ALS Canada Ltd.

2103 Dollarton Hwy
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: 12-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18042508

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 TB18042508

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
W870795		0.04	61.2	16.65	5.86	6.07	2.72	3.22	1.44	<0.01	0.48	0.12	0.14	0.06	0.06	1.02
W870796		0.08	42.2	9.20	15.15	16.15	10.95	0.60	0.23	0.11	0.70	0.14	0.10	0.01	0.03	4.06
W870797		2.19	47.3	7.00	11.60	11.30	16.10	0.51	0.40	0.31	0.29	0.19	0.03	<0.01	0.02	2.99
W870798		2.24	47.4	7.27	11.95	12.20	15.95	0.49	0.35	0.32	0.30	0.20	0.03	<0.01	0.01	3.29
W870799		2.33	45.6	7.30	12.20	11.70	16.55	0.42	0.23	0.31	0.30	0.19	0.02	<0.01	0.01	4.32
W870800		2.16	46.5	7.36	12.30	12.25	16.55	0.46	0.19	0.32	0.29	0.19	0.02	<0.01	0.01	4.06
W870801		2.09	45.4	7.14	11.85	14.70	13.30	0.53	0.35	0.30	0.28	0.17	0.01	<0.01	0.01	4.84
W870802		2.51	48.3	7.17	11.85	11.95	17.05	0.51	0.48	0.32	0.29	0.20	0.01	0.01	0.01	1.76
W870803		2.61	47.9	7.01	12.00	11.70	17.35	0.52	0.37	0.31	0.28	0.21	0.02	0.01	0.01	1.48
W870804		2.25	48.3	6.85	12.15	11.60	17.55	0.47	0.32	0.33	0.30	0.21	0.02	<0.01	0.01	2.85
W870805		2.35	47.9	7.14	12.15	11.30	17.70	0.48	0.48	0.33	0.29	0.20	0.02	0.01	0.01	2.34
W870806		2.60	47.7	7.38	12.10	10.55	16.85	0.68	0.32	0.31	0.28	0.21	0.02	0.01	0.01	3.07
W870807		2.42	49.0	7.54	12.60	11.05	16.30	0.68	0.40	0.29	0.27	0.21	0.01	0.01	0.01	2.35
W870808		2.36	45.4	6.69	12.00	11.10	16.65	0.43	0.31	0.30	0.26	0.20	0.01	0.01	0.01	3.00
W870809		2.28	47.1	6.24	13.20	11.80	16.45	0.53	0.13	0.32	0.28	0.21	0.01	<0.01	<0.01	2.97
W870810		2.35	46.1	6.54	13.20	12.60	16.50	0.39	0.11	0.31	0.28	0.22	<0.01	<0.01	<0.01	4.19
W870811		2.46	47.3	6.82	14.85	11.15	15.20	0.61	0.34	0.29	0.31	0.22	0.02	<0.01	0.01	2.90
W870812		2.44	48.7	7.98	11.30	12.30	15.70	0.63	0.56	0.29	0.30	0.20	0.02	0.01	0.02	2.57
W870813		2.29	49.2	7.92	11.10	13.20	15.00	0.90	0.37	0.28	0.29	0.20	0.03	0.01	0.01	2.76
W870814		2.28	48.7	7.44	10.85	12.55	14.95	0.71	0.53	0.31	0.34	0.20	0.02	0.01	0.01	2.31
W870815		0.09	47.2	12.80	20.8	6.36	6.72	2.18	0.62	0.03	1.25	0.20	0.16	0.03	0.02	1.33
W870816		2.61	50.0	7.36	10.95	12.60	14.95	0.81	0.53	0.31	0.36	0.20	0.04	0.01	0.02	2.22
W870817		2.57	49.7	7.14	11.40	12.65	15.50	0.79	0.36	0.32	0.35	0.20	0.02	0.01	0.01	2.59
W870818		2.52	48.2	7.04	12.00	11.85	15.90	0.80	0.27	0.30	0.35	0.21	0.04	0.01	0.01	2.73
W870819		2.82	49.6	7.14	12.95	11.10	15.50	0.81	0.38	0.29	0.30	0.21	0.03	0.01	0.01	2.13
W870820		2.73	45.9	6.30	14.50	10.90	16.60	0.60	0.21	0.28	0.27	0.19	0.02	0.01	<0.01	2.29
W870821		2.81	45.6	5.70	16.45	10.70	16.75	0.56	0.22	0.29	0.26	0.20	<0.01	0.01	<0.01	2.11
W870822		2.82	47.2	6.37	12.55	11.20	17.00	0.58	0.26	0.29	0.29	0.20	0.01	0.01	0.01	2.06
W870823		2.77	48.8	6.57	12.65	11.25	17.25	0.61	0.33	0.29	0.30	0.21	0.02	0.01	0.01	1.84
W870824		2.88	49.2	6.55	12.45	11.40	17.50	0.60	0.32	0.30	0.32	0.21	<0.01	0.01	0.01	1.66
W870825		2.90	49.0	6.71	12.20	11.30	17.50	0.58	0.38	0.29	0.31	0.21	0.02	0.01	0.01	1.94
W870826		2.65	48.3	6.11	12.40	11.20	16.65	0.72	0.16	0.28	0.28	0.21	0.01	0.01	<0.01	2.26
W870827		3.02	49.2	7.01	12.30	11.20	17.60	0.62	0.35	0.29	0.32	0.21	0.02	0.01	0.01	1.99
W870828		2.52	48.4	8.90	11.05	11.45	15.55	0.73	0.57	0.25	0.28	0.19	0.02	0.01	0.02	2.92
W870829		2.84	47.9	6.31	12.20	11.05	17.30	0.60	0.12	0.30	0.32	0.22	0.02	0.01	<0.01	2.94
W870830		2.59	49.3	6.79	12.70	11.15	17.10	0.81	0.18	0.29	0.31	0.22	0.01	0.01	<0.01	2.35
W870831		2.96	49.3	7.61	13.10	11.35	17.25	0.72	0.30	0.29	0.31	0.21	0.02	0.01	0.01	1.43
W870832		2.60	49.0	6.71	12.70	11.10	17.10	0.57	0.35	0.30	0.33	0.21	0.02	0.01	0.01	2.53
W870833		2.64	48.7	6.54	13.10	11.10	17.10	0.61	0.19	0.29	0.33	0.23	0.02	<0.01	<0.01	2.81
W870834		2.58	48.0	8.81	13.45	10.10	16.05	0.77	0.45	0.24	0.28	0.21	0.02	0.02	0.01	2.25

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THUNDER BAY ON P7B 2R2

Finalized Date: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042508

Sample Description	Method	TOT-ICP06	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	Total	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho
	Units	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2	0.01
W870795		99.04	0.04	0.01	557	29.2	20	0.64	3.71	2.42	0.91	16.6	3.80	<5	3.9	0.80
W870796		99.63	0.24	2.70	259	18.1	700	0.36	2.29	1.44	0.68	10.9	2.47	<5	1.7	0.48
W870797		98.04	0.25	<0.01	144.5	6.6	2190	0.27	1.37	0.77	0.37	9.1	1.57	<5	0.5	0.30
W870798		99.76	0.33	<0.01	109.0	7.4	2320	0.30	1.52	0.87	0.42	9.4	1.57	<5	0.6	0.31
W870799		99.15	0.45	0.01	61.7	6.3	2340	0.25	1.41	0.89	0.40	9.4	1.49	<5	0.6	0.32
W870800		100.50	0.43	0.02	47.3	6.1	2300	0.17	1.46	0.84	0.40	9.5	1.40	<5	0.5	0.29
W870801		98.88	0.84	0.10	49.3	7.0	2130	0.16	1.28	0.77	0.48	9.1	1.38	<5	0.5	0.24
W870802		99.91	0.10	0.01	83.5	6.3	2380	1.01	1.42	0.94	0.43	9.2	1.46	<5	0.6	0.31
W870803		99.17	0.09	<0.01	72.3	5.9	2160	0.89	1.15	0.74	0.36	8.6	1.40	<5	0.5	0.26
W870804		100.96	0.15	0.03	71.8	7.0	2440	0.91	1.42	0.85	0.38	9.0	1.69	<5	0.8	0.30
W870805		100.35	0.11	0.03	88.6	6.0	2420	1.13	1.37	0.82	0.38	9.3	1.37	<5	0.5	0.27
W870806		99.49	0.19	0.02	83.4	7.3	2320	0.79	1.43	0.84	0.37	8.9	1.44	<5	0.8	0.27
W870807		100.72	0.09	0.01	110.5	8.7	2080	0.66	1.44	0.82	0.38	9.6	1.43	<5	0.6	0.29
W870808		96.37	0.22	0.02	69.5	6.0	2170	0.82	1.23	0.72	0.37	8.6	1.39	<5	0.5	0.27
W870809		99.24	0.26	0.34	23.6	5.1	2030	0.30	1.17	0.72	0.36	8.1	1.34	<5	0.4	0.24
W870810		100.44	0.50	0.08	31.0	4.7	2020	0.39	1.16	0.77	0.35	8.2	1.32	<5	0.4	0.24
W870811		100.02	0.21	1.15	84.3	10.0	1930	0.64	1.72	1.09	0.43	9.1	1.82	<5	1.0	0.37
W870812		100.58	0.16	0.01	138.0	6.9	1960	0.70	1.36	0.82	0.37	9.7	1.50	<5	0.6	0.27
W870813		101.27	0.32	<0.01	86.6	7.5	1900	0.19	1.34	0.84	0.42	9.9	1.50	<5	0.7	0.28
W870814		98.93	0.17	0.01	125.0	8.4	2100	0.39	1.64	0.92	0.46	9.5	1.79	<5	0.7	0.33
W870815		99.70	0.07	1.73	198.5	24.1	220	0.90	2.36	1.37	1.03	16.3	2.89	<5	2.2	0.48
W870816		100.36	0.19	0.01	138.5	10.0	2200	0.35	1.67	0.98	0.50	10.0	2.04	<5	0.8	0.36
W870817		101.04	0.24	<0.01	93.8	10.1	2150	0.22	1.49	0.95	0.46	9.6	1.75	<5	0.7	0.34
W870818		99.71	0.20	0.01	67.1	10.1	2110	0.22	1.55	0.93	0.50	9.5	1.84	<5	0.8	0.35
W870819		100.46	0.06	0.18	119.0	11.7	2060	0.72	1.87	1.16	0.49	10.0	2.13	<5	1.0	0.36
W870820		98.07	0.16	0.99	37.0	4.4	1770	0.51	1.11	0.71	0.30	7.6	1.24	<5	0.4	0.22
W870821		98.85	0.10	1.51	37.8	4.4	1950	0.54	1.14	0.73	0.33	8.0	1.13	<5	0.4	0.25
W870822		98.03	0.15	0.28	55.1	6.1	2160	0.65	1.32	0.87	0.39	9.2	1.53	<5	0.5	0.29
W870823		100.14	0.12	0.18	66.3	6.3	2020	0.74	1.34	0.84	0.36	8.7	1.61	<5	0.6	0.28
W870824		100.53	0.11	0.07	67.7	6.9	2050	0.59	1.36	0.86	0.45	8.9	1.52	<5	0.6	0.31
W870825		100.46	0.14	0.04	78.6	6.4	1970	0.57	1.37	0.81	0.38	8.8	1.49	<5	0.6	0.28
W870826		98.59	0.10	0.06	25.7	6.7	1950	0.20	1.35	0.76	0.42	8.5	1.46	<5	0.6	0.29
W870827		101.13	0.12	0.02	72.5	6.9	2050	0.60	1.40	0.97	0.43	9.3	1.63	<5	0.6	0.33
W870828		100.34	0.17	0.02	119.5	5.5	1590	0.59	1.12	0.82	0.37	9.5	1.35	<5	0.4	0.27
W870829		99.29	0.14	0.02	20.8	6.5	2010	0.22	1.49	0.89	0.39	9.0	1.59	<5	0.6	0.33
W870830		101.22	0.06	0.02	19.9	5.5	1710	0.22	1.21	0.77	0.37	7.6	1.32	<5	0.4	0.26
W870831		101.91	0.11	0.02	70.4	6.2	2060	0.56	1.44	0.91	0.41	9.7	1.57	<5	0.5	0.33
W870832		100.94	0.15	0.03	74.9	6.4	2010	0.52	1.57	0.96	0.43	9.0	1.58	<5	0.7	0.31
W870833		101.02	0.16	0.03	39.2	6.6	2030	0.30	1.43	0.92	0.40	9.1	1.58	<5	0.6	0.31
W870834		100.66	0.12	0.17	82.6	5.1	1400	0.67	1.04	0.59	0.32	8.5	1.21	<5	0.4	0.21

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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
W870795		13.1	0.36	3.3	16.5	3.89	25.1	3.78	1	473	0.2	0.59	2.96	0.36	1.14	144
W870796		8.6	0.21	5.8	9.8	2.28	4.5	2.13	2	58.6	0.3	0.39	1.79	0.19	0.91	162
W870797		2.6	0.11	0.6	4.7	1.02	8.5	1.37	<1	52.2	<0.1	0.23	0.29	0.11	0.11	223
W870798		2.8	0.11	0.7	5.3	1.08	7.8	1.48	<1	59.7	0.1	0.25	0.33	0.12	0.14	240
W870799		2.4	0.12	0.6	4.7	0.96	4.5	1.37	<1	36.9	<0.1	0.24	0.32	0.12	0.11	237
W870800		2.3	0.10	0.6	4.5	0.92	3.6	1.24	1	35.4	<0.1	0.22	0.27	0.12	0.12	239
W870801		3.0	0.11	0.5	4.7	0.98	6.2	1.16	<1	36.9	<0.1	0.22	0.26	0.10	0.20	223
W870802		2.5	0.11	0.5	4.6	0.91	15.1	1.44	<1	103.5	<0.1	0.24	0.28	0.12	0.12	239
W870803		2.2	0.10	0.5	4.4	0.89	10.6	1.13	<1	94.9	<0.1	0.20	0.25	0.12	0.10	229
W870804		2.7	0.12	0.7	4.7	1.04	10.3	1.32	<1	64.2	<0.1	0.24	0.55	0.11	0.14	237
W870805		2.4	0.10	0.5	4.3	0.89	15.8	1.28	<1	83.3	<0.1	0.20	0.33	0.10	0.12	232
W870806		3.0	0.12	0.9	4.6	1.05	9.9	1.33	<1	74.7	0.1	0.23	1.30	0.10	0.37	214
W870807		3.4	0.11	1.0	5.1	1.25	10.1	1.36	<1	79.1	0.1	0.24	1.12	0.11	0.32	213
W870808		2.3	0.10	0.4	4.3	0.91	9.3	1.26	<1	63.1	<0.1	0.23	0.43	0.10	0.11	213
W870809		2.1	0.09	0.4	4.0	0.80	2.0	1.09	<1	43.5	<0.1	0.18	0.22	0.09	0.09	224
W870810		1.9	0.09	0.4	3.9	0.73	2.2	1.25	<1	35.2	<0.1	0.22	0.13	0.09	0.05	224
W870811		4.2	0.13	1.0	6.6	1.45	10.0	1.80	<1	69.3	0.1	0.30	0.92	0.14	0.23	226
W870812		3.0	0.11	0.7	5.1	1.03	17.2	1.47	1	98.3	<0.1	0.25	0.36	0.11	0.11	231
W870813		3.2	0.11	0.6	5.3	1.10	8.3	1.46	<1	83.2	<0.1	0.23	0.71	0.11	0.18	219
W870814		3.7	0.13	0.9	6.0	1.22	15.9	1.63	1	101.5	<0.1	0.28	0.64	0.13	0.15	249
W870815		12.1	0.18	6.7	12.9	3.05	16.0	2.81	4	235	0.4	0.41	2.33	0.19	0.57	120
W870816		4.5	0.13	1.0	6.6	1.38	16.5	1.77	1	93.1	0.1	0.28	0.92	0.14	0.27	257
W870817		4.7	0.13	0.8	6.4	1.41	8.8	1.65	<1	86.6	<0.1	0.27	0.77	0.12	0.21	245
W870818		4.4	0.12	0.9	6.7	1.45	5.6	1.66	1	80.3	<0.1	0.28	0.45	0.13	0.17	230
W870819		5.0	0.15	1.1	7.6	1.58	10.5	1.99	1	91.1	0.1	0.32	1.92	0.14	0.46	213
W870820		1.8	0.08	0.3	3.7	0.67	5.6	1.02	<1	83.8	<0.1	0.18	0.18	0.09	0.06	201
W870821		1.8	0.10	0.3	3.4	0.70	6.0	1.16	<1	83.5	<0.1	0.19	0.17	0.10	0.06	214
W870822		2.5	0.11	0.5	4.7	0.93	8.1	1.31	<1	102.0	<0.1	0.24	0.30	0.11	0.08	228
W870823		2.7	0.11	0.5	4.7	0.94	9.8	1.23	1	95.0	<0.1	0.21	0.31	0.11	0.10	230
W870824		3.0	0.11	0.6	5.2	1.00	9.1	1.29	<1	92.8	<0.1	0.25	0.41	0.11	0.11	230
W870825		2.8	0.10	0.5	4.6	0.96	11.6	1.41	<1	91.6	<0.1	0.22	0.36	0.11	0.11	223
W870826		2.8	0.12	0.5	4.8	0.97	2.5	1.39	<1	57.4	<0.1	0.23	0.30	0.12	0.10	211
W870827		2.9	0.11	0.5	5.2	1.02	10.0	1.49	<1	106.5	<0.1	0.26	0.33	0.12	0.08	227
W870828		2.3	0.09	0.3	4.2	0.81	16.9	1.09	1	140.0	<0.1	0.22	0.24	0.09	0.06	191
W870829		2.7	0.12	0.5	5.0	0.99	2.2	1.35	<1	62.1	<0.1	0.27	0.36	0.12	0.10	222
W870830		2.3	0.10	0.4	4.1	0.83	2.4	1.14	<1	63.7	<0.1	0.23	0.25	0.11	0.08	197
W870831		2.7	0.12	0.4	4.7	0.99	8.4	1.48	<1	122.5	<0.1	0.25	0.30	0.13	0.09	223
W870832		2.7	0.13	0.5	4.9	0.99	10.1	1.38	1	83.3	<0.1	0.24	0.37	0.12	0.18	234
W870833		2.9	0.11	0.5	4.9	0.99	4.4	1.48	<1	59.1	<0.1	0.22	0.36	0.13	0.09	229
W870834		2.2	0.09	0.4	3.6	0.77	10.2	1.04	<1	115.5	<0.1	0.17	0.21	0.09	0.05	159

***** 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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042508

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
W870795		3	21.9	2.38	141	0.7	0.06	<0.005	0.011	0.001	0.14	<0.2	<0.01	0.04	<0.5	0.6
W870796		<1	12.9	1.20	70	40.7	0.33	0.121	0.052	0.016	1.38	11.6	1.45	0.07	2.5	1.5
W870797		<1	7.3	0.67	17	0.9	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.8
W870798		<1	7.9	0.75	19	0.5	0.02	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	1.1
W870799		<1	7.6	0.77	17	1.0	0.04	<0.005	0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	1.8
W870800		2	7.1	0.69	16	0.4	0.04	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.2
W870801		<1	6.4	0.64	15	1.0	0.11	<0.005	0.017	<0.001	<0.05	<0.2	0.03	<0.02	<0.5	1.5
W870802		2	7.4	0.68	17	0.7	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	1.1
W870803		1	6.7	0.70	19	0.6	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.9
W870804		<1	7.6	0.65	24	1.0	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	0.9
W870805		10	6.9	0.74	17	1.0	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	1.1
W870806		<1	7.1	0.72	22	0.5	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.9
W870807		<1	7.4	0.75	16	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	1.8
W870808		<1	6.6	0.63	14	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.07	<0.5	1.0
W870809		<1	6.3	0.67	13	0.4	0.05	<0.005	0.007	<0.001	<0.05	<0.2	0.05	0.06	<0.5	1.2
W870810		<1	6.1	0.75	12	0.2	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.02	0.06	<0.5	0.9
W870811		<1	8.7	0.92	34	2.1	0.16	<0.005	0.007	0.002	<0.05	0.7	0.06	0.20	<0.5	1.4
W870812		<1	7.0	0.74	17	0.6	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.6
W870813		<1	7.1	0.78	22	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870814		<1	7.9	0.87	22	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.7
W870815		1	12.1	1.24	93	4.1	1.17	0.007	0.067	0.007	0.33	4.7	0.61	0.10	2.0	1.3
W870816		55	8.7	0.95	25	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870817		<1	8.2	0.90	22	0.2	0.01	0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870818		<1	8.0	0.96	25	0.3	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.7
W870819		<1	9.6	1.12	35	0.4	0.02	<0.005	0.006	<0.001	<0.05	0.2	0.02	0.14	<0.5	0.9
W870820		21	5.5	0.64	13	0.7	0.08	<0.005	0.010	0.001	<0.05	0.6	0.08	0.21	0.5	0.6
W870821		<1	5.9	0.69	11	0.6	0.06	<0.005	0.008	<0.001	<0.05	0.8	0.08	0.16	<0.5	0.7
W870822		<1	7.1	0.84	17	0.5	0.07	<0.005	0.007	<0.001	<0.05	0.4	0.04	0.11	<0.5	0.5
W870823		<1	6.8	0.76	17	0.7	0.10	<0.005	0.007	<0.001	<0.05	0.2	0.05	0.12	<0.5	0.7
W870824		<1	7.3	0.80	19	0.6	0.02	0.006	0.005	<0.001	<0.05	0.2	0.03	0.09	<0.5	0.5
W870825		<1	7.0	0.82	18	0.5	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.02	0.09	<0.5	0.6
W870826		<1	7.0	0.80	16	0.3	0.04	<0.005	<0.005	<0.001	<0.05	0.2	0.03	0.03	<0.5	<0.5
W870827		<1	7.7	0.93	18	0.4	0.01	0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	0.6
W870828		<1	6.3	0.68	14	0.6	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.05	<0.5	0.6
W870829		<1	7.3	0.90	18	0.4	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	0.7
W870830		<1	6.4	0.76	14	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
W870831		2	7.6	0.84	16	0.6	0.01	<0.005	<0.005	0.001	<0.05	0.3	0.01	0.05	<0.5	0.7
W870832		<1	7.6	0.93	19	1.0	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.03	<0.5	0.7
W870833		22	7.6	0.89	18	1.5	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.7
W870834		<1	5.3	0.61	12	1.2	0.06	<0.005	0.006	<0.001	<0.05	0.3	0.05	0.08	<0.5	0.7

***** 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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042508

Sample Description	Method / Analyte / Units / LOR	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
W870795		13	94	10	2	8	12	17	64	<0.001	<0.005	0.001	0.022
W870796		156	5740	40	3	2210	9	25	78	0.118	0.773	0.375	11.20
W870797		74	10	30	1	429	<2	53	81	<0.001	<0.005	0.005	0.012
W870798		73	9	30	<1	438	<2	54	76	<0.001	<0.005	0.007	0.013
W870799		87	12	30	<1	508	<2	58	79	<0.001	0.011	0.042	0.024
W870800		81	8	30	<1	467	2	52	74	<0.001	0.006	0.023	0.031
W870801		97	364	20	<1	493	4	51	454	0.002	0.011	0.051	0.095
W870802		81	15	10	<1	487	<2	52	71	<0.001	0.008	0.011	0.019
W870803		86	13	10	<1	519	4	54	77	<0.001	<0.005	0.007	0.018
W870804		82	12	10	<1	507	3	50	74	<0.001	0.006	0.009	0.030
W870805		81	7	10	1	506	<2	50	70	<0.001	<0.005	0.005	0.025
W870806		81	8	10	<1	484	<2	46	76	<0.001	<0.005	0.010	0.016
W870807		80	6	20	<1	524	<2	45	85	<0.001	<0.005	0.002	0.025
W870808		79	9	10	1	455	<2	46	76	<0.001	<0.005	0.002	0.022
W870809		77	391	10	<1	332	3	49	87	<0.001	0.010	0.026	0.185
W870810		72	159	20	<1	415	11	47	85	<0.001	0.010	0.013	0.129
W870811		151	257	10	<1	529	5	47	92	0.002	0.005	0.041	0.609
W870812		71	14	10	1	393	4	48	68	<0.001	<0.005	0.003	0.027
W870813		67	5	10	1	366	2	46	74	<0.001	<0.005	0.005	0.015
W870814		67	12	10	1	355	<2	52	66	<0.001	<0.005	0.003	0.024
W870815		113	4400	20	5	4240	23	12	105	0.117	0.311	0.625	5.12
W870816		66	13	10	<1	354	<2	52	67	<0.001	<0.005	0.006	0.023
W870817		65	5	10	<1	366	<2	50	72	<0.001	<0.005	0.007	0.014
W870818		63	14	10	<1	391	<2	48	74	<0.001	0.005	0.014	0.018
W870819		74	195	20	<1	418	15	45	150	0.002	0.008	0.033	0.119
W870820		88	672	10	1	547	4	47	74	0.005	0.023	0.105	0.513
W870821		101	826	10	<1	613	<2	45	75	0.006	0.037	0.100	0.775
W870822		71	229	10	1	449	<2	48	71	0.003	0.017	0.042	0.182
W870823		78	214	10	<1	500	<2	48	71	0.004	0.008	0.047	0.126
W870824		80	97	10	<1	499	2	50	77	0.002	<0.005	0.022	0.061
W870825		71	41	10	<1	445	2	49	73	<0.001	<0.005	0.010	0.037
W870826		75	59	10	<1	468	<2	45	70	<0.001	0.009	0.067	0.100
W870827		74	16	10	<1	442	5	46	71	<0.001	<0.005	0.003	0.024
W870828		66	29	10	1	408	<2	43	67	<0.001	<0.005	0.009	0.038
W870829		76	31	10	<1	461	<2	47	83	<0.001	<0.005	0.007	0.042
W870830		77	24	10	1	452	<2	45	74	<0.001	<0.005	0.004	0.029
W870831		83	19	10	<1	475	3	48	86	<0.001	<0.005	0.001	0.031
W870832		75	18	10	<1	432	<2	46	72	<0.001	<0.005	0.003	0.038
W870833		79	29	10	<1	448	4	46	76	<0.001	<0.005	0.009	0.046
W870834		81	186	10	<1	533	<2	36	73	0.002	0.005	0.018	0.263

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

Finalized Date: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042508

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
W870835		0.04	61.6	16.35	5.92	6.20	2.74	3.28	1.44	<0.01	0.49	0.12	0.13	0.06	0.06	1.16
W870836		2.50	49.9	11.55	11.70	9.98	11.50	1.55	0.59	0.11	0.31	0.20	0.02	0.03	0.02	2.54
W870837		2.55	46.3	9.97	14.25	9.49	15.25	0.80	0.37	0.20	0.44	0.23	0.04	0.01	0.01	3.72
W870838		2.69	45.7	10.80	14.65	8.98	14.05	0.94	0.55	0.18	0.41	0.22	0.01	0.02	0.02	3.29
W870839		2.48	46.2	9.61	14.25	10.80	13.85	0.73	0.69	0.23	0.38	0.21	0.02	0.01	0.02	3.61
W870840		2.44	41.2	8.23	13.90	10.85	13.00	0.41	0.39	0.22	0.29	0.18	0.02	0.01	0.01	7.45
W870841		2.74	44.9	11.25	13.05	9.63	14.35	1.05	0.40	0.16	0.22	0.19	0.02	0.02	0.01	2.97
W870842		2.67	47.6	16.60	8.86	11.25	11.20	1.46	0.42	0.08	0.20	0.15	<0.01	0.05	0.02	2.54
W870843		2.61	48.9	10.85	12.05	7.91	14.60	0.99	0.54	0.15	0.25	0.20	0.03	0.02	0.01	2.42
W870844		2.57	51.5	16.65	10.05	10.35	7.31	2.52	0.42	0.02	0.27	0.15	0.04	0.03	0.01	1.87
W870845		2.51	49.6	16.70	10.90	10.55	5.78	2.73	0.33	<0.01	0.35	0.15	0.02	0.02	0.01	1.53
W870846		2.58	48.8	16.80	12.30	9.57	6.00	2.86	0.40	<0.01	0.48	0.16	0.03	0.03	0.01	1.44
W870847		2.43	49.1	16.65	11.10	10.45	5.61	2.83	0.27	<0.01	0.58	0.16	0.01	0.02	0.01	1.27
W870848		3.74	46.5	16.45	14.90	9.89	5.10	2.79	0.24	<0.01	1.16	0.16	0.01	0.03	0.01	1.46
W870849		2.47	47.4	8.75	21.4	6.68	10.60	0.88	0.28	0.06	0.38	0.49	0.04	<0.01	0.01	3.63
W870850		3.05	73.6	2.67	17.25	1.49	2.12	0.45	0.22	0.02	0.10	0.12	0.02	<0.01	<0.01	3.51
W870851		2.83	53.5	14.50	10.70	8.07	6.51	2.45	0.55	0.04	0.36	0.15	0.03	0.01	0.01	2.06
W870852		3.00	54.0	15.15	10.05	9.59	6.01	2.71	0.60	0.03	0.64	0.17	0.04	0.02	0.01	1.37
W870853		3.00	55.8	14.90	8.40	8.70	4.50	2.69	0.82	0.02	0.56	0.15	0.03	0.02	0.01	1.94
W870854		2.52	49.0	14.00	13.15	9.21	8.97	1.80	0.61	0.05	0.58	0.20	0.03	0.02	0.02	2.22
W870855		0.08	41.7	9.24	15.25	15.75	10.90	0.59	0.24	0.11	0.68	0.14	0.13	<0.01	0.03	4.32
W870856		2.56	51.0	14.75	12.35	8.93	6.63	1.92	0.49	0.01	0.57	0.18	<0.01	0.02	0.01	2.14
W870857		2.51	49.2	14.55	14.95	8.30	7.46	1.91	0.58	0.04	0.27	0.23	0.03	0.02	0.01	2.18
W870858		1.87	32.1	8.27	37.0	7.74	7.10	0.81	0.15	0.02	0.37	0.64	0.05	0.01	<0.01	4.47
W870859		1.51	22.1	5.51	50.6	8.13	9.26	0.17	0.03	0.01	0.28	2.15	0.02	<0.01	<0.01	0.67
W870860		1.97	40.6	12.95	23.9	8.46	7.00	1.58	0.19	0.04	0.29	0.35	0.01	0.02	0.01	3.87
W870861		2.30	51.6	16.05	10.40	10.25	5.96	2.40	0.24	0.04	0.61	0.18	0.08	0.03	0.01	1.75
W870862		2.77	46.0	13.90	17.10	10.35	7.38	1.83	0.32	0.03	0.47	0.25	0.04	0.02	0.01	2.81
W870863		2.63	41.3	10.50	22.5	10.75	8.79	1.03	0.21	0.04	0.48	0.33	0.04	0.02	0.01	3.63
W870864		1.46	13.95	3.55	44.1	2.38	2.52	0.50	0.05	0.02	0.10	0.09	<0.01	<0.01	<0.01	10.80
W870865		2.82	33.6	7.96	31.0	10.65	7.28	0.65	0.10	0.02	0.39	0.26	0.03	0.01	0.01	6.06
W870866		2.44	28.5	5.85	36.8	5.70	3.89	0.64	0.17	0.02	0.19	0.16	0.03	<0.01	0.01	7.92
W870867		1.79	48.9	13.30	17.95	7.14	6.38	2.10	0.34	0.02	0.37	0.20	0.01	0.02	0.01	3.40
W870868		1.71	43.1	14.70	20.8	8.23	5.26	1.97	0.45	0.02	0.48	0.23	0.03	0.02	0.01	3.79
W870869		2.03	45.3	18.90	17.45	8.78	2.93	2.83	0.52	0.01	0.46	0.12	0.03	0.04	0.02	3.23
W870870		1.49	46.3	20.2	15.95	9.11	1.82	3.08	0.51	<0.01	0.39	0.10	0.05	0.04	0.02	3.31
W870871		2.59	47.5	20.3	14.90	8.26	1.74	3.35	0.48	0.01	0.30	0.09	0.04	0.03	0.02	3.25
W870872		0.09	46.6	12.90	20.8	6.19	6.66	2.11	0.65	0.03	1.22	0.19	0.15	0.02	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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042508

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
W870835		99.55	0.03	<0.01	562	28.9	10	0.58	3.72	2.47	0.93	17.3	3.93	<5	3.4	0.81
W870836		100.00	0.22	0.30	198.0	9.4	800	0.98	1.27	0.79	0.49	12.9	1.48	<5	0.7	0.28
W870837		101.08	0.24	0.12	114.5	12.0	1360	1.07	1.41	0.84	0.46	12.2	1.72	<5	1.0	0.30
W870838		99.82	0.19	0.20	152.0	9.1	1250	1.09	1.12	0.78	0.43	12.2	1.38	<5	0.6	0.27
W870839		100.61	0.42	0.11	129.5	10.0	1550	1.75	1.53	0.91	0.49	11.2	1.86	<5	0.8	0.31
W870840		96.16	1.44	0.50	62.2	8.0	1470	1.44	1.23	0.68	0.36	9.5	1.51	<5	0.6	0.26
W870841		98.22	0.18	0.40	112.5	7.3	1100	0.96	0.90	0.61	0.37	11.0	1.09	<5	0.9	0.20
W870842		100.43	0.13	0.01	135.5	4.9	530	0.76	0.83	0.48	0.42	14.5	0.87	<5	0.3	0.16
W870843		98.92	0.08	0.32	129.0	10.3	1020	1.28	1.03	0.72	0.34	11.3	1.11	<5	0.8	0.24
W870844		101.19	0.15	0.37	115.5	12.9	160	0.98	1.16	0.59	0.42	16.7	1.17	<5	0.9	0.24
W870845		98.67	0.13	0.81	91.1	4.5	10	0.49	0.86	0.55	0.34	16.8	0.94	<5	0.3	0.19
W870846		98.88	0.10	0.35	95.0	5.1	10	0.61	0.68	0.47	0.31	16.8	0.81	<5	0.4	0.16
W870847		98.06	0.10	0.42	78.8	3.1	10	0.41	0.82	0.49	0.37	17.8	0.75	<5	0.4	0.19
W870848		98.70	0.17	0.64	80.4	2.6	10	0.71	0.78	0.48	0.31	20.5	0.70	<5	0.3	0.17
W870849		100.60	0.21	3.23	52.1	6.1	490	0.81	0.90	0.58	0.30	12.0	0.83	<5	0.5	0.21
W870850		101.57	0.17	6.86	35.0	5.2	100	0.52	0.49	0.30	0.18	3.0	0.63	<5	0.5	0.12
W870851		98.94	0.27	0.93	116.5	10.4	260	1.13	1.21	0.77	0.54	15.4	1.11	<5	1.3	0.27
W870852		100.39	0.19	0.19	101.0	12.8	230	0.94	1.77	1.14	0.60	16.2	1.62	<5	1.0	0.38
W870853		98.54	0.26	0.01	125.0	34.0	170	1.01	2.05	1.27	0.69	16.9	2.18	<5	1.6	0.46
W870854		99.86	0.18	0.61	154.0	9.8	330	1.10	1.56	0.83	0.48	14.9	1.44	<5	0.8	0.37
W870855		99.08	0.23	2.61	298	19.6	800	0.43	2.56	1.41	0.72	12.1	2.79	<5	2.1	0.52
W870856		99.00	0.28	0.32	83.7	7.4	90	1.13	0.88	0.58	0.38	16.8	0.91	<5	0.6	0.20
W870857		99.73	0.11	2.04	115.0	13.3	290	1.31	1.42	0.83	0.42	15.5	1.40	<5	1.2	0.31
W870858		98.73	0.17	9.85	36.0	5.1	180	0.73	1.01	0.58	0.37	9.8	0.91	<5	0.5	0.21
W870859		98.93	0.12	0.74	16.2	9.1	80	0.23	1.48	0.95	0.39	8.1	1.26	<5	1.3	0.33
W870860		99.27	0.15	6.90	63.8	3.1	290	0.90	0.65	0.43	0.36	15.5	0.75	<5	0.4	0.15
W870861		99.60	0.25	0.39	55.4	9.1	250	0.61	1.97	1.16	0.80	19.5	1.72	<5	1.0	0.40
W870862		100.51	0.23	2.80	72.6	7.4	230	0.78	1.67	1.00	0.56	16.3	1.50	<5	0.9	0.37
W870863		99.63	0.24	5.03	59.3	5.7	280	0.57	1.47	1.04	0.47	13.3	1.40	<5	0.7	0.36
W870864		78.06	0.09	29.5	15.5	2.0	110	0.22	0.25	0.18	0.14	3.4	0.19	<5	<0.2	0.08
W870865		98.02	0.29	11.85	46.0	5.2	180	0.63	1.74	0.92	0.42	10.6	1.50	<5	0.7	0.33
W870866		89.88	0.12	19.45	56.9	3.5	170	0.64	0.68	0.42	0.26	7.3	0.70	<5	0.3	0.17
W870867		100.14	0.24	3.85	81.5	10.6	150	1.71	1.06	0.72	0.34	14.3	1.06	<5	1.8	0.26
W870868		99.09	0.22	4.68	125.5	8.8	150	1.43	1.22	0.75	0.48	16.8	1.10	<5	0.9	0.26
W870869		100.62	0.12	4.54	156.5	11.2	110	1.79	1.05	0.63	0.63	20.2	1.17	<5	1.5	0.26
W870870		100.88	0.10	4.13	155.0	13.0	30	1.77	1.18	0.68	0.58	21.2	1.19	<5	1.3	0.24
W870871		100.27	0.05	3.84	157.5	12.3	30	1.84	1.09	0.66	0.63	20.5	1.09	<5	0.8	0.22
W870872		98.87	0.08	1.71	223	25.7	240	0.99	2.53	1.29	1.13	17.1	2.70	<5	2.4	0.51

***** 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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042508

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
W870835		14.2	0.37	3.1	17.2	3.96	26.4	3.94	1	465	0.2	0.62	2.90	0.38	1.21	150
W870836		4.9	0.12	0.8	5.6	1.25	16.4	1.38	<1	241	<0.1	0.21	0.64	0.12	0.16	153
W870837		5.3	0.12	0.9	7.6	1.67	11.6	1.73	<1	102.5	<0.1	0.25	0.69	0.12	0.17	180
W870838		4.2	0.10	0.5	6.0	1.32	17.7	1.39	<1	148.5	<0.1	0.20	0.51	0.09	0.14	189
W870839		4.3	0.11	0.5	7.4	1.49	23.1	1.91	<1	128.0	<0.1	0.30	0.32	0.12	0.08	210
W870840		3.4	0.09	0.4	5.5	1.18	12.3	1.48	<1	74.7	<0.1	0.20	0.29	0.09	0.06	166
W870841		3.7	0.07	0.5	4.3	0.98	11.7	0.98	<1	186.5	<0.1	0.16	0.56	0.08	0.41	130
W870842		2.5	0.07	<0.2	3.2	0.64	10.6	0.80	<1	373	<0.1	0.12	0.20	0.06	0.08	128
W870843		5.4	0.09	1.2	5.3	1.22	16.1	1.09	<1	190.5	<0.1	0.17	0.74	0.08	0.19	119
W870844		6.4	0.10	1.5	6.4	1.65	9.7	1.31	<1	288	0.1	0.20	1.53	0.10	0.47	138
W870845		2.2	0.08	0.4	3.0	0.65	6.7	0.87	<1	243	<0.1	0.13	0.28	0.08	0.09	219
W870846		2.6	0.07	0.6	2.8	0.69	7.6	0.68	<1	233	<0.1	0.13	0.35	0.08	0.09	249
W870847		1.4	0.09	0.2	2.2	0.52	5.1	0.62	<1	230	<0.1	0.14	0.11	0.08	0.05	409
W870848		1.2	0.07	0.3	2.0	0.38	4.9	0.55	<1	241	<0.1	0.12	0.05	0.07	<0.05	620
W870849		3.0	0.10	0.7	3.4	0.86	9.1	0.80	<1	97.6	0.1	0.16	0.44	0.09	0.17	290
W870850		2.4	0.06	0.9	2.7	0.64	7.7	0.53	<1	19.9	<0.1	0.07	0.46	0.05	0.15	40
W870851		5.2	0.13	2.1	5.1	1.30	14.2	1.23	1	161.5	0.2	0.20	0.97	0.11	0.30	130
W870852		6.3	0.17	2.1	6.8	1.67	15.5	1.64	1	157.0	0.2	0.31	1.56	0.16	0.35	198
W870853		17.9	0.21	3.9	12.9	3.82	21.1	2.37	1	156.0	0.4	0.31	6.10	0.18	1.34	172
W870854		4.7	0.15	1.2	5.5	1.34	16.5	1.52	<1	181.5	0.1	0.24	0.59	0.15	0.17	228
W870855		10.0	0.21	6.0	10.7	2.57	4.8	2.67	2	65.9	0.4	0.44	2.00	0.19	0.95	175
W870856		4.1	0.10	1.0	3.4	0.92	13.5	0.88	<1	156.5	0.1	0.15	1.17	0.09	0.37	307
W870857		6.6	0.14	1.6	6.3	1.69	18.4	1.39	<1	194.0	0.2	0.23	1.65	0.12	0.41	124
W870858		2.3	0.10	0.7	3.0	0.71	3.7	0.85	<1	113.5	<0.1	0.16	0.26	0.09	0.08	153
W870859		3.9	0.17	2.2	5.6	1.26	1.3	1.27	1	51.6	0.2	0.23	0.52	0.14	0.09	137
W870860		1.5	0.08	0.3	2.0	0.45	5.1	0.51	<1	198.0	<0.1	0.11	0.12	0.07	<0.05	172
W870861		4.2	0.19	1.9	5.7	1.29	5.8	1.45	<1	287	0.1	0.29	0.29	0.16	0.06	185
W870862		3.3	0.17	1.1	4.8	1.07	8.4	1.41	<1	222	0.1	0.26	0.35	0.16	0.09	249
W870863		2.5	0.16	0.9	3.8	0.85	5.9	1.04	1	173.5	0.1	0.25	0.26	0.14	0.08	233
W870864		1.0	0.04	<0.2	1.0	0.24	1.9	0.23	<1	44.7	<0.1	0.05	0.22	0.03	0.10	64
W870865		2.1	0.16	0.6	3.8	0.79	3.8	1.13	1	113.5	<0.1	0.25	0.19	0.14	0.07	212
W870866		1.6	0.07	0.3	2.4	0.52	5.1	0.68	<1	77.9	<0.1	0.11	0.11	0.07	0.06	88
W870867		5.5	0.15	1.4	4.8	1.33	10.3	1.12	<1	189.5	0.2	0.18	3.29	0.12	0.79	158
W870868		4.3	0.13	1.4	4.6	1.12	12.8	1.00	<1	214	0.1	0.18	1.18	0.12	0.29	221
W870869		5.8	0.10	1.9	5.6	1.38	14.5	1.30	1	390	0.1	0.19	0.54	0.10	0.18	158
W870870		6.7	0.10	1.6	6.3	1.61	13.8	1.38	1	412	0.1	0.23	0.85	0.10	0.26	86
W870871		6.4	0.10	1.5	6.1	1.56	13.7	1.24	1	364	0.1	0.18	1.12	0.09	0.30	79
W870872		12.4	0.20	7.0	13.9	3.44	16.6	3.05	4	262	0.4	0.43	1.68	0.18	0.52	117

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

Finalized Date: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042508

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
W870835		3	21.5	2.38	120	0.8	0.04	<0.005	0.008	<0.001	0.13	<0.2	0.01	0.05	<0.5	<0.5
W870836		<1	6.9	0.78	28	2.7	0.10	<0.005	0.006	<0.001	0.05	0.5	0.06	0.12	<0.5	0.6
W870837		2	7.6	0.82	34	0.7	0.06	<0.005	<0.005	<0.001	<0.05	0.5	0.04	0.10	<0.5	<0.5
W870838		4	6.1	0.72	19	1.1	0.10	<0.005	0.009	<0.001	<0.05	0.4	0.09	0.12	<0.5	0.6
W870839		3	8.0	0.84	24	1.6	0.05	<0.005	0.007	<0.001	<0.05	0.2	0.04	0.09	<0.5	<0.5
W870840		3	6.3	0.70	16	0.9	0.19	<0.005	0.020	0.001	<0.05	0.5	0.06	0.11	0.6	0.8
W870841		2	4.8	0.55	36	0.8	0.12	<0.005	0.005	0.001	<0.05	1.0	0.10	0.15	0.5	0.8
W870842		<1	4.0	0.38	7	0.7	0.01	<0.005	<0.005	<0.001	<0.05	0.3	0.02	0.02	<0.5	<0.5
W870843		<1	5.5	0.73	30	1.3	0.13	<0.005	0.005	0.002	<0.05	1.0	0.10	0.14	0.5	0.7
W870844		1	6.1	0.67	35	1.4	0.10	0.005	<0.005	0.001	<0.05	0.5	0.06	0.10	<0.5	<0.5
W870845		8	5.1	0.54	10	0.7	0.12	0.005	0.005	0.002	<0.05	1.3	0.20	0.10	<0.5	<0.5
W870846		3	4.4	0.46	14	0.6	0.06	<0.005	0.007	0.001	<0.05	0.6	0.10	0.07	<0.5	0.5
W870847		3	4.8	0.57	11	0.6	0.08	<0.005	0.006	0.001	<0.05	0.7	0.09	0.07	<0.5	0.6
W870848		10	4.5	0.41	7	0.4	0.16	0.005	0.006	0.001	<0.05	1.0	0.21	0.08	<0.5	1.3
W870849		2	5.4	0.66	16	0.8	0.23	<0.005	0.019	0.002	0.05	3.8	0.34	0.22	0.8	1.9
W870850		<1	3.1	0.40	20	1.2	0.46	<0.005	0.013	0.006	0.08	3.8	0.38	0.19	0.6	<0.5
W870851		2	7.3	0.78	42	1.5	0.11	<0.005	0.010	0.002	0.08	1.0	0.10	0.15	<0.5	1.0
W870852		1	10.2	1.19	27	3.7	0.05	<0.005	0.010	<0.001	0.08	0.2	0.03	0.08	<0.5	0.9
W870853		6	12.6	1.39	40	4.6	0.05	<0.005	0.009	0.001	0.09	<0.2	0.01	0.03	<0.5	1.1
W870854		2	9.0	0.94	26	1.2	0.10	<0.005	0.007	0.001	0.07	0.6	0.06	0.08	<0.5	1.0
W870855		3	14.5	1.37	78	55.2	0.31	0.137	0.049	0.017	1.31	12.6	1.25	0.06	3.9	2.0
W870856		1	5.3	0.70	15	1.4	0.06	<0.005	0.007	0.001	0.05	0.6	0.04	0.06	<0.5	1.1
W870857		2	8.3	0.91	39	1.0	0.29	<0.005	0.012	0.003	0.05	2.2	0.17	0.09	0.8	1.6
W870858		1	6.3	0.53	18	1.3	1.41	0.005	0.016	0.007	<0.05	3.1	0.52	0.09	3.6	3.3
W870859		1	12.5	0.84	51	2.6	0.08	<0.005	0.020	0.001	<0.05	0.6	0.05	0.02	0.6	2.7
W870860		1	4.3	0.51	14	0.8	0.72	0.005	0.012	0.007	<0.05	4.1	0.44	0.07	2.8	1.8
W870861		3	10.7	1.21	34	1.3	0.09	<0.005	0.009	<0.001	<0.05	0.7	0.06	0.02	<0.5	1.2
W870862		4	9.9	1.12	29	0.8	0.35	<0.005	0.012	0.002	<0.05	2.7	0.26	0.04	1.5	1.8
W870863		1	9.8	1.04	24	1.2	0.65	<0.005	0.012	0.002	<0.05	3.9	0.33	0.04	1.7	2.0
W870864		1	1.9	0.20	5	0.4	1.15	0.007	<0.005	0.007	<0.05	8.4	1.31	0.02	0.9	0.6
W870865		<1	9.8	0.93	23	2.5	1.05	0.006	0.025	0.002	<0.05	3.1	0.56	0.04	3.4	2.8
W870866		1	4.5	0.42	10	1.4	1.05	0.007	0.013	0.004	<0.05	3.2	0.62	0.05	2.9	2.3
W870867		1	7.0	0.84	61	1.1	0.24	<0.005	0.016	0.001	<0.05	1.4	0.11	0.05	0.6	1.4
W870868		3	7.5	0.79	31	1.1	0.64	<0.005	0.022	0.003	<0.05	2.5	0.32	0.09	3.4	1.0
W870869		1	6.4	0.60	58	0.6	0.49	<0.005	0.011	0.004	<0.05	6.5	0.85	0.09	1.6	1.0
W870870		5	6.5	0.71	53	0.4	0.42	<0.005	0.017	0.004	<0.05	7.7	1.42	0.13	1.6	1.3
W870871		2	6.1	0.60	27	0.4	0.33	<0.005	0.017	0.003	<0.05	7.1	0.88	0.12	<0.5	1.2
W870872		5	13.7	1.33	99	3.4	0.71	0.009	0.054	0.004	0.27	4.1	0.54	0.08	1.9	2.0

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042508

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
W870835		13	91	10	2	7	8	17	61	0.006	<0.005	0.001	0.021
W870836		65	380	10	1	443	2	30	76	0.006	0.010	0.029	0.371
W870837		69	186	20	1	490	5	28	82	0.003	0.007	0.015	0.186
W870838		74	363	20	<1	485	<2	28	76	0.009	0.012	0.028	0.362
W870839		73	140	10	1	386	3	39	70	0.001	<0.005	0.009	0.115
W870840		100	634	20	<1	737	<2	35	71	0.013	0.009	0.036	0.575
W870841		93	644	20	1	713	2	26	77	0.017	0.030	0.068	0.583
W870842		46	30	10	<1	245	<2	21	62	<0.001	<0.005	0.006	0.018
W870843		80	490	10	<1	586	<2	28	94	0.016	0.013	0.041	0.641
W870844		55	361	20	1	279	2	27	56	0.022	0.017	0.015	0.533
W870845		67	699	10	1	402	<2	29	51	0.023	0.040	0.044	1.120
W870846		54	366	10	1	240	<2	24	63	0.012	0.028	0.021	0.510
W870847		50	262	10	<1	238	<2	29	54	0.009	0.012	0.024	0.613
W870848		57	340	10	<1	264	7	29	81	0.011	0.033	0.021	0.993
W870849		70	1860	20	1	452	2	33	354	0.012	<0.005	0.036	3.43
W870850		97	1190	10	2	806	<2	6	69	0.007	0.020	0.050	3.12
W870851		65	555	10	<1	377	5	21	86	0.005	0.010	0.018	0.950
W870852		46	122	10	<1	151	4	29	80	<0.001	0.006	0.009	0.250
W870853		30	28	20	<1	57	9	24	66	<0.001	<0.005	0.004	0.023
W870854		75	276	20	<1	364	4	23	95	0.002	<0.005	0.011	0.584
W870855		156	5830	40	3	2230	7	25	79	0.102	0.739	0.379	11.75
W870856		63	207	20	<1	168	<2	30	81	0.002	0.018	0.016	0.412
W870857		79	1580	10	<1	459	9	24	94	0.010	0.115	0.054	1.755
W870858		218	7060	10	<1	1760	<2	18	81	0.044	0.204	0.153	2.11
W870859		64	547	<10	<1	134	2	6	53	0.008	<0.005	0.006	0.297
W870860		166	5490	10	<1	1175	3	21	82	0.048	0.010	0.121	3.45
W870861		51	384	10	<1	176	4	28	94	0.002	0.006	0.007	0.451
W870862		90	3030	10	<1	504	3	32	91	0.024	0.007	0.052	2.44
W870863		145	3510	10	<1	841	2	25	83	0.038	0.027	0.077	3.07
W870864		623	1550	10	<1	5350	<2	7	17	0.008	0.011	0.503	0.003
W870865		469	6730	10	<1	1695	5	25	122	0.108	0.057	0.200	2.23
W870866		444	5890	10	<1	3280	3	13	72	0.055	0.117	0.202	1.840
W870867		106	1095	20	<1	739	11	24	86	0.010	0.011	0.047	1.180
W870868		143	6500	10	<1	720	3	20	94	0.064	0.030	0.073	1.850
W870869		116	2780	10	<1	797	13	12	63	0.015	0.147	0.128	5.39
W870870		110	3770	20	<1	688	12	10	66	0.024	0.189	0.157	6.77
W870871		131	1770	20	<1	657	13	10	69	0.015	0.167	0.089	5.96
W870872		118	4750	20	4	4640	28	12	111	0.070	0.295	0.617	4.60

***** 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: 12-MAR-2018
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CERTIFICATE OF ANALYSIS TB18042508

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		