ALS Canada Ltd.

2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 11-AUG-2018
Account: NAPEHZEU

CERTIFICATE TB18176729

Project: Gfields

P.O. No.: 178845

This report is for 40 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 23-JUL-2018.

The following have access to data associated with this certificate:

DAVID BENSON DAVE PECK	LIONNEL DJON KATHRYN STINSON	JILL MAXWELL LDIM WEBTRIEVE

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
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
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Se-MS46	Super Trace Se 25g AR by ICP-MS	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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CERTIFICATE OF ANALYSIS TB18176729

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.002	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
R982351		1.99	20.1	0.52	0.17	25.0	20.5	0.19	0.23	<0.002	0.01	0.05	<0.01	0.01	0.05	31.6
R982352		0.17	46.7	12.60	20.5	6.11	6.69	2.14	0.63	0.034	1.25	0.19	0.16	0.03	0.02	1.21
R982353		2.05	50.0	16.85	8.57	8.54	8.43	2.46	1.76	0.079	0.36	0.13	0.06	0.04	0.04	2.46
R982354		2.05	47.8	15.20	9.84	7.62	9.14	1.74	1.12	0.088	0.38	0.15	0.06	0.03	0.03	6.33
R982355		3.02	50.0	18.70	8.25	7.76	6.36	2.76	1.50	0.016	0.33	0.11	0.10	0.05	0.04	2.31
R982356		2.56	52.3	11.85	15.05	4.95	10.30	1.64	1.09	0.034	0.62	0.23	0.08	0.02	0.03	2.70
R982357		0.68	44.0	17.25	14.00	7.38	10.10	1.20	1.54	0.033	0.39	0.18	0.03	0.05	0.04	3.68
R982358		3.69	45.1	19.75	13.65	5.38	3.37	3.63	1.87	0.007	0.85	0.10	0.12	0.07	0.07	4.50
R982359		2.35	45.5	20.1	13.95	8.99	2.80	3.52	0.55	0.006	0.62	0.13	0.09	0.06	0.02	2.18
R982360		1.89	45.9	19.75	12.45	9.48	2.67	3.52	0.72	0.006	0.44	0.13	0.08	0.05	0.03	2.33
R982361		2.89	44.6	12.00	20.6	5.08	9.44	1.50	0.50	0.083	0.93	0.29	0.15	0.03	0.02	3.79
R982362		1.83	46.0	12.65	18.95	6.91	8.69	2.23	0.43	0.071	1.05	0.27	0.23	0.05	0.02	2.15
R982363		1.98	52.4	17.10	9.20	8.67	5.76	2.35	1.64	0.019	0.53	0.17	0.20	0.05	0.06	1.53
R982364		1.83	45.7	20.5	10.75	8.68	6.34	2.26	1.80	0.043	0.47	0.13	0.08	0.07	0.04	2.74
R982365		1.14	36.9	18.15	25.1	9.19	3.28	2.02	0.66	0.004	1.85	0.12	0.05	0.05	0.02	0.96
R982366		0.18	46.2	12.65	20.7	6.27	6.74	2.18	0.61	0.032	1.23	0.18	0.15	0.03	0.02	1.19
R982367		3.65	44.3	17.40	12.80	11.25	6.32	1.88	0.75	0.061	0.44	0.11	0.03	0.04	0.02	2.76
R982368		2.46	46.9	16.55	9.97	11.80	7.79	1.55	1.20	0.035	0.31	0.13	0.02	0.04	0.03	2.29
R982369		1.38	48.5	16.65	10.15	11.95	7.56	2.08	0.26	0.022	0.32	0.14	0.05	0.04	0.01	0.87
R982370		1.53	50.6	11.65	9.85	9.16	13.15	1.43	0.70	0.140	0.28	0.17	0.05	0.03	0.02	2.32
R982371		1.23	47.6	20.00	8.42	9.96	6.49	2.57	1.06	0.028	0.25	0.10	0.04	0.06	0.03	2.19
R982372		1.44	48.7	17.75	9.87	10.45	8.20	2.16	1.15	0.038	0.24	0.13	0.03	0.05	0.02	2.11
R982373		0.76	49.8	16.25	9.64	11.95	7.99	2.38	0.38	0.016	0.40	0.14	0.07	0.04	0.01	1.16
R982374		2.52	49.8	18.45	14.00	7.72	2.64	4.12	0.51	0.002	1.16	0.26	0.44	0.10	0.04	0.25
R982375		1.22	50.8	18.80	11.35	7.69	2.85	4.34	0.81	0.005	1.11	0.23	0.25	0.09	0.04	0.87
R982376		1.82	48.1	18.75	14.45	7.47	2.37	4.23	0.70	<0.002	1.44	0.24	0.53	0.08	0.03	0.80
R982377		1.67	44.3	19.60	14.65	9.82	3.85	3.04	0.45	0.003	1.45	0.15	0.98	0.09	0.02	0.59
R982378		2.18	43.9	15.95	17.30	8.95	7.11	2.10	1.55	0.028	1.40	0.19	0.06	0.03	0.03	1.96
R982379		2.19	18.75	0.17	0.22	28.2	20.5	0.08	0.02	<0.002	0.01	0.05	0.02	0.02	0.04	32.3
R982380		1.94	47.6	15.15	11.35	7.36	9.72	3.00	0.67	0.028	0.63	0.19	0.02	0.06	0.01	3.16
R982381		1.29	49.5	5.95	11.55	13.95	14.75	0.30	0.14	0.105	0.51	0.23	0.05	0.03	<0.01	1.72
R982382		2.10	50.9	4.21	11.55	11.90	17.65	0.47	0.13	0.114	0.33	0.24	0.03	0.01	<0.01	2.07
R982383		1.91	48.1	4.50	12.65	10.65	17.70	0.30	0.06	0.148	0.30	0.24	0.02	<0.01	<0.01	3.56
R982384		1.40	49.2	4.55	10.60	15.55	15.75	0.55	0.16	0.109	0.38	0.20	0.04	0.01	<0.01	1.36
R982385		2.00	50.9	8.17	9.95	14.40	14.50	0.97	0.55	0.089	0.31	0.21	0.01	0.02	0.01	1.90
R982386		2.57	50.1	5.00	10.10	15.15	16.00	0.61	0.37	0.104	0.33	0.20	0.04	0.01	0.01	1.03
R982387		2.10	47.1	9.09	10.45	13.30	12.60	0.99	0.39	0.076	0.42	0.21	0.03	0.03	0.01	1.97
R982388		1.65	49.0	11.20	10.60	11.95	10.50	1.69	0.89	0.051	0.53	0.18	0.07	0.03	0.03	1.53
R982389		0.18	46.5	12.70	20.8	6.32	6.78	2.18	0.61	0.033	1.23	0.19	0.17	0.03	0.02	1.22
R982390		1.87	54.8	17.10	11.35	6.11	4.31	3.11	1.10	0.016	0.82	0.14	0.28	0.05	0.04	1.46

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THUNDER BAY ON P7B 2R2

Finalized Date: 11-AUG-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18176729

Sample Description	Method / Analyte / Units / LOD	TOT-ICP06 Total % 0.01	C-IR07 C % 0.01	S-IR08 S % 0.01	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.1	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Ge ppm 5	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01
R982351		98.43	8.65	0.01	481	1.4	<10	0.60	0.09	0.06	0.03	0.6	0.06	<5	<0.2	0.01
R982352		98.26	0.08	1.66	213	27.5	250	1.01	2.40	1.30	1.05	15.8	2.97	<5	2.2	0.49
R982353		99.78	0.06	0.03	352	17.1	580	1.40	1.48	0.84	0.65	15.9	1.69	<5	1.4	0.30
R982354		99.53	0.82	0.01	273	15.6	640	3.34	1.39	0.79	0.62	14.6	1.66	<5	1.1	0.32
R982355		98.29	0.08	0.06	379	21.9	120	1.23	1.49	0.69	0.84	17.0	1.76	<5	0.8	0.26
R982356		100.89	0.02	0.12	248	17.2	240	0.86	1.43	0.82	0.51	14.0	1.55	<5	1.6	0.30
R982357		99.87	0.04	0.12	319	11.3	230	2.03	0.73	0.36	0.50	15.9	0.71	<5	0.8	0.15
R982358		98.47	0.66	2.68	571	16.3	50	1.63	0.95	0.57	0.85	20.8	1.29	<5	0.7	0.21
R982359		98.52	0.06	2.30	166.0	12.7	40	2.76	1.31	0.76	0.78	22.2	1.69	<5	0.5	0.27
R982360		97.56	0.02	2.63	222	12.8	40	1.84	1.51	0.88	0.83	21.1	1.63	<5	1.0	0.31
R982361		99.01	0.35	1.54	168.5	24.0	570	4.45	3.21	1.77	1.00	16.3	3.52	<5	1.3	0.63
R982362		99.70	0.01	1.05	177.5	27.3	510	0.85	3.37	2.00	1.07	19.1	3.86	<5	1.0	0.69
R982363		99.68	0.03	0.02	508	28.6	140	2.27	2.10	1.18	0.72	16.4	2.33	<5	1.9	0.44
R982364		99.60	0.02	0.04	399	21.6	330	2.59	1.23	0.82	0.66	19.0	1.86	<5	1.2	0.27
R982365		98.35	0.04	0.44	166.5	9.4	30	1.51	0.86	0.48	0.48	29.1	1.10	<5	0.8	0.17
R982366		98.18	0.07	1.77	215	27.1	240	1.00	2.67	1.39	1.14	16.3	2.90	<5	2.3	0.50
R982367		98.16	<0.01	2.71	160.0	8.3	450	9.43	1.05	0.69	0.58	16.1	1.13	<5	0.4	0.21
R982368		98.62	0.02	0.97	295	5.5	250	7.59	1.17	0.67	0.51	16.6	1.14	<5	0.3	0.23
R982369		98.60	0.07	0.07	85.7	8.7	160	1.34	1.13	0.67	0.45	15.5	1.22	<5	0.8	0.22
R982370		99.55	<0.01	<0.01	206	7.6	1020	3.83	1.05	0.77	0.42	11.8	1.21	<5	0.7	0.22
R982371		98.80	<0.01	0.26	233	9.2	200	9.40	0.71	0.35	0.51	17.1	0.67	<5	0.4	0.13
R982372		100.90	0.01	0.15	165.5	6.8	280	11.70	0.93	0.53	0.45	15.0	0.92	<5	0.4	0.18
R982373		100.23	0.01	<0.01	122.5	11.7	120	2.05	1.38	0.88	0.54	16.2	1.65	<5	0.9	0.30
R982374		99.49	<0.01	0.03	296	36.0	10	0.46	2.46	1.25	2.57	21.5	3.77	<5	0.7	0.51
R982375		99.24	0.03	0.06	324	23.0	40	1.15	2.08	1.03	2.48	21.5	2.80	<5	0.4	0.40
R982376		99.19	0.03	0.05	292	30.7	10	1.83	2.24	1.06	2.67	23.1	3.51	<5	0.4	0.42
R982377		98.99	0.01	0.07	162.0	30.3	20	0.88	2.34	1.01	1.70	21.6	3.60	<5	0.3	0.44
R982378		100.56	0.02	0.22	317	13.1	210	1.71	1.61	0.88	0.72	21.8	1.73	<5	0.8	0.29
R982379		100.38	8.77	<0.01	367	3.2	<10	0.42	0.11	0.07	0.03	0.5	0.11	<5	<0.2	0.02
R982380		98.95	0.01	0.11	115.5	4.8	200	0.39	0.97	0.62	0.42	13.6	1.05	<5	0.5	0.19
R982381		98.79	0.03	<0.01	13.6	11.8	690	0.05	2.30	1.37	0.64	9.6	2.64	<5	1.0	0.45
R982382		99.60	0.01	0.09	29.3	7.0	820	0.07	1.50	0.93	0.45	9.7	1.64	<5	0.8	0.34
R982383		98.23	<0.01	2.04	7.6	4.7	960	0.08	1.32	0.75	0.33	7.3	1.28	<5	0.6	0.29
R982384		98.46	0.04	0.07	31.8	7.7	780	0.90	2.03	1.18	0.53	7.7	2.09	<5	0.8	0.44
R982385		101.99	0.06	0.02	111.5	6.8	650	0.85	1.70	1.03	0.51	9.7	1.87	<5	0.6	0.38
R982386		99.05	0.09	0.03	99.2	7.1	750	0.45	1.76	1.17	0.48	8.0	1.96	<5	0.8	0.39
R982387		96.67	0.09	0.07	80.5	8.6	520	0.68	1.92	1.06	0.60	10.6	2.27	<5	0.7	0.40
R982388		98.25	0.04	0.05	240	11.8	370	0.93	1.82	1.14	0.63	12.9	2.05	<5	0.9	0.40
R982389		98.78	0.08	1.66	220	26.6	240	0.95	2.48	1.36	1.05	16.6	2.75	<5	2.4	0.50
R982390		100.69	0.08	0.14	313	38.8	100	2.16	3.59	2.20	1.08	20.8	4.20	<5	1.6	0.75

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Sample Description	Method / Analyte / Units / LOD	ME-MS81 La ppm 0.1	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5
R982351		1.0	0.01	1.0	0.5	0.12	3.4	0.12	<1	127.5	<0.1	0.01	0.15	<0.01	0.45	5
R982352		12.5	0.20	7.2	13.9	3.43	16.6	3.07	4	263	0.4	0.41	1.63	0.17	0.47	121
R982353		7.9	0.11	2.1	8.6	2.12	67.3	1.82	1	336	0.1	0.26	1.44	0.12	0.49	125
R982354		8.0	0.13	1.6	8.4	1.95	40.4	1.85	1	292	0.1	0.28	1.10	0.12	0.30	141
R982355		11.4	0.10	1.9	10.2	2.63	49.2	2.20	1	426	0.1	0.24	1.95	0.10	0.66	106
R982356		7.5	0.18	2.3	8.3	2.18	40.6	1.69	1	194.5	0.1	0.28	2.03	0.15	0.56	233
R982357		5.9	0.06	0.9	4.9	1.25	70.2	1.13	1	481	<0.1	0.11	0.48	0.06	0.21	188
R982358		8.3	0.06	1.6	7.6	1.89	53.3	1.60	1	540	0.1	0.19	0.42	0.08	0.12	285
R982359		6.1	0.12	1.2	7.0	1.65	14.5	1.57	1	469	0.1	0.23	0.18	0.12	0.11	214
R982360		6.1	0.13	1.1	7.1	1.68	20.8	1.48	1	427	0.1	0.24	0.34	0.12	0.20	174
R982361		9.3	0.26	3.7	17.0	3.62	12.5	4.01	1	223	0.1	0.51	0.16	0.24	0.08	264
R982362		11.9	0.27	2.6	16.9	3.76	11.2	3.80	1	385	0.1	0.53	0.27	0.28	0.10	335
R982363		13.8	0.18	4.5	15.1	3.49	52.5	2.76	1	366	0.3	0.35	2.65	0.15	0.89	136
R982364		10.4	0.07	2.3	11.7	2.61	77.4	2.04	1	597	0.1	0.28	2.03	0.09	0.56	277
R982365		4.4	0.07	1.8	4.7	1.17	25.7	0.94	1	457	0.1	0.14	0.61	0.07	0.16	1470
R982366		12.4	0.20	7.3	13.3	3.33	16.8	2.80	4	270	0.4	0.45	1.58	0.19	0.47	122
R982367		3.9	0.09	0.9	4.8	1.10	36.2	1.20	1	375	0.1	0.18	0.63	0.09	0.07	164
R982368		2.6	0.08	0.2	3.8	0.81	54.6	0.98	1	395	<0.1	0.20	0.11	0.09	0.20	175
R982369		3.8	0.10	1.4	5.2	1.17	6.0	1.12	1	365	0.1	0.20	0.79	0.10	0.18	220
R982370		3.6	0.11	1.0	4.9	1.11	27.5	1.19	<1	272	0.1	0.17	0.53	0.10	0.13	175
R982371		4.5	0.06	0.9	4.1	1.09	49.7	0.82	1	482	0.1	0.10	0.64	0.06	0.14	101
R982372		3.0	0.07	0.6	3.8	0.90	70.2	0.96	1	439	<0.1	0.14	0.34	0.08	0.10	139
R982373		5.2	0.12	1.3	6.7	1.53	12.7	1.69	<1	362	0.1	0.24	0.84	0.12	0.20	278
R982374		15.4	0.14	4.3	20.3	4.79	7.9	4.33	<1	722	0.3	0.47	0.40	0.18	0.19	54
R982375		10.8	0.14	2.7	13.6	3.13	18.1	3.05	<1	654	0.2	0.34	0.43	0.14	0.16	157
R982376		13.3	0.10	2.1	19.8	4.13	17.1	4.14	<1	694	0.2	0.43	0.83	0.12	0.26	25
R982377		12.9	0.10	1.2	18.8	4.22	8.9	3.91	<1	748	0.1	0.40	0.47	0.12	0.16	168
R982378		5.9	0.14	1.6	7.8	1.74	54.2	1.95	1	284	0.1	0.25	0.50	0.12	0.16	717
R982379		2.9	0.02	0.6	0.9	0.26	1.4	0.07	<1	192.0	<0.1	0.01	0.12	0.02	0.34	<5
R982380		2.3	0.08	0.6	3.2	0.71	25.9	1.03	1	460	<0.1	0.17	0.25	0.07	0.07	425
R982381		4.4	0.17	1.0	8.5	1.80	0.9	2.42	1	166.5	0.1	0.40	0.56	0.19	0.15	326
R982382		2.6	0.11	1.0	5.2	1.13	0.9	1.56	1	66.1	0.1	0.29	0.43	0.13	0.30	232
R982383		1.6	0.11	0.5	3.9	0.80	0.3	1.18	<1	19.2	<0.1	0.20	0.24	0.13	0.05	203
R982384		2.8	0.14	0.6	6.4	1.31	4.3	2.10	1	49.4	<0.1	0.33	0.31	0.18	0.08	312
R982385		2.7	0.14	0.5	5.5	1.12	20.7	1.61	1	162.0	<0.1	0.31	0.24	0.17	0.06	286
R982386		2.8	0.14	0.7	5.7	1.13	11.6	1.65	1	63.8	<0.1	0.32	0.34	0.14	0.08	298
R982387		3.8	0.14	0.6	6.5	1.41	13.7	1.90	1	254	<0.1	0.31	0.21	0.16	0.06	312
R982388		5.1	0.16	1.4	7.6	1.68	27.8	1.97	<1	257	0.1	0.31	0.55	0.15	0.18	316
R982389		12.5	0.17	7.3	14.3	3.25	16.5	3.12	4	272	0.4	0.42	1.48	0.18	0.46	127
R982390		17.6	0.25	4.3	22.0	5.02	34.0	4.52	1	418	0.3	0.69	1.89	0.27	0.87	269

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

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 11-AUG-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18176729

Sample Description	Method / Analyte / Units / LOD	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5
R982351		<1	0.6	0.05	5	1.1	0.03	0.008	<0.005	<0.001	0.10	0.4	0.01	0.06	<0.5	<0.5
R982352		3	13.3	1.30	87	4.0	0.77	0.012	0.070	0.006	0.34	5.2	0.54	0.10	2.1	0.9
R982353		1	7.9	0.79	56	0.7	0.02	<0.005	0.005	<0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
R982354		1	8.1	0.83	39	0.3	0.02	<0.005	0.019	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
R982355		<1	7.6	0.61	29	0.6	0.07	<0.005	0.007	<0.001	0.10	0.2	0.15	0.02	<0.5	<0.5
R982356		2	9.0	0.99	57	0.9	0.03	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
R982357		<1	3.7	0.45	25	0.6	0.01	<0.005	<0.005	<0.001	<0.05	0.3	0.01	0.03	<0.5	<0.5
R982358		1	5.6	0.46	31	0.4	1.13	0.008	0.075	0.003	<0.05	5.8	0.93	0.34	5.2	0.8
R982359		1	7.3	0.71	20	0.6	0.29	0.016	0.014	0.001	<0.05	5.4	0.85	0.22	2.7	<0.5
R982360		<1	8.2	0.79	40	0.7	0.40	<0.005	0.023	0.002	<0.05	6.1	1.19	0.19	4.4	0.9
R982361		<1	17.1	1.68	47	3.4	0.15	<0.005	0.032	0.002	0.07	1.6	0.10	0.10	0.6	<0.5
R982362		1	17.1	1.73	39	0.4	0.05	<0.005	0.014	0.001	<0.05	1.5	0.12	0.13	0.6	0.6
R982363		<1	12.6	1.27	84	0.4	0.02	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
R982364		1	7.7	0.67	44	0.6	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.05	<0.5	<0.5
R982365		1	4.7	0.42	25	0.4	0.02	<0.005	0.006	0.001	<0.05	0.5	0.01	0.03	<0.5	<0.5
R982366		3	13.1	1.12	96	4.3	1.01	0.009	0.067	0.005	0.39	5.1	0.83	0.10	1.9	0.9
R982367		1	5.7	0.57	12	0.2	2.56	0.006	0.023	0.001	<0.05	7.9	1.32	0.10	4.6	0.7
R982368		1	6.2	0.55	7	0.1	1.07	<0.005	0.012	0.002	<0.05	2.7	0.51	0.08	2.2	0.6
R982369		1	6.2	0.58	25	0.1	0.04	<0.005	0.009	<0.001	<0.05	0.5	0.07	0.02	<0.5	<0.5
R982370		<1	6.4	0.68	25	<0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
R982371		1	3.7	0.40	17	<0.1	0.36	<0.005	0.007	0.001	<0.05	0.9	0.28	0.06	0.6	<0.5
R982372		4	4.9	0.51	13	<0.1	0.58	<0.005	0.005	<0.001	<0.05	0.4	0.16	0.05	<0.5	<0.5
R982373		1	8.0	0.87	30	<0.1	0.03	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
R982374		<1	12.7	0.99	19	0.2	0.01	<0.005	0.016	<0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
R982375		1	10.3	0.93	15	0.3	0.02	<0.005	0.017	<0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
R982376		1	10.9	0.72	15	0.7	0.03	<0.005	0.011	<0.001	0.07	<0.2	0.01	0.02	<0.5	<0.5
R982377		<1	10.9	0.70	9	0.2	0.02	<0.005	0.008	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
R982378		1	8.3	0.76	26	0.2	0.05	<0.005	0.014	<0.001	<0.05	0.3	0.01	0.02	<0.5	<0.5
R982379		1	0.9	0.12	<2	0.5	0.03	<0.005	<0.005	<0.001	0.08	0.4	<0.01	0.04	<0.5	<0.5
R982380		1	5.2	0.50	15	0.1	0.06	<0.005	0.007	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
R982381		1	11.9	1.18	33	0.1	0.04	<0.005	0.006	<0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
R982382		1	8.8	0.88	22	0.1	0.30	<0.005	0.006	<0.001	<0.05	<0.2	0.14	<0.02	<0.5	<0.5
R982383		1	7.5	0.74	16	1.4	0.47	<0.005	<0.005	0.010	<0.05	3.9	0.13	<0.02	0.5	<0.5
R982384		2	11.0	1.09	22	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
R982385		1	9.5	1.04	17	0.1	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
R982386		1	9.7	0.91	20	0.1	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
R982387		1	10.3	0.97	18	0.2	0.06	<0.005	0.008	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
R982388		1	10.0	1.10	29	0.2	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
R982389		3	13.8	1.29	108	3.9	0.79	0.008	0.066	0.006	0.30	5.5	0.57	0.09	1.9	0.8
R982390		<1	20.6	2.09	75	0.8	0.03	<0.005	0.017	<0.001	<0.05	0.3	0.02	0.09	<0.5	<0.5

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

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 11-AUG-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18176729

Sample Description	Method / Analyte / Units / LOD	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Se-MS46 Se ppm 0.003
R982351		<1	1	40	<1	<1	3	<1	53	<0.001	<0.005	<0.001	0.005
R982352		111	4440	20	4	4230	25	12	101	0.080	0.293	0.577	4.38
R982353		47	41	20	<1	219	<2	17	64	<0.001	<0.005	0.012	0.045
R982354		50	38	50	<1	237	3	20	74	0.002	<0.005	0.009	0.033
R982355		51	114	20	<1	352	11	10	66	0.022	0.095	0.543	0.180
R982356		92	88	20	1	204	2	17	112	<0.001	<0.005	0.003	0.118
R982357		88	109	30	<1	203	<2	7	94	<0.001	<0.005	0.001	0.156
R982358		134	5160	20	1	1615	7	14	96	0.158	0.364	2.14	5.18
R982359		129	4460	10	<1	1825	7	18	63	0.187	0.297	1.375	5.06
R982360		124	6350	20	<1	1540	12	15	81	0.340	0.314	1.040	5.48
R982361		82	983	10	1	245	5	24	165	0.021	0.005	0.023	1.275
R982362		97	876	10	1	246	7	33	158	0.033	0.007	0.008	1.255
R982363		33	15	30	<1	56	<2	18	84	0.007	<0.005	0.003	0.016
R982364		54	91	30	<1	133	6	5	70	<0.001	<0.005	<0.001	0.084
R982365		96	433	20	<1	68	3	19	94	0.001	<0.005	0.004	0.332
R982366		110	4370	20	5	4150	23	12	99	0.076	0.293	0.579	4.15
R982367		110	6890	10	<1	1830	3	23	76	0.112	0.314	3.00	6.81
R982368		67	3460	10	<1	732	<2	30	63	0.076	0.078	0.618	2.40
R982369		64	216	10	<1	245	4	29	56	0.008	0.022	0.013	0.371
R982370		50	22	20	<1	244	<2	30	74	<0.001	0.008	0.022	0.007
R982371		38	1170	20	<1	292	3	10	54	0.024	0.036	0.464	0.770
R982372		39	727	20	1	232	2	24	52	0.003	0.026	0.266	0.200
R982373		49	13	10	<1	131	<2	36	63	<0.001	<0.005	0.001	0.011
R982374		19	23	20	1	5	5	24	130	0.002	<0.005	0.001	0.037
R982375		20	43	10	<1	39	6	24	147	<0.001	<0.005	<0.001	0.076
R982376		18	21	20	1	5	4	18	147	<0.001	<0.005	0.001	0.036
R982377		39	38	20	<1	23	4	11	99	<0.001	<0.005	<0.001	0.086
R982378		64	103	30	<1	58	3	29	116	<0.001	<0.005	<0.001	0.193
R982379		<1	1	30	<1	<1	<2	<1	23	<0.001	<0.005	<0.001	0.003
R982380		64	41	40	<1	91	2	29	98	<0.001	<0.005	<0.001	0.075
R982381		58	6	10	<1	205	5	64	81	<0.001	0.013	0.011	0.006
R982382		64	61	10	<1	332	<2	53	125	<0.001	0.148	0.234	0.064
R982383		97	555	10	<1	1885	35	52	104	<0.001	0.070	0.158	3.17
R982384		57	55	10	<1	245	2	68	57	0.005	0.061	0.098	0.525
R982385		51	39	30	<1	209	2	59	73	0.006	0.061	0.090	0.044
R982386		56	39	10	<1	244	<2	67	56	0.018	0.053	0.101	0.040
R982387		53	77	20	<1	187	<2	55	66	0.002	0.057	0.069	0.087
R982388		49	74	20	<1	151	<2	48	66	0.008	0.032	0.043	0.103
R982389		112	4340	20	4	4190	23	12	99	0.073	0.294	0.605	4.01
R982390		36	50	20	1	57	3	18	102	<0.001	<0.005	0.003	0.135

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 11-AUG-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18176729

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	C-IR07	ME-4ACD81	ME-ICP06	ME-MS42
	ME-MS81	OA-GRA05	PGM-ICP23	Se-MS46
	S-IR08	TOT-ICP06		