388351		2.38	0.04	0.17	1040	28.6	1080	4.34	3.57	1.93	1.18	19.5	4.00	3.0	0.69	13.0
40388352		0.90	0.02	0.06	365	55.0	2000	2.04	7.13	3.99	2.02	23.5	7.25	5.3	1.48	25.3
40388353		1.06	0.03	0.08	127.5	20.7	>10000	2.89	3.07	1.78	1.11	26.4	3.12	2.3	0.59	9.5
40388354		1.01	0.05	0.44	123.0	22.6	>10000	1.79	3.22	1.76	1.04	22.8	3.47	2.4	0.64	10.1
40388355		0.40	0.02	0.11	133.5	24.1	3540	1.32	3.60	1.89	1.06	20.0	3.62	2.4	0.74	10.8
40388356		0.54	0.03	0.09	154.0	28.4	1250	1.83	3.88	1.97	1.33	19.5	4.21	2.7	0.81	12.4
40388357		0.23	0.02	0.04	145.5	25.0	1020	1.28	3.48	2.31	1.26	18.9	3.56	2.8	0.75	11.0
40388358		0.33	0.01	0.06	152.0	27.2	1160	1.59	3.74	2.36	1.25	20.3	4.06	2.8	0.85	12.2
40388359		0.37	0.01	0.07	151.0	26.4	4940	1.44	4.05	2.42	1.25	22.1	3.96	2.8	0.87	11.7
40388360		0.38	0.01	0.09	158.0	27.7	4970	1.50	3.97	2.38	1.36	22.7	4.26	2.8	0.84	12.7
40388361		0.58	0.01	0.27	136.0	23.7	6910	1.83	3.46	1.90	1.20	21.9	3.62	2.6	0.75	10.6
40388362		1.32	0.03	0.23	188.0	22.1	1100	2.64	3.17	1.87	1.15	18.2	3.40	2.4	0.62	10.2
40388363		2.62	0.03	0.66	777	21.6	2410	3.74	3.10	1.94	1.09	18.7	3.61	2.2	0.65	9.4
40388364		1.08	0.01	0.65	172.0	19.1	>10000	2.14	2.78	1.67	0.95	27.7	2.92	1.9	0.56	8.7
40388365		1.01	0.01	0.55	88.5	13.7	>10000	2.19	2.02	1.01	0.72	38.1	1.91	1.6	0.38	6.2
40388366		0.69	0.01	0.35	113.5	19.7	>10000	1.84	2.77	1.39	0.88	24.8	3.00	2.1	0.55	8.8
40388367		0.92	0.01	0.63	103.0	15.5	1420	1.97	2.08	1.32	0.94	17.4	2.35	1.7	0.49	7.1
40388368		0.96	0.01	0.53	128.0	19.8	520	4.38	2.79	1.53	1.01	18.2	2.79	1.9	0.60	9.4
40388369		1.47	<0.01	1.87	117.5	16.0	2410	3.22	2.19	1.10	0.83	18.0	2.46	1.5	0.48	7.7

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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



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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 4 - C  
 Total # Pages: 5 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40388330		0.29	8.0	15.3	3.58	15.9	3.80	1	306	0.7	0.63	1.10	0.31	0.26	169	<1
40388331		0.24	7.3	14.5	3.28	35.1	3.59	1	335	0.6	0.60	1.15	0.29	0.25	158	<1
40388332		0.31	8.3	16.2	3.69	59.9	3.89	1	507	0.7	0.66	1.20	0.33	0.30	177	<1
40388333		0.25	8.0	15.8	3.63	38.1	3.94	2	440	0.6	0.60	1.16	0.31	0.26	162	<1
40388334		0.27	8.2	15.6	3.65	39.3	3.85	1	428	0.7	0.62	1.11	0.28	0.25	172	<1
40388335		0.28	7.2	15.5	3.40	50.5	3.72	1	378	0.7	0.64	1.07	0.25	0.60	153	1
40388336		0.22	6.2	12.0	2.83	21.1	2.92	1	321	0.5	0.51	0.87	0.26	0.26	127	<1
40388337		0.24	6.5	12.2	2.80	20.5	2.88	1	323	0.6	0.53	0.88	0.21	0.20	138	<1
40388338		0.22	6.5	12.1	2.99	62.4	2.90	1	360	0.3	0.49	1.19	0.25	0.46	145	<1
40388339		0.20	6.1	11.8	2.84	82.5	2.94	1	431	0.3	0.50	0.88	0.25	0.22	149	<1
40388340		0.58	13.6	38.4	9.38	100.5	8.30	3	587	0.6	1.27	4.41	0.53	1.77	143	<1
40388341		0.26	6.6	12.6	2.88	79.0	2.91	1	563	0.4	0.52	0.93	0.23	0.29	147	<1
40388342		0.25	8.7	13.7	3.10	88.4	2.99	1	710	0.3	0.50	1.09	0.24	0.17	140	<1
40388343		0.21	7.2	12.5	2.99	67.6	3.24	1	447	0.4	0.55	0.97	0.27	0.30	153	<1
40388344		0.27	9.4	18.8	4.44	119.0	4.35	1	704	0.5	0.74	1.73	0.31	0.41	185	1
40388345		0.22	6.3	11.3	2.71	53.9	2.93	1	425	0.3	0.49	0.95	0.26	0.23	139	<1
40388346		0.24	6.5	11.8	2.81	39.4	2.65	1	406	0.5	0.52	0.92	0.25	0.23	156	<1
40388347		0.21	5.9	12.4	2.77	80.3	2.93	1	521	0.4	0.53	0.88	0.22	0.22	147	<1
40388348		0.30	7.7	15.2	3.55	107.0	3.62	1	652	0.4	0.58	1.50	0.27	0.45	146	<1
40388349		0.25	7.2	14.5	3.34	123.5	3.51	1	494	0.5	0.54	1.04	0.30	0.26	163	<1
40388350		0.28	7.9	15.6	3.63	35.3	3.85	2	418	0.5	0.68	1.30	0.30	0.40	188	<1
40388351		0.31	7.5	15.9	3.80	92.3	3.85	1	475	0.4	0.62	1.45	0.29	0.42	163	<1
40388352		0.55	15.3	30.3	7.29	34.2	7.12	2	348	0.9	1.25	2.67	0.57	0.71	200	1
40388353		0.26	6.4	12.2	2.75	11.9	2.69	1	293	0.4	0.49	0.89	0.24	0.14	273	<1
40388354		0.23	6.6	12.6	3.02	11.2	2.86	1	261	0.4	0.48	0.99	0.23	0.26	245	1
40388355		0.25	7.1	13.4	3.28	10.6	3.42	1	264	0.4	0.62	1.12	0.29	0.33	171	<1
40388356		0.31	8.3	16.2	3.82	14.7	4.07	1	287	0.5	0.64	1.25	0.34	0.35	178	<1
40388357		0.29	7.6	13.8	3.47	11.2	3.53	1	281	0.5	0.63	1.04	0.26	0.27	178	1
40388358		0.29	7.9	15.5	3.78	12.2	4.07	1	284	0.5	0.66	1.27	0.32	0.50	185	<1
40388359		0.35	8.2	15.3	3.44	13.4	4.11	1	279	0.5	0.64	1.24	0.31	0.29	255	<1
40388360		0.31	8.8	16.0	3.67	14.0	3.72	1	286	0.6	0.71	1.23	0.35	0.29	251	<1
40388361		0.24	7.9	13.2	3.12	13.2	3.37	1	281	0.6	0.66	1.05	0.28	0.26	246	1
40388362		0.25	7.0	12.4	2.98	23.6	2.82	1	438	0.4	0.55	0.90	0.23	0.28	129	<1
40388363		0.24	6.7	11.5	2.91	53.7	3.52	1	393	0.4	0.53	0.85	0.27	0.21	158	<1
40388364		0.19	6.0	11.1	2.66	25.9	2.73	1	305	0.4	0.50	0.83	0.26	0.19	356	<1
40388365		0.15	3.9	7.8	1.93	12.8	1.60	1	242	0.2	0.29	0.49	0.13	0.06	556	<1
40388366		0.22	5.4	10.5	2.66	11.8	2.28	1	275	0.3	0.44	0.90	0.22	0.22	349	<1
40388367		0.16	4.6	9.1	2.10	12.3	2.18	<1	293	0.3	0.41	0.61	0.19	0.19	102	<1
40388368		0.22	6.0	11.7	2.70	13.7	2.60	1	292	0.4	0.49	0.98	0.20	0.33	114	<1
40388369		0.16	4.5	9.3	2.16	19.0	2.11	1	297	0.3	0.38	1.02	0.20	0.71	143	<1

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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





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**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388330		20.0	1.93	107	0.2	0.01	0.005	0.018	0.001	<0.05	0.2	0.02	0.49	0.05	0.08	56.6
40388331		18.5	1.88	102	0.4	0.01	0.012	0.019	0.001	<0.05	0.2	0.01	1.86	0.31	0.09	59.2
40388332		20.1	2.01	119	0.2	0.01	0.027	0.018	0.001	<0.05	0.2	0.01	4.04	0.06	0.08	58.6
40388333		19.5	2.04	110	0.3	0.01	0.019	0.018	0.001	<0.05	<0.2	0.01	2.80	0.06	0.09	54.4
40388334		20.4	1.99	114	0.2	0.01	0.014	0.017	0.001	<0.05	<0.2	0.01	1.62	0.17	0.12	54.3
40388335		19.1	1.93	101	0.2	0.01	0.012	0.018	0.001	<0.05	0.3	0.01	1.08	0.07	0.09	50.6
40388336		16.2	1.51	84	0.3	0.01	0.010	0.014	<0.001	<0.05	0.2	<0.01	0.94	0.05	0.08	55.2
40388337		16.1	1.65	87	0.2	0.01	0.011	0.015	<0.001	<0.05	0.3	0.01	1.40	0.04	0.08	56.7
40388338		15.9	1.70	88	0.3	0.01	0.020	0.015	0.001	<0.05	<0.2	0.01	2.82	0.08	0.07	57.6
40388339		15.6	1.40	82	0.1	0.01	0.043	0.017	0.001	0.05	0.2	0.01	4.97	0.08	0.08	53.6
40388340		36.6	3.42	370	0.6	0.01	<0.005	0.029	<0.001	<0.05	0.3	0.02	0.35	0.04	0.08	19.1
40388341		16.2	1.54	85	0.4	0.01	0.024	0.014	0.001	<0.05	0.3	<0.01	2.65	0.04	0.07	55.7
40388342		15.2	1.50	79	0.2	0.01	0.032	0.014	0.001	0.07	0.3	0.01	3.33	0.05	0.07	52.3
40388343		15.6	1.63	90	0.2	0.01	0.018	0.015	0.001	<0.05	0.3	0.01	1.91	0.05	0.08	53.3
40388344		22.5	2.30	123	0.5	0.01	0.035	0.015	0.001	0.07	0.2	0.01	5.09	0.05	0.10	47.6
40388345		15.0	1.63	77	0.1	0.01	0.014	0.014	0.001	<0.05	0.2	0.01	1.31	0.05	0.06	52.2
40388346		15.7	1.76	81	0.2	0.01	0.009	0.015	0.001	<0.05	0.2	0.01	1.12	0.05	0.07	54.4
40388347		15.9	1.63	77	0.3	0.01	0.033	0.016	0.001	0.05	0.2	0.01	4.80	0.10	0.07	51.6
40388348		19.1	1.97	109	0.3	0.01	0.038	0.018	0.001	0.05	0.3	0.01	6.05	0.06	0.06	51.8
40388349		17.9	1.78	96	0.3	0.01	0.038	0.020	0.001	0.07	0.3	0.01	4.61	0.07	0.08	55.1
40388350		19.1	1.76	107	4.9	0.15	0.010	0.031	0.003	0.40	1.1	0.06	0.48	0.44	0.26	60.4
40388351		19.6	1.94	111	0.6	0.01	0.021	0.015	<0.001	<0.05	0.3	0.01	2.04	0.06	0.09	49.8
40388352		37.1	3.69	222	0.6	0.01	0.005	0.018	0.001	<0.05	0.4	0.01	0.41	0.06	0.10	40.0
40388353		15.8	1.67	87	0.1	0.06	0.008	0.017	0.002	<0.05	0.6	0.03	0.39	0.17	0.07	66.6
40388354		16.9	1.63	93	0.3	0.45	<0.005	0.030	0.006	<0.05	1.8	0.14	0.33	0.76	0.18	90.0
40388355		18.6	1.91	96	0.2	0.06	<0.005	0.019	0.001	<0.05	0.4	0.02	0.12	0.13	0.10	66.2
40388356		20.4	2.05	110	0.8	0.02	<0.005	0.019	0.001	<0.05	0.3	0.01	0.17	0.07	0.10	57.8
40388357		19.0	1.78	103	0.3	0.01	<0.005	0.016	0.001	<0.05	0.4	0.01	0.09	0.05	0.08	54.0
40388358		21.2	2.01	110	0.3	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.13	0.06	0.10	53.7
40388359		21.1	2.25	110	0.3	0.02	<0.005	0.017	<0.001	<0.05	0.2	0.01	0.09	0.06	0.09	53.7
40388360		21.2	2.05	112	0.5	0.04	<0.005	0.018	0.001	<0.05	0.3	0.01	0.09	0.07	0.11	54.3
40388361		18.5	1.63	96	0.4	0.11	0.005	0.022	0.003	<0.05	1.0	0.05	0.16	0.30	0.13	73.3
40388362		16.8	1.87	91	0.5	0.06	<0.005	0.023	0.003	<0.05	0.7	0.04	0.21	0.23	0.15	64.3
40388363		16.8	1.63	88	0.4	0.22	0.014	0.038	0.007	0.06	2.0	0.09	0.56	0.60	0.32	91.3
40388364		14.5	1.27	73	0.1	0.24	0.007	0.033	0.007	<0.05	1.7	0.13	0.31	0.68	0.23	103.0
40388365		10.0	0.95	59	0.3	0.19	<0.005	0.026	0.005	<0.05	1.6	0.10	0.33	0.68	0.18	124.5
40388366		14.1	1.36	80	0.5	0.13	<0.005	0.022	0.004	<0.05	0.9	0.06	0.21	0.34	0.15	79.6
40388367		11.7	1.11	67	0.4	0.40	<0.005	0.027	0.005	<0.05	1.4	0.09	0.30	0.55	0.20	84.1
40388368		14.0	1.28	77	1.2	0.29	<0.005	0.026	0.004	0.25	0.9	0.04	0.34	0.35	0.23	75.6
40388369		11.3	1.08	63	3.6	1.29	<0.005	0.052	0.007	0.15	2.3	0.15	0.56	0.79	0.73	130.0

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40388330		129.0	18.7	0.68	418	1.7	22.3	86	0.001	0.0044	0.008					
40388331		140.5	25.0	0.69	443	1.8	24.7	89	0.001	0.0052	0.009					
40388332		133.0	73.6	0.56	425	1.7	22.5	88	0.002	0.0081	0.013					
40388333		132.0	54.8	0.64	401	1.8	22.6	87	0.001	0.0051	0.010					
40388334		157.5	36.5	2.38	389	11.6	22.2	101	0.001	0.0040	0.007					
40388335		138.5	32.3	0.59	357	1.7	21.8	86	0.001	0.0043	0.009					
40388336		120.5	24.3	0.62	431	1.5	20.7	82	0.001	0.0048	0.009					
40388337		121.0	28.8	0.64	443	1.5	20.5	81	0.001	0.0050	0.010					
40388338		118.0	46.9	0.56	466	1.5	19.1	79	0.001	0.0049	0.010					
40388339		113.0	86.9	0.45	416	1.3	18.0	75	0.001	0.0046	0.010					
40388340		20.7	18.6	0.85	16.1	11.6	18.0	93	<0.001	<0.0005	0.001					
40388341		114.5	66.2	0.47	431	1.5	18.1	78	0.001	0.0048	0.011					
40388342		122.0	134.5	0.41	418	1.5	16.9	75	0.003	0.0145	0.057					
40388343		114.0	44.8	0.67	434	2.4	17.6	80	0.001	0.0051	0.012					
40388344		110.0	112.0	0.70	345	2.9	21.6	88	<0.001	0.0047	0.010					
40388345		110.5	51.3	0.55	433	1.6	16.3	77	0.001	0.0054	0.011					
40388346		120.5	36.1	0.61	443	1.6	17.9	79	0.002	0.0066	0.011					
40388347		111.0	89.8	0.50	433	1.5	15.9	77	0.003	0.0060	0.013					
40388348		109.0	96.1	0.61	424	2.1	16.7	82	0.001	0.0059	0.013					
40388349		125.0	66.1	0.61	434	1.7	18.0	88	0.001	0.0061	0.013					
40388350		1105	33.4	2.82	693	6.0	18.7	108	0.020	0.0461	0.222					
40388351		121.5	37.9	0.65	343	2.5	19.6	85	0.001	0.0056	0.010					
40388352		121.5	21.0	1.29	213	3.2	22.1	96	0.001	0.0057	0.012					
40388353		551	23.9	0.67	603	1.8	17.1	135	0.010	0.0384	0.161					
40388354		1910	20.9	0.89	1500	2.5	17.6	130	0.034	0.0852	0.325					
40388355		356	13.2	0.70	620	1.8	19.4	96	0.005	0.0218	0.054					
40388356		177.5	18.0	0.84	457	2.4	21.2	98	0.003	0.0107	0.018					
40388357		141.0	14.4	0.70	358	1.8	21.5	90	0.002	0.0084	0.018					
40388358		130.0	14.9	0.81	326	2.1	22.3	96	0.002	0.0100	0.020					
40388359		141.0	16.6	0.79	302	2.0	26.0	109	0.002	0.0091	0.023					
40388360		182.0	16.5	0.78	316	2.1	24.0	110	0.002	0.0104	0.021					
40388361		858	18.3	0.89	783	2.2	21.0	112	0.011	0.0514	0.129					
40388362		603	30.0	0.73	477	2.1	18.1	88	0.008	0.0132	0.026					
40388363		1665	51.0	0.65	1150	3.3	18.6	106	0.018	0.0533	0.082					
40388364		1935	25.7	0.71	1495	2.9	17.8	157	0.028	0.0699	0.241					
40388365		2040	18.9	0.66	1710	2.7	13.5	226	0.032	0.0842	0.518					
40388366		1000	15.3	0.83	923	2.6	17.1	138	0.025	0.0373	0.198					
40388367		1640	17.1	0.66	1275	3.2	13.4	84	0.016	0.0814	0.154					
40388368		998	15.0	1.23	653	4.4	14.6	89	0.009	0.0275	0.077					
40388369		1930	16.6	1.52	1205	13.0	12.8	100	0.027	0.0376	0.187					

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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 Account: RTECIKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-ICP81 Cu %	ME-ICP81 Fe %	ME-ICP81 Fe2O3 %	ME-ICP81 K %	ME-ICP81 MgO %	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40388330		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40388331													
40388332													
40388333													
40388334													
40388335													
40388336													
40388337													
40388338													
40388339													
40388340													
40388341													
40388342													
40388343													
40388344													
40388345													
40388346													
40388347													
40388348													
40388349													
40388350													
40388351													
40388352													
40388353													
40388354													
40388355													
40388356													
40388357													
40388358													
40388359													
40388360													
40388361													
40388362													
40388363													
40388364													
40388365													
40388366													
40388367													
40388368													
40388369													

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40388370		2.06	58.6	18.40	7.03	5.93	2.37	3.88	2.59	0.003	0.91	0.11	0.26	0.07	0.11	100.62
40388371		3.03	44.9	18.55	15.75	8.55	7.93	2.07	1.04	0.215	0.75	0.12	0.09	0.05	0.01	101.75
40388372		3.04	42.4	17.55	16.45	9.22	7.81	2.08	0.52	0.242	0.69	0.13	0.08	0.03	0.01	98.42
40388373		3.05	42.7	18.40	15.05	9.24	8.05	2.19	0.42	0.123	0.78	0.12	0.09	0.03	0.01	98.06
40388374		3.10	42.2	17.15	17.65	9.26	8.05	2.17	0.26	0.059	0.90	0.14	0.10	0.03	0.01	98.89
40388375		3.53	43.1	17.00	16.65	8.90	7.59	2.29	0.56	0.069	1.02	0.14	0.11	0.03	0.01	98.54
40388376		3.15	44.6	17.45	15.55	8.29	7.72	2.16	1.05	0.068	1.18	0.15	0.12	0.05	0.02	99.91
40388377		3.00	45.3	17.55	14.60	7.79	7.58	2.05	1.42	0.051	1.43	0.15	0.16	0.05	0.04	100.07
40388378		2.78	49.1	13.70	15.15	9.24	5.63	2.56	0.86	0.027	2.83	0.20	0.27	0.03	0.04	100.41
40388379		3.06	50.6	13.10	15.65	8.49	5.28	2.82	0.89	0.028	3.36	0.22	0.30	0.03	0.03	101.62
40388380		0.17	42.8	18.45	14.10	9.26	7.51	2.05	0.64	0.318	1.27	0.15	0.15	0.04	0.02	98.20
40388381		2.80	51.0	15.55	15.25	1.12	3.61	2.02	4.70	0.025	1.56	0.11	0.17	0.02	0.17	99.99
40388382		2.86	49.8	13.55	14.95	2.46	4.90	1.78	4.09	0.022	3.14	0.19	0.34	0.02	0.16	98.56
40388383		3.03	47.8	13.55	17.20	3.20	4.89	2.26	2.80	0.023	3.24	0.20	0.33	0.02	0.10	99.09
40388384		2.89	51.1	13.15	16.65	3.10	4.02	1.99	3.24	0.017	2.99	0.19	0.38	0.02	0.12	100.04
40388385		2.07	52.8	14.35	14.75	4.62	3.36	2.69	2.30	0.022	2.53	0.15	0.38	0.03	0.07	100.46
40388386		2.26	52.6	13.85	16.30	3.66	3.60	2.16	1.91	0.026	2.62	0.17	0.39	0.03	0.10	100.25
40388387		2.84	46.4	14.35	22.0	2.61	3.53	1.69	2.10	0.042	1.02	0.09	0.13	0.02	0.07	98.81
40388388		3.24	43.4	15.35	21.6	8.35	6.56	2.13	0.56	0.044	1.50	0.15	0.19	0.02	0.02	101.85
40388389		1.39	48.5	16.45	14.30	9.09	6.89	48.5	0.93	0.038	1.90	0.17	0.24	0.03	0.03	101.98
40388390		1.35	49.0	16.55	13.35	9.22	6.98	2.50	0.93	0.039	1.93	0.17	0.22	0.03	0.03	101.81
40388391		2.55	53.8	17.00	11.30	3.48	4.23	2.11	2.88	0.031	1.28	0.10	0.16	0.03	0.13	99.78
40388392		3.62	49.6	13.25	17.25	7.68	4.12	2.61	0.87	0.005	3.72	0.20	0.46	0.05	0.03	101.16
40388393		3.06	49.4	13.25	17.20	7.48	4.05	3.08	1.17	0.005	3.78	0.20	0.43	0.06	0.04	100.82
40388394		3.17	48.7	12.95	17.15	7.20	4.04	3.10	1.25	0.005	3.74	0.20	0.43	0.06	0.04	99.44
40388395		6.45	48.2	12.85	17.05	7.33	4.11	3.07	1.18	0.005	3.85	0.20	0.41	0.05	0.04	99.48
40388396		6.25	48.8	13.30	17.20	7.48	4.29	3.17	1.20	0.006	3.77	0.19	0.40	0.06	0.04	100.43
40388397		6.24	49.5	13.60	17.15	7.54	4.34	3.20	1.18	0.006	3.66	0.20	0.42	0.06	0.04	101.61
40388398		6.43	49.1	13.20	17.25	7.52	4.20	3.13	1.27	0.006	3.68	0.20	0.43	0.06	0.05	101.18
40388399		6.23	48.5	13.20	17.05	7.25	4.60	3.09	1.23	0.005	3.50	0.19	0.39	0.06	0.05	99.84
40388400		2.29	58.8	18.50	7.24	6.04	2.40	3.90	2.64	0.002	0.93	0.11	0.26	0.07	0.12	101.38
40388401		6.00	49.3	13.55	17.15	7.27	4.66	3.14	1.14	0.007	3.55	0.20	0.41	0.06	0.05	101.49
40388402		6.39	49.7	13.20	17.25	7.48	4.27	3.11	1.07	0.005	3.76	0.20	0.43	0.05	0.04	101.13
40388403		4.50	48.7	13.10	17.10	7.06	4.32	2.95	1.08	0.005	3.76	0.20	0.43	0.05	0.04	100.21
40388404		7.18	60.4	17.30	8.40	0.60	2.88	1.97	3.93	0.026	0.85	0.06	0.11	0.02	0.09	99.96

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40388370		0.36	0.04	0.11	988	66.0	20	1.77	6.04	3.19	1.76	22.3	7.03	8.6	1.27	29.6
40388371		1.72	<0.01	2.38	130.5	16.5	1460	2.79	2.14	1.13	0.76	17.1	2.06	1.4	0.44	7.3
40388372		1.21	<0.01	2.23	95.0	12.9	1700	2.32	1.81	0.91	0.91	17.6	1.90	1.3	0.39	6.2
40388373		0.86	<0.01	2.08	109.5	16.5	840	1.58	2.29	1.25	0.93	18.8	2.33	1.6	0.46	7.7
40388374		0.91	<0.01	2.31	108.0	16.3	390	1.38	2.44	1.13	0.80	17.5	2.43	1.7	0.51	7.7
40388375		1.07	<0.01	2.21	125.5	18.7	480	2.07	2.86	1.40	0.99	18.8	2.95	1.8	0.54	8.4
40388376		1.50	0.01	1.35	158.0	21.8	460	2.76	2.75	1.72	1.05	19.6	3.18	1.9	0.62	9.7
40388377		1.90	0.01	1.10	347	29.3	380	3.62	4.17	2.33	1.49	21.2	4.03	2.8	0.83	13.3
40388378		0.77	<0.01	0.32	352	53.6	190	2.08	7.20	4.05	2.08	25.3	7.57	4.9	1.53	24.5
40388379		0.82	0.01	0.27	308	56.0	200	2.09	7.65	4.85	2.24	26.2	8.00	5.4	1.64	24.9
40388380		1.44	0.06	0.86	167.5	25.9	2330	2.55	3.65	2.05	1.28	21.5	3.39	2.5	0.71	11.8
40388381		4.68	0.26	3.24	1560	70.7	170	4.47	5.94	3.78	1.47	24.4	6.40	4.6	1.26	35.3
40388382		3.16	<0.01	0.51	1385	64.6	150	3.89	7.82	4.17	1.63	24.1	7.68	6.5	1.65	28.3
40388383		3.48	<0.01	0.98	930	66.0	160	3.67	8.00	4.39	1.92	26.4	8.18	6.0	1.60	29.1
40388384		3.07	0.02	0.63	1070	79.1	120	3.45	9.18	5.10	2.16	26.6	9.68	7.5	1.92	35.1
40388385		2.41	0.03	1.00	634	86.4	150	3.76	8.81	5.22	2.42	28.3	10.15	6.8	1.78	39.2
40388386		2.83	0.01	1.17	922	83.8	190	4.41	8.83	5.07	2.61	29.7	9.52	6.9	2.01	37.6
40388387		4.76	0.08	5.86	634	49.7	290	4.09	4.24	2.43	1.39	21.4	4.27	3.4	0.94	24.5
40388388		1.98	<0.01	3.95	189.0	33.0	300	2.52	4.53	2.61	1.41	20.7	4.49	3.0	0.88	15.4
40388389		0.90	0.01	0.69	259	43.7	270	3.34	5.78	3.30	1.63	23.8	6.18	4.0	1.23	19.9
40388390		0.86	0.02	0.31	268	42.7	260	3.12	5.57	3.39	1.68	23.5	5.84	3.7	1.14	19.5
40388391		3.25	<0.01	0.73	1105	56.8	220	3.30	4.42	2.50	1.47	24.2	5.03	4.1	0.96	27.9
40388392		1.31	0.03	0.23	291	74.2	40	4.43	7.51	3.53	2.89	25.5	9.25	6.3	1.45	31.8
40388393		0.67	0.01	0.06	372	77.9	40	5.80	8.06	3.94	2.97	27.9	9.56	6.8	1.54	34.2
40388394		0.57	<0.01	0.05	377	74.4	40	6.89	7.50	3.59	2.92	26.4	9.58	6.4	1.56	32.7
40388395		1.13	0.01	0.08	384	76.7	30	6.73	7.95	4.22	2.91	27.8	9.47	6.6	1.48	33.0
40388396		0.52	0.01	0.04	366	71.1	40	6.69	7.45	3.61	2.90	27.8	8.46	6.5	1.29	31.2
40388397		0.71	0.01	0.04	374	73.2	50	6.20	7.29	3.96	2.76	27.6	9.20	6.4	1.45	32.1
40388398		1.08	0.01	0.06	388	74.7	40	6.43	7.64	4.12	2.74	26.9	9.09	6.7	1.53	32.9
40388399		0.72	0.01	0.04	422	72.7	40	6.14	7.18	3.78	2.76	27.8	9.10	6.3	1.51	31.8
40388400		0.37	0.03	0.09	1085	67.0	20	1.37	6.33	3.27	1.80	25.5	7.30	7.1	1.29	29.7
40388401		1.00	0.01	0.02	438	73.0	50	6.12	7.27	3.79	2.76	27.9	8.63	6.2	1.45	32.1
40388402		0.56	0.01	0.04	372	75.9	40	5.71	7.83	4.03	2.89	27.4	9.43	6.4	1.47	33.7
40388403		1.41	<0.01	0.18	377	74.9	40	5.43	7.27	3.93	2.84	27.0	9.03	6.2	1.56	32.7
40388404		3.32	<0.01	0.61	842	66.1	200	7.32	4.39	2.64	1.45	25.6	4.83	4.0	0.92	32.7

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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





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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - C  
 Total # Pages: 5 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40388370		0.43	13.7	35.6	8.86	101.0	7.65	2	567	0.6	1.01	4.79	0.48	1.70	120	<1
40388371		0.14	4.1	9.2	2.18	38.4	2.26	2	409	0.2	0.33	0.94	0.15	0.53	157	<1
40388372		0.17	3.5	7.7	1.69	19.6	1.97	2	272	0.2	0.30	0.69	0.16	0.33	193	<1
40388373		0.18	4.6	9.1	2.06	13.7	2.24	1	271	0.4	0.36	0.74	0.18	0.26	118	<1
40388374		0.19	4.7	9.8	2.14	4.7	2.55	1	249	0.3	0.40	0.57	0.20	0.14	129	<1
40388375		0.20	5.2	11.1	2.64	18.9	2.87	2	284	0.4	0.44	0.82	0.23	0.26	141	<1
40388376		0.19	5.9	11.8	2.93	40.2	2.89	1	379	0.4	0.50	0.97	0.28	0.55	166	<1
40388377		0.33	8.2	16.3	3.81	59.0	4.16	2	455	0.5	0.74	1.35	0.32	0.44	198	<1
40388378		0.56	15.3	30.4	7.13	27.1	8.06	2	222	1.1	1.22	3.26	0.55	1.10	386	1
40388379		0.64	17.0	31.9	7.33	24.1	8.25	2	216	1.1	1.33	3.05	0.63	1.17	447	1
40388380		0.22	8.0	15.3	3.44	22.4	3.87	2	346	0.5	0.60	1.16	0.29	0.28	175	<1
40388381		0.58	13.9	35.7	8.88	168.0	7.58	3	152.0	1.0	0.98	7.42	0.56	11.45	311	1
40388382		0.63	19.6	35.8	8.47	127.5	8.62	3	134.0	1.3	1.29	3.94	0.62	2.12	379	1
40388383		0.60	19.7	37.2	8.68	94.6	8.92	3	142.0	1.3	1.31	4.34	0.68	2.16	380	1
40388384		0.73	23.3	43.5	10.40	116.0	10.80	3	147.5	1.4	1.57	5.67	0.77	2.91	314	1
40388385		0.67	21.2	44.8	11.15	75.8	10.60	3	207	1.3	1.67	6.58	0.69	5.21	305	1
40388386		0.66	23.6	44.3	10.95	77.0	11.10	3	211	1.5	1.58	6.65	0.77	4.22	335	1
40388387		0.40	9.6	24.3	6.19	86.0	5.47	3	161.0	0.7	0.66	5.48	0.38	6.12	247	1
40388388		0.33	9.3	18.5	4.02	20.8	4.42	2	207	0.6	0.73	1.89	0.36	0.94	209	<1
40388389		0.43	12.1	23.9	5.75	36.8	5.80	1	236	0.8	0.99	2.54	0.41	1.13	250	<1
40388390		0.35	12.2	22.8	5.52	36.3	5.59	1	237	0.8	1.03	2.43	0.44	1.17	246	1
40388391		0.39	12.6	27.7	7.18	99.0	6.06	2	256	0.8	0.80	6.40	0.42	3.74	207	1
40388392		0.45	26.8	40.2	9.54	39.7	10.00	2	420	1.7	1.34	4.16	0.51	1.43	404	1
40388393		0.45	28.7	43.1	10.20	43.4	10.25	2	465	1.9	1.42	4.44	0.55	1.40	430	1
40388394		0.46	27.8	41.6	9.99	47.9	9.90	2	460	1.9	1.42	4.30	0.55	1.35	419	1
40388395		0.44	28.6	42.3	9.96	44.6	9.74	2	469	2.0	1.40	4.29	0.50	1.27	450	1
40388396		0.45	27.0	40.3	9.28	46.7	9.77	2	510	1.8	1.33	4.00	0.49	1.24	457	14
40388397		0.49	27.3	41.4	9.71	45.9	9.70	2	516	1.8	1.33	4.24	0.52	1.24	434	1
40388398		0.45	27.4	42.4	10.15	50.3	9.67	2	476	1.7	1.36	4.32	0.49	1.44	421	1
40388399		0.45	27.2	41.4	9.68	44.6	9.92	2	501	1.7	1.30	4.18	0.48	1.25	427	1
40388400		0.46	14.9	37.3	8.97	100.5	8.38	2	570	1.0	1.05	4.31	0.60	1.86	139	1
40388401		0.45	26.4	39.9	9.54	45.0	9.69	2	492	1.8	1.40	4.27	0.54	1.19	434	1
40388402		0.46	28.3	42.8	9.91	43.5	10.65	2	461	1.9	1.41	4.34	0.62	1.39	439	1
40388403		0.46	27.5	42.0	9.93	44.1	10.30	2	403	1.8	1.31	4.34	0.52	1.31	439	1
40388404		0.40	12.3	31.0	8.34	167.5	6.46	2	186.0	0.9	0.79	9.12	0.41	5.60	172	2

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - D  
 Total # Pages: 5 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40388370		32.8	3.16	335	0.6	0.02	<0.005	0.030	0.001	<0.05	<0.2	0.01	0.36	0.04	0.07	15.9
40388371		11.3	1.14	55	9.4	1.44	<0.005	0.056	0.007	0.47	1.8	0.17	0.61	0.75	0.84	140.0
40388372		9.5	0.99	47	23.2	1.60	<0.005	0.064	0.008	0.72	2.3	0.18	0.25	0.87	1.03	155.0
40388373		11.8	1.34	66	20.6	1.25	<0.005	0.055	0.008	0.73	1.6	0.13	0.13	0.72	0.79	126.5
40388374		12.2	1.06	64	26.7	1.69	<0.005	0.062	0.009	0.89	2.2	0.14	0.18	0.82	0.99	166.0
40388375		14.1	1.46	72	21.6	1.74	<0.005	0.062	0.007	0.65	2.0	0.14	0.38	0.84	0.88	145.0
40388376		15.5	1.58	77	15.8	1.32	<0.005	0.041	0.005	0.30	1.5	0.09	0.73	0.52	0.63	111.0
40388377		20.7	2.26	114	12.4	1.04	0.024	0.035	0.004	0.25	1.0	0.07	1.25	0.37	0.45	91.4
40388378		36.4	3.87	184	5.9	0.24	0.005	0.018	0.002	0.10	0.3	0.01	0.19	0.12	0.30	47.2
40388379		39.7	4.27	218	6.3	0.25	0.005	0.017	0.001	0.27	0.3	<0.01	0.22	0.04	0.20	37.6
40388380		17.5	1.77	100	6.4	0.46	0.008	0.049	0.008	0.35	2.9	0.21	0.33	1.46	0.45	92.1
40388381		31.8	3.71	177	51.3	0.51	0.052	0.079	0.017	2.96	2.2	0.13	1.49	0.30	1.73	71.7
40388382		38.6	4.31	250	10.9	0.11	0.030	0.059	0.001	1.09	0.2	0.01	0.49	0.07	0.28	35.4
40388383		39.3	4.00	247	30.3	1.51	0.026	0.059	0.002	1.20	1.1	0.06	0.63	0.31	0.54	67.4
40388384		46.2	4.85	303	34.5	1.06	0.017	0.077	0.001	0.81	0.8	0.08	0.45	0.57	0.98	57.2
40388385		46.4	4.80	279	14.4	0.37	0.012	0.042	0.003	0.62	0.4	0.04	0.36	0.35	0.72	34.7
40388386		46.8	4.91	290	13.7	0.35	0.018	0.049	0.002	0.73	0.6	0.04	0.33	0.28	0.47	45.1
40388387		22.5	2.45	125	100.5	1.61	0.023	0.081	0.014	2.34	3.8	0.27	0.86	1.11	2.75	183.5
40388388		22.5	2.29	121	57.6	1.03	0.006	0.046	0.012	1.55	2.5	0.13	0.57	0.74	1.18	163.0
40388389		29.1	2.84	158	9.0	0.20	<0.005	0.024	0.002	0.43	0.7	0.04	0.41	0.22	0.32	63.5
40388390		28.7	2.84	152	5.0	0.06	<0.005	0.021	0.002	0.26	0.5	0.02	0.37	0.12	0.19	49.6
40388391		23.7	2.65	150	32.9	0.19	0.016	0.044	0.002	1.21	0.7	0.03	0.41	0.27	0.53	46.9
40388392		34.6	3.04	243	3.1	0.13	<0.005	0.025	0.001	0.22	0.3	0.01	0.39	0.20	0.31	51.5
40388393		37.1	3.26	270	2.0	0.09	0.005	0.022	0.001	0.12	0.3	<0.01	0.36	0.12	0.15	50.0
40388394		36.2	3.10	260	2.0	0.09	<0.005	0.022	0.001	0.13	0.3	<0.01	0.38	0.11	0.12	49.4
40388395		36.6	3.38	278	3.4	0.07	0.006	0.023	0.001	0.29	0.3	<0.01	0.34	0.10	0.14	51.9
40388396		34.9	3.30	259	3.1	0.09	<0.005	0.020	0.001	0.13	0.2	0.01	0.29	0.24	0.20	55.3
40388397		35.0	3.34	259	2.8	0.10	<0.005	0.021	<0.001	0.14	0.3	<0.01	0.29	0.12	0.15	54.1
40388398		36.0	3.03	260	4.0	0.08	0.005	0.021	0.001	0.23	0.3	<0.01	0.31	0.18	0.16	52.5
40388399		35.0	3.20	256	1.5	0.04	<0.005	0.020	<0.001	0.07	0.5	<0.01	0.32	0.10	0.11	55.9
40388400		34.0	3.27	301	0.5	0.01	<0.005	0.029	0.001	<0.05	0.2	0.02	0.34	0.04	0.08	16.0
40388401		35.0	3.15	257	1.2	0.04	<0.005	0.021	0.001	0.08	0.3	<0.01	0.33	0.10	0.11	56.0
40388402		36.6	3.13	267	2.3	0.08	<0.005	0.021	<0.001	0.12	0.3	<0.01	0.33	0.10	0.16	52.1
40388403		35.6	3.21	264	2.3	0.05	0.006	0.029	0.001	0.15	0.4	<0.01	0.36	0.13	0.12	51.5
40388404		24.0	2.75	155	15.9	0.13	0.008	0.044	0.002	0.59	0.3	0.03	0.50	0.08	0.23	21.3

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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Page: 5 - E  
 Total # Pages: 5 (A - F)  
 Plus Appendix Pages  
 Finalized Date: 9-OCT-2018  
 Account: RTEICKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Al2O3	As	CaO	Co	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001	0.01	0.01	0.05	0.002	0.01
40388370		22.1	16.9	1.02	14.2	12.2	15.4	86	<0.001	0.0008	0.002					
40388371		1620	22.6	2.26	1130	16.0	15.8	103	0.026	0.0430	0.166					
40388372		1735	12.2	4.43	1180	18.1	19.6	103	0.028	0.0921	0.165					
40388373		1705	7.6	4.03	1045	13.7	14.1	96	0.022	0.0203	0.150					
40388374		1910	7.7	5.61	1185	14.5	17.5	106	0.022	0.0422	0.124					
40388375		2100	12.1	3.81	1150	14.0	20.9	107	0.023	0.0289	0.120					
40388376		1235	19.4	3.36	735	9.2	22.8	100	0.015	0.0218	0.072					
40388377		877	26.8	2.23	568	7.9	23.1	104	0.012	0.0182	0.055					
40388378		256	12.3	2.54	109.0	7.3	48.2	135	0.004	0.0016	0.008					
40388379		44.1	11.5	3.13	22.2	5.3	44.0	154	0.004	0.0005	0.001					
40388380		3910	23.0	4.89	1940	8.2	18.1	109	0.088	0.1580	0.791					
40388381		658	43.6	24.2	447	31.0	27.5	353	0.009	0.0116	0.024					
40388382		103.0	42.8	4.74	48.3	6.9	42.2	172	0.003	0.0008	0.003					
40388383		645	39.3	6.84	398	11.5	39.8	179	0.009	0.0119	0.036					
40388384		602	38.6	6.55	422	19.9	35.7	195	0.013	0.0137	0.039					
40388385		262	27.6	9.37	137.0	19.6	35.6	205	0.006	0.0060	0.009					
40388386		299	37.8	8.57	186.0	15.0	35.7	205	0.006	0.0069	0.012					
40388387		1480	41.9	23.9	1330	42.2	23.5	345	0.028	0.0442	0.108	14.30	0.01	2.57	0.020	0.03
40388388		1070	12.4	17.65	954	25.4	25.6	156	0.020	0.0307	0.068					
40388389		378	18.1	2.19	300	7.1	30.7	121	0.008	0.0117	0.027					
40388390		175.0	18.2	1.94	173.5	5.8	31.0	122	0.007	0.0083	0.010					
40388391		341	52.0	3.48	283	22.2	26.6	187	0.008	0.0082	0.018					
40388392		293	20.3	1.84	94.2	9.3	28.0	181	0.006	0.0028	0.012					
40388393		272	12.7	1.79	66.4	6.1	27.6	161	0.006	0.0032	0.011					
40388394		254	11.2	1.81	66.8	6.7	26.7	160	0.006	0.0030	0.011					
40388395		279	13.2	1.78	72.2	5.4	28.4	155	0.006	0.0031	0.012					
40388396		304	13.2	1.91	120.5	7.7	27.4	155	0.007	0.0038	0.016					
40388397		275	14.0	1.69	91.6	5.4	26.9	153	0.006	0.0035	0.011					
40388398		318	14.0	1.82	86.8	5.9	28.0	156	0.007	0.0057	0.014					
40388399		266	14.1	1.65	105.0	5.2	26.1	149	0.006	0.0031	0.012					
40388400		16.7	18.0	0.99	12.1	11.4	15.5	85	0.002	<0.0005	0.001					
40388401		262	16.1	1.62	98.5	5.6	26.5	151	0.006	0.0030	0.011					
40388402		256	14.7	1.79	75.4	7.5	28.2	160	0.006	0.0029	0.011					
40388403		270	22.3	1.66	72.1	5.8	27.8	153	0.006	0.0032	0.010					
40388404		55.9	95.4	4.18	81.3	13.1	22.4	142	0.002	0.0012	0.002					

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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



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 Plus Appendix Pages  
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 Account: RTECIKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

Sample Description	Method Analyte Units LOD	ME-ICP81 Cu %	ME-ICP81 Fe %	ME-ICP81 Fe2O3 %	ME-ICP81 K %	ME-ICP81 MgO %	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40388370		0.002	0.05	0.05	0.1	0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
40388371													
40388372													
40388373													
40388374													
40388375													
40388376													
40388377													
40388378													
40388379													
40388380													
40388381													
40388382													
40388383													
40388384													
40388385													
40388386		0.156	15.50	22.1	1.7	3.46	0.09	0.135	<0.01	6.23	46.4	1.03	0.036
40388387													
40388388													
40388389													
40388390													
40388391													
40388392													
40388393													
40388394													
40388395													
40388396													
40388397													
40388398													
40388399													
40388400													
40388401													
40388402													
40388403													
40388404													

Comments: \*\*Corrected copy for PGM-MS24 on samples 40388375 to 40388385\*\*

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



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 Account: RTECIKBZ

Project: EB80001453

**CERTIFICATE OF ANALYSIS TB18231360**

	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>SPL-22X</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	SPL-22X	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	SPL-22X										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">C-IR07</td> <td style="width: 25%;">ME-ICP06</td> <td style="width: 25%;">ME-ICP81</td> <td style="width: 25%;">ME-MS42</td> </tr> <tr> <td>ME-MS61</td> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> </tr> <tr> <td>S-IR08</td> <td>TOT-ICP06</td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-ICP81	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06		
C-IR07	ME-ICP06	ME-ICP81	ME-MS42										
ME-MS61	ME-MS81	OA-GRA05	PGM-MS24										
S-IR08	TOT-ICP06												





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 Plus Appendix Pages  
 Finalized Date: 16-AUG-2018  
 Account: RTECIKBZ

**CERTIFICATE TB18179588**

Project: EB80004240  
 P.O. No.: 3103290934  
 This report is for 135 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 25-JUL-2018.  
 The following have access to data associated with this certificate:

RACHELLE BOULANGER RTXAMRNA ASSAY RESULTS	SUE DRIEBERG ROBERT RUSH	BRIAN GOLDNER
--	-----------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarcode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
ME-MS61	48 element four acid ICP-MS	
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
TOT-ICP06	Total Calculation for ICP06	

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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RTECIKBZ

Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	Total %
40356928		1.07	56.8	17.80	7.57	5.96	2.53	3.80	2.37	0.004	1.00	0.12	0.35	0.07	0.09	98.84
40386167		6.13	47.1	17.35	11.85	9.85	7.61	2.56	0.44	0.040	1.61	0.15	0.18	0.03	0.02	99.37
40386168		6.15	46.1	17.00	13.15	9.13	8.11	2.51	0.43	0.038	1.57	0.17	0.18	0.03	0.02	98.95
40386169		2.72	46.8	14.75	13.15	9.43	6.06	3.15	0.47	0.024	3.39	0.18	0.33	0.02	0.02	98.46
40386170		2.31	47.0	14.75	12.80	9.55	6.22	3.09	0.46	0.026	2.96	0.17	0.32	0.03	0.02	98.22
40386171		6.57	47.9	16.30	12.50	9.77	6.31	3.06	0.54	0.029	2.19	0.17	0.26	0.03	0.03	99.85
40386172		6.74	46.3	14.70	14.20	9.32	6.40	3.06	0.42	0.020	3.27	0.19	0.32	0.02	0.02	99.05
40386173		7.12	48.1	17.80	12.20	10.05	7.73	2.63	0.45	0.038	1.50	0.16	0.19	0.03	0.02	101.48
40386174		5.96	47.4	17.40	11.95	10.00	7.95	2.57	0.42	0.041	1.56	0.16	0.18	0.03	0.02	100.17
40386175		6.12	47.5	17.65	12.15	9.88	7.76	2.57	0.43	0.040	1.62	0.16	0.20	0.03	0.02	100.36
40386176		5.92	47.5	17.65	12.25	9.95	7.74	2.58	0.44	0.039	1.60	0.16	0.18	0.03	0.02	100.80
40386177		6.88	47.7	18.05	12.40	9.56	6.67	2.82	0.55	0.027	1.72	0.16	0.23	0.03	0.03	100.51
40386178		6.82	48.6	17.35	13.30	9.34	6.60	3.01	0.59	0.021	2.04	0.17	0.27	0.03	0.03	101.96
40386179		6.37	46.7	16.75	12.40	9.93	7.23	2.59	0.41	0.037	1.58	0.16	0.19	0.03	0.02	98.56
40386180		2.72	56.9	18.30	7.30	6.21	2.50	3.86	2.38	0.004	0.96	0.11	0.32	0.07	0.11	99.34
40386181		6.77	47.7	18.00	11.85	10.10	7.92	2.58	0.43	0.040	1.49	0.15	0.17	0.03	0.02	101.04
40386182		6.04	47.4	17.85	12.65	9.76	7.08	2.75	0.44	0.033	1.64	0.16	0.18	0.03	0.02	100.66
40386183		6.65	47.4	18.15	11.15	10.10	7.66	2.65	0.40	0.039	1.43	0.14	0.16	0.03	0.02	100.36
40386184		6.08	47.2	18.60	11.20	10.45	7.28	2.61	0.40	0.033	1.49	0.15	0.18	0.03	0.02	100.18
40386185		6.17	47.2	18.50	11.10	10.55	7.65	2.56	0.36	0.037	1.39	0.15	0.17	0.03	0.02	100.35
40386186		6.14	47.3	18.75	10.80	10.60	7.38	2.62	0.38	0.035	1.41	0.14	0.17	0.03	0.02	100.43
40386187		6.32	47.2	18.80	10.80	10.55	7.37	2.59	0.37	0.035	1.40	0.14	0.17	0.03	0.02	99.99
40386188		6.07	47.3	18.80	10.95	10.55	7.47	2.58	0.37	0.034	1.47	0.14	0.17	0.03	0.02	100.39
40386189		6.91	47.1	18.25	11.35	10.40	8.20	2.47	0.37	0.034	1.41	0.15	0.17	0.03	0.02	100.51
40386190		0.17	45.0	18.75	12.20	9.49	7.51	2.09	1.09	0.358	1.34	0.15	0.16	0.05	0.04	100.19
40386191		6.25	46.8	18.00	11.35	10.30	7.93	2.50	0.40	0.031	1.60	0.15	0.19	0.03	0.02	100.01
40386192		6.55	47.6	18.00	12.10	9.81	7.68	2.71	0.45	0.024	1.62	0.15	0.28	0.03	0.02	101.25
40386193		6.46	47.6	18.25	12.00	10.15	8.16	2.60	0.41	0.028	1.54	0.15	0.21	0.03	0.02	101.74
40386194		6.93	46.4	17.70	11.85	9.74	9.51	2.39	0.36	0.034	1.26	0.15	0.15	0.03	0.02	100.12
40386195		5.77	46.6	18.40	11.10	10.20	8.55	2.44	0.33	0.037	1.28	0.14	0.16	0.03	0.02	99.82
40386196		6.52	46.6	18.65	10.70	10.40	7.98	2.45	0.35	0.039	1.30	0.14	0.15	0.03	0.02	99.28
40386197		6.87	47.3	18.80	11.15	10.40	8.41	2.50	0.36	0.034	1.34	0.14	0.17	0.03	0.02	101.23
40386198		5.86	47.4	18.70	11.20	10.45	8.69	2.47	0.36	0.037	1.28	0.14	0.16	0.03	0.02	101.48
40386199		2.46	46.8	18.80	10.70	10.60	8.02	2.47	0.34	0.039	1.29	0.14	0.15	0.03	0.02	99.80
40386200		2.49	47.1	18.95	10.65	10.55	7.98	2.49	0.35	0.036	1.25	0.14	0.17	0.03	0.02	100.11
40386201		5.65	47.6	19.20	11.00	10.65	8.02	2.51	0.39	0.034	1.34	0.14	0.17	0.03	0.02	101.50
40386202		6.29	47.7	19.00	11.10	10.65	8.19	2.49	0.38	0.034	1.32	0.14	0.16	0.03	0.02	101.60
40386203		5.94	47.3	19.00	11.05	10.60	8.03	2.46	0.39	0.030	1.35	0.14	0.17	0.03	0.02	101.17
40386204		6.53	46.7	18.75	10.80	10.35	8.16	2.34	0.40	0.031	1.30	0.14	0.16	0.03	0.02	100.38
40386205		6.27	47.3	18.75	11.25	10.15	8.06	2.45	0.45	0.026	1.39	0.14	0.18	0.03	0.02	101.09



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Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40356928		0.38	0.04	0.10	868	70.6	30	1.34	7.41	4.22	1.92	24.6	8.10	8.2	1.42	30.6
40386167		0.58	<0.01	0.05	190.0	35.5	310	0.34	5.03	2.71	1.63	22.4	5.03	3.7	0.95	15.9
40386168		0.51	<0.01	0.05	187.5	34.2	290	0.35	4.64	2.56	1.53	21.2	4.90	3.4	0.90	15.4
40386169		0.69	<0.01	0.06	223	60.1	180	0.24	8.42	4.96	2.25	24.4	8.56	6.7	1.60	27.1
40386170		0.82	<0.01	0.06	217	56.4	190	0.23	7.93	4.73	2.09	22.9	8.43	6.2	1.58	25.0
40386171		0.76	<0.01	0.02	258	46.6	230	0.23	6.70	4.01	2.06	24.0	6.66	4.7	1.28	20.4
40386172		0.81	<0.01	0.04	191.0	54.6	150	0.26	7.92	4.54	2.00	23.3	7.68	6.1	1.51	24.4
40386173		0.58	0.01	0.05	197.0	32.5	280	0.31	4.66	2.56	1.49	21.5	4.52	3.2	0.89	14.5
40386174		0.49	<0.01	0.06	181.5	30.7	310	0.26	4.41	2.46	1.39	21.1	4.51	3.2	0.84	13.9
40386175		0.35	<0.01	0.06	188.0	34.0	300	0.27	4.76	2.77	1.65	21.2	4.69	3.6	0.94	15.2
40386176		0.66	<0.01	0.06	188.0	33.8	300	0.37	4.91	2.60	1.52	21.3	4.81	3.6	0.92	15.1
40386177		0.56	0.01	0.07	229	39.9	200	0.39	5.58	3.18	1.63	23.3	5.34	4.4	1.10	18.2
40386178		0.61	0.01	0.07	247	46.0	150	0.32	6.61	3.54	1.89	23.2	6.62	5.0	1.22	20.4
40386179		0.53	<0.01	0.07	173.5	30.7	270	0.37	4.56	2.48	1.47	20.4	4.68	3.2	0.88	13.7
40386180		0.32	0.04	0.11	1030	67.9	30	1.50	6.96	3.91	1.94	23.7	7.85	7.3	1.25	29.5
40386181		0.56	<0.01	0.06	177.0	31.2	300	0.40	4.55	2.59	1.46	21.5	4.40	3.3	0.87	13.9
40386182		0.67	<0.01	0.08	185.0	32.5	240	0.44	4.57	2.63	1.49	21.8	4.64	3.5	0.90	14.6
40386183		1.03	0.01	0.05	168.5	29.1	290	0.82	4.00	2.36	1.47	21.0	4.02	3.0	0.78	12.9
40386184		0.54	0.01	0.06	169.0	30.3	260	0.39	4.03	2.56	1.41	22.7	4.31	3.3	0.83	13.7
40386185		0.63	<0.01	0.06	158.0	28.5	280	0.39	4.02	2.32	1.24	21.5	4.38	3.1	0.88	12.7
40386186		0.79	<0.01	0.05	159.5	28.4	270	0.54	3.85	2.50	1.24	22.2	4.34	3.0	0.83	12.7
40386187		0.51	0.01	0.06	161.0	29.3	270	0.29	4.01	2.40	1.37	22.2	4.64	2.9	0.88	12.8
40386188		0.51	<0.01	0.06	164.0	29.5	260	0.27	4.10	2.43	1.32	21.8	4.38	3.0	0.85	12.9
40386189		0.56	<0.01	0.06	158.0	29.3	250	0.30	4.07	2.51	1.31	21.9	4.26	3.0	0.84	13.3
40386190		1.96	0.02	0.33	362	30.1	2720	2.75	3.82	2.20	1.32	22.3	4.25	2.9	0.80	13.6
40386191		0.71	0.01	0.05	165.0	33.0	220	0.30	4.45	2.61	1.39	20.6	4.70	3.5	0.99	14.7
40386192		0.78	<0.01	0.05	189.0	44.4	180	0.39	5.98	3.46	1.69	22.6	6.64	4.7	1.25	19.9
40386193		0.59	<0.01	0.05	173.0	35.1	210	0.38	4.62	2.91	1.46	22.9	5.04	3.9	1.01	15.6
40386194		0.53	0.01	0.06	146.0	26.4	250	0.33	3.67	2.22	1.25	20.5	4.04	2.7	0.78	11.8
40386195		0.53	0.01	0.05	140.5	24.7	280	0.27	3.64	2.24	1.18	20.4	3.87	2.8	0.71	11.1
40386196		0.47	<0.01	0.06	147.0	25.5	290	0.29	3.50	2.01	1.29	20.5	3.72	2.7	0.75	11.5
40386197		0.58	0.01	0.05	154.5	26.6	250	0.36	3.55	2.32	1.28	21.0	3.97	3.1	0.80	12.3
40386198		0.54	<0.01	0.05	139.5	24.8	260	0.36	3.39	2.06	1.19	20.2	3.94	2.5	0.73	11.1
40386199		0.40	<0.01	0.05	140.0	24.7	280	0.30	3.45	2.28	1.24	19.9	3.73	2.6	0.78	11.1
40386200		0.39	<0.01	0.05	149.0	27.4	280	0.33	3.64	2.21	1.25	21.3	3.90	3.0	0.81	12.1
40386201		0.40	<0.01	0.05	152.0	26.7	250	0.33	3.78	2.39	1.27	20.8	4.14	2.9	0.82	12.0
40386202		0.39	<0.01	0.05	149.5	26.9	250	0.40	3.84	2.29	1.29	20.9	4.05	2.7	0.84	11.7
40386203		0.60	<0.01	0.05	149.5	26.7	220	0.54	3.74	2.27	1.19	20.6	4.34	2.8	0.82	11.9
40386204		1.20	<0.01	0.04	148.5	26.4	230	0.63	3.77	2.13	1.26	20.7	4.06	2.9	0.78	11.8
40386205		0.89	0.01	0.04	171.0	31.4	200	0.76	4.23	2.37	1.44	21.9	4.62	3.3	0.91	14.1



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 Account: RTECIKBZ

Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
40356928		0.53	15.4	39.8	9.38	101.0	8.54	2	598	0.7	1.23	3.61	0.59	1.62	139	<1
40386167		0.39	10.6	20.3	4.68	10.6	4.74	1	279	0.6	0.84	1.52	0.39	0.41	231	<1
40386168		0.36	10.0	19.0	4.37	10.2	4.27	1	270	0.6	0.79	1.53	0.39	0.36	220	<1
40386169		0.61	20.4	33.8	7.93	12.4	7.94	2	235	1.2	1.43	2.84	0.65	0.75	393	<1
40386170		0.63	18.1	31.6	7.41	12.1	7.27	2	235	1.0	1.35	2.64	0.66	0.67	358	1
40386171		0.48	14.6	26.9	6.27	13.2	6.49	1	272	0.8	1.09	2.17	0.54	0.49	323	6
40386172		0.61	19.4	31.1	7.02	10.2	7.15	2	221	1.1	1.23	2.49	0.60	0.63	337	<1
40386173		0.36	9.7	18.3	4.25	9.9	4.07	1	276	0.5	0.77	1.42	0.37	0.39	204	<1
40386174		0.33	9.4	17.8	4.09	10.0	3.78	1	272	0.6	0.73	1.31	0.36	0.31	201	<1
40386175		0.38	10.0	19.8	4.40	10.4	4.53	1	276	0.6	0.82	1.56	0.37	0.33	211	<1
40386176		0.36	10.3	18.9	4.34	10.8	4.49	1	280	0.6	0.82	1.69	0.38	0.40	213	<1
40386177		0.40	11.4	23.2	5.22	13.6	4.87	1	287	0.6	0.88	1.79	0.43	0.41	255	<1
40386178		0.50	14.2	25.9	6.00	14.3	6.03	2	281	0.8	1.09	2.03	0.52	0.58	251	<1
40386179		0.35	8.8	17.6	3.97	9.2	3.88	1	261	0.5	0.76	1.46	0.37	0.39	241	1
40386180		0.55	14.6	38.9	9.09	104.0	7.97	2	619	0.7	1.14	4.63	0.56	1.60	128	<1
40386181		0.34	9.3	17.9	4.09	10.0	4.14	1	284	0.5	0.73	1.41	0.36	0.36	202	<1
40386182		0.37	9.7	18.8	4.24	10.1	4.05	1	287	0.6	0.74	1.45	0.39	0.34	222	<1
40386183		0.30	8.9	16.9	3.84	9.8	3.96	1	289	0.5	0.69	1.29	0.35	0.31	196	1
40386184		0.34	8.3	16.9	4.00	9.0	4.17	1	289	0.5	0.65	1.32	0.34	0.30	198	4
40386185		0.32	7.8	16.2	3.65	7.8	3.73	1	276	0.4	0.59	1.33	0.31	0.29	181	<1
40386186		0.30	7.9	16.1	3.78	8.5	3.78	1	282	0.5	0.63	1.19	0.31	0.25	180	<1
40386187		0.30	7.9	16.2	3.68	8.0	3.99	1	285	0.5	0.68	1.32	0.34	0.26	186	<1
40386188		0.32	8.4	16.6	3.84	8.0	3.70	1	285	0.5	0.65	1.24	0.33	0.25	190	<1
40386189		0.29	7.8	16.5	3.82	8.0	3.95	1	270	0.5	0.69	1.14	0.34	0.26	180	1
40386190		0.28	7.6	16.8	4.01	36.8	3.54	2	429	0.5	0.60	1.68	0.31	0.68	184	1
40386191		0.33	9.2	18.6	4.47	8.9	4.34	1	265	0.6	0.74	1.52	0.36	0.38	197	<1
40386192		0.43	11.3	25.0	5.88	11.2	5.77	1	267	0.7	0.92	2.16	0.50	0.49	211	<1
40386193		0.39	9.8	20.2	4.58	10.0	4.65	1	274	0.6	0.78	1.55	0.41	0.37	187	1
40386194		0.27	7.2	14.7	3.41	8.3	3.51	1	263	0.5	0.59	1.22	0.31	0.28	162	<1
40386195		0.27	6.8	13.6	3.31	7.4	3.28	1	271	0.4	0.58	1.12	0.31	0.27	165	<1
40386196		0.28	7.0	15.0	3.42	7.9	3.28	1	277	0.4	0.61	1.08	0.27	0.24	172	1
40386197		0.28	7.4	15.7	3.56	8.0	3.32	1	278	0.4	0.64	1.19	0.29	0.26	168	<1
40386198		0.28	6.9	14.4	3.29	7.7	3.12	1	263	0.4	0.54	1.12	0.28	0.24	160	<1
40386199		0.28	6.9	14.2	3.15	7.3	3.28	1	265	0.4	0.55	1.09	0.31	0.21	160	1
40386200		0.29	7.1	15.2	3.64	7.8	3.62	1	280	0.4	0.61	1.18	0.30	0.25	168	<1
40386201		0.30	7.3	15.3	3.46	9.1	3.46	1	277	0.4	0.58	1.21	0.30	0.26	170	<1
40386202		0.29	7.2	15.1	3.53	8.6	3.60	1	280	0.4	0.66	1.16	0.31	0.25	167	<1
40386203		0.29	7.5	14.9	3.63	8.7	3.60	1	281	0.5	0.60	1.09	0.29	0.23	171	1
40386204		0.27	7.3	14.9	3.53	9.5	3.40	1	277	0.4	0.64	1.22	0.30	0.27	165	1
40386205		0.33	8.4	17.8	4.21	11.3	4.02	1	281	0.5	0.71	1.37	0.36	0.30	174	<1





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Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	
40356928		37.9	3.48	330	0.4	0.01	<0.005	0.038	0.001	<0.05	<0.2	0.02	0.36	0.03	0.08	16.3
40386167		25.8	2.60	146	<0.1	0.01	<0.005	0.020	0.001	<0.05	0.3	0.01	0.04	0.06	0.10	51.6
40386168		24.3	2.39	137	0.5	0.01	<0.005	0.019	0.001	<0.05	0.6	0.01	0.05	0.05	0.11	54.3
40386169		43.5	4.33	266	0.6	0.02	0.006	0.021	0.003	<0.05	0.4	0.01	0.03	0.05	0.15	45.1
40386170		41.9	4.12	238	0.7	0.01	0.009	0.023	0.002	<0.05	0.2	0.01	0.04	0.36	0.15	44.6
40386171		34.8	3.27	185	0.6	0.02	0.006	0.018	0.001	<0.05	0.3	0.01	0.05	0.06	0.11	43.4
40386172		40.3	4.15	237	0.8	0.01	<0.005	0.023	0.001	<0.05	0.2	0.02	0.04	0.06	0.11	47.5
40386173		23.7	2.13	125	0.8	0.01	<0.005	0.019	0.002	<0.05	0.4	0.01	0.04	0.05	0.10	48.8
40386174		23.0	2.38	124	0.6	0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.04	0.07	0.12	53.8
40386175		24.5	2.57	138	0.5	0.01	<0.005	0.021	0.002	<0.05	0.3	0.01	0.04	0.05	0.12	49.4
40386176		24.8	2.45	139	0.4	0.01	0.006	0.020	0.002	<0.05	0.3	0.01	0.04	0.07	0.12	52.7
40386177		27.9	2.93	171	0.5	0.01	<0.005	0.022	0.001	<0.05	0.3	0.02	0.06	0.05	0.10	44.7
40386178		33.0	3.21	190	0.6	0.01	0.005	0.022	0.002	<0.05	<0.2	0.01	0.05	0.06	0.12	51.3
40386179		23.2	2.18	118	0.4	0.01	<0.005	0.018	0.001	<0.05	0.4	0.01	0.04	0.08	0.12	55.4
40386180		36.4	3.66	295	0.5	0.02	<0.005	0.034	0.001	<0.05	0.2	0.02	0.38	0.04	0.07	16.2
40386181		22.9	2.12	129	0.4	0.01	<0.005	0.020	0.002	<0.05	0.2	0.01	0.05	0.06	0.08	48.5
40386182		23.7	2.33	133	0.4	0.01	0.006	0.020	0.001	<0.05	0.6	0.02	0.05	0.09	0.13	53.8
40386183		21.4	2.06	114	0.8	0.01	<0.005	0.018	0.001	<0.05	0.4	0.01	0.07	0.07	0.07	46.7
40386184		22.0	2.04	122	0.5	0.01	0.005	0.018	0.001	<0.05	0.4	0.02	0.04	0.06	0.08	46.7
40386185		21.1	2.20	120	0.5	0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.04	0.07	0.11	49.7
40386186		21.1	2.08	118	0.5	0.02	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.04	0.06	0.08	45.1
40386187		21.4	2.07	115	0.5	0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.03	0.04	0.10	44.9
40386188		21.6	2.10	122	0.4	0.01	<0.005	0.017	0.001	<0.05	0.5	0.01	0.03	0.05	0.09	49.6
40386189		21.3	2.08	114	0.2	0.01	0.006	0.018	0.001	<0.05	0.4	0.01	0.04	1.35	0.08	49.3
40386190		19.5	1.89	114	5.4	0.15	0.011	0.033	0.003	0.39	1.1	0.06	0.46	0.51	0.27	64.2
40386191		24.2	2.24	142	0.7	0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.05	0.11	0.10	49.8
40386192		30.5	2.96	178	2.1	0.01	<0.005	0.022	0.002	<0.05	0.2	0.01	0.05	0.06	0.07	46.6
40386193		25.0	2.61	145	0.9	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.04	0.06	0.08	49.0
40386194		19.0	1.85	103	0.4	0.01	0.006	0.018	<0.001	<0.05	0.4	0.02	0.04	0.06	0.10	64.4
40386195		18.5	1.81	106	0.3	0.01	<0.005	0.016	0.001	<0.05	0.4	0.01	0.04	0.04	0.09	53.5
40386196		18.8	1.82	102	0.3	0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.04	0.05	0.11	51.7
40386197		19.8	2.05	115	0.4	0.01	<0.005	0.016	0.001	<0.05	0.2	0.01	0.03	0.05	0.10	51.2
40386198		18.3	1.68	99	0.7	0.01	0.006	0.016	0.001	<0.05	0.3	0.01	0.03	0.06	0.11	52.7
40386199		18.7	1.83	101	0.6	0.01	0.008	0.015	0.001	<0.05	0.3	0.01	0.03	0.05	0.10	49.4
40386200		19.9	1.90	109	0.6	0.01	<0.005	0.014	0.001	<0.05	0.4	0.01	0.03	0.05	0.07	50.8
40386201		19.5	1.84	105	0.4	0.01	<0.005	0.017	0.001	<0.05	0.4	0.02	0.03	0.05	0.09	52.3
40386202		20.0	2.05	105	0.5	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.03	0.05	0.07	50.5
40386203		19.7	1.84	112	0.5	0.01	<0.005	0.017	0.001	<0.05	0.3	0.02	0.05	0.05	0.08	51.0
40386204		19.5	1.98	110	1.1	0.01	<0.005	0.015	0.001	<0.05	0.2	0.02	0.06	0.06	0.09	50.6
40386205		22.6	2.27	126	2.5	0.02	<0.005	0.016	0.001	0.06	0.3	<0.01	0.07	0.06	0.09	52.5





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**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40356928		18.6	18.8	1.05	12.9	10.5	15.0	103	0.002	<0.0005	0.001
40386167		143.5	11.3	0.95	198.0	2.5	25.7	108	0.003	0.0052	0.007
40386168		160.0	10.9	0.90	224	2.6	19.8	118	0.005	0.0054	0.008
40386169		140.0	11.8	1.58	132.0	4.1	40.0	127	0.005	0.0032	0.005
40386170		133.5	12.1	1.44	133.0	3.1	40.5	126	0.003	0.0033	0.005
40386171		142.5	11.0	1.02	128.5	2.5	32.2	129	0.004	0.0034	0.006
40386172		130.0	12.9	1.25	146.5	2.4	35.9	143	0.003	0.0007	0.001
40386173		155.0	10.4	0.96	204	2.8	22.6	109	0.004	0.0068	0.009
40386174		135.0	10.3	0.95	213	3.6	26.6	105	0.003	0.0041	0.005
40386175		147.5	8.8	0.88	208	3.2	23.3	109	0.003	0.0047	0.006
40386176		146.0	10.2	0.97	209	3.2	25.2	107	0.003	0.0046	0.006
40386177		138.5	10.5	0.89	165.5	2.8	19.9	109	0.002	0.0021	0.003
40386178		159.5	11.8	1.29	152.0	3.8	26.4	119	0.004	0.0051	0.006
40386179		175.0	10.3	1.05	194.0	3.0	31.5	111	0.004	0.0041	0.005
40386180		17.6	18.3	0.88	13.1	11.2	15.2	98	0.002	<0.0005	0.001
40386181		139.5	8.5	0.80	223	2.4	19.9	102	0.004	0.0045	0.006
40386182		169.0	11.7	0.96	189.5	3.2	23.6	112	0.004	0.0040	0.006
40386183		141.5	13.8	0.81	211	2.6	19.7	97	0.003	0.0044	0.006
40386184		146.0	9.0	0.75	203	2.6	20.3	98	0.004	0.0039	0.005
40386185		139.0	9.4	0.86	207	2.9	23.1	95	0.003	0.0042	0.005
40386186		134.0	11.4	0.79	202	2.7	21.4	92	0.005	0.0043	0.006
40386187		130.0	7.1	0.82	204	2.0	19.2	91	0.003	0.0045	0.006
40386188		135.0	6.7	0.85	208	2.4	21.5	95	0.003	0.0046	0.007
40386189		140.0	6.8	0.70	240	2.1	21.0	95	0.003	0.0051	0.007
40386190		1125	36.8	2.91	701	6.4	19.2	112	0.024	0.0419	0.201
40386191		123.5	7.9	0.88	234	2.0	22.8	96	0.005	0.0052	0.007
40386192		132.0	8.6	1.11	215	2.0	19.0	102	0.004	0.0039	0.006
40386193		140.5	9.6	0.90	230	2.1	20.0	103	0.004	0.0044	0.006
40386194		134.0	9.8	0.88	301	3.2	19.5	98	0.004	0.0056	0.007
40386195		123.0	6.7	0.89	260	2.0	18.1	91	0.004	0.0059	0.009
40386196		130.0	6.7	0.75	237	2.1	19.2	89	0.005	0.0051	0.007
40386197		129.0	7.6	0.75	252	2.0	18.2	91	0.006	0.0048	0.007
40386198		129.0	9.9	0.71	265	1.7	18.7	92	0.004	0.0056	0.008
40386199		131.5	8.1	0.85	235	1.8	19.9	86	0.004	0.0048	0.007
40386200		130.5	8.5	0.74	236	1.9	18.9	88	0.003	0.0051	0.007
40386201		135.0	10.3	0.82	237	1.9	19.0	89	0.003	0.0054	0.008
40386202		133.0	9.6	0.70	241	1.8	18.1	89	0.003	0.0049	0.007
40386203		136.5	11.3	0.75	235	2.5	19.0	93	0.005	0.0058	0.007
40386204		131.5	13.7	0.77	248	2.8	18.2	93	0.004	0.0051	0.007
40386205		110.5	12.6	0.87	238	2.5	19.0	92	0.004	0.0051	0.007



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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

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 Account: RTEICKBZ

Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386206		6.03	45.8	17.45	12.25	9.49	8.74	2.31	0.40	0.024	1.71	0.13	0.18	0.03	0.02	100.26
40386207		5.64	47.0	17.20	11.60	9.88	8.41	2.34	0.34	0.027	1.57	0.14	0.15	0.03	0.02	100.28
40386208		5.48	47.4	18.05	11.70	9.86	7.60	2.69	0.36	0.024	1.73	0.14	0.30	0.03	0.02	101.29
40386209		5.68	47.1	17.25	11.40	9.50	7.67	2.91	0.32	0.026	1.74	0.13	0.18	0.03	0.02	100.14
40386210		1.57	57.5	18.80	7.63	6.20	2.64	3.95	2.53	0.002	1.01	0.12	0.32	0.07	0.11	101.22
40386211		5.58	46.2	17.00	12.30	9.85	9.30	2.22	0.38	0.030	1.49	0.15	0.15	0.03	0.02	99.71
40386212		5.45	47.0	17.60	11.75	9.61	8.87	2.30	0.35	0.031	1.29	0.15	0.14	0.03	0.02	100.20
40386213		5.47	46.8	18.45	11.25	10.25	8.33	2.39	0.39	0.026	1.33	0.14	0.14	0.03	0.02	100.12
40386214		5.44	45.8	17.20	11.90	9.85	9.33	2.20	0.38	0.030	1.32	0.15	0.14	0.03	0.02	99.25
40386215		5.58	45.5	17.30	11.70	9.64	9.24	2.25	0.39	0.025	1.34	0.15	0.14	0.03	0.02	98.30
40386216		5.06	45.5	17.35	11.50	9.54	9.41	2.27	0.39	0.027	1.35	0.15	0.14	0.03	0.02	98.70
40386217		5.93	45.4	17.00	11.55	9.40	10.55	2.17	0.39	0.032	1.18	0.14	0.15	0.03	0.02	99.05
40386218		5.53	45.2	17.25	11.00	9.53	10.20	2.14	0.38	0.032	1.14	0.13	0.15	0.03	0.02	98.04
40386219		5.88	44.3	15.20	12.95	8.77	12.80	1.87	0.34	0.027	1.11	0.15	0.13	0.02	0.01	98.89
40386275		1.65	45.4	19.55	9.94	10.40	7.52	2.29	0.42	0.025	1.01	0.11	0.14	0.03	0.02	98.03
40386276		4.16	47.0	18.30	11.20	10.55	8.30	2.40	0.47	0.033	1.08	0.14	0.11	0.03	0.02	100.87
40386277		3.14	47.7	15.10	13.25	9.12	8.16	2.54	0.38	0.035	1.35	0.15	0.13	0.02	0.01	98.93
40386278		3.50	44.3	14.90	13.60	9.54	11.30	1.82	0.31	0.046	1.20	0.16	0.08	0.02	0.01	98.30
40386279		6.45	44.6	15.60	12.70	9.09	12.20	1.95	0.35	0.034	1.06	0.15	0.12	0.02	0.01	98.61
40386280		0.17	44.3	18.35	12.00	9.41	7.46	2.08	1.06	0.332	1.28	0.14	0.16	0.04	0.04	98.53
40386281		6.10	45.5	17.15	11.20	9.88	10.40	2.16	0.37	0.039	1.09	0.14	0.12	0.03	0.01	98.95
40386282		6.49	44.9	16.95	11.55	9.71	10.60	2.12	0.34	0.037	1.09	0.14	0.11	0.02	0.01	98.16
40386283		6.50	45.1	16.75	11.95	9.59	11.30	2.08	0.33	0.039	1.01	0.14	0.11	0.03	0.01	99.02
40386284		6.54	45.2	17.25	11.30	9.84	10.90	2.15	0.28	0.040	1.03	0.14	0.11	0.02	0.01	98.78
40386285		6.34	45.3	16.90	11.90	9.54	12.10	2.11	0.27	0.038	1.05	0.14	0.12	0.03	0.01	100.22
40386286		5.76	45.6	17.20	11.45	9.73	11.90	2.09	0.28	0.040	0.99	0.14	0.10	0.02	0.01	100.32
40386287		6.50	45.5	17.20	11.60	9.82	12.30	2.06	0.26	0.043	0.94	0.14	0.09	0.03	0.01	100.73
40386288		6.56	45.5	17.35	11.30	9.75	12.35	2.07	0.26	0.042	0.94	0.13	0.10	0.03	0.01	100.76
40386289		2.71	44.9	17.50	10.90	9.61	11.70	2.00	0.29	0.037	0.94	0.13	0.12	0.03	0.01	99.26
40386290		2.69	45.1	17.55	11.00	9.74	11.80	2.01	0.29	0.041	0.94	0.13	0.10	0.03	0.01	99.80
40386291		6.20	46.1	18.00	11.30	9.93	11.95	2.09	0.31	0.038	0.99	0.13	0.11	0.02	0.01	101.72
40386292		6.61	46.5	18.70	10.75	10.30	11.30	2.14	0.27	0.038	0.95	0.13	0.11	0.03	0.01	101.80
40386293		6.29	45.8	18.30	10.75	10.25	12.00	1.98	0.24	0.032	0.88	0.13	0.10	0.03	0.01	100.97
40386294		6.43	44.9	17.10	11.25	9.54	13.30	1.89	0.24	0.028	0.89	0.13	0.10	0.02	0.01	99.96
40386295		6.31	46.4	19.00	10.45	10.55	11.70	2.00	0.24	0.029	0.88	0.12	0.09	0.03	0.01	101.72
40386296		6.23	44.8	18.30	10.20	10.15	12.00	1.92	0.23	0.029	0.79	0.12	0.08	0.03	0.01	99.14
40386297		5.77	44.0	17.55	10.50	9.76	12.45	1.82	0.20	0.030	0.81	0.13	0.10	0.03	0.02	98.05
40386298		6.23	44.5	17.15	11.15	9.47	13.95	1.84	0.22	0.026	0.82	0.13	0.09	0.03	0.01	100.14
40386299		6.51	44.0	15.55	11.90	8.67	16.25	1.69	0.21	0.029	0.76	0.14	0.09	0.02	0.01	101.21
40386300		4.18	56.9	18.30	6.93	6.50	2.63	3.71	2.22	0.005	0.84	0.11	0.26	0.06	0.10	98.93



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Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386206		1.73	<0.01	0.03	140.5	28.0	180	1.40	3.87	2.41	1.26	20.4	4.34	3.2	0.83	12.3
40386207		1.57	0.04	0.03	138.0	27.4	210	0.92	4.00	2.36	1.28	20.4	3.95	2.9	0.82	11.9
40386208		1.39	<0.01	0.03	144.5	43.5	180	0.87	5.56	3.34	1.59	22.7	6.47	4.3	1.19	18.9
40386209		1.86	<0.01	0.23	177.0	36.4	200	0.82	4.77	2.93	1.49	21.2	5.22	3.7	1.03	16.2
40386210		0.34	0.04	0.11	951	69.6	20	1.46	6.89	3.93	1.84	25.2	7.42	8.4	1.41	30.2
40386211		0.59	<0.01	0.03	145.5	25.5	220	1.08	3.68	2.13	1.25	20.2	4.00	2.9	0.76	11.4
40386212		1.06	<0.01	0.02	143.5	25.3	240	1.08	3.44	1.95	1.18	20.7	3.73	2.5	0.73	11.6
40386213		0.57	<0.01	0.02	147.0	24.1	200	0.89	3.35	2.08	1.14	21.2	3.63	2.5	0.70	10.9
40386214		0.90	<0.01	0.02	136.5	23.8	230	1.17	3.30	2.05	1.19	20.7	3.48	2.8	0.70	10.7
40386215		0.57	<0.01	0.03	147.0	24.1	190	0.92	3.35	2.13	1.10	21.0	3.59	2.7	0.73	10.8
40386216		1.02	<0.01	0.03	146.0	24.6	210	1.32	3.35	2.06	1.14	20.2	3.69	2.8	0.79	10.8
40386217		1.04	<0.01	0.03	145.5	25.4	240	1.49	3.39	2.19	1.14	20.1	3.61	2.7	0.71	11.5
40386218		0.84	<0.01	0.02	145.5	25.4	260	1.26	3.66	2.03	1.27	20.2	3.70	2.8	0.69	11.3
40386219		1.21	<0.01	0.04	144.5	23.7	200	1.14	3.39	2.11	1.01	17.3	3.48	2.6	0.68	10.6
40386275		1.17	0.01	0.04	156.5	26.0	210	2.01	3.63	2.11	1.22	20.8	3.70	2.7	0.65	11.6
40386276		1.24	<0.01	0.04	170.0	20.0	250	2.24	2.99	1.76	1.24	19.9	3.10	2.0	0.59	8.9
40386277		0.98	<0.01	0.09	133.5	31.9	260	2.33	4.10	2.31	1.34	19.8	4.02	3.3	0.81	14.9
40386278		1.01	<0.01	0.04	107.5	16.9	350	1.46	2.65	1.42	0.86	16.3	2.72	1.8	0.54	7.4
40386279		0.73	0.01	0.04	126.5	20.5	260	1.24	3.21	1.64	1.00	17.0	2.90	2.0	0.63	9.1
40386280		1.88	0.02	0.34	346	27.3	2510	2.50	3.53	2.06	1.23	20.7	3.28	2.9	0.71	12.4
40386281		0.86	0.02	0.04	138.5	21.6	290	1.10	3.11	1.88	1.08	18.0	3.39	2.3	0.61	9.9
40386282		0.58	<0.01	0.04	131.5	21.3	280	1.73	2.89	1.66	1.08	17.5	2.91	2.2	0.60	9.6
40386283		0.58	<0.01	0.03	125.5	21.5	290	1.24	3.09	1.88	1.01	18.0	3.29	2.3	0.61	9.6
40386284		0.51	<0.01	0.04	126.0	19.9	300	0.32	2.96	1.49	0.94	18.3	2.94	2.0	0.58	8.8
40386285		0.71	<0.01	0.04	131.5	20.2	290	0.11	2.88	1.72	0.99	17.6	2.71	2.2	0.65	9.1
40386286		0.77	<0.01	0.04	122.5	19.4	300	0.27	2.88	1.61	0.94	17.5	2.94	2.1	0.53	8.8
40386287		0.74	<0.01	0.03	117.5	17.8	320	0.25	2.65	1.30	0.98	17.0	2.59	1.7	0.54	8.1
40386288		0.93	<0.01	0.03	112.0	17.6	310	0.25	2.51	1.50	0.88	16.9	2.66	2.0	0.54	8.1
40386289		1.09	0.01	0.04	123.0	20.0	280	0.62	2.60	1.44	0.93	17.6	2.81	2.0	0.50	8.9
40386290		1.06	0.01	0.04	116.5	19.2	290	0.59	2.74	1.63	0.98	17.2	2.83	2.2	0.53	8.7
40386291		0.74	0.01	0.04	119.0	19.4	270	0.32	2.76	1.48	0.96	17.6	2.71	2.0	0.54	8.5
40386292		0.57	0.01	0.04	115.5	18.6	270	0.19	2.78	1.44	0.91	17.0	2.67	2.0	0.52	8.2
40386293		0.47	0.03	0.03	111.5	17.4	230	0.11	2.33	1.46	0.88	16.9	2.60	1.7	0.48	7.5
40386294		0.56	0.01	0.04	110.0	18.1	210	0.08	2.60	1.47	0.86	16.8	2.47	1.9	0.51	8.2
40386295		0.22	0.01	0.04	110.0	17.5	210	0.11	2.33	1.24	0.80	17.4	2.61	1.9	0.51	7.9
40386296		0.48	0.01	0.04	109.0	19.7	220	0.06	2.40	1.30	0.82	16.5	2.61	1.7	0.48	8.7
40386297		0.65	0.01	0.04	105.0	17.1	220	0.14	2.35	1.40	0.90	16.8	2.48	1.7	0.50	7.7
40386298		0.75	0.02	0.03	100.0	16.0	190	0.14	2.43	1.24	0.87	16.0	2.20	1.5	0.44	7.2
40386299		1.89	0.02	0.04	91.9	15.2	220	0.18	2.08	1.16	0.73	14.5	2.04	1.6	0.47	6.9
40386300		0.36	0.06	0.10	959	63.9	30	1.17	5.84	3.44	1.55	23.0	6.70	7.4	1.18	28.1



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Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386206		0.33	8.5	16.3	3.65	12.8	3.68	1	249	0.5	0.63	1.28	0.34	0.29	192	1
40386207		0.30	7.7	15.7	3.63	9.2	3.45	1	260	0.5	0.66	1.49	0.31	0.38	194	<1
40386208		0.47	10.8	24.6	5.75	9.2	5.76	1	261	0.6	0.98	1.95	0.46	0.44	225	1
40386209		0.38	9.2	19.8	4.73	8.0	4.59	1	271	0.6	0.77	2.35	0.39	0.75	222	1
40386210		0.52	13.9	37.8	9.35	102.5	8.40	2	604	0.7	1.18	4.13	0.58	1.62	137	1
40386211		0.27	7.2	14.3	3.46	9.7	3.36	1	259	0.4	0.57	1.09	0.32	0.30	188	1
40386212		0.26	6.6	14.3	3.39	9.0	3.32	1	262	0.4	0.53	1.24	0.25	0.36	170	1
40386213		0.24	6.5	13.8	3.14	9.0	3.51	1	280	0.3	0.61	1.06	0.24	0.23	168	<1
40386214		0.27	6.4	13.7	3.10	9.9	3.08	1	263	0.4	0.54	1.09	0.28	0.26	174	<1
40386215		0.27	7.2	14.1	3.10	9.3	3.22	1	273	0.5	0.54	0.98	0.28	0.23	171	<1
40386216		0.26	7.2	13.7	3.12	9.4	3.40	1	274	0.4	0.50	1.10	0.27	0.27	170	1
40386217		0.30	6.8	14.2	3.33	10.1	3.36	1	263	0.4	0.56	1.15	0.29	0.25	158	1
40386218		0.27	6.7	14.5	3.27	9.9	3.34	1	269	0.4	0.57	1.13	0.29	0.26	158	<1
40386219		0.26	7.1	13.8	3.15	8.1	3.45	1	232	0.4	0.55	1.15	0.27	0.42	147	1
40386275		0.26	7.0	14.8	3.47	12.0	3.43	1	300	0.5	0.60	1.18	0.29	0.32	137	1
40386276		0.20	5.8	11.7	2.52	13.9	2.64	1	295	0.4	0.52	0.81	0.25	0.22	146	1
40386277		0.33	6.7	17.2	4.09	12.0	3.90	1	232	0.5	0.67	2.42	0.29	0.62	211	1
40386278		0.20	5.3	10.3	2.29	8.0	2.51	1	222	0.4	0.44	0.80	0.23	0.24	154	1
40386279		0.23	5.9	12.0	2.74	9.4	3.05	1	232	0.4	0.54	0.91	0.24	0.21	135	1
40386280		0.27	7.8	15.4	3.59	33.9	3.70	1	399	0.6	0.57	1.38	0.29	0.36	192	1
40386281		0.23	6.2	12.9	2.94	8.9	3.04	1	248	0.5	0.57	0.91	0.25	0.23	145	1
40386282		0.22	6.3	12.5	2.79	8.3	2.70	1	248	0.4	0.53	0.91	0.25	0.21	143	1
40386283		0.22	6.2	12.9	2.83	8.1	2.88	1	240	0.4	0.58	0.81	0.25	0.21	136	1
40386284		0.19	6.0	11.6	2.62	5.9	2.75	1	249	0.5	0.51	0.78	0.23	0.20	135	1
40386285		0.20	6.0	11.6	2.60	5.6	2.86	1	246	0.5	0.47	0.84	0.25	0.23	136	<1
40386286		0.21	5.8	11.3	2.57	5.5	2.83	1	243	0.4	0.46	0.81	0.22	0.21	131	1
40386287		0.21	5.1	10.1	2.39	5.0	2.58	1	243	0.3	0.43	0.68	0.22	0.18	124	<1
40386288		0.16	5.2	10.8	2.23	5.4	2.34	1	241	0.4	0.42	0.73	0.23	0.20	118	<1
40386289		0.23	5.8	11.4	2.59	7.1	2.84	1	254	0.6	0.48	0.84	0.19	0.19	119	1
40386290		0.19	5.6	11.0	2.50	6.8	2.65	1	248	0.4	0.48	0.81	0.20	0.21	116	1
40386291		0.22	6.0	11.7	2.53	6.4	2.83	1	253	0.4	0.55	0.87	0.20	0.20	124	3
40386292		0.20	5.6	10.5	2.48	5.1	2.62	1	261	0.4	0.44	0.85	0.23	0.21	117	1
40386293		0.19	4.9	10.2	2.34	4.4	2.46	1	256	0.5	0.42	0.69	0.23	0.16	110	1
40386294		0.20	5.2	10.6	2.24	4.8	2.41	1	245	0.4	0.42	0.80	0.21	0.21	110	<1
40386295		0.19	5.1	10.4	2.24	4.4	2.22	1	262	0.3	0.45	0.71	0.19	0.16	111	1
40386296		0.16	7.3	11.0	2.62	5.1	2.49	<1	257	0.4	0.43	0.88	0.18	0.19	103	1
40386297		0.21	5.2	9.6	2.35	4.8	2.49	1	256	0.4	0.41	0.65	0.18	0.16	103	1
40386298		0.16	4.7	9.1	2.08	4.6	2.15	1	238	0.4	0.39	0.64	0.18	0.16	99	1
40386299		0.16	4.2	8.5	1.94	4.5	2.11	1	215	0.3	0.39	0.59	0.15	0.14	93	<1
40386300		0.42	12.9	35.6	8.50	92.1	7.63	2	555	0.6	0.99	4.27	0.45	1.79	115	1





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 Account: RTEICKBZ

Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.01	0.02	0.1
40386206		21.5	2.09	123	9.4	0.03	<0.005	0.024	0.001	0.12	0.2	0.02	0.17	0.05	0.08	56.7
40386207		20.7	2.02	109	3.7	0.03	<0.005	0.018	0.001	0.06	0.3	0.01	0.13	0.08	0.08	54.7
40386208		30.1	2.89	160	3.9	0.03	0.006	0.019	<0.001	0.09	0.3	0.01	0.10	0.05	0.08	50.2
40386209		24.7	2.33	134	4.7	0.02	<0.005	0.018	0.001	0.08	<0.2	0.01	0.12	0.06	0.07	57.7
40386210		36.9	3.47	327	0.4	0.02	<0.005	0.035	<0.001	<0.05	<0.2	0.01	0.36	0.03	0.08	18.5
40386211		19.4	2.00	110	3.8	0.02	<0.005	0.018	0.001	0.07	0.2	0.02	0.08	0.07	0.10	65.2
40386212		17.7	1.77	97	3.5	0.02	<0.005	0.016	0.001	0.05	0.3	<0.01	0.11	0.15	0.10	58.4
40386213		17.6	1.58	95	2.7	0.02	<0.005	0.015	<0.001	<0.05	0.3	<0.01	0.05	0.08	0.10	55.8
40386214		17.6	1.76	102	3.0	0.03	<0.005	0.015	0.001	0.11	0.2	0.01	0.07	0.07	0.10	60.8
40386215		18.2	1.93	102	0.4	0.01	<0.005	0.017	0.001	<0.05	<0.2	<0.01	0.06	0.07	0.08	60.2
40386216		17.9	1.83	105	0.7	0.01	<0.005	0.015	0.001	<0.05	0.2	<0.01	0.07	0.16	0.11	58.5
40386217		18.7	1.75	99	0.2	0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.07	0.05	0.14	66.4
40386218		18.4	1.94	103	2.0	0.01	<0.005	0.016	0.001	0.05	0.3	0.01	0.06	0.04	0.09	63.8
40386219		17.4	1.74	89	0.5	0.01	<0.005	0.019	<0.001	<0.05	0.2	<0.01	0.08	0.04	0.09	74.8
40386275		19.0	1.83	105	0.3	0.01	<0.005	0.015	0.001	<0.05	0.3	<0.01	0.04	0.06	0.10	50.4
40386276		15.6	1.50	75	2.6	0.01	<0.005	0.014	0.002	<0.05	0.2	0.01	0.05	0.06	0.10	55.4
40386277		20.9	1.97	109	6.0	0.05	0.005	0.019	0.001	0.07	0.6	0.02	0.06	0.06	0.08	61.5
40386278		13.7	1.35	71	2.3	0.02	0.005	0.018	<0.001	0.05	0.3	0.01	0.06	0.08	0.11	77.8
40386279		15.8	1.54	80	1.4	0.01	0.006	0.019	<0.001	<0.05	0.4	<0.01	0.04	0.06	0.10	74.3
40386280		18.7	1.70	101	4.9	0.14	0.009	0.033	0.002	0.37	1.1	0.06	0.45	0.49	0.31	71.5
40386281		16.2	1.55	84	0.3	0.01	<0.005	0.019	<0.001	<0.05	0.2	0.01	0.02	0.14	0.11	64.5
40386282		15.6	1.69	88	1.3	0.01	0.005	0.020	<0.001	<0.05	0.2	0.01	0.04	0.05	0.09	63.4
40386283		15.7	1.57	80	2.2	0.01	<0.005	0.018	0.001	0.07	<0.2	0.01	0.03	0.05	0.09	69.6
40386284		15.0	1.62	78	0.3	0.01	<0.005	0.017	<0.001	<0.05	0.3	<0.01	0.03	0.05	0.10	63.8
40386285		15.3	1.43	86	0.3	0.01	<0.005	0.018	0.001	<0.05	0.2	<0.01	0.03	0.06	0.09	67.5
40386286		14.6	1.40	76	0.7	0.01	<0.005	0.017	0.001	<0.05	0.3	<0.01	0.03	0.06	0.10	67.9
40386287		13.5	1.31	69	0.4	0.01	<0.005	0.018	0.001	<0.05	0.2	<0.01	0.03	0.07	0.10	70.2
40386288		13.4	1.09	70	0.5	0.01	<0.005	0.016	0.001	<0.05	0.2	0.02	0.02	0.06	0.09	64.3
40386289		14.5	1.32	78	0.8	0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.04	0.05	0.06	62.4
40386290		14.3	1.44	83	1.1	0.01	<0.005	0.017	0.001	<0.05	0.2	<0.01	0.05	0.05	0.06	66.2
40386291		14.6	1.41	75	0.7	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.04	0.06	0.10	67.6
40386292		13.6	1.16	81	0.4	0.01	<0.005	0.014	0.001	<0.05	<0.2	<0.01	0.02	0.06	0.12	60.0
40386293		12.7	1.12	66	0.3	0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.02	0.05	0.08	77.0
40386294		13.1	1.28	70	0.3	0.01	<0.005	0.017	<0.001	<0.05	0.3	0.01	0.02	0.04	0.09	70.9
40386295		12.5	1.21	68	0.3	0.01	0.007	0.016	<0.001	<0.05	0.2	0.01	0.02	0.05	0.08	74.1
40386296		12.1	1.39	65	0.1	0.01	<0.005	0.016	0.001	<0.05	0.2	0.01	0.02	0.03	0.08	64.9
40386297		12.2	1.40	64	0.1	0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.02	0.03	0.05	67.3
40386298		11.6	1.20	60	<0.1	0.01	<0.005	0.015	<0.001	<0.05	0.3	<0.01	0.02	0.04	0.08	74.8
40386299		10.8	1.13	58	0.6	0.01	<0.005	0.017	<0.001	<0.05	<0.2	0.01	0.02	0.03	0.06	80.0
40386300		30.9	2.86	316	0.5	0.01	<0.005	0.030	<0.001	<0.05	0.2	0.01	0.34	0.03	0.08	17.3





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 Account: RTEICKBZ

Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386206		152.5	16.2	0.76	279	1.7	19.0	103	0.006	0.0062	0.009
40386207		156.5	14.2	0.75	258	2.0	19.8	97	0.005	0.0053	0.009
40386208		129.0	11.7	1.12	224	2.0	20.1	92	0.004	0.0056	0.007
40386209		130.0	13.3	0.82	235	2.1	22.9	90	0.007	0.0066	0.009
40386210		19.2	19.9	0.99	12.6	13.2	15.9	100	0.003	0.0005	0.001
40386211		153.5	13.7	0.80	300	2.4	24.6	106	0.005	0.0079	0.012
40386212		156.5	15.6	0.93	288	2.5	21.3	102	0.006	0.0087	0.014
40386213		146.5	14.1	0.70	266	2.4	20.4	98	0.005	0.0066	0.010
40386214		153.5	18.4	0.82	324	2.5	20.7	107	0.006	0.0040	0.007
40386215		155.5	13.8	0.73	327	2.5	19.8	102	0.002	0.0048	0.009
40386216		124.5	16.0	0.72	340	2.7	18.2	102	0.003	0.0059	0.013
40386217		97.1	17.2	0.82	394	3.2	19.6	101	0.003	0.0098	0.020
40386218		84.2	17.0	0.70	403	2.6	16.6	101	0.002	0.0015	0.004
40386219		102.0	16.5	0.67	534	2.4	15.5	109	0.002	0.0023	0.004
40386275		121.5	18.3	0.67	261	3.4	13.5	89	0.003	0.0105	0.005
40386276		152.0	14.6	0.62	262	2.1	19.4	89	0.005	0.0176	0.014
40386277		211	11.2	0.74	251	2.0	27.5	113	0.008	0.0074	0.007
40386278		179.5	15.4	0.68	418	1.8	26.1	110	0.006	0.0072	0.008
40386279		141.5	13.2	0.62	493	2.0	18.4	106	0.004	0.0074	0.012
40386280		1140	39.6	3.36	704	7.5	19.1	112	0.024	0.0399	0.190
40386281		129.0	7.6	0.74	401	2.1	19.8	93	0.003	0.0055	0.010
40386282		130.5	8.9	0.60	407	2.4	17.1	98	0.004	0.0054	0.010
40386283		134.0	14.3	0.66	436	2.2	17.8	96	0.003	0.0060	0.011
40386284		124.0	6.1	0.59	423	2.1	16.8	93	0.003	0.0046	0.008
40386285		118.0	4.9	0.57	506	2.6	15.7	102	0.002	0.0051	0.007
40386286		116.5	8.8	0.60	487	2.4	16.8	93	0.002	0.0044	0.006
40386287		114.5	7.5	0.56	518	3.7	16.1	103	0.002	0.0043	0.007
40386288		98.7	6.5	0.52	505	2.7	13.1	92	0.002	0.0045	0.006
40386289		93.0	10.8	0.54	490	1.5	13.5	86	0.002	0.0041	0.006
40386290		101.0	11.4	0.59	500	1.7	14.3	87	0.002	0.0043	0.007
40386291		104.5	8.6	0.59	505	3.0	15.0	97	0.002	0.0044	0.006
40386292		96.2	6.0	0.56	464	3.0	12.9	91	0.003	0.0039	0.006
40386293		118.0	6.2	1.47	579	2.1	15.0	88	0.002	0.0038	0.006
40386294		91.7	4.2	0.59	605	1.6	12.7	86	0.002	0.0039	0.007
40386295		106.5	4.6	0.75	605	1.9	14.8	92	0.002	0.0040	0.008
40386296		84.5	3.8	0.57	553	1.4	12.4	79	0.002	0.0038	0.007
40386297		88.3	4.1	0.56	583	1.2	14.0	79	0.002	0.0037	0.008
40386298		86.4	4.5	0.54	673	2.1	11.8	90	0.002	0.0040	0.008
40386299		78.1	5.2	0.51	791	1.5	11.8	88	0.002	0.0035	0.007
40386300		16.8	17.2	0.81	18.4	11.1	14.4	89	0.001	0.0018	0.003



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**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
	Analyte	Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40386301		6.03	43.9	15.70	11.85	8.83	16.10	1.69	0.23	0.031	0.75	0.14	0.09	0.02	0.01	100.99
40386302		6.51	42.9	14.60	12.25	8.18	17.10	1.59	0.21	0.030	0.74	0.14	0.08	0.02	0.01	100.33
40386303		6.58	41.8	12.75	12.90	7.51	19.10	1.30	0.24	0.027	0.70	0.15	0.08	0.02	0.01	100.48
40386304		5.94	41.8	12.15	13.20	6.97	20.0	1.39	0.19	0.029	0.69	0.15	0.07	0.02	0.01	100.48
40386305		6.32	42.7	13.35	12.75	7.58	18.85	1.49	0.19	0.029	0.70	0.15	0.09	0.02	0.01	100.97
40386306		6.41	43.3	15.90	11.25	8.86	15.25	1.69	0.21	0.027	0.76	0.13	0.08	0.02	0.01	99.51
40386307		6.54	45.1	18.55	10.10	10.25	12.05	1.93	0.23	0.031	0.81	0.12	0.10	0.03	0.01	100.31
40386308		6.38	44.8	16.90	10.95	9.48	13.00	1.99	0.23	0.034	0.88	0.13	0.10	0.03	0.01	99.26
40386309		6.71	44.7	16.50	11.25	9.33	13.70	1.95	0.23	0.046	0.86	0.14	0.09	0.02	0.01	99.76
40386310		0.17	45.3	18.20	12.25	9.38	7.31	2.24	1.09	0.356	1.34	0.15	0.16	0.05	0.04	99.88
40386311		6.70	44.5	17.75	10.65	9.78	12.75	1.87	0.23	0.033	0.85	0.13	0.11	0.03	0.01	99.30
40386312		6.31	45.0	18.40	10.25	10.25	11.80	1.94	0.24	0.047	0.86	0.13	0.10	0.03	0.01	99.83
40386313		6.56	44.6	19.55	10.00	10.70	9.72	1.95	0.31	0.280	0.88	0.12	0.11	0.03	0.01	99.49
40386314		6.47	45.0	18.85	10.05	10.55	11.10	1.94	0.21	0.043	0.85	0.13	0.10	0.03	0.01	99.51
40386315		6.44	44.3	17.95	10.30	9.91	11.65	1.86	0.32	0.032	0.83	0.13	0.09	0.03	0.01	98.48
40386316		6.54	44.7	17.50	10.45	9.76	11.60	2.01	0.23	0.034	0.89	0.13	0.10	0.03	0.01	98.29
40386317		6.44	45.1	18.00	10.30	9.91	11.30	2.09	0.26	0.032	0.89	0.13	0.11	0.03	0.01	98.78
40386318		6.16	44.7	16.25	11.65	9.58	11.05	2.12	0.34	0.031	1.90	0.14	0.12	0.03	0.01	99.39
40386319		2.68	44.8	16.85	10.75	9.59	12.55	1.89	0.31	0.037	0.85	0.13	0.10	0.03	0.01	100.29
40386320		2.71	45.5	17.10	11.05	9.50	12.65	1.95	0.32	0.030	0.91	0.14	0.11	0.03	0.01	101.66
40386321		5.78	43.6	16.80	10.55	9.64	11.65	1.79	0.33	0.034	0.85	0.13	0.10	0.03	0.01	98.80
40386322		6.67	46.2	17.65	10.95	9.85	12.10	1.98	0.33	0.033	0.91	0.13	0.10	0.03	0.01	101.95
40386323		6.31	46.1	17.65	10.90	9.76	12.10	2.04	0.31	0.034	0.92	0.13	0.11	0.03	0.01	101.43
40386324		6.17	45.1	17.50	10.20	9.69	11.40	1.91	0.25	0.035	0.89	0.13	0.10	0.03	0.01	101.14
40386325		6.18	46.0	18.05	10.65	9.81	11.65	2.06	0.26	0.037	0.91	0.13	0.10	0.03	0.01	101.48
40386326		6.36	46.9	18.80	10.40	10.45	11.00	2.19	0.32	0.037	0.96	0.13	0.12	0.03	0.01	101.72
40386327		5.98	46.1	18.10	10.65	10.15	11.45	2.03	0.34	0.042	0.91	0.13	0.11	0.03	0.01	101.39
40386328		6.37	46.2	18.15	10.65	10.10	11.70	2.11	0.27	0.045	0.92	0.13	0.11	0.03	0.01	100.99
40386329		6.75	44.0	17.30	10.55	9.66	12.25	1.81	0.30	0.045	0.84	0.13	0.10	0.03	0.01	98.16
40386330		3.36	58.2	18.05	6.80	5.77	2.31	3.76	2.62	0.003	0.91	0.11	0.28	0.07	0.12	99.39
40386331		6.41	46.2	17.65	10.85	9.85	12.40	2.13	0.27	0.046	0.92	0.14	0.11	0.03	0.01	101.17
40386332		6.40	46.1	17.70	10.85	9.88	12.05	2.12	0.28	0.049	0.91	0.13	0.11	0.03	0.01	100.95
40386333		6.33	45.5	17.70	10.55	9.80	11.50	2.11	0.27	0.053	0.91	0.13	0.11	0.03	0.01	99.46
40386334		6.08	45.8	18.10	10.45	10.05	11.05	2.09	0.38	0.058	1.00	0.13	0.11	0.03	0.01	100.27
40386335		5.96	45.1	17.75	10.65	9.94	10.95	2.06	0.40	0.063	1.00	0.13	0.12	0.03	0.01	99.61
40386336		6.15	45.7	18.95	9.88	10.30	9.67	2.20	0.37	0.049	0.97	0.12	0.11	0.03	0.01	99.31
40386337		6.15	46.2	18.95	9.93	10.50	9.76	2.24	0.33	0.029	0.96	0.12	0.11	0.03	0.01	99.62
40386338		6.36	45.4	18.80	9.82	10.35	9.50	2.21	0.31	0.028	1.00	0.12	0.11	0.03	0.01	98.00
40386339		6.15	45.9	18.60	10.25	10.40	9.72	2.23	0.32	0.031	1.02	0.13	0.12	0.03	0.01	99.38
40386340		0.17	45.3	18.50	12.40	9.39	7.41	2.15	1.10	0.356	1.33	0.15	0.16	0.05	0.04	100.35



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 Account: RTECIKBZ

Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40386301		1.65	0.01	0.04	90.6	14.9	220	0.30	2.13	1.20	0.80	14.4	2.15	1.5	0.43	6.8
40386302		2.48	0.01	0.04	86.7	14.4	210	0.21	2.19	1.06	0.68	13.2	2.07	1.4	0.42	6.4
40386303		3.89	0.02	0.04	83.3	14.4	210	0.68	2.11	1.10	0.68	12.7	2.15	1.5	0.43	6.4
40386304		3.81	0.01	0.03	78.3	13.8	210	0.11	1.93	1.14	0.66	11.9	1.84	1.5	0.40	6.3
40386305		3.06	0.01	0.04	86.1	14.1	210	0.09	1.87	1.04	0.67	13.1	2.03	1.6	0.44	6.1
40386306		2.02	0.01	0.04	89.6	14.8	200	0.14	2.24	1.00	0.70	14.5	2.03	1.7	0.40	6.8
40386307		1.00	0.01	0.04	97.6	15.8	210	0.36	2.39	1.22	0.82	16.8	2.61	1.7	0.49	7.0
40386308		0.73	0.02	0.04	92.3	16.5	230	0.25	2.34	1.53	0.80	15.8	2.47	1.7	0.48	7.5
40386309		0.93	0.01	0.05	91.3	15.6	310	0.31	2.27	1.44	0.85	14.4	2.75	1.4	0.53	7.2
40386310		2.01	0.03	0.35	313	26.8	2340	2.61	3.55	2.17	1.17	20.1	3.75	2.4	0.67	12.4
40386311		0.61	0.01	0.04	97.4	16.6	230	0.22	2.37	1.33	0.84	15.7	2.54	1.5	0.49	7.3
40386312		0.77	0.01	0.04	101.0	17.7	360	0.30	2.58	1.42	0.96	16.5	2.69	2.0	0.49	8.0
40386313		1.23	0.01	0.07	108.0	17.4	2160	1.24	2.49	1.46	0.94	19.0	2.53	1.8	0.50	7.9
40386314		0.65	0.02	0.04	92.9	16.2	300	0.34	2.28	1.31	0.85	16.5	2.24	1.6	0.44	7.1
40386315		1.07	0.01	0.05	95.7	16.3	220	1.38	2.39	1.38	0.82	15.6	2.55	1.8	0.49	7.4
40386316		0.85	0.01	0.05	93.0	15.7	230	0.62	2.13	1.30	0.90	16.1	2.37	1.5	0.47	7.2
40386317		0.62	0.01	0.04	97.3	16.6	230	0.65	2.53	1.31	0.94	16.6	2.94	1.7	0.50	7.6
40386318		1.47	0.01	0.05	111.0	22.3	220	1.32	3.22	2.17	1.13	16.9	3.79	2.4	0.72	10.0
40386319		2.39	0.01	0.04	97.2	16.2	250	1.63	2.43	1.50	0.89	15.2	2.39	1.6	0.47	7.2
40386320		2.36	0.01	0.03	100.5	16.7	200	1.66	2.26	1.33	0.87	15.5	2.29	1.8	0.45	7.6
40386321		3.29	0.02	0.05	96.0	17.1	230	1.98	2.22	1.36	0.94	15.9	2.56	1.6	0.48	7.8
40386322		1.68	0.02	0.05	99.0	17.4	220	1.40	2.34	1.30	0.88	15.6	2.84	1.6	0.52	7.9
40386323		1.34	0.03	0.04	100.0	17.7	230	1.39	2.50	1.54	0.99	16.0	2.57	1.7	0.48	7.9
40386324		3.89	0.04	<0.01	89.8	16.3	230	1.64	2.40	1.48	0.83	15.6	2.76	1.5	0.52	7.3
40386325		1.78	0.03	0.04	92.8	16.9	240	1.19	2.37	1.32	0.94	15.1	2.42	1.5	0.49	7.5
40386326		0.37	0.01	0.04	98.5	17.1	230	0.79	2.49	1.49	0.94	15.4	2.64	1.6	0.48	7.6
40386327		1.34	0.02	0.04	105.5	18.0	300	1.68	2.59	1.53	0.99	17.4	3.06	1.8	0.53	8.2
40386328		0.56	0.02	0.04	107.5	19.0	320	1.06	2.65	1.51	1.12	17.6	2.68	2.0	0.54	8.7
40386329		1.13	0.02	0.06	104.0	18.0	310	1.41	2.87	1.45	1.04	16.7	2.79	1.8	0.50	8.2
40386330		0.39	0.05	0.10	108.0	65.6	20	1.45	6.53	4.06	1.85	23.0	7.38	8.3	1.36	28.7
40386331		0.56	0.02	0.04	104.0	21.4	310	0.59	2.73	1.60	1.04	15.9	2.76	1.6	0.47	9.9
40386332		0.73	0.01	0.04	97.8	17.9	320	0.50	2.49	1.56	0.91	16.1	2.65	1.7	0.51	7.9
40386333		0.79	0.01	0.04	103.0	18.5	360	0.49	2.37	1.59	0.98	16.0	2.52	1.6	0.55	8.4
40386334		1.01	0.01	0.04	109.0	18.6	380	1.11	2.56	1.44	0.89	17.1	2.91	1.9	0.58	8.6
40386335		1.41	0.02	0.04	106.0	19.1	410	1.07	2.69	1.54	0.96	15.7	2.83	1.9	0.58	8.6
40386336		0.95	0.02	0.04	109.5	19.2	320	1.17	2.91	1.46	0.95	16.4	2.97	1.9	0.50	8.5
40386337		0.45	0.01	0.04	106.0	18.9	190	0.77	2.65	1.71	0.95	16.8	2.73	1.7	0.55	8.7
40386338		0.31	0.02	0.04	105.0	19.0	190	0.91	2.81	1.49	0.89	17.1	2.78	1.8	0.60	8.4
40386339		0.62	0.01	0.04	112.0	20.0	210	1.07	2.77	1.69	1.01	17.0	2.92	1.9	0.61	8.9
40386340		2.01	0.04	0.36	314	27.2	2350	2.54	3.80	2.13	1.30	19.0	3.71	2.7	0.68	12.1



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Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
40386301		0.15	4.3	8.6	1.94	4.8	2.08	1	219	1.8	0.35	0.61	0.20	0.16	96	1
40386302		0.16	4.5	8.1	1.89	4.3	1.92	1	199.5	0.3	0.36	0.61	0.15	0.14	90	<1
40386303		0.16	4.2	8.4	1.77	6.3	1.91	1	181.0	0.3	0.34	0.61	0.16	0.15	93	1
40386304		0.14	4.4	8.1	1.88	3.5	1.80	<1	171.0	0.3	0.29	0.57	0.14	0.13	89	<1
40386305		0.15	4.1	8.1	1.75	3.9	1.88	<1	188.5	0.4	0.36	0.53	0.18	0.17	91	6
40386306		0.15	4.2	8.6	1.92	4.2	2.05	<1	223	0.4	0.35	0.61	0.18	0.15	97	1
40386307		0.18	4.7	8.8	2.09	4.4	2.14	<1	261	0.4	0.43	0.66	0.19	0.16	101	<1
40386308		0.17	4.8	9.9	2.10	4.7	2.22	1	247	0.3	0.35	0.67	0.18	0.18	113	<1
40386309		0.16	4.6	9.8	2.16	5.1	2.29	<1	243	0.3	0.31	0.72	0.18	0.18	117	1
40386310		0.27	7.3	16.4	3.54	35.5	3.54	2	403	0.4	0.57	1.10	0.26	0.33	158	1
40386311		0.18	4.6	9.5	2.10	4.9	2.38	1	254	0.3	0.41	0.76	0.18	0.20	112	<1
40386312		0.20	4.8	10.3	2.40	5.6	2.25	<1	276	0.3	0.40	0.75	0.21	0.18	119	<1
40386313		0.21	5.0	10.4	2.24	9.7	2.81	1	297	0.3	0.39	0.72	0.15	0.17	141	<1
40386314		0.18	4.4	10.0	2.13	5.0	2.07	1	272	0.3	0.35	0.67	0.16	0.16	114	<1
40386315		0.15	4.5	9.2	2.10	9.6	2.55	1	260	0.3	0.35	0.69	0.19	0.19	113	<1
40386316		0.17	4.6	9.8	2.15	6.0	2.06	1	259	0.3	0.37	0.63	0.19	0.14	116	1
40386317		0.19	4.7	10.3	2.26	6.5	2.22	1	269	0.3	0.41	0.68	0.16	0.16	118	<1
40386318		0.26	7.9	14.2	3.00	11.1	3.17	1	262	0.5	0.53	0.89	0.29	0.33	214	<1
40386319		0.17	4.6	9.7	2.12	9.1	2.39	1	270	0.3	0.36	0.72	0.18	0.12	115	1
40386320		0.19	4.8	9.7	2.16	9.3	2.64	1	269	0.3	0.38	0.68	0.18	0.16	112	15
40386321		0.19	4.5	10.3	2.29	10.4	2.32	1	271	0.3	0.39	0.70	0.16	0.17	115	<1
40386322		0.21	4.8	9.9	2.27	9.7	2.24	1	267	0.3	0.37	0.78	0.21	0.50	116	1
40386323		0.18	4.8	10.2	2.26	8.9	2.43	1	272	0.3	0.38	0.71	0.19	0.26	116	<1
40386324		0.16	4.7	10.0	2.11	6.3	2.43	1	257	0.3	0.36	0.66	0.21	0.22	113	<1
40386325		0.16	4.6	10.4	2.30	6.5	2.36	1	258	0.3	0.38	0.68	0.16	0.17	111	1
40386326		0.16	4.7	10.1	2.20	8.2	2.45	1	264	0.3	0.40	0.68	0.20	0.16	115	<1
40386327		0.19	5.1	11.1	2.40	10.2	2.85	1	296	0.3	0.42	0.79	0.21	0.15	125	<1
40386328		0.23	5.2	12.0	2.56	6.8	2.53	1	294	0.3	0.45	0.71	0.23	0.21	128	<1
40386329		0.19	5.0	11.0	2.44	10.3	2.51	1	275	0.3	0.46	0.71	0.20	0.18	120	<1
40386330		0.44	14.0	37.2	8.61	115.0	7.73	2	609	0.7	1.08	3.97	0.53	4.06	124	1
40386331		0.18	5.2	12.2	2.87	6.3	2.66	1	258	0.3	0.46	1.51	0.18	0.21	117	<1
40386332		0.19	5.0	10.8	2.35	6.6	2.25	1	251	0.3	0.39	0.87	0.19	0.16	115	<1
40386333		0.21	5.2	11.3	2.30	6.2	2.11	1	258	0.3	0.42	0.79	0.21	0.18	120	<1
40386334		0.22	5.3	12.0	2.42	11.4	2.81	1	268	0.3	0.41	0.84	0.20	0.22	125	<1
40386335		0.22	5.2	11.4	2.51	13.1	2.89	1	258	0.3	0.41	0.72	0.23	0.20	122	<1
40386336		0.16	5.3	11.7	2.53	10.6	2.64	1	282	0.3	0.46	0.93	0.20	0.22	118	<1
40386337		0.15	5.2	11.7	2.44	8.6	2.33	1	277	0.3	0.42	0.94	0.24	0.25	118	<1
40386338		0.20	5.3	11.2	2.40	7.9	2.77	1	279	0.3	0.43	0.77	0.21	0.21	128	<1
40386339		0.19	5.6	11.6	2.60	9.1	3.05	1	281	0.3	0.52	0.78	0.22	0.20	133	<1
40386340		0.25	7.2	15.8	3.53	35.4	3.63	2	401	0.5	0.55	1.34	0.29	0.34	<5	<1





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**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40386301		10.9	1.06	58	0.7	<0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.03	0.06	0.10	81.1
40386302		10.4	1.14	54	0.3	<0.01	<0.005	0.017	<0.001	<0.05	0.3	<0.01	0.03	0.08	0.11	87.6
40386303		10.8	1.16	57	2.0	0.01	<0.005	0.020	<0.001	<0.05	0.2	<0.01	0.06	0.06	0.10	95.9
40386304		9.6	0.98	55	0.2	0.01	<0.005	0.019	<0.001	<0.05	<0.2	<0.01	0.02	0.02	0.06	105.0
40386305		10.5	1.03	53	0.2	<0.01	<0.005	0.018	<0.001	<0.05	0.2	<0.01	<0.02	0.03	0.05	98.1
40386306		10.9	1.05	59	0.5	0.01	<0.005	0.016	0.001	<0.05	0.2	<0.01	0.02	0.03	0.08	80.3
40386307		11.7	1.21	60	0.2	0.01	<0.005	0.014	0.001	<0.05	0.3	0.01	0.02	0.04	0.07	60.8
40386308		12.3	1.12	62	0.1	<0.01	<0.005	0.015	<0.001	<0.05	0.2	<0.01	0.02	0.06	0.11	69.8
40386309		11.9	1.28	61	0.3	0.01	<0.005	0.017	<0.001	<0.05	0.3	<0.01	0.02	0.07	0.13	73.4
40386310		18.4	1.68	99	4.8	0.13	0.006	0.030	0.002	0.27	1.0	0.05	0.46	0.47	0.26	65.5
40386311		12.5	1.35	65	0.3	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.03	0.11	0.06	72.1
40386312		13.1	1.24	70	0.2	<0.01	<0.005	0.015	0.001	<0.05	0.2	<0.01	0.02	0.03	0.05	60.9
40386313		13.1	1.21	67	10.7	0.02	<0.005	0.022	0.001	0.12	0.3	0.03	0.08	0.17	0.22	58.9
40386314		12.0	1.19	64	0.3	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.02	0.07	0.14	59.1
40386315		12.1	1.37	64	1.7	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.09	0.16	0.26	65.6
40386316		12.0	1.19	57	0.3	<0.01	<0.005	0.021	<0.001	<0.05	0.2	0.01	0.05	0.05	0.07	68.0
40386317		12.4	1.29	63	0.3	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.04	0.08	0.14	63.1
40386318		18.1	1.80	97	1.3	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.08	0.18	0.29	61.0
40386319		12.2	1.11	59	0.8	0.01	<0.005	0.017	<0.001	<0.05	0.2	0.01	0.06	0.10	0.22	69.0
40386320		12.3	1.28	64	0.7	0.01	<0.005	0.016	<0.001	<0.05	0.3	0.01	0.05	0.10	0.19	67.7
40386321		12.6	1.05	64	1.2	0.01	<0.005	0.025	0.001	<0.05	<0.2	0.02	0.15	0.15	0.30	67.4
40386322		12.7	1.28	65	1.3	0.01	<0.005	0.018	0.001	<0.05	0.3	0.01	0.09	0.12	0.28	64.4
40386323		12.5	1.44	72	0.8	0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.09	0.08	0.13	66.0
40386324		12.4	1.18	61	0.3	<0.01	<0.005	0.015	<0.001	<0.05	<0.2	<0.01	0.15	0.07	0.15	64.7
40386325		12.1	1.14	65	0.4	0.01	<0.005	0.016	<0.001	<0.05	0.3	0.01	0.08	0.04	0.09	62.1
40386326		12.4	1.25	67	0.8	0.01	<0.005	0.017	0.001	<0.05	0.4	0.01	0.03	0.10	0.22	61.0
40386327		13.7	1.28	73	1.0	0.01	<0.005	0.019	0.001	<0.05	0.2	0.01	0.08	0.16	0.31	61.9
40386328		13.9	1.44	72	0.5	0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.05	0.05	0.11	62.5
40386329		13.2	1.38	70	2.0	0.01	<0.005	0.019	0.001	<0.05	0.3	0.01	0.07	0.17	0.39	65.5
40386330		35.0	3.16	341	0.4	0.01	<0.005	0.032	0.001	<0.05	<0.2	0.01	0.39	0.04	0.06	15.1
40386331		13.7	1.43	68	0.2	0.01	<0.005	0.017	<0.001	<0.05	0.2	0.01	0.02	0.07	0.12	66.9
40386332		12.9	1.20	69	0.4	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.03	0.11	0.18	66.8
40386333		13.3	1.26	70	0.2	0.01	<0.005	0.016	0.001	<0.05	0.2	0.01	0.02	0.04	0.10	64.3
40386334		13.9	1.35	76	0.6	0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.04	0.16	0.40	62.2
40386335		13.8	1.54	75	0.6	0.01	<0.005	0.018	0.001	<0.05	0.2	0.01	0.04	0.06	0.12	61.3
40386336		14.1	1.32	74	0.2	0.01	<0.005	0.016	0.001	<0.05	0.2	0.01	0.04	0.04	0.10	54.9
40386337		13.8	1.46	70	0.2	0.01	<0.005	0.015	0.001	<0.05	0.2	0.01	0.05	0.04	0.10	55.1
40386338		14.0	1.33	77	0.2	<0.01	<0.005	0.016	0.001	<0.05	0.2	0.01	0.03	0.03	0.07	53.5
40386339		15.1	1.54	79	0.8	<0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.03	0.04	0.09	55.7
40386340		18.6	1.82	105	4.1	0.17	0.010	0.032	0.003	0.31	1.0	0.06	0.46	0.51	0.26	64.6





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Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386301		85.1	7.1	0.69	798	3.3	13.5	99	0.002	0.0038	0.008
40386302		84.7	6.3	0.56	887	4.2	10.9	104	0.003	0.0049	0.023
40386303		82.0	11.7	0.41	1005	2.3	9.8	107	0.002	0.0028	0.006
40386304		73.2	4.5	0.45	1080	1.4	12.0	94	0.002	0.0036	0.008
40386305		83.7	4.2	0.45	984	1.1	12.9	88	0.002	0.0025	0.004
40386306		72.6	5.1	0.53	810	1.5	12.1	86	0.002	0.0027	0.004
40386307		75.1	4.3	0.47	613	1.4	12.3	80	0.001	0.0013	0.002
40386308		106.0	6.1	0.58	676	2.0	12.6	87	0.001	0.0020	0.004
40386309		133.0	6.1	0.56	746	2.3	12.9	93	0.003	0.0066	0.015
40386310		1150	37.8	2.96	717	6.3	18.9	115	0.023	0.0502	0.214
40386311		93.3	5.1	0.57	643	1.4	11.9	79	0.002	0.0041	0.007
40386312		93.2	4.4	0.64	592	1.6	10.9	77	0.003	0.0071	0.013
40386313		253	13.2	0.52	574	4.3	14.8	121	0.010	0.0214	0.063
40386314		96.5	4.8	0.53	538	2.5	12.1	85	0.003	0.0077	0.020
40386315		138.5	9.9	0.52	570	4.9	12.6	110	0.003	0.0039	0.007
40386316		166.0	7.4	0.54	607	1.5	11.9	84	0.003	0.0042	0.007
40386317		90.9	6.4	0.53	562	3.0	13.9	90	0.003	0.0040	0.007
40386318		114.5	10.0	0.59	536	4.8	19.2	124	0.002	0.0041	0.008
40386319		94.2	9.2	0.46	651	3.4	12.5	102	0.003	0.0040	0.008
40386320		92.4	8.9	0.51	629	3.5	11.0	99	0.003	0.0041	0.008
40386321		156.5	10.4	0.52	586	4.5	14.7	112	0.003	0.0041	0.008
40386322		102.5	8.9	0.57	597	4.0	14.6	109	0.003	0.0039	0.008
40386323		93.9	8.3	0.59	622	2.9	15.7	91	0.003	0.0061	0.016
40386324		88.2	10.1	0.56	580	2.8	14.5	89	0.003	0.0050	0.012
40386325		89.2	7.5	0.60	564	1.7	13.7	80	0.003	0.0046	0.009
40386326		94.1	6.0	0.66	533	3.2	14.7	97	0.003	0.0045	0.008
40386327		109.5	10.0	0.55	566	4.4	14.2	107	0.003	0.0040	0.008
40386328		94.6	6.3	0.54	576	2.0	14.2	82	0.003	0.0043	0.008
40386329		107.0	9.5	0.57	617	6.0	13.7	124	0.003	0.0046	0.008
40386330		15.1	16.6	0.89	12.2	12.5	13.4	89	0.001	<0.0005	0.001
40386331		93.1	4.9	0.55	629	2.2	16.8	88	0.002	0.0046	0.008
40386332		93.5	6.7	0.56	611	3.4	15.2	96	0.003	0.0049	0.009
40386333		99.8	4.9	0.53	586	2.1	13.8	85	0.002	0.0054	0.012
40386334		97.2	9.8	0.56	546	6.2	15.3	112	0.003	0.0052	0.010
40386335		93.6	9.4	0.68	528	2.5	14.5	87	0.002	0.0051	0.011
40386336		94.7	7.6	0.62	460	2.1	13.3	80	0.003	0.0053	0.011
40386337		97.2	6.3	0.67	454	1.7	13.9	77	0.003	0.0055	0.010
40386338		93.5	5.2	0.65	422	1.3	13.5	74	0.003	0.0053	0.010
40386339		102.0	6.9	0.68	440	1.5	15.7	80	0.003	0.0052	0.011
40386340		1130	32.5	3.00	703	5.8	17.5	112	0.022	0.0371	0.216



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**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		Recvd WL	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	Total
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40386341		6.19	45.8	18.55	10.25	10.35	9.60	2.22	0.38	0.031	1.04	0.13	0.12	0.03	0.01	99.28
40386342		6.52	45.7	18.30	10.40	9.95	9.84	2.16	0.49	0.029	1.03	0.13	0.12	0.03	0.02	99.26
40386343		5.97	45.6	18.45	9.48	8.45	8.15	2.80	0.38	0.031	0.94	0.11	0.12	0.03	0.01	99.27
40386344		6.12	45.2	18.40	10.50	9.47	9.83	2.31	0.40	0.031	0.97	0.13	0.11	0.04	0.01	98.57
40386345		6.40	45.4	18.65	10.55	10.40	10.10	2.10	0.30	0.032	0.98	0.13	0.12	0.03	0.01	98.76
40386346		6.74	44.9	18.30	10.70	10.15	10.50	2.04	0.25	0.032	0.94	0.13	0.10	0.03	0.01	98.20
40386347		6.51	45.0	18.30	10.85	10.15	10.80	2.05	0.25	0.034	0.95	0.14	0.11	0.04	0.01	98.79
40386348		6.61	45.2	18.60	10.45	10.40	10.35	2.05	0.26	0.048	0.91	0.13	0.10	0.03	0.01	98.74
40386349		2.76	46.7	21.4	8.60	11.80	6.27	2.43	0.37	0.048	1.12	0.11	0.14	0.04	0.01	99.56
40386350		2.78	47.1	21.6	8.41	11.85	6.07	2.49	0.42	0.049	1.15	0.11	0.14	0.04	0.02	100.05
40386351		6.30	45.5	18.15	11.30	10.05	11.45	2.04	0.28	0.055	0.92	0.14	0.12	0.03	0.01	100.12
40386352		6.33	45.9	19.25	10.25	10.70	9.65	2.16	0.34	0.062	0.99	0.13	0.12	0.03	0.01	99.85
40386353		6.16	46.3	19.35	10.80	10.75	10.10	2.07	0.29	0.076	0.97	0.13	0.11	0.03	0.01	101.58
40386354		6.52	45.4	19.50	10.20	10.65	10.00	2.04	0.22	0.090	0.83	0.13	0.10	0.03	0.01	99.48
40386355		6.31	45.5	19.65	9.83	10.75	10.10	1.96	0.21	0.100	0.71	0.12	0.09	0.04	0.01	99.49

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**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	OA-GRA05	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		LOI %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1
40386341		0.77	0.02	0.04	106.5	19.7	210	1.14	2.75	1.68	1.05	17.2	2.69	2.0	0.58	8.9
40386342		1.06	0.02	0.07	128.5	20.6	190	1.23	2.53	1.59	1.02	17.0	3.07	2.1	0.55	9.3
40386343		4.72	0.10	0.18	124.0	25.0	200	1.76	2.93	1.65	0.93	17.0	3.20	2.1	0.60	12.3
40386344		1.17	0.04	0.03	130.5	22.5	210	1.14	2.57	1.85	0.91	17.4	3.08	2.2	0.62	11.1
40386345		-0.04	0.01	0.04	107.0	18.5	210	0.70	2.67	1.74	1.06	15.8	2.68	2.0	0.51	8.5
40386346		0.12	0.02	0.04	105.5	17.9	220	0.82	2.61	1.52	0.96	15.9	2.66	1.7	0.54	8.2
40386347		0.11	<0.01	<0.01	108.0	18.4	240	0.69	2.49	1.54	0.94	17.1	2.79	1.9	0.51	8.6
40386348		0.20	0.02	0.04	110.0	17.4	330	0.68	2.44	1.61	0.89	17.1	2.79	2.0	0.50	7.9
40386349		0.52	0.03	0.05	131.0	21.8	340	1.02	3.11	1.73	1.08	18.6	3.07	2.2	0.63	10.3
40386350		0.60	0.02	0.05	135.0	22.0	320	1.09	3.05	1.97	1.08	19.9	3.56	2.4	0.63	10.4
40386351		0.07	0.01	0.04	105.0	17.1	380	0.56	2.41	1.49	1.04	16.1	2.55	1.8	0.47	8.0
40386352		0.26	0.02	0.04	118.5	19.2	430	1.04	2.76	1.45	0.93	18.5	2.81	2.1	0.57	8.9
40386353		0.59	<0.01	<0.01	108.0	17.9	500	1.29	2.73	1.52	0.89	17.4	2.84	2.1	0.50	8.1
40386354		0.28	0.15	0.04	98.7	15.0	590	0.87	2.17	1.32	0.93	17.0	2.24	1.5	0.44	7.2
40386355		0.42	0.03	0.04	92.1	13.9	720	0.73	1.99	1.31	0.87	17.2	2.01	1.4	0.37	6.4

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**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5	W ppm 1
40386341		0.20	5.5	11.9	2.60	12.0	2.71	1	280	0.3	0.47	0.87	0.20	0.19	133	<1
40386342		0.20	5.7	12.2	2.61	16.4	3.03	1	278	0.3	0.44	0.83	0.21	0.20	127	<1
40386343		0.16	5.9	13.0	3.38	13.7	3.03	1	235	0.4	0.46	2.40	0.23	1.64	131	1
40386344		0.21	5.7	12.6	2.83	13.2	2.62	1	269	0.3	0.45	1.57	0.26	0.66	122	1
40386345		0.18	5.0	10.9	2.50	6.4	2.52	1	262	0.3	0.39	0.89	0.21	0.19	120	1
40386346		0.17	4.9	10.4	2.41	6.4	2.77	1	259	0.3	0.37	0.83	0.22	0.23	118	1
40386347		0.15	5.3	10.3	2.30	6.7	2.61	1	268	0.3	0.40	0.84	0.21	0.17	122	<1
40386348		0.17	5.1	10.5	2.29	7.2	2.14	1	272	0.3	0.39	0.73	0.18	0.17	118	<1
40386349		0.23	6.3	13.0	2.85	10.9	2.91	1	318	0.3	0.47	1.12	0.24	0.23	140	<1
40386350		0.19	6.6	12.5	2.91	11.6	3.51	1	319	0.3	0.47	1.02	0.20	0.24	142	<1
40386351		0.19	5.0	9.5	2.29	5.5	2.26	1	257	0.3	0.44	0.81	0.19	0.14	120	<1
40386352		0.15	5.5	11.7	2.57	8.8	2.79	1	283	0.3	0.45	0.91	0.22	0.20	130	1
40386353		0.17	5.2	10.2	2.41	7.6	2.31	1	279	0.3	0.32	0.73	0.20	0.16	117	<1
40386354		0.13	4.6	8.8	1.92	5.1	2.10	1	279	0.2	0.35	0.61	0.17	0.19	100	<1
40386355		0.14	3.7	7.9	1.77	4.9	1.81	1	284	0.2	0.32	0.53	0.16	0.15	100	<1



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**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS61	ME-MS61	ME-MS61	
		Y ppm 0.1	Yb ppm 0.03	Zr ppm 2	As ppm 0.1	Bi ppm 0.01	Hg ppm 0.005	In ppm 0.005	Re ppm 0.001	Sb ppm 0.05	Se ppm 0.2	Te ppm 0.01	Tl ppm 0.02	Ag ppm 0.01	Cd ppm 0.02	Co ppm 0.1
40386341		14.6	1.34	80	1.1	0.01	<0.005	0.016	0.001	<0.05	0.2	0.01	0.04	0.12	0.20	56.3
40386342		14.7	1.43	78	0.5	0.01	<0.005	0.017	0.001	<0.05	0.2	<0.01	0.13	0.11	0.17	58.0
40386343		15.1	1.44	79	4.5	0.02	<0.005	0.023	0.001	0.46	0.3	0.01	0.31	0.13	0.15	52.8
40386344		15.0	1.39	83	3.1	0.01	<0.005	0.020	0.001	0.22	0.2	0.01	0.11	0.07	0.11	57.5
40386345		14.4	1.42	72	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.03	0.05	0.06	59.3
40386346		13.7	1.30	72	0.5	0.01	<0.005	0.017	0.001	<0.05	0.3	0.01	0.03	0.06	0.10	61.2
40386347		13.7	1.30	75	0.3	0.01	<0.005	0.018	0.001	<0.05	0.3	<0.01	0.03	0.04	0.07	61.8
40386348		13.3	1.43	69	0.3	<0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.02	0.05	0.06	58.8
40386349		16.4	1.46	89	0.3	0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.03	0.04	0.08	38.2
40386350		17.0	1.76	92	0.3	0.01	<0.005	0.013	0.001	<0.05	0.3	<0.01	0.02	0.05	0.07	36.0
40386351		13.3	1.51	70	0.4	0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.02	0.05	0.06	62.6
40386352		14.6	1.45	78	0.5	0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.03	0.09	0.15	54.5
40386353		13.6	1.44	74	2.0	0.01	<0.005	0.018	0.001	0.12	0.3	<0.01	0.09	0.14	0.24	57.4
40386354		11.7	1.31	60	0.6	0.01	<0.005	0.014	0.001	<0.05	0.4	0.02	0.04	0.07	0.13	58.3
40386355		10.6	1.14	52	0.8	0.01	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.04	0.05	0.13	58.5





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 Plus Appendix Pages  
 Finalized Date: 16-AUG-2018  
 Account: RTEICKBZ

Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS24	PGM-MS24	PGM-MS24
		Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.2	0.05	0.2	0.5	0.1	2	0.001	0.0005	0.001
40386341		101.5	11.1	0.61	424	4.1	16.4	96	0.003	0.0050	0.009
40386342		104.5	13.2	0.64	457	3.9	16.2	98	0.003	0.0048	0.010
40386343		117.0	30.8	1.85	399	4.6	16.1	104	0.004	0.0108	0.048
40386344		112.0	15.6	1.17	437	2.7	15.6	92	0.003	0.0058	0.011
40386345		104.5	5.0	0.76	451	1.5	15.1	81	0.003	0.0060	0.011
40386346		105.0	6.4	0.67	477	1.7	15.5	86	0.003	0.0067	0.012
40386347		106.5	4.8	0.68	491	1.4	14.4	82	0.003	0.0067	0.012
40386348		105.0	5.3	0.71	481	1.3	14.9	78	0.003	0.0074	0.011
40386349		107.5	5.2	0.71	249	1.7	14.6	71	0.002	0.0078	0.014
40386350		103.5	5.0	0.65	238	1.6	14.0	68	0.002	0.0077	0.015
40386351		110.5	4.5	0.64	530	1.3	15.1	81	0.003	0.0123	0.017
40386352		123.0	7.5	0.64	473	2.8	15.3	90	0.005	0.0125	0.024
40386353		119.5	10.4	0.63	475	4.2	14.3	112	0.006	0.0223	0.041
40386354		152.0	8.3	0.58	483	2.6	14.0	86	0.003	0.0080	0.013
40386355		99.3	6.9	0.53	450	1.5	12.1	85	0.005	0.0355	0.058



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Project: EB80004240

**CERTIFICATE OF ANALYSIS TB18179588**

<b>CERTIFICATE COMMENTS</b>													
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada												
	<table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-22</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-22	WEI-21				
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-22	WEI-21										
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.												
	<table border="0"> <tr> <td>C-IR07</td> <td>ME-ICP06</td> <td>ME-MS42</td> <td>ME-MS61</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-MS24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-MS42	ME-MS61	ME-MS81	OA-GRA05	PGM-MS24	S-IR08	TOT-ICP06			
C-IR07	ME-ICP06	ME-MS42	ME-MS61										
ME-MS81	OA-GRA05	PGM-MS24	S-IR08										
TOT-ICP06													