ALS Canada Ltd.

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North Vancouver BC V7H 0A7
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www.alsglobal.com/geochemistry

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

Finalized Date: 16-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18042513

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-FEB-2018.

The following have access to data associated with this certificate:

DAVID BENSON	LIONNEL DJON	JILL MAXWELL
DAVE PECK	KELSEY PRIVETT	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	ICP-AES
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

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
ATTN: DAVID BENSON
556 TENTH AVE.
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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 TB18042513

Sample Description	Method / Analyte / Units / LOR	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 % 0.01	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
W870717		0.04	63.7	16.50	5.99	6.19	2.74	3.34	1.50	<0.01	0.50	0.13	0.15	0.06	0.07	0.88
W870718		0.08	41.6	8.94	15.60	15.80	11.25	0.61	0.23	0.11	0.72	0.15	0.12	<0.01	0.03	3.78
W870719		1.81	51.9	27.2	2.07	10.95	0.73	4.55	0.58	<0.01	0.18	0.03	0.03	0.07	0.02	1.57
W870720		1.82	52.0	26.4	2.07	10.35	0.76	4.47	0.99	<0.01	0.20	0.03	0.08	0.07	0.03	1.54
W870721		3.69	49.7	13.75	9.43	8.94	12.75	1.30	1.51	0.16	0.20	0.17	0.02	0.03	0.03	2.64
W870722		2.50	49.3	10.25	10.40	10.75	14.70	0.78	0.80	0.22	0.23	0.18	0.02	0.02	0.02	2.63
W870723		2.70	48.5	8.16	11.55	11.10	16.95	0.46	0.36	0.25	0.23	0.20	0.01	0.01	0.01	2.72
W870724		2.70	47.9	7.42	11.15	10.45	16.60	0.53	0.60	0.27	0.28	0.22	0.02	0.01	0.02	2.59
W870725		2.59	50.7	7.42	11.20	11.15	16.35	0.52	0.51	0.27	0.28	0.22	<0.01	0.01	0.02	2.42
W870726		2.49	47.4	7.28	12.15	11.25	18.05	0.36	0.13	0.26	0.22	0.20	<0.01	0.01	<0.01	3.09
W870727		2.58	47.4	7.21	11.35	11.00	17.05	0.40	0.18	0.25	0.23	0.19	0.01	0.01	0.01	2.75
W870728		2.50	47.2	7.50	12.75	10.90	17.90	0.48	0.10	0.25	0.21	0.19	0.01	0.01	<0.01	2.97
W870729		2.57	50.5	7.80	11.35	11.25	16.85	0.53	0.41	0.26	0.25	0.20	<0.01	0.01	0.01	2.54
W870730		2.72	50.2	8.21	10.65	10.85	15.35	0.68	0.70	0.24	0.26	0.21	<0.01	0.01	0.02	2.19
W870731		1.82	49.8	8.55	10.65	9.98	15.60	0.65	0.86	0.24	0.25	0.21	0.01	0.02	0.03	2.73
W870732		2.32	48.1	9.65	10.50	8.38	15.85	0.62	1.01	0.19	0.19	0.20	<0.01	0.02	0.04	3.55
W870733		1.88	49.2	22.6	4.55	9.46	5.37	2.19	3.14	0.09	0.17	0.08	0.03	0.06	0.07	2.99
W870734		1.55	50.3	25.7	3.71	10.40	3.15	2.75	2.89	0.02	0.17	0.07	0.04	0.07	0.06	2.58
W870735		2.08	49.3	11.30	9.84	9.42	13.75	0.99	1.15	0.22	0.20	0.19	0.01	0.03	0.03	2.93
W870736		2.51	49.5	14.15	8.65	8.35	11.95	1.30	1.75	0.17	0.19	0.16	0.02	0.03	0.05	3.17
W870737		0.09	48.1	12.40	21.2	6.35	6.75	2.15	0.65	0.03	1.24	0.19	0.15	0.03	0.02	1.20
W870738		2.07	49.1	11.20	11.45	7.30	15.60	0.82	1.30	0.15	0.19	0.20	0.03	0.01	0.03	3.74
W870739		2.43	49.7	25.2	4.41	11.10	3.45	2.41	2.21	0.03	0.14	0.07	0.04	0.07	0.04	2.45
W870740		2.50	45.1	25.7	6.91	11.65	1.44	2.05	2.81	0.01	0.11	0.05	0.02	0.07	0.05	3.71
W870741		2.48	46.5	23.8	6.96	11.95	2.97	1.93	2.58	0.05	0.15	0.07	0.03	0.05	0.04	3.56
W870742		2.61	49.4	12.85	9.63	10.60	12.55	1.25	1.24	0.22	0.25	0.18	0.01	0.03	0.02	2.57
W870743		2.48	49.5	7.28	11.25	11.10	15.65	0.66	0.52	0.26	0.31	0.21	0.03	0.01	0.02	2.17
W870744		2.49	48.9	6.98	12.00	11.50	16.95	0.56	0.24	0.27	0.26	0.21	0.02	<0.01	0.01	2.64
W870745		2.51	49.6	7.55	11.55	12.20	15.85	0.61	0.61	0.28	0.29	0.20	0.02	0.01	0.02	2.11
W870746		2.37	49.9	7.15	11.80	12.50	16.10	0.69	0.37	0.28	0.29	0.21	0.02	0.01	0.01	2.15
W870747		2.62	47.2	6.87	11.75	11.55	16.65	0.49	0.19	0.27	0.26	0.20	0.01	<0.01	<0.01	2.90
W870748		2.57	48.3	7.15	11.70	12.30	16.60	0.47	0.30	0.26	0.27	0.20	0.01	<0.01	0.01	2.86
W870749		2.31	49.1	8.60	11.15	11.40	14.60	0.91	0.75	0.22	0.37	0.19	0.06	0.02	0.03	2.44
W870750		2.61	47.4	7.14	11.75	12.20	16.90	0.55	0.22	0.28	0.28	0.20	0.02	<0.01	<0.01	3.10
W870751		2.41	48.0	8.68	11.85	10.45	16.95	1.09	0.22	0.25	0.35	0.20	0.05	<0.01	0.01	3.46
W870752		2.15	50.0	11.95	10.20	9.36	12.55	2.05	0.87	0.17	0.51	0.19	0.14	0.04	0.03	2.46
W870753		2.43	48.0	7.36	12.80	10.35	17.50	0.55	0.17	0.28	0.26	0.23	0.01	<0.01	<0.01	3.32
W870754		2.65	50.2	6.42	12.40	11.20	17.20	0.75	0.15	0.27	0.26	0.24	0.01	<0.01	<0.01	2.68
W870755		1.37	48.8	8.37	12.45	11.20	14.90	0.86	0.80	0.19	0.64	0.24	0.41	0.01	0.01	2.45
W870756		2.13	50.5	6.78	12.30	11.30	16.15	0.60	0.53	0.25	0.29	0.22	0.09	<0.01	0.01	2.65

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THUNDER BAY ON P7B 2R2

Finalized Date: 16-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042513

Sample Description	Method / Analyte / Units / LOR	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
W870717		101.75	0.03	0.03	577	29.9	20	0.74	3.91	2.58	0.93	16.1	4.04	<5	3.6	0.84
W870718		98.94	0.23	2.66	279	18.7	760	0.44	2.60	1.44	0.73	10.7	2.50	<5	2.0	0.51
W870719		99.88	0.03	0.06	154.5	7.5	20	3.60	0.45	0.25	0.56	21.6	0.60	<5	0.3	0.09
W870720		98.99	0.03	0.12	237	10.2	20	5.05	0.55	0.33	0.58	22.6	0.71	<5	0.3	0.09
W870721		100.63	0.02	0.05	205	5.1	1000	3.10	0.83	0.33	0.27	11.6	0.56	<5	0.2	0.17
W870722		100.30	0.04	0.02	203	7.2	1610	2.04	1.07	0.55	0.40	9.9	1.35	<5	0.4	0.27
W870723		100.51	0.05	0.02	81.4	4.7	1750	0.87	1.13	0.58	0.31	8.5	1.09	<5	0.4	0.23
W870724		98.06	0.02	0.02	179.0	5.1	1700	1.30	1.05	0.70	0.33	8.2	1.15	<5	0.4	0.22
W870725		101.07	0.04	0.02	158.5	5.5	1890	1.12	1.19	0.76	0.37	8.3	1.27	<5	0.5	0.28
W870726		100.40	0.09	0.03	28.8	4.2	1810	0.36	1.13	0.62	0.33	7.6	1.17	<5	0.4	0.21
W870727		98.04	0.05	0.04	46.6	4.3	1760	0.30	1.10	0.62	0.31	7.5	1.07	<5	0.3	0.20
W870728		100.47	0.10	0.05	11.9	3.7	1710	0.26	1.18	0.45	0.33	7.7	1.12	<5	0.3	0.22
W870729		101.96	0.04	0.02	123.5	4.9	1830	1.06	1.30	0.57	0.34	8.2	1.06	<5	0.4	0.25
W870730		99.57	0.02	<0.01	209	6.0	1700	1.44	1.16	0.63	0.37	8.6	1.20	<5	0.5	0.24
W870731		99.58	0.02	0.01	282	5.2	1620	2.30	1.01	0.65	0.33	8.6	1.06	<5	0.4	0.20
W870732		98.30	0.01	0.01	312	2.7	1280	2.10	0.60	0.47	0.25	8.8	0.60	<5	0.3	0.15
W870733		100.00	0.03	0.01	574	10.1	570	5.14	0.55	0.36	0.41	15.9	0.60	<5	0.6	0.12
W870734		101.91	0.04	0.01	461	9.9	130	4.83	0.49	0.27	0.42	17.1	0.51	<5	0.5	0.10
W870735		99.36	0.02	0.02	286	4.6	1550	1.33	0.88	0.47	0.39	10.1	0.70	<5	0.3	0.17
W870736		99.44	0.02	0.02	425	5.0	1210	2.49	0.60	0.41	0.29	12.2	0.75	<5	0.3	0.14
W870737		100.46	0.08	1.81	213	25.0	240	0.86	2.53	1.35	1.10	15.4	2.72	<5	2.2	0.50
W870738		101.12	0.01	0.09	242	3.9	1080	1.96	0.53	0.38	0.28	10.6	0.41	<5	0.2	0.14
W870739		101.32	0.02	0.23	362	6.9	180	4.06	0.32	0.14	0.47	18.7	0.54	<5	0.3	0.08
W870740		99.68	0.03	1.60	395	5.5	70	5.58	0.24	0.14	0.44	18.3	0.44	<5	0.2	0.05
W870741		100.64	0.02	1.04	378	5.9	320	5.62	0.41	0.29	0.44	18.1	0.49	<5	0.2	0.10
W870742		100.80	0.04	0.17	217	7.6	1500	2.73	1.19	0.63	0.45	12.1	1.13	<5	0.5	0.25
W870743		98.97	0.03	0.02	152.0	6.9	1880	1.11	1.51	0.84	0.43	8.7	1.56	<5	0.5	0.31
W870744		100.54	0.07	0.03	51.8	5.7	1940	0.16	1.27	0.72	0.41	8.0	1.30	<5	0.6	0.29
W870745		100.90	0.05	0.03	150.0	13.3	2000	0.52	1.65	0.99	0.49	8.6	1.58	<5	0.9	0.34
W870746		101.48	0.07	0.02	94.7	9.4	2050	0.42	1.74	1.04	0.47	9.0	1.61	<5	0.7	0.33
W870747		98.34	0.10	0.04	40.2	7.8	1950	0.21	1.49	0.83	0.43	8.5	1.59	<5	0.5	0.27
W870748		100.43	0.11	0.03	78.1	6.5	1830	0.41	1.20	0.73	0.37	8.5	1.37	<5	0.7	0.25
W870749		99.84	0.09	0.05	263	16.8	1600	1.02	1.66	1.04	0.69	10.0	2.14	<5	1.1	0.30
W870750		100.04	0.15	0.05	41.1	6.5	1970	0.28	1.54	0.80	0.38	8.4	1.43	<5	0.6	0.30
W870751		101.56	0.04	0.04	45.9	13.3	1810	0.41	1.61	0.92	0.60	10.2	1.76	<5	0.8	0.36
W870752		100.52	0.02	0.03	261	34.9	1180	0.97	2.26	1.10	0.96	12.4	3.34	<5	2.0	0.43
W870753		100.83	0.02	0.09	24.8	13.2	1950	0.22	1.35	0.67	0.56	9.7	1.65	<5	0.5	0.29
W870754		101.78	0.02	0.07	41.2	15.4	1960	0.62	1.49	0.78	0.71	9.8	1.89	<5	0.6	0.31
W870755		101.33	0.02	0.10	131.0	90.6	1410	0.22	4.39	1.80	2.54	13.3	8.15	<5	3.3	0.74
W870756		101.67	0.04	0.11	125.0	16.9	1760	0.18	1.48	0.88	0.67	9.7	1.95	<5	0.7	0.29

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Sample Description	Method / Analyte / Units / LOR	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
W870717		13.5	0.42	3.3	17.0	3.99	27.5	3.91	2	513	0.2	0.61	2.81	0.36	1.14	154
W870718		9.0	0.21	6.2	10.6	2.35	4.8	2.70	2	65.1	0.3	0.41	1.86	0.21	0.92	185
W870719		3.9	0.03	0.5	3.4	0.88	18.1	0.59	<1	617	<0.1	0.09	0.35	0.04	0.11	40
W870720		5.4	0.04	0.8	4.8	1.15	32.3	0.86	<1	617	0.1	0.12	0.47	0.05	0.13	39
W870721		2.5	0.09	1.0	2.9	0.70	45.0	0.74	4	258	<0.1	0.10	0.29	0.05	0.07	132
W870722		3.1	0.08	1.8	4.8	1.02	25.5	1.12	<1	165.5	<0.1	0.20	0.30	0.12	0.10	176
W870723		1.8	0.11	0.6	3.3	0.75	10.9	1.04	<1	91.4	<0.1	0.20	0.15	0.07	<0.05	185
W870724		2.0	0.11	0.7	3.8	0.82	17.3	0.97	<1	86.7	<0.1	0.17	0.19	0.09	0.05	186
W870725		2.1	0.11	0.5	4.3	0.85	15.4	1.19	<1	87.9	<0.1	0.21	0.21	0.11	0.07	204
W870726		1.7	0.09	0.2	3.5	0.67	2.5	1.06	<1	65.2	<0.1	0.18	0.07	0.12	<0.05	191
W870727		1.6	0.08	0.3	3.7	0.65	3.7	0.91	<1	59.7	<0.1	0.17	0.13	0.10	<0.05	185
W870728		1.5	0.09	0.2	3.1	0.56	1.0	0.91	<1	53.4	<0.1	0.16	0.09	0.08	<0.05	175
W870729		1.9	0.11	0.4	3.6	0.73	11.7	1.03	<1	84.3	<0.1	0.15	0.12	0.09	0.05	191
W870730		2.5	0.10	0.5	4.2	0.92	20.7	1.04	<1	108.5	<0.1	0.19	0.24	0.10	<0.05	191
W870731		2.2	0.11	0.4	3.5	0.70	27.3	1.03	<1	137.5	<0.1	0.18	0.24	0.08	0.08	180
W870732		1.2	0.08	0.2	1.8	0.39	31.3	0.45	<1	161.0	<0.1	0.12	0.14	0.06	0.25	148
W870733		5.4	0.02	0.9	4.1	1.17	99.2	0.91	<1	505	<0.1	0.09	1.12	0.06	0.33	66
W870734		5.1	0.02	0.9	4.3	1.14	83.3	0.86	<1	579	0.1	0.08	1.55	0.04	0.28	49
W870735		2.0	0.07	0.5	2.9	0.63	35.9	0.75	<1	209	<0.1	0.13	0.22	0.10	0.07	146
W870736		2.8	0.05	0.6	3.0	0.67	62.6	0.70	<1	308	<0.1	0.10	0.29	0.09	0.07	149
W870737		11.4	0.18	6.7	13.1	3.15	16.3	2.92	4	256	0.3	0.45	1.40	0.21	0.50	126
W870738		1.9	0.08	0.4	1.9	0.47	44.0	0.57	<1	173.0	<0.1	0.06	0.22	0.06	0.08	138
W870739		3.7	0.03	0.6	2.8	0.74	70.7	0.43	<1	638	<0.1	0.08	0.37	0.03	0.14	48
W870740		3.1	0.04	0.3	2.3	0.57	99.7	0.42	<1	601	<0.1	0.07	0.18	0.01	0.05	37
W870741		3.1	0.05	0.4	2.7	0.70	101.0	0.59	1	517	<0.1	0.05	0.26	0.05	0.06	66
W870742		3.5	0.10	0.7	4.3	0.99	42.0	1.19	3	235	<0.1	0.20	0.65	0.11	0.17	162
W870743		2.7	0.12	0.5	5.3	0.98	15.1	1.25	<1	105.5	<0.1	0.24	0.21	0.13	0.10	209
W870744		2.3	0.11	0.2	4.5	0.88	4.0	1.23	<1	64.8	<0.1	0.19	0.13	0.13	0.10	194
W870745		6.1	0.14	1.0	7.5	1.66	17.2	1.88	<1	145.5	<0.1	0.26	2.30	0.14	0.30	209
W870746		4.2	0.14	0.8	5.7	1.35	8.6	1.53	<1	128.5	<0.1	0.26	0.88	0.11	0.17	213
W870747		3.3	0.13	0.4	5.4	1.12	3.3	1.34	<1	61.0	<0.1	0.22	0.27	0.11	0.08	192
W870748		2.8	0.11	0.4	4.7	0.92	7.2	1.38	<1	86.5	<0.1	0.20	0.25	0.13	0.07	195
W870749		7.5	0.16	1.0	9.6	2.20	17.2	2.43	<1	209	<0.1	0.33	1.09	0.13	0.27	184
W870750		2.8	0.13	0.4	5.0	1.03	4.4	1.34	<1	73.1	<0.1	0.22	0.29	0.08	0.08	201
W870751		6.7	0.15	1.1	7.6	1.71	3.9	1.93	1	74.8	<0.1	0.25	0.84	0.13	0.33	190
W870752		16.4	0.19	2.8	17.6	4.42	24.6	3.86	2	402	0.2	0.42	2.43	0.15	0.93	200
W870753		6.9	0.11	0.3	7.7	1.72	2.4	1.89	<1	59.9	<0.1	0.23	0.22	0.12	0.20	197
W870754		8.0	0.12	0.4	9.4	2.15	1.3	2.29	1	61.7	<0.1	0.29	0.26	0.11	0.27	200
W870755		37.0	0.24	7.0	54.4	12.15	14.2	10.90	1	144.0	0.3	0.96	3.89	0.23	0.93	230
W870756		8.8	0.12	0.9	9.7	2.12	10.0	1.89	<1	73.7	<0.1	0.23	0.61	0.11	0.30	199

***** 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: 16-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042513

Sample Description	Method / Analyte / Units / LOR	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
W870717		5	23.4	2.60	132	1.0	0.05	<0.005	0.009	0.001	0.12	<0.2	0.02	0.04	<0.5	<0.5
W870718		1	14.1	1.29	72	44.4	0.33	0.109	0.049	0.017	1.20	11.7	1.21	0.06	2.7	1.2
W870719		2	2.4	0.24	9	<0.1	0.05	<0.005	<0.005	<0.001	<0.05	<0.2	0.10	<0.02	<0.5	<0.5
W870720		3	3.0	0.26	12	0.5	0.12	<0.005	<0.005	<0.001	<0.05	0.2	0.09	0.02	<0.5	<0.5
W870721		<1	3.7	0.64	8	0.9	0.06	<0.005	<0.005	<0.001	<0.05	0.2	0.06	0.05	<0.5	<0.5
W870722		<1	5.8	0.71	11	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870723		<1	5.8	0.49	9	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870724		<1	5.9	0.71	12	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870725		1	6.8	0.66	14	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870726		<1	5.9	0.45	9	0.5	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870727		<1	5.8	0.58	10	0.3	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870728		<1	5.4	0.46	8	0.4	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870729		<1	6.0	0.49	11	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870730		5	6.2	0.61	12	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870731		9	5.9	0.66	11	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870732		<1	3.4	0.45	8	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.04	<0.02	<0.5	<0.5
W870733		<1	3.0	0.24	15	<0.1	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.05	0.03	<0.5	<0.5
W870734		<1	2.7	0.29	15	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.03	<0.5	<0.5
W870735		<1	4.6	0.52	9	0.2	0.13	<0.005	<0.005	<0.001	0.05	<0.2	0.16	<0.02	<0.5	<0.5
W870736		<1	3.7	0.40	10	0.4	0.04	0.011	<0.005	0.001	<0.05	<0.2	0.03	0.03	<0.5	<0.5
W870737		1	13.0	1.27	93	4.2	0.68	0.020	0.068	0.004	0.35	5.6	0.53	0.10	2.4	0.9
W870738		20	3.0	0.42	10	4.3	0.17	0.009	<0.005	0.002	0.06	0.7	0.12	0.03	<0.5	<0.5
W870739		1	2.0	0.24	12	0.2	0.20	0.009	<0.005	0.001	0.08	1.1	0.40	0.32	0.8	<0.5
W870740		1	1.3	0.19	5	0.2	0.34	0.008	0.008	0.002	<0.05	8.8	1.27	2.04	3.4	<0.5
W870741		<1	2.3	0.29	7	0.4	0.41	0.007	0.009	0.002	<0.05	5.7	1.38	1.57	3.7	0.5
W870742		2	6.1	0.71	16	<0.1	0.21	0.006	<0.005	0.001	0.07	0.9	0.33	0.14	0.5	<0.5
W870743		<1	7.3	0.87	17	0.1	0.01	0.006	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870744		<1	6.8	0.68	12	0.3	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
W870745		<1	8.7	0.94	20	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
W870746		<1	8.4	0.88	21	<0.1	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870747		<1	7.5	0.61	14	0.3	0.02	0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870748		<1	6.9	0.60	15	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870749		22	8.7	0.98	37	0.1	0.04	<0.005	0.005	<0.001	<0.05	0.2	0.01	0.03	<0.5	0.6
W870750		1	7.1	0.82	15	0.2	0.05	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870751		21	8.3	0.82	31	0.2	0.04	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870752		3	11.3	1.19	70	0.3	0.04	<0.005	0.007	0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
W870753		<1	6.7	0.86	13	3.1	0.07	<0.005	0.005	<0.001	<0.05	<0.2	0.02	<0.02	0.5	<0.5
W870754		<1	7.1	0.82	14	1.0	0.05	0.005	0.007	<0.001	0.05	<0.2	0.02	<0.02	<0.5	<0.5
W870755		<1	19.7	1.46	129	2.1	0.10	0.005	0.007	<0.001	0.06	<0.2	0.02	0.03	<0.5	<0.5
W870756		<1	7.7	0.83	21	1.8	0.10	<0.005	0.006	0.001	0.05	0.2	<0.01	0.02	<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: 16-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042513

Sample Description	Method	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP23	PGM-ICP23	PGM-ICP23	Se-MS46
	Analyte	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Se
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	1	10	1	1	2	1	2	0.001	0.005	0.001	0.003
W870717		16	100	10	3	9	6	19	68	<0.001	<0.005	0.001	0.026
W870718		151	5520	40	3	2120	6	24	77	0.118	0.689	0.377	10.35
W870719		11	65	20	1	25	<2	3	12	0.003	0.058	0.051	0.066
W870720		14	525	20	<1	17	3	3	13	0.023	0.030	0.020	0.183
W870721		55	166	50	<1	263	<2	27	59	0.015	0.050	0.106	0.114
W870722		69	20	40	<1	331	<2	42	55	<0.001	<0.005	0.011	0.016
W870723		81	10	20	<1	503	2	45	61	<0.001	<0.005	0.001	0.018
W870724		67	13	30	1	350	2	46	61	<0.001	<0.005	0.002	0.011
W870725		70	27	30	<1	350	<2	48	65	<0.001	<0.005	0.002	0.014
W870726		90	8	20	<1	545	3	45	62	<0.001	<0.005	0.001	0.023
W870727		89	28	20	1	505	<2	47	65	<0.001	<0.005	0.001	0.041
W870728		92	51	20	<1	557	<2	44	60	0.001	<0.005	0.001	0.046
W870729		70	14	30	<1	377	<2	44	57	<0.001	<0.005	0.003	0.011
W870730		64	10	30	<1	313	<2	45	64	<0.001	<0.005	0.004	0.008
W870731		62	7	40	<1	318	<2	43	59	<0.001	<0.005	0.006	0.007
W870732		66	5	50	1	337	<2	34	57	<0.001	0.018	0.140	0.004
W870733		24	6	40	1	102	<2	8	24	<0.001	0.031	0.051	<0.003
W870734		16	8	30	1	78	<2	5	16	<0.001	0.007	0.019	<0.003
W870735		58	85	40	1	325	<2	35	62	0.008	0.092	0.279	0.072
W870736		51	27	50	1	257	<2	25	53	0.002	0.039	0.126	0.019
W870737		115	4610	20	5	4450	24	12	105	0.103	0.328	0.607	4.75
W870738		72	477	50	<1	560	3	25	78	0.097	0.123	0.327	0.537
W870739		29	1190	30	<1	375	4	5	84	0.101	0.198	0.359	1.015
W870740		83	5290	40	1	1470	6	3	58	0.446	0.139	0.247	8.37
W870741		61	6150	50	<1	1070	8	8	84	0.699	0.090	0.157	5.35
W870742		60	647	30	<1	705	9	36	69	0.071	0.154	0.419	0.958
W870743		70	32	20	<1	355	<2	49	72	<0.001	0.005	0.005	0.033
W870744		82	16	20	<1	450	<2	47	72	0.009	<0.005	0.003	0.038
W870745		74	16	20	<1	404	3	49	67	<0.001	<0.005	0.002	0.029
W870746		74	15	20	<1	407	<2	48	70	<0.001	<0.005	0.004	0.023
W870747		74	14	20	<1	433	<2	45	68	0.001	<0.005	0.003	0.039
W870748		79	15	20	1	431	<2	46	71	<0.001	<0.005	0.003	0.027
W870749		67	26	20	<1	352	<2	41	71	<0.001	<0.005	0.004	0.036
W870750		78	8	20	<1	444	<2	48	64	<0.001	<0.005	0.003	0.034
W870751		75	51	30	<1	427	<2	47	59	<0.001	<0.005	0.002	0.035
W870752		52	13	50	<1	268	3	35	61	<0.001	<0.005	0.002	0.021
W870753		107	144	50	<1	457	5	48	75	<0.001	0.005	0.004	0.093
W870754		79	464	20	1	351	2	46	59	<0.001	<0.005	0.005	0.064
W870755		68	153	40	1	329	<2	35	82	<0.001	0.005	0.004	0.055
W870756		74	24	40	1	356	<2	44	63	<0.001	<0.005	0.006	0.049

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

Finalized Date: 16-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042513

Sample Description	Method / Analyte / Units / LOR	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 % 0.01	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
W870757		0.04	61.0	16.15	6.06	6.14	2.81	3.35	1.51	<0.01	0.50	0.13	0.13	0.06	0.07	1.02
W870758		1.96	49.9	6.15	13.00	11.35	16.00	0.60	0.33	0.26	0.27	0.22	0.02	<0.01	0.01	2.42
W870759		2.50	49.4	6.86	12.50	10.70	17.45	0.58	0.20	0.26	0.29	0.22	0.02	<0.01	<0.01	3.00
W870760		2.29	49.3	6.86	12.20	11.40	16.30	0.57	0.38	0.28	0.31	0.21	0.03	0.01	0.01	2.54
W870761		2.35	50.2	6.68	12.20	11.45	15.45	0.55	0.53	0.27	0.31	0.22	0.03	<0.01	0.02	2.13
W870762		2.33	50.0	6.48	12.50	11.50	15.55	0.59	0.48	0.27	0.31	0.22	0.02	0.01	0.01	2.03
W870763		2.38	49.2	7.30	12.10	10.70	16.95	0.61	0.40	0.25	0.27	0.21	0.01	<0.01	0.01	2.37
W870764		2.64	49.7	6.74	12.35	11.50	16.05	0.61	0.48	0.28	0.31	0.21	0.01	0.01	0.02	2.30
W870765		2.45	48.5	6.80	12.25	11.30	16.75	0.48	0.30	0.28	0.28	0.23	0.01	<0.01	0.01	3.25
W870766		1.87	46.3	6.85	11.65	11.70	17.15	0.51	0.31	0.30	0.28	0.21	0.01	<0.01	0.01	2.90
W870767		2.49	48.9	7.10	11.35	12.90	16.70	0.46	0.42	0.29	0.27	0.20	0.01	0.01	0.01	2.82
W870768		2.61	48.7	6.50	11.00	13.30	16.15	0.48	0.46	0.30	0.30	0.20	0.01	0.01	0.01	2.41
W870769		2.21	47.6	6.45	11.10	12.95	15.75	0.58	0.39	0.30	0.29	0.18	0.02	<0.01	0.01	2.64
W870770		2.96	48.4	6.89	11.50	12.45	16.50	0.52	0.33	0.28	0.27	0.20	<0.01	0.01	0.01	2.80
W870771		2.42	48.1	6.09	10.90	13.45	16.05	0.46	0.37	0.31	0.30	0.20	0.01	0.01	0.01	2.23
W870772		2.70	48.4	6.95	10.80	12.55	16.70	0.48	0.54	0.30	0.27	0.20	0.01	0.01	0.01	1.97
W870773		2.41	46.8	6.92	10.85	11.55	16.40	0.43	0.38	0.28	0.24	0.20	0.01	<0.01	0.01	4.02
W870774		2.35	48.7	7.39	11.30	11.35	16.20	0.60	0.41	0.27	0.25	0.21	0.01	<0.01	0.01	2.92
W870775		2.55	47.9	7.49	12.20	11.60	16.55	0.63	0.41	0.28	0.25	0.21	<0.01	<0.01	0.01	3.06
W870776		2.55	47.5	7.18	11.85	11.25	16.95	0.53	0.35	0.28	0.27	0.21	0.01	<0.01	0.01	2.95
W870777		0.08	42.0	8.89	15.35	16.00	11.05	0.60	0.23	0.11	0.70	0.14	0.12	0.01	0.03	4.27
W870778		2.52	47.0	6.62	11.95	12.45	16.00	0.46	0.27	0.30	0.31	0.22	0.01	<0.01	0.01	3.81
W870779		2.69	47.0	6.78	12.10	12.45	16.25	0.43	0.21	0.31	0.29	0.21	0.03	<0.01	0.01	4.18
W870780		2.14	47.7	6.58	15.75	12.55	12.40	0.67	0.44	0.31	0.28	0.28	<0.01	<0.01	<0.01	4.22
W870781		2.65	47.9	6.81	13.90	11.20	15.30	0.68	0.30	0.27	0.32	0.23	0.03	<0.01	0.01	3.74
W870782		2.78	52.0	13.05	9.76	6.64	11.75	2.82	1.35	0.15	0.30	0.18	0.06	0.02	0.03	3.00
W870783		2.55	51.8	9.17	10.90	9.33	14.00	1.67	0.66	0.20	0.33	0.20	0.10	0.01	0.02	2.33
W870784		2.50	49.2	9.32	11.40	9.73	14.20	1.22	0.74	0.22	0.31	0.21	0.15	0.01	0.02	2.58
W870785		2.37	51.9	10.90	9.89	9.83	11.65	2.42	0.56	0.20	0.34	0.18	0.14	0.02	0.02	1.81
W870786		2.69	52.3	9.98	10.80	10.25	12.80	1.80	0.80	0.20	0.38	0.20	0.15	0.03	0.03	1.89
W870787		2.35	47.9	7.29	11.55	12.85	16.55	0.54	0.34	0.30	0.28	0.21	0.01	<0.01	0.01	3.99
W870788		2.29	48.0	7.42	11.30	12.35	16.10	0.60	0.35	0.30	0.28	0.20	0.01	<0.01	0.01	3.33
W870789		2.34	45.8	7.37	13.30	13.50	12.75	0.51	0.82	0.32	0.30	0.17	0.04	<0.01	0.03	4.28
W870790		2.15	47.8	7.09	11.30	12.45	16.15	0.48	0.37	0.32	0.29	0.20	0.02	<0.01	0.01	3.61
W870791		2.19	47.6	7.24	11.75	11.55	16.45	0.52	0.32	0.32	0.29	0.20	0.01	<0.01	0.01	3.24
W870792		2.11	47.8	7.30	12.75	11.00	15.30	0.53	0.66	0.30	0.27	0.19	0.01	<0.01	0.02	3.07
W870793		2.45	47.2	6.93	11.35	12.00	15.80	0.54	0.37	0.31	0.29	0.20	<0.01	<0.01	0.01	3.40
W870794		0.09	47.4	12.75	20.1	6.25	6.76	2.22	0.65	0.03	1.24	0.19	0.14	0.03	0.02	1.33

***** 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: 16-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042513

Sample Description	Method / Analyte / Units / LOR	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
W870757		98.93	0.03	0.02	598	28.9	10	0.57	3.88	2.42	0.97	16.2	3.55	<5	3.4	0.85
W870758		100.53	0.05	0.17	50.2	10.5	1860	0.13	1.39	0.70	0.62	8.8	1.44	<5	0.6	0.27
W870759		101.48	0.02	0.05	28.3	9.2	1930	0.76	1.38	0.78	0.48	9.3	1.60	<5	0.9	0.29
W870760		100.40	0.02	0.03	98.7	12.0	1950	0.24	1.50	0.92	0.57	8.9	1.68	<5	0.6	0.32
W870761		100.04	0.02	0.02	142.0	10.2	1820	0.13	1.52	0.88	0.56	8.4	1.84	<5	0.8	0.28
W870762		99.97	0.04	0.05	123.5	8.9	1860	0.07	1.53	0.77	0.43	8.3	1.66	<5	0.7	0.30
W870763		100.38	0.05	0.03	112.5	9.7	1680	0.23	1.45	0.77	0.45	8.3	1.50	<5	0.7	0.28
W870764		100.57	0.05	0.02	154.0	12.9	1990	0.18	1.89	1.01	0.59	8.8	1.89	<5	1.7	0.35
W870765		100.44	0.17	0.02	80.6	8.3	2090	0.24	1.63	0.81	0.46	9.2	1.76	<5	0.6	0.36
W870766		98.18	0.07	0.03	113.0	6.2	2090	0.28	1.44	0.83	0.47	8.5	1.61	<5	0.4	0.30
W870767		101.44	0.14	0.02	101.5	5.6	2140	0.59	1.28	0.94	0.46	8.3	1.36	<5	0.5	0.32
W870768		99.83	0.13	0.02	96.5	6.4	2130	0.71	1.46	1.00	0.44	8.1	1.72	<5	0.5	0.29
W870769		98.26	0.05	0.02	88.1	6.7	2160	0.63	1.66	0.96	0.43	8.5	1.55	<5	0.5	0.30
W870770		100.16	0.10	0.02	81.9	5.6	1950	0.39	1.30	0.78	0.43	8.1	1.29	<5	0.5	0.26
W870771		98.49	0.16	0.02	78.8	6.0	2260	0.53	1.53	0.89	0.41	7.8	1.85	<5	0.7	0.32
W870772		99.19	0.11	0.02	97.7	5.3	2370	1.06	1.25	0.80	0.37	7.5	1.45	<5	0.5	0.32
W870773		98.09	0.35	0.03	86.3	4.6	2150	0.19	1.27	0.74	0.34	8.2	1.32	<5	0.4	0.26
W870774		99.62	0.12	0.02	108.0	5.2	2140	0.19	1.37	0.73	0.39	8.6	1.29	<5	0.5	0.29
W870775		100.59	0.18	0.03	100.5	4.9	2040	0.31	1.07	0.73	0.40	9.1	1.36	<5	0.4	0.24
W870776		99.34	0.14	0.02	110.0	5.4	2190	0.24	1.40	0.82	0.39	9.1	1.09	<5	0.5	0.28
W870777		99.50	0.24	2.70	299	20.2	810	0.39	2.53	1.46	0.77	11.8	2.71	<5	2.2	0.48
W870778		99.41	0.38	0.01	50.2	7.6	2230	0.13	1.33	0.76	0.48	9.4	1.61	<5	0.6	0.29
W870779		100.25	0.43	0.02	65.7	6.2	2290	0.10	1.41	0.85	0.43	8.9	1.44	<5	0.6	0.31
W870780		101.18	0.56	0.06	29.5	21.0	2290	0.04	1.26	0.69	1.52	10.3	1.90	<5	0.5	0.25
W870781		100.69	0.36	0.23	48.2	11.9	2070	0.17	1.75	1.07	0.62	9.7	2.16	<5	1.1	0.42
W870782		101.11	0.01	0.02	285	15.7	1090	0.42	1.81	1.04	0.39	13.3	2.23	<5	2.3	0.43
W870783		100.72	0.01	0.01	173.5	22.5	1510	0.52	2.81	1.70	0.59	11.7	3.86	<5	2.0	0.61
W870784		99.31	0.02	0.08	207	24.7	1590	0.30	2.92	1.64	0.61	11.3	3.29	<5	1.6	0.60
W870785		99.86	0.05	0.03	213	28.7	1510	0.29	2.77	1.67	0.54	12.6	3.49	<5	2.5	0.62
W870786		101.61	0.04	0.02	242	29.9	1530	0.41	2.72	1.51	0.69	11.4	3.74	<5	2.3	0.58
W870787		101.82	0.38	0.01	103.5	6.0	2310	0.39	1.31	0.82	0.40	9.8	1.29	<5	0.5	0.28
W870788		100.25	0.29	0.01	88.0	6.2	2340	0.29	1.23	0.76	0.39	9.4	1.37	<5	0.6	0.28
W870789		99.19	0.75	0.29	267	6.6	2440	0.20	1.30	0.68	0.93	10.6	1.49	<5	0.6	0.29
W870790		100.09	0.32	0.01	98.6	6.6	2460	0.49	1.35	0.88	0.42	9.3	1.61	<5	0.6	0.30
W870791		99.50	0.23	0.01	82.6	6.4	2410	0.23	1.41	0.77	0.48	9.3	1.43	<5	0.6	0.31
W870792		99.20	0.21	0.49	221	6.4	2330	0.19	1.20	0.85	0.63	8.9	1.60	<5	0.5	0.29
W870793		98.40	0.31	0.01	97.5	6.7	2400	0.26	1.50	0.81	0.47	8.7	1.64	<5	0.6	0.29
W870794		99.11	0.08	1.70	218	26.0	250	0.94	2.62	1.36	1.08	16.6	3.08	<5	2.4	0.49

***** 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: 16-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042513

Sample Description	Method / Analyte / Units / LOR	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
W870757		12.6	0.41	3.2	17.0	3.84	27.0	3.91	1	488	0.2	0.61	2.89	0.36	1.62	155
W870758		5.2	0.12	0.7	6.1	1.32	5.5	1.63	1	35.9	<0.1	0.17	0.39	0.13	0.34	195
W870759		4.3	0.13	0.9	5.7	1.29	2.9	1.67	1	30.7	<0.1	0.22	0.64	0.12	0.21	202
W870760		6.2	0.12	0.6	7.6	1.66	7.6	1.74	<1	81.0	<0.1	0.27	0.32	0.13	0.16	213
W870761		4.2	0.13	1.0	6.6	1.38	11.2	1.71	<1	57.1	<0.1	0.22	0.52	0.16	0.21	210
W870762		3.9	0.12	0.7	6.3	1.20	9.2	1.58	<1	52.4	<0.1	0.21	0.30	0.11	0.19	208
W870763		4.7	0.15	0.7	6.3	1.34	8.5	1.49	1	67.4	<0.1	0.21	0.58	0.09	0.16	190
W870764		6.2	0.16	0.9	8.1	1.79	10.6	1.93	1	79.6	<0.1	0.29	0.55	0.15	0.22	214
W870765		4.0	0.13	0.5	5.6	1.11	5.9	1.57	<1	51.6	<0.1	0.23	0.29	0.13	0.09	205
W870766		2.8	0.10	0.3	5.0	0.95	8.1	1.52	<1	63.2	<0.1	0.23	0.17	0.10	0.07	209
W870767		2.2	0.11	0.3	4.8	0.87	13.6	1.46	<1	99.5	<0.1	0.24	0.15	0.11	0.05	216
W870768		2.6	0.14	0.4	5.5	1.02	15.5	1.37	<1	99.9	<0.1	0.26	0.22	0.11	0.06	219
W870769		3.0	0.15	0.4	5.0	0.98	11.4	1.39	<1	63.5	<0.1	0.24	0.22	0.15	0.07	219
W870770		2.5	0.10	0.3	4.2	0.87	8.9	1.22	<1	86.0	<0.1	0.22	0.22	0.09	0.09	208
W870771		2.3	0.14	0.3	5.0	0.96	11.6	1.36	<1	95.8	<0.1	0.24	0.24	0.10	0.05	230
W870772		1.8	0.11	0.3	4.2	0.88	19.4	1.53	<1	111.5	0.1	0.25	0.34	0.09	0.28	230
W870773		1.7	0.11	0.2	3.4	0.75	8.2	1.23	<1	33.8	0.1	0.19	0.17	0.10	0.06	208
W870774		2.0	0.10	0.4	4.0	0.79	8.8	1.24	<1	49.0	0.1	0.25	0.16	0.09	0.29	201
W870775		1.9	0.12	0.3	3.8	0.77	10.9	1.25	<1	61.1	0.1	0.21	0.14	0.09	0.11	191
W870776		2.1	0.10	0.3	4.5	0.80	8.2	1.68	1	58.0	0.1	0.24	0.23	0.10	0.12	191
W870777		9.5	0.24	6.4	10.6	2.46	5.2	2.61	2	65.0	0.4	0.45	1.95	0.21	1.01	176
W870778		3.0	0.11	0.6	5.7	1.14	5.4	1.34	<1	25.3	0.1	0.27	0.32	0.11	0.20	218
W870779		2.3	0.13	0.7	4.7	0.89	4.5	1.39	<1	34.0	0.1	0.26	0.30	0.12	0.15	221
W870780		16.5	0.09	0.4	9.6	2.42	6.2	2.25	1	38.2	0.1	0.22	0.16	0.09	2.53	209
W870781		5.7	0.14	0.8	7.9	1.60	5.2	2.24	<1	49.1	0.1	0.31	0.50	0.16	1.00	226
W870782		6.2	0.20	2.6	8.4	1.99	29.7	2.12	<1	216	0.4	0.32	7.60	0.15	1.89	128
W870783		8.7	0.23	2.4	14.8	3.17	15.7	3.73	1	148.5	0.2	0.59	1.91	0.26	0.55	181
W870784		9.6	0.23	1.9	15.2	3.35	16.4	3.51	1	143.0	0.2	0.50	1.50	0.21	0.51	198
W870785		11.9	0.25	3.0	15.7	3.66	15.1	3.64	<1	238	0.4	0.56	4.02	0.24	0.95	193
W870786		12.0	0.24	2.6	16.8	4.07	22.8	3.98	<1	255	0.3	0.53	3.30	0.23	0.91	211
W870787		2.4	0.13	0.4	4.8	0.90	8.2	1.43	<1	56.7	<0.1	0.25	0.20	0.11	0.09	220
W870788		2.4	0.12	0.5	4.6	0.94	7.9	1.44	<1	70.0	0.1	0.28	0.26	0.10	0.10	229
W870789		3.0	0.12	0.6	4.5	0.94	15.8	1.26	<1	88.9	0.1	0.22	0.33	0.10	1.36	243
W870790		2.5	0.14	0.5	5.2	0.94	9.6	1.33	<1	54.2	0.1	0.26	0.31	0.12	0.10	222
W870791		2.4	0.12	0.5	4.4	0.95	5.8	1.08	<1	49.2	0.1	0.26	0.32	0.11	0.10	210
W870792		2.4	0.12	0.4	4.6	0.96	12.1	1.51	<1	61.5	<0.1	0.25	0.26	0.12	0.33	203
W870793		2.6	0.11	0.6	4.9	1.09	7.7	1.36	<1	51.7	0.1	0.24	0.27	0.11	0.10	209
W870794		11.4	0.20	7.0	13.2	3.22	16.7	2.95	4	254	0.4	0.45	1.57	0.19	0.43	122

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

Finalized Date: 16-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042513

Sample Description	Method / Analyte / Units / LOR	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
W870757		3	23.5	2.57	122	0.9	0.04	<0.005	0.010	0.001	0.13	<0.2	<0.01	0.04	<0.5	<0.5
W870758		<1	7.3	0.76	19	4.0	0.14	<0.005	0.005	<0.001	<0.05	0.2	0.03	<0.02	<0.5	0.5
W870759		<1	7.8	0.69	26	1.1	0.04	<0.005	<0.005	<0.001	<0.05	<0.2	0.03	<0.02	<0.5	<0.5
W870760		1	8.5	0.83	18	0.5	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870761		1	8.0	0.95	25	<0.1	0.01	<0.005	<0.005	0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
W870762		<1	7.8	0.72	20	0.5	0.01	<0.005	<0.005	0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870763		14	7.0	0.68	21	0.4	0.03	<0.005	<0.005	0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
W870764		1	9.3	0.94	64	0.1	0.02	<0.005	<0.005	0.005	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870765		2	7.9	0.81	16	0.1	0.02	<0.005	<0.005	0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870766		<1	7.5	0.83	14	<0.1	0.03	<0.005	0.005	0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
W870767		<1	7.6	0.70	13	0.1	0.02	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870768		11	8.1	0.71	16	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870769		1	7.8	0.81	16	0.1	0.01	0.006	0.005	0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870770		<1	7.0	0.70	13	<0.1	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
W870771		<1	8.4	0.73	16	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870772		<1	7.5	0.74	13	<0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870773		1	6.4	0.62	13	0.1	0.02	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870774		2	6.3	0.59	12	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870775		1	6.3	0.73	11	0.1	0.02	0.005	<0.005	0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870776		8	7.0	0.73	14	0.2	0.02	0.006	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870777		2	14.5	1.40	80	47.5	0.29	0.122	0.053	0.014	1.42	12.1	1.28	0.06	3.0	1.1
W870778		1	7.4	0.68	17	0.1	0.01	<0.005	<0.005	0.004	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870779		4	7.2	0.82	17	0.6	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870780		5	6.2	0.58	13	0.2	0.01	<0.005	0.016	0.005	0.05	<0.2	0.01	0.02	<0.5	0.5
W870781		2	10.3	1.06	35	1.5	0.03	<0.005	0.009	0.002	<0.05	<0.2	0.02	0.02	<0.5	<0.5
W870782		4	10.4	0.98	77	1.8	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870783		13	15.9	1.68	65	2.6	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870784		1	15.2	1.61	55	3.3	0.05	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.8
W870785		2	16.5	1.60	89	0.6	0.03	0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870786		1	14.8	1.46	80	0.7	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870787		1	7.2	0.84	16	0.7	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870788		1	7.0	0.70	16	0.4	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870789		3	7.0	0.65	18	0.8	0.05	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870790		1	7.3	0.74	19	0.4	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870791		1	7.3	0.70	17	0.6	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870792		1	7.2	0.73	15	4.3	0.09	<0.005	0.007	<0.001	<0.05	0.4	0.01	<0.02	<0.5	<0.5
W870793		1	7.5	0.72	17	1.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870794		6	12.8	1.33	101	4.2	0.74	0.009	0.065	0.005	0.34	5.5	0.56	0.10	1.9	0.5

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

ALS Canada Ltd.

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Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 16-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042513

Sample Description	Method	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP23	PGM-ICP23	PGM-ICP23	Se-MS46
	Analyte	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn	Au	Pt	Pd	Se
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	1	10	1	1	2	1	2	0.001	0.005	0.001	0.003
W870757		8	49	<10	1	6	4	10	35	<0.001	<0.005	<0.001	0.024
W870758		72	337	20	1	316	2	37	51	0.008	0.005	0.007	0.106
W870759		63	27	20	<1	325	<2	39	55	<0.001	0.005	0.006	0.027
W870760		60	4	20	<1	342	2	38	59	<0.001	<0.005	0.006	0.021
W870761		56	3	30	<1	292	<2	42	72	<0.001	<0.005	0.004	0.008
W870762		75	86	30	1	401	2	50	78	<0.001	<0.005	0.007	0.029
W870763		71	10	30	1	396	<2	50	75	<0.001	<0.005	0.005	0.024
W870764		66	8	30	6	364	<2	50	71	<0.001	<0.005	0.005	0.017
W870765		69	8	30	1	380	2	50	73	<0.001	<0.005	0.003	0.017
W870766		73	11	20	<1	414	<2	50	60	<0.001	<0.005	0.004	0.019
W870767		79	15	20	1	439	3	54	67	<0.001	<0.005	0.003	0.019
W870768		73	10	10	<1	404	<2	54	60	<0.001	<0.005	0.003	0.017
W870769		67	6	20	<1	400	3	53	51	<0.001	<0.005	0.002	0.017
W870770		74	5	20	1	400	3	48	59	<0.001	<0.005	0.004	0.016
W870771		69	24	10	1	371	4	54	60	<0.001	<0.005	0.003	0.023
W870772		76	13	10	<1	426	2	52	63	<0.001	<0.005	0.002	0.014
W870773		72	11	30	1	413	2	48	70	<0.001	<0.005	0.001	0.018
W870774		71	5	30	2	397	<2	46	76	<0.001	<0.005	0.002	0.017
W870775		71	8	30	1	396	2	45	74	<0.001	<0.005	0.009	0.025
W870776		74	7	30	1	422	<2	50	76	<0.001	<0.005	0.003	0.020
W870777		154	5640	40	3	2150	7	24	78	0.106	0.664	0.365	11.10
W870778		65	4	30	5	361	<2	51	79	<0.001	<0.005	0.002	0.009
W870779		75	17	30	1	399	2	53	92	<0.001	<0.005	0.002	0.023
W870780		65	45	40	18	342	4	51	83	<0.001	<0.005	0.003	0.021
W870781		88	148	30	8	388	2	52	99	<0.001	0.009	0.014	0.083
W870782		43	3	60	<1	235	<2	30	65	<0.001	<0.005	0.004	0.006
W870783		57	5	30	1	301	3	42	80	<0.001	0.006	0.004	0.008
W870784		72	142	30	<1	334	<2	43	489	<0.001	0.007	0.013	0.123
W870785		59	31	20	<1	279	3	41	155	<0.001	0.008	0.018	0.031
W870786		26	8	10	<1	133	3	21	34	<0.001	0.007	0.018	0.018
W870787		46	3	20	<1	258	<2	30	48	<0.001	0.005	0.006	0.015
W870788		81	11	30	<1	453	<2	53	87	<0.001	0.005	0.005	0.019
W870789		93	38	20	1	393	3	49	67	<0.001	<0.005	0.003	0.093
W870790		71	14	20	1	372	3	46	65	<0.001	0.007	0.003	0.018
W870791		77	8	30	1	419	<2	49	70	<0.001	<0.005	0.003	0.015
W870792		114	120	30	1	437	3	48	100	0.004	<0.005	0.003	0.327
W870793		71	7	20	1	404	<2	48	76	<0.001	<0.005	0.004	0.015
W870794		102	4070	10	5	3890	21	11	97	0.074	0.277	0.617	4.46

***** 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: 16-MAR-2018
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CERTIFICATE OF ANALYSIS TB18042513

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		