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: 9-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18042511

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 TB18042511

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
W870873		0.04	62.6	16.45	5.98	6.20	2.74	3.36	1.51	<0.01	0.50	0.13	0.15	0.05	0.07	1.01
W870874		0.08	42.4	9.21	15.40	15.75	10.90	0.65	0.25	0.11	0.69	0.14	0.12	<0.01	0.03	3.35
W870875		2.46	47.8	20.0	15.90	9.17	1.75	3.24	0.45	0.01	0.32	0.09	0.06	0.05	0.02	2.04
W870876		2.67	45.7	19.75	16.60	9.49	1.64	3.14	0.48	0.01	0.45	0.09	0.05	0.05	0.02	4.43
W870877		1.88	44.3	19.55	16.65	9.08	1.79	3.10	0.52	<0.01	0.58	0.09	0.05	0.05	0.02	3.28
W870878		2.44	46.3	20.4	15.30	9.40	1.78	3.26	0.37	<0.01	0.39	0.09	0.05	0.05	0.02	2.21
W870879		2.08	48.1	21.1	12.70	9.60	1.63	3.38	0.39	<0.01	0.34	0.09	0.05	0.06	0.02	2.24
W870880		2.76	48.5	21.0	8.48	10.40	1.89	3.94	0.59	<0.01	0.31	0.09	0.07	0.05	0.02	3.16
W870881		2.17	49.3	21.3	6.93	8.66	1.85	4.56	1.05	<0.01	0.28	0.08	0.08	0.06	0.03	4.20
W870882		2.34	50.3	20.8	6.58	9.12	2.19	4.28	1.12	<0.01	0.27	0.08	0.07	0.05	0.04	5.01
W870883		2.01	52.9	21.3	7.23	9.75	2.45	3.87	0.55	0.01	0.36	0.11	0.09	0.06	0.02	1.30
W870884		1.74	51.2	20.1	9.05	9.85	3.12	3.77	0.61	0.01	0.37	0.13	0.06	0.06	0.02	1.97
W870885		2.04	51.1	20.8	8.14	9.64	2.72	3.93	0.70	0.01	0.34	0.12	0.06	0.06	0.02	2.08
W870886		2.23	56.7	18.45	6.79	7.73	2.12	4.35	0.61	<0.01	0.69	0.07	0.33	0.11	0.03	2.24
W870887		1.49	50.5	19.35	9.29	8.97	2.82	3.54	1.06	0.01	0.40	0.11	0.07	0.05	0.02	3.62
W870888		3.08	48.8	17.70	12.90	6.48	6.70	1.83	1.21	0.05	0.54	0.15	0.12	0.03	0.04	3.61
W870889		1.16	50.9	20.00	11.60	8.14	2.82	3.09	0.67	0.01	0.56	0.12	0.10	0.05	0.02	2.37
W870890		1.47	51.8	15.15	12.50	7.36	7.32	1.43	1.25	0.02	0.42	0.18	0.11	0.02	0.04	3.46
W870891		2.67	52.8	20.4	8.04	9.19	2.59	3.30	0.93	0.01	0.38	0.11	0.07	0.05	0.03	1.97
W870892		2.34	50.1	20.3	11.65	9.13	2.12	3.38	0.73	0.01	0.37	0.10	0.06	0.06	0.03	2.14
W870893		0.09	46.7	12.55	20.5	6.22	6.55	2.18	0.62	0.03	1.25	0.20	0.17	0.03	0.02	1.09
W870894		2.33	49.6	20.6	11.45	7.64	1.93	3.65	0.92	<0.01	0.33	0.09	0.07	0.06	0.03	3.45
W870895		2.34	48.1	20.8	12.85	7.83	1.74	3.73	0.65	<0.01	0.34	0.09	0.06	0.06	0.03	3.68
W870896		2.35	48.9	20.5	12.20	9.28	2.01	3.39	0.60	0.01	0.31	0.10	0.04	0.05	0.02	2.49
W870897		2.21	49.1	20.3	12.30	9.37	1.99	3.35	0.51	0.01	0.29	0.09	0.06	0.05	0.02	1.80
W870898		2.33	48.9	20.1	12.30	9.42	2.02	3.27	0.47	0.01	0.28	0.10	0.06	0.05	0.02	2.21
W870899		2.35	48.5	20.1	13.65	9.49	2.07	3.30	0.54	<0.01	0.29	0.10	0.04	0.05	0.02	2.45
W870900		2.38	47.6	20.1	14.00	9.05	1.97	3.35	0.60	<0.01	0.26	0.10	0.07	0.05	0.02	2.67
W870901		2.33	46.9	19.60	13.90	9.09	2.11	3.21	0.47	0.01	0.27	0.11	0.06	0.05	0.02	2.66
W870902		2.22	49.3	20.5	11.85	9.33	2.21	3.37	0.56	0.01	0.27	0.11	0.10	0.05	0.02	2.10
W870903		2.24	43.4	16.45	22.0	7.43	1.70	2.65	0.52	<0.01	0.30	0.09	0.07	0.04	0.02	4.93
W870904		2.43	47.7	19.35	14.05	8.64	2.56	3.16	0.59	0.01	0.36	0.12	0.12	0.05	0.02	3.19
W870905		2.06	47.5	19.60	14.60	8.78	2.26	3.16	0.64	0.01	0.42	0.11	0.11	0.05	0.02	3.04
W870906		2.55	47.5	21.3	9.57	8.89	2.28	4.13	1.31	<0.01	0.33	0.10	0.13	0.05	0.04	4.02
W870907		2.59	51.7	20.4	10.70	9.43	2.67	3.27	0.66	0.01	0.52	0.13	0.07	0.05	0.02	1.31
W870908		2.18	46.8	18.75	10.55	13.25	3.01	2.08	0.48	0.01	0.57	0.14	0.08	0.02	0.01	3.43
W870909		2.35	51.7	19.65	10.15	9.66	3.14	3.02	0.73	0.01	0.51	0.15	0.12	0.05	0.02	1.82
W870910		2.38	52.1	19.15	10.20	9.84	3.44	3.04	0.72	0.01	0.46	0.15	0.11	0.05	0.02	1.66
W870911		2.27	51.8	19.30	9.55	9.63	3.24	3.07	0.80	0.01	0.42	0.14	0.11	0.05	0.02	2.11
W870912		2.27	53.0	20.3	9.31	10.20	2.96	3.21	0.59	0.01	0.39	0.13	0.11	0.05	0.02	0.89

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Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042511

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
W870873		100.75	0.04	0.01	609	27.5	10	0.69	3.89	2.53	0.99	16.6	4.04	<5	3.4	0.87
W870874		99.00	0.30	2.62	289	18.8	760	0.43	2.45	1.39	0.73	10.8	2.57	<5	2.0	0.54
W870875		100.90	0.03	3.84	182.0	13.6	40	1.50	1.26	0.69	0.63	19.5	1.32	<5	0.9	0.23
W870876		101.90	0.06	4.53	166.0	11.4	30	1.34	1.11	0.64	0.65	20.2	1.12	<5	0.7	0.23
W870877		99.06	0.30	4.90	168.0	9.5	30	1.27	0.97	0.62	0.62	19.1	1.15	<5	0.6	0.22
W870878		99.62	0.04	3.90	155.5	10.7	30	1.11	1.00	0.58	0.59	20.0	1.01	<5	0.6	0.20
W870879		99.70	0.11	3.08	160.5	10.6	30	1.22	0.94	0.52	0.66	20.4	1.11	<5	0.9	0.23
W870880		98.50	0.46	0.39	177.5	12.7	30	1.07	1.15	0.75	0.69	21.4	1.32	<5	0.9	0.25
W870881		98.38	0.45	0.06	268	14.8	30	1.38	1.27	0.76	0.68	20.4	1.43	<5	1.3	0.29
W870882		99.91	0.79	0.05	311	13.5	30	1.29	1.23	0.78	0.70	20.5	1.25	<5	0.9	0.27
W870883		100.00	0.11	0.01	208	15.9	40	0.75	1.46	0.89	0.79	20.7	1.53	<5	1.1	0.30
W870884		100.32	0.19	0.06	183.5	16.6	50	0.57	1.52	0.89	0.71	20.9	1.58	<5	1.3	0.34
W870885		99.72	0.21	0.05	198.0	17.2	40	0.56	1.49	0.85	0.81	20.3	1.67	<5	1.1	0.30
W870886		100.22	0.28	0.63	238	97.9	10	0.79	1.88	0.70	1.88	20.1	4.27	<5	3.6	0.31
W870887		99.81	0.43	0.82	204	15.8	50	1.24	1.34	0.80	0.69	20.7	1.28	<5	1.3	0.27
W870888		100.16	0.09	0.15	316	23.8	340	1.47	1.10	0.72	1.01	21.4	1.56	<5	1.3	0.26
W870889		100.45	0.12	1.00	216	17.5	40	1.64	1.18	0.69	0.72	21.6	1.40	<5	1.1	0.23
W870890		101.06	0.11	0.16	399	18.1	150	1.00	1.30	0.86	1.02	18.9	1.82	5	0.7	0.29
W870891		99.87	0.10	0.15	254	17.0	50	1.20	1.57	0.82	0.73	21.3	1.64	<5	1.2	0.31
W870892		100.18	0.03	2.44	244	13.8	30	1.39	1.35	0.83	0.72	21.2	1.46	<5	0.8	0.28
W870893		98.11	0.07	1.63	214	24.7	230	0.86	2.36	1.30	1.05	15.3	2.76	<5	2.2	0.48
W870894		99.82	0.17	2.70	271	13.0	30	1.57	1.23	0.80	0.70	21.6	1.31	<5	0.9	0.27
W870895		99.96	0.10	3.13	236	12.6	30	1.37	1.03	0.69	0.67	20.3	1.26	<5	0.9	0.24
W870896		99.90	0.12	2.31	206	12.5	30	1.16	1.17	0.70	0.72	21.0	1.32	<5	1.0	0.26
W870897		99.24	0.08	2.50	187.0	12.8	30	0.98	1.28	0.80	0.70	20.3	1.28	<5	0.9	0.26
W870898		99.21	0.09	2.71	172.0	12.3	30	1.11	1.33	0.72	0.77	19.9	1.31	<5	0.8	0.27
W870899		100.60	0.06	2.84	178.0	10.7	30	1.22	1.03	0.67	0.63	18.6	1.26	<5	0.9	0.24
W870900		99.84	0.05	3.29	207	11.3	30	1.21	1.02	0.69	0.77	19.8	1.19	<5	0.8	0.26
W870901		98.46	0.15	3.02	182.5	10.7	30	1.31	1.07	0.67	0.67	18.9	1.21	<5	0.7	0.23
W870902		99.78	0.08	2.21	187.0	11.4	30	1.41	1.17	0.67	0.73	19.6	1.25	<5	0.8	0.23
W870903		99.60	0.12	7.77	162.5	9.0	20	1.39	0.87	0.49	0.63	17.6	1.02	<5	0.5	0.19
W870904		99.92	0.31	2.89	187.5	13.3	40	1.61	1.27	0.81	0.71	19.7	1.48	<5	0.9	0.29
W870905		100.30	0.16	2.80	180.5	12.2	40	1.66	1.14	0.72	0.77	20.0	1.29	<5	0.7	0.25
W870906		99.65	0.90	1.31	321	14.0	30	1.75	1.26	0.83	0.75	20.9	1.38	<5	0.9	0.28
W870907		100.94	0.07	0.22	205	12.0	50	1.37	1.25	0.77	0.75	21.2	1.30	<5	1.2	0.28
W870908		99.18	0.17	0.06	97.6	10.0	70	0.80	1.08	0.66	0.67	21.4	1.15	<5	0.6	0.25
W870909		100.73	0.11	0.05	208	13.4	60	1.15	1.47	0.92	0.80	20.1	1.65	<5	1.0	0.33
W870910		100.95	0.15	0.02	201	14.1	50	1.15	1.71	1.10	0.81	19.9	1.80	<5	1.1	0.40
W870911		100.25	0.14	0.04	206	14.4	50	1.28	1.64	0.93	0.78	19.9	1.86	<5	1.1	0.37
W870912		101.17	0.03	0.05	207	15.8	50	0.88	1.81	1.07	0.87	21.8	2.05	<5	1.0	0.39

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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
W870873		12.5	0.44	3.4	17.2	3.75	27.3	3.96	1	469	0.2	0.61	2.89	0.41	1.14	157
W870874		8.8	0.21	5.9	10.8	2.34	4.8	2.45	2	60.7	0.5	0.43	1.86	0.21	0.88	183
W870875		6.6	0.12	1.4	7.0	1.62	11.6	1.56	1	391	0.1	0.19	1.34	0.09	0.30	103
W870876		5.6	0.10	1.3	5.9	1.35	12.6	1.31	1	388	0.1	0.17	0.93	0.10	0.67	114
W870877		4.7	0.08	1.3	5.0	1.21	14.3	1.17	1	389	0.1	0.16	0.63	0.10	0.24	104
W870878		5.3	0.10	1.2	5.3	1.28	8.0	1.24	1	413	0.1	0.14	0.78	0.08	0.21	80
W870879		5.3	0.09	1.2	5.3	1.22	9.2	1.06	1	451	0.1	0.15	0.73	0.11	0.22	76
W870880		6.1	0.13	1.2	6.1	1.44	16.3	1.35	1	399	0.1	0.19	0.85	0.10	0.29	113
W870881		6.9	0.15	1.4	7.5	1.87	33.3	1.47	1	472	0.1	0.24	1.01	0.12	0.29	107
W870882		6.5	0.13	1.5	7.0	1.70	31.7	1.56	1	463	0.1	0.21	1.41	0.12	0.34	95
W870883		7.7	0.16	1.8	7.6	1.90	12.6	1.86	1	473	0.1	0.27	1.24	0.13	0.30	91
W870884		7.5	0.15	1.7	8.3	2.02	13.9	1.85	1	499	0.1	0.26	1.13	0.14	0.33	117
W870885		8.3	0.14	1.8	8.6	2.14	16.6	1.88	1	527	0.1	0.26	1.32	0.13	0.37	102
W870886		45.1	0.09	6.7	49.1	12.15	14.9	7.84	1	937	0.3	0.45	8.30	0.11	1.99	100
W870887		7.6	0.13	1.7	7.7	1.91	35.4	1.66	1	413	0.1	0.23	1.33	0.13	0.37	102
W870888		11.8	0.14	1.8	11.4	2.88	40.2	2.12	<1	251	0.1	0.21	1.22	0.11	0.35	208
W870889		8.6	0.11	1.7	8.2	1.96	17.7	1.61	<1	388	0.1	0.20	1.24	0.12	0.39	200
W870890		8.9	0.16	0.6	9.4	2.24	41.5	1.99	<1	208	<0.1	0.20	0.63	0.15	0.14	249
W870891		8.2	0.12	1.7	8.1	2.06	27.0	1.78	1	447	0.1	0.28	1.42	0.13	0.37	126
W870892		6.7	0.14	1.5	6.9	1.73	19.0	1.71	1	481	0.1	0.22	0.92	0.11	0.27	96
W870893		11.3	0.19	6.7	13.1	3.10	16.0	3.06	3	239	0.4	0.43	1.44	0.21	0.44	123
W870894		6.4	0.12	1.5	6.6	1.62	27.2	1.44	1	486	0.1	0.21	0.95	0.11	0.27	91
W870895		6.0	0.11	1.3	6.0	1.58	18.9	1.50	1	491	0.1	0.19	0.93	0.11	0.27	97
W870896		6.2	0.11	1.3	6.3	1.53	16.2	1.35	1	450	0.1	0.21	0.84	0.11	0.28	102
W870897		6.1	0.11	1.5	6.5	1.57	12.7	1.39	1	436	0.1	0.19	0.85	0.10	0.27	100
W870898		6.1	0.12	1.4	6.4	1.48	12.1	1.36	1	423	0.1	0.17	0.97	0.11	0.28	106
W870899		5.3	0.12	1.2	5.8	1.29	13.9	1.31	1	397	0.1	0.18	0.80	0.10	0.21	128
W870900		5.5	0.10	1.1	6.0	1.34	16.3	1.35	1	452	0.1	0.18	0.79	0.10	0.20	133
W870901		5.4	0.10	1.0	5.2	1.29	11.9	1.13	1	417	0.1	0.17	0.80	0.10	0.20	132
W870902		5.8	0.10	1.0	6.3	1.55	13.6	1.16	1	460	0.1	0.19	0.77	0.10	0.23	113
W870903		4.6	0.08	1.0	4.8	1.21	13.9	0.92	1	372	0.1	0.16	0.43	0.07	0.13	122
W870904		6.8	0.12	1.1	6.9	1.78	15.7	1.34	1	427	0.1	0.22	0.77	0.11	0.23	123
W870905		6.3	0.09	1.4	6.1	1.56	17.3	1.42	1	444	0.1	0.20	0.76	0.09	0.23	148
W870906		7.3	0.12	1.3	7.0	1.79	36.4	1.43	1	436	0.1	0.21	1.20	0.10	0.34	123
W870907		6.4	0.13	1.4	6.1	1.51	17.1	1.34	1	447	0.1	0.23	1.01	0.11	0.36	236
W870908		5.3	0.11	1.3	5.2	1.26	14.9	1.14	1	200.0	0.1	0.17	0.78	0.10	0.25	208
W870909		6.7	0.15	1.4	7.1	1.79	20.6	1.53	1	411	0.1	0.25	0.92	0.13	0.29	184
W870910		6.9	0.17	1.6	8.1	1.98	17.5	1.79	1	410	0.1	0.29	0.96	0.14	0.31	173
W870911		7.3	0.14	1.5	7.8	1.98	22.3	1.81	1	403	0.1	0.27	0.99	0.13	0.26	157
W870912		7.8	0.16	1.6	8.8	2.05	14.7	1.97	1	449	0.1	0.30	1.20	0.15	0.29	174

***** 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: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042511

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
W870873		5	23.0	2.53	127	0.7	0.08	<0.005	0.009	<0.001	0.11	<0.2	<0.01	0.05	<0.5	<0.5
W870874		3	14.2	1.45	77	43.3	0.32	0.116	0.049	0.016	1.40	11.8	1.26	0.07	2.5	1.1
W870875		1	6.6	0.71	32	0.2	0.41	<0.005	0.014	0.002	<0.05	7.5	1.10	0.10	0.5	<0.5
W870876		1	5.9	0.62	26	0.1	0.99	<0.005	0.013	0.002	<0.05	9.2	1.61	0.09	0.8	0.8
W870877		1	5.5	0.52	24	<0.1	0.91	<0.005	0.008	0.002	<0.05	8.2	1.24	0.12	2.8	1.1
W870878		1	5.6	0.56	22	0.2	0.66	<0.005	0.008	0.002	<0.05	8.4	1.14	0.09	<0.5	1.0
W870879		1	5.4	0.66	33	0.3	0.43	<0.005	0.007	0.002	<0.05	6.6	0.98	0.11	0.6	0.9
W870880		1	6.5	0.84	37	0.4	0.11	<0.005	0.011	<0.001	<0.05	1.0	0.14	0.04	<0.5	<0.5
W870881		1	7.5	0.88	48	0.3	0.03	0.005	0.012	<0.001	0.07	<0.2	0.03	0.02	<0.5	<0.5
W870882		1	7.1	0.78	33	0.5	0.03	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
W870883		<1	8.4	0.93	38	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870884		1	8.4	0.94	47	0.5	0.02	0.006	0.008	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	0.7
W870885		1	8.2	0.91	43	0.6	0.02	0.008	0.007	0.001	0.08	<0.2	0.01	<0.02	<0.5	<0.5
W870886		1	8.5	0.63	137	0.6	0.13	0.006	0.013	<0.001	<0.05	0.5	0.15	0.04	0.5	0.8
W870887		2	7.5	0.83	42	0.5	0.08	0.005	0.010	0.001	0.05	1.3	0.09	0.05	<0.5	0.5
W870888		1	6.3	0.78	41	0.7	0.03	<0.005	0.012	0.001	<0.05	0.4	0.04	0.02	<0.5	1.1
W870889		<1	6.9	0.72	40	0.9	0.10	0.006	0.010	0.001	0.11	1.7	0.12	0.09	<0.5	<0.5
W870890		1	7.5	0.91	23	0.6	0.04	<0.005	0.010	0.001	<0.05	<0.2	0.02	0.03	<0.5	0.8
W870891		1	8.2	0.89	43	0.7	0.12	0.010	0.007	<0.001	0.17	0.2	0.04	0.03	<0.5	<0.5
W870892		1	7.2	0.83	31	0.7	0.96	0.010	0.009	0.001	0.12	6.2	0.95	0.13	0.8	0.7
W870893		3	12.8	1.19	91	4.4	0.95	0.016	0.067	0.005	0.31	5.4	0.77	0.10	2.1	1.9
W870894		1	6.9	0.73	34	0.8	1.39	0.005	0.013	0.001	0.06	6.7	0.97	0.10	0.5	0.6
W870895		1	6.3	0.63	36	1.0	1.19	0.007	0.024	0.002	0.09	8.0	0.86	0.16	2.2	1.0
W870896		1	6.7	0.73	37	0.5	2.30	0.006	0.021	0.001	<0.05	5.4	0.90	0.13	1.1	1.0
W870897		<1	6.6	0.71	33	0.4	0.94	0.006	0.018	0.001	<0.05	6.9	0.97	0.13	0.6	1.1
W870898		<1	6.8	0.70	32	0.6	0.54	0.005	0.013	0.001	<0.05	7.4	1.12	0.12	0.8	1.0
W870899		1	6.2	0.68	38	0.6	0.41	0.006	0.011	0.001	<0.05	7.9	1.33	0.13	0.7	1.0
W870900		1	6.0	0.70	31	0.6	0.56	0.009	0.014	0.001	0.06	8.5	1.37	0.14	0.9	0.9
W870901		<1	6.1	0.66	27	1.0	0.92	0.012	0.021	0.001	0.09	7.9	1.51	0.19	1.5	1.3
W870902		<1	6.7	0.59	27	0.5	1.14	<0.005	0.015	0.001	<0.05	6.3	1.31	0.14	0.9	1.0
W870903		2	5.2	0.50	17	1.0	1.28	0.013	0.020	0.004	<0.05	22.5	1.76	0.27	3.1	1.1
W870904		<1	7.2	0.76	28	0.4	1.25	0.005	0.024	0.001	<0.05	5.8	1.02	0.14	1.1	1.0
W870905		<1	6.7	0.67	24	0.7	1.69	0.009	0.019	0.001	<0.05	9.0	1.65	0.25	3.3	1.9
W870906		1	6.9	0.70	36	0.8	0.43	<0.005	0.018	0.001	<0.05	2.1	0.36	0.09	1.0	0.9
W870907		<1	6.9	0.79	41	0.6	0.14	0.005	0.013	<0.001	<0.05	0.5	0.11	0.07	0.7	1.1
W870908		<1	6.5	0.67	20	0.7	0.04	0.005	0.020	<0.001	<0.05	<0.2	0.02	0.02	<0.5	0.8
W870909		1	8.8	0.98	36	0.6	0.02	<0.005	0.008	0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.9
W870910		<1	10.0	1.08	37	0.7	0.03	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.7
W870911		<1	9.4	1.05	38	0.8	0.02	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.03	<0.5	0.7
W870912		3	9.8	1.10	39	0.8	0.01	<0.005	0.007	0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042511

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
W870873		15	96	10	2	5	<2	17	65	<0.001	<0.005	0.001	0.027
W870874		152	5530	40	3	2060	3	25	75	0.103	0.700	0.371	11.45
W870875		118	1310	10	<1	645	13	10	55	0.008	0.113	0.088	7.13
W870876		130	2000	10	<1	776	17	10	61	0.013	0.113	0.078	8.36
W870877		123	6490	10	<1	758	17	10	55	0.035	0.291	0.021	7.77
W870878		138	1215	10	<1	724	17	9	41	0.013	0.111	0.059	7.43
W870879		105	1855	10	1	610	16	9	45	0.025	0.221	0.067	5.82
W870880		33	249	20	<1	237	7	10	41	0.003	0.052	0.069	0.995
W870881		19	24	30	<1	69	2	10	29	<0.001	0.015	0.031	0.069
W870882		19	72	20	<1	54	4	11	41	<0.001	<0.005	0.002	0.055
W870883		22	12	10	<1	35	3	12	45	<0.001	<0.005	0.005	0.022
W870884		30	55	10	<1	73	9	14	54	<0.001	<0.005	0.005	0.073
W870885		23	15	10	<1	54	4	13	47	<0.001	<0.005	0.005	0.047
W870886		36	400	10	<1	180	17	5	113	0.001	<0.005	0.012	0.566
W870887		58	211	20	<1	264	10	12	95	0.003	<0.005	0.017	1.180
W870888		47	66	30	<1	173	<2	21	91	<0.001	0.005	0.008	0.257
W870889		83	222	20	<1	315	8	11	64	0.001	0.035	0.015	1.325
W870890		51	103	30	<1	108	5	25	97	0.011	0.007	0.003	0.231
W870891		26	120	10	<1	64	6	13	54	0.003	<0.005	0.009	0.295
W870892		102	1615	10	<1	710	10	12	53	0.044	0.049	0.083	5.03
W870893		114	4680	20	3	4530	27	12	110	0.082	0.299	0.594	5.08
W870894		172	886	20	<1	594	9	11	47	0.044	0.056	0.064	5.43
W870895		153	4630	20	<1	684	11	11	89	0.109	0.111	0.046	6.39
W870896		111	2880	10	<1	627	10	11	60	0.178	0.044	0.039	4.67
W870897		103	1855	10	<1	753	10	12	59	0.056	0.023	0.079	5.65
W870898		111	2160	10	<1	794	29	12	67	0.049	0.390	0.155	6.16
W870899		134	1810	10	<1	895	26	11	63	0.032	0.398	0.166	6.68
W870900		137	2100	10	<1	952	33	10	63	0.038	0.213	0.151	7.11
W870901		123	3120	10	<1	829	28	11	144	0.081	0.140	0.105	6.75
W870902		95	1925	10	<1	633	34	11	73	0.051	0.272	0.143	5.43
W870903		551	4770	20	<1	1550	8	9	67	0.171	0.018	0.040	15.45
W870904		151	1545	20	<1	737	17	13	68	0.039	0.031	0.029	5.11
W870905		76	3530	20	1	806	25	11	87	0.131	0.061	0.169	6.89
W870906		40	1020	20	<1	276	24	11	79	0.067	0.034	0.033	1.765
W870907		32	567	10	<1	116	14	14	87	0.034	0.010	0.016	0.623
W870908		28	125	30	<1	56	8	16	85	0.010	<0.005	0.004	0.128
W870909		28	71	20	<1	33	5	17	79	<0.001	<0.005	0.006	0.097
W870910		28	48	20	<1	36	8	19	77	<0.001	<0.005	0.007	0.052
W870911		28	60	20	<1	31	5	18	71	<0.001	0.006	0.008	0.081
W870912		27	65	10	1	33	7	17	74	<0.001	<0.005	0.004	0.088

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042511

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
W870913		0.04	62.7	16.55	6.04	6.24	2.74	3.36	1.50	<0.01	0.50	0.13	0.15	0.06	0.07	1.03
W870914		2.22	52.1	20.3	10.10	9.62	2.85	3.29	0.65	0.01	0.42	0.13	0.12	0.05	0.03	1.55
W870915		2.45	51.5	20.1	10.40	9.21	2.76	3.41	0.86	0.01	0.42	0.12	0.11	0.05	0.03	2.36
W870916		2.31	51.6	19.95	10.40	9.64	2.81	3.13	0.78	0.01	0.43	0.13	0.10	0.05	0.03	1.91
W870917		2.33	51.1	19.85	11.80	9.33	2.51	3.26	0.68	0.01	0.74	0.13	0.11	0.05	0.03	1.17
W870918		2.35	55.1	20.4	8.33	9.52	2.36	3.37	0.83	<0.01	0.49	0.12	0.12	0.05	0.04	1.20
W870919		2.25	53.7	18.90	9.22	9.20	2.54	2.95	1.39	0.01	0.57	0.13	0.12	0.05	0.05	1.29
W870920		2.21	52.4	18.80	10.20	8.94	2.52	2.93	1.33	0.01	0.65	0.14	0.10	0.05	0.05	2.84
W870921		1.96	51.7	19.00	9.41	8.96	2.51	3.54	0.92	0.01	0.60	0.12	0.11	0.05	0.03	3.58
W870922		1.55	54.5	19.25	9.72	9.15	2.46	3.22	0.71	0.01	0.59	0.12	0.11	0.05	0.03	0.86
W870923		2.19	38.8	9.45	38.0	5.06	5.37	1.02	0.25	0.04	0.39	0.12	0.25	0.03	0.01	0.91
W870924		1.65	46.3	14.25	18.45	7.72	7.89	1.67	0.48	0.08	0.48	0.15	0.24	0.04	0.02	2.29
W870925		2.25	53.4	18.45	8.82	8.58	2.31	3.16	0.94	0.01	0.58	0.11	0.11	0.05	0.03	1.58
W870926		2.32	55.4	20.1	8.70	9.20	2.26	3.46	0.77	0.01	0.58	0.11	0.13	0.05	0.03	0.91
W870927		2.35	54.3	19.75	7.99	9.17	2.22	3.32	0.78	<0.01	0.52	0.11	0.09	0.05	0.03	1.27
W870928		2.86	56.6	18.85	8.52	8.50	2.60	3.24	1.04	0.01	0.57	0.12	0.16	0.05	0.04	1.19
W870929		1.06	54.1	12.50	10.60	7.78	7.95	1.84	1.34	0.05	0.46	0.15	0.09	0.02	0.05	2.78
W870930		1.88	60.4	12.95	8.32	6.51	6.20	2.24	1.65	0.05	0.52	0.13	0.13	0.03	0.06	1.77
W870931		2.23	54.4	19.55	8.14	9.35	2.43	3.35	0.67	0.01	0.55	0.11	0.11	0.05	0.03	1.17
W870932		2.90	52.4	18.95	8.48	9.05	2.40	3.11	0.83	0.01	0.63	0.11	0.15	0.05	0.03	1.93
W870933		0.08	41.7	8.99	15.20	15.75	10.60	0.62	0.22	0.11	0.70	0.15	0.12	0.01	0.03	4.22
W870934		3.17	61.1	18.20	4.09	6.16	1.61	5.65	0.95	<0.01	0.45	0.04	0.15	0.07	0.05	2.59
W870935		2.27	54.3	19.65	8.63	9.59	2.39	3.34	0.73	0.01	0.70	0.12	0.12	0.05	0.03	1.24
W870936		2.33	53.4	18.95	9.08	8.97	2.45	3.19	0.78	<0.01	0.78	0.13	0.11	0.05	0.03	0.92
W870937		2.31	54.0	18.25	9.69	8.85	2.87	3.14	0.74	0.01	0.71	0.15	0.13	0.04	0.03	1.14
W870938		2.40	54.1	17.30	10.90	8.62	3.51	3.04	0.80	0.01	0.69	0.17	0.14	0.04	0.03	1.18
W870939		2.26	53.5	17.35	10.85	8.63	3.49	3.09	0.81	0.01	0.74	0.17	0.11	0.04	0.03	1.29
W870940		2.20	53.4	17.30	11.00	8.71	3.51	3.02	0.71	0.01	0.77	0.17	0.13	0.04	0.03	1.10
W870941		2.46	53.9	16.85	10.80	8.88	3.68	2.91	0.71	0.01	0.66	0.17	0.13	0.04	0.03	1.48
W870942		2.55	54.9	17.10	10.75	8.10	3.72	3.04	1.19	0.01	0.69	0.17	0.11	0.04	0.03	1.75
W870943		2.62	53.5	15.10	11.05	8.05	4.06	2.87	0.95	0.01	0.65	0.17	0.14	0.03	0.03	1.48
W870944		2.54	55.6	15.85	11.55	8.24	4.32	2.88	0.87	0.01	0.73	0.18	0.13	0.03	0.03	0.87
W870945		2.56	55.4	15.90	11.10	8.13	4.17	2.85	0.89	0.01	0.70	0.18	0.10	0.03	0.04	0.79
W870946		2.55	54.4	15.55	10.80	7.80	4.03	2.84	0.87	0.01	0.71	0.17	0.10	0.03	0.04	0.92
W870947		2.86	55.4	14.85	11.65	7.76	4.43	2.67	1.00	0.01	0.76	0.19	0.11	0.03	0.04	0.88
W870948		2.21	53.6	17.00	11.10	8.57	4.12	2.94	0.88	0.01	0.63	0.18	0.08	0.04	0.03	1.15
W870949		2.29	53.9	17.05	11.25	8.75	4.22	2.90	0.70	0.01	0.63	0.18	0.08	0.04	0.03	0.92
W870950		0.09	47.5	13.00	20.5	6.22	6.58	2.19	0.62	0.03	1.27	0.20	0.16	0.03	0.02	1.17

***** 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: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042511

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
W870913		101.07	0.03	0.01	616	30.2	10	0.65	4.18	2.53	0.98	17.6	4.28	<5	4.3	0.88
W870914		101.22	0.05	0.49	222	15.3	50	1.17	1.76	1.03	0.82	21.4	1.88	<5	1.1	0.38
W870915		101.34	0.13	0.68	224	14.4	50	1.20	1.46	0.94	0.82	21.5	1.69	<5	1.0	0.35
W870916		100.97	0.08	0.60	240	15.4	50	1.18	1.60	1.08	0.84	22.4	1.93	<5	1.1	0.37
W870917		100.77	0.05	0.36	224	16.5	60	0.97	1.57	0.86	0.78	22.1	1.95	<5	1.0	0.37
W870918		101.93	0.06	0.14	315	21.3	30	1.15	1.89	1.18	0.80	21.4	2.05	<5	1.4	0.43
W870919		100.12	0.09	0.06	437	20.0	40	1.33	1.96	1.23	0.85	21.2	2.15	<5	1.6	0.43
W870920		100.96	0.35	0.06	403	18.8	40	1.17	1.84	1.14	0.80	22.0	2.06	<5	1.2	0.43
W870921		100.54	0.63	0.24	283	19.8	40	1.48	1.88	1.09	0.75	20.6	2.01	<5	1.4	0.40
W870922		100.78	0.07	0.05	246	22.6	40	1.55	2.11	1.26	0.84	22.0	2.16	<5	2.1	0.46
W870923		99.70	0.07	0.02	110.0	15.0	280	0.68	1.18	0.68	0.61	14.9	1.56	<5	0.5	0.23
W870924		100.06	0.11	0.01	217	25.8	570	1.23	1.37	0.77	0.90	18.5	2.11	<5	0.7	0.27
W870925		98.13	0.12	0.07	277	24.1	40	1.01	2.12	1.28	0.86	21.0	2.37	<5	1.7	0.49
W870926		101.71	0.06	0.02	313	24.2	40	1.23	2.20	1.33	0.95	23.6	2.39	<5	2.1	0.48
W870927		99.60	0.11	0.03	267	23.3	30	1.22	2.25	1.35	0.92	22.0	2.45	<5	1.8	0.48
W870928		101.49	0.06	0.04	379	28.0	70	1.42	2.31	1.31	0.89	21.8	2.62	<5	1.8	0.51
W870929		99.71	0.12	0.01	416	23.0	370	0.79	2.28	1.28	0.57	14.0	2.37	<5	1.9	0.46
W870930		100.96	0.07	0.02	560	34.3	330	2.34	2.53	1.50	0.68	14.9	3.11	<5	6.0	0.55
W870931		99.92	0.10	0.04	232	22.3	60	0.97	2.23	1.27	0.96	21.2	2.34	<5	1.7	0.46
W870932		98.13	0.18	0.24	266	23.3	40	1.01	2.20	1.27	0.98	21.1	2.50	<5	1.3	0.47
W870933		98.42	0.23	2.61	281	18.6	770	0.35	2.45	1.44	0.75	11.1	2.67	<5	1.8	0.55
W870934		101.11	0.43	0.21	424	42.1	10	0.70	1.22	0.55	0.86	19.6	2.22	<5	2.8	0.21
W870935		100.90	0.13	0.06	274	22.6	30	1.01	2.15	1.26	0.98	22.0	2.52	<5	1.5	0.48
W870936		98.84	0.07	0.01	267	23.4	40	0.96	2.15	1.18	0.87	20.2	2.18	5	1.6	0.44
W870937		99.75	0.09	0.02	266	24.7	50	0.96	2.47	1.41	0.88	19.9	2.47	6	1.9	0.50
W870938		100.53	0.06	0.25	257	24.8	70	0.91	2.59	1.41	1.01	18.6	2.60	6	1.9	0.48
W870939		100.11	0.10	0.05	273	24.0	70	0.93	2.47	1.52	0.85	19.8	2.58	5	1.8	0.53
W870940		99.90	0.12	0.04	302	29.2	70	1.08	2.84	1.82	1.08	19.5	3.04	<5	2.0	0.56
W870941		100.25	0.16	0.05	257	25.9	80	1.28	2.80	1.58	0.90	18.5	2.93	5	2.0	0.59
W870942		101.60	0.11	0.06	303	25.9	80	1.11	2.67	1.60	0.94	19.1	2.57	5	2.2	0.54
W870943		98.09	0.08	0.03	280	29.4	90	0.95	3.19	1.98	0.88	17.9	3.19	<5	2.3	0.65
W870944		101.29	0.08	0.02	309	31.0	90	1.30	3.38	1.89	0.94	18.7	3.41	<5	2.8	0.67
W870945		100.29	0.06	0.04	351	30.1	80	1.26	3.16	1.76	0.86	18.5	3.02	<5	2.3	0.63
W870946		98.27	0.08	0.04	343	30.9	90	1.55	2.92	1.84	0.85	19.2	3.38	<5	2.8	0.62
W870947		99.78	0.08	0.04	345	30.9	100	1.71	2.90	1.98	0.84	18.8	3.33	<5	2.5	0.68
W870948		100.33	0.08	0.02	283	20.2	40	0.94	2.05	1.20	0.83	18.5	2.03	<5	1.6	0.40
W870949		100.66	0.08	0.03	244	20.1	40	0.91	2.18	1.27	0.86	19.5	2.07	<5	1.2	0.47
W870950		99.49	0.06	1.60	223	27.4	260	1.06	2.82	1.47	1.13	17.2	3.02	5	2.6	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: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042511

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
W870913		14.4	0.40	3.5	18.5	4.31	28.8	4.27	1	534	0.3	0.71	2.93	0.37	1.23	151
W870914		7.9	0.15	1.8	8.4	2.04	17.5	1.82	1	461	0.1	0.28	0.97	0.15	0.44	189
W870915		7.3	0.15	1.6	7.6	1.90	27.0	1.60	1	487	0.1	0.27	0.95	0.14	0.28	169
W870916		7.7	0.15	1.7	8.2	2.06	23.3	1.67	1	482	0.1	0.31	1.20	0.15	0.34	160
W870917		8.4	0.14	2.2	8.4	2.15	16.5	1.71	1	449	0.2	0.26	1.30	0.14	0.38	251
W870918		11.0	0.16	2.4	10.9	2.71	22.0	2.21	1	450	0.2	0.33	1.92	0.15	0.52	121
W870919		10.3	0.17	2.4	10.4	2.60	37.2	2.07	1	454	0.2	0.35	2.19	0.17	0.61	163
W870920		9.8	0.17	2.6	9.6	2.46	37.2	2.03	1	437	0.2	0.30	1.82	0.16	0.55	198
W870921		10.0	0.18	2.5	10.3	2.61	23.8	2.10	1	399	0.2	0.32	1.78	0.17	0.50	174
W870922		11.2	0.19	2.7	10.8	2.83	19.4	2.24	3	422	0.2	0.35	2.01	0.17	0.56	162
W870923		7.7	0.10	1.0	8.3	2.09	6.6	1.45	<1	229	0.1	0.19	0.60	0.10	0.17	127
W870924		13.1	0.12	3.7	13.6	3.40	14.7	2.53	1	411	0.1	0.26	0.88	0.12	0.20	156
W870925		12.1	0.19	3.8	12.3	3.12	25.6	2.43	1	461	0.2	0.35	1.83	0.17	0.51	144
W870926		12.4	0.20	3.1	12.3	3.13	20.7	2.52	1	483	0.2	0.38	1.87	0.18	0.55	172
W870927		11.8	0.18	3.0	11.7	2.95	20.9	2.36	1	455	0.2	0.37	2.12	0.21	0.56	195
W870928		14.4	0.18	3.0	13.9	3.51	29.2	2.68	1	445	0.2	0.42	2.23	0.20	0.61	192
W870929		12.8	0.19	2.4	11.2	2.83	35.6	2.55	1	221	0.2	0.39	5.46	0.18	1.20	152
W870930		18.5	0.23	3.3	15.4	4.08	43.1	3.03	1	298	0.5	0.43	10.45	0.21	2.63	157
W870931		11.3	0.17	1.7	11.4	2.98	17.1	2.51	1	456	0.2	0.37	1.82	0.17	0.48	190
W870932		11.8	0.18	2.5	12.5	3.06	22.0	2.52	1	472	0.2	0.39	1.63	0.19	0.42	190
W870933		9.4	0.23	6.0	10.5	2.62	4.6	2.44	2	65.7	0.4	0.41	1.89	0.21	0.90	167
W870934		21.3	0.06	5.2	20.4	5.51	22.9	3.50	1	629	0.3	0.25	3.65	0.06	1.01	66
W870935		11.4	0.18	2.5	11.9	2.99	17.1	2.50	1	479	0.2	0.38	2.07	0.18	0.56	189
W870936		11.2	0.20	2.6	11.8	2.77	19.3	2.53	1	408	0.2	0.38	2.32	0.20	0.64	223
W870937		11.8	0.26	2.8	12.9	2.98	19.1	3.09	2	400	0.2	0.40	1.95	0.24	0.55	218
W870938		11.4	0.19	2.7	12.7	3.10	23.1	2.91	1	348	0.2	0.44	1.66	0.21	0.48	192
W870939		11.1	0.25	2.9	12.5	2.86	22.3	3.22	1	359	0.2	0.45	1.85	0.25	0.54	216
W870940		14.1	0.23	3.6	15.0	3.52	18.9	3.42	1	362	0.2	0.50	2.69	0.26	0.54	228
W870941		12.3	0.25	2.7	13.6	3.14	19.2	3.04	1	333	0.2	0.47	1.95	0.26	0.59	205
W870942		12.3	0.24	2.9	13.7	3.03	38.1	2.74	1	353	0.2	0.47	2.32	0.26	0.60	198
W870943		14.0	0.29	3.0	15.1	3.57	28.2	3.02	1	298	0.3	0.49	2.29	0.26	1.18	213
W870944		14.8	0.28	3.4	16.7	3.83	24.0	3.52	1	313	0.3	0.59	2.34	0.27	0.81	240
W870945		14.4	0.28	3.4	15.3	3.57	25.5	3.43	1	306	0.3	0.50	2.64	0.25	0.76	227
W870946		14.8	0.29	3.5	15.3	3.83	26.4	3.14	1	317	0.3	0.50	2.51	0.30	0.72	237
W870947		14.3	0.30	4.5	16.1	3.67	32.5	3.75	1	295	0.4	0.53	2.75	0.28	0.91	263
W870948		9.5	0.20	2.2	9.7	2.44	24.3	2.32	1	359	0.2	0.34	1.43	0.18	0.50	242
W870949		9.4	0.21	2.1	10.5	2.46	18.6	2.16	1	347	0.2	0.35	1.51	0.18	0.51	247
W870950		12.4	0.20	7.5	14.3	3.35	16.8	3.35	4	277	0.4	0.46	1.61	0.22	0.55	129

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556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042511

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
W870913		6	24.2	2.80	149	1.1	0.05	0.006	0.010	<0.001	0.14	<0.2	<0.01	0.05	<0.5	<0.5
W870914		<1	9.7	0.99	37	0.9	0.42	0.006	0.009	0.001	<0.05	2.0	0.43	0.06	0.8	0.5
W870915		<1	8.9	0.94	36	1.2	0.68	<0.005	0.011	0.001	<0.05	2.5	0.66	0.07	1.7	0.7
W870916		1	10.0	0.97	39	0.8	0.55	0.005	0.012	<0.001	<0.05	2.2	0.52	0.07	1.8	0.7
W870917		<1	9.0	0.93	36	0.7	0.25	0.011	0.011	0.001	<0.05	1.5	0.30	0.05	1.2	0.5
W870918		<1	10.9	1.06	49	0.7	0.03	0.005	0.008	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W870919		<1	11.1	1.14	59	0.5	0.02	<0.005	0.006	<0.001	0.06	<0.2	0.01	0.05	<0.5	<0.5
W870920		1	10.7	1.11	41	0.9	0.03	<0.005	0.009	0.001	0.06	0.2	0.01	0.03	<0.5	<0.5
W870921		1	10.9	1.18	51	0.9	0.08	0.005	0.007	<0.001	0.06	<0.2	0.02	0.04	<0.5	<0.5
W870922		<1	11.5	1.23	76	0.6	0.02	0.005	0.008	<0.001	0.08	<0.2	0.02	0.07	<0.5	<0.5
W870923		1	7.0	0.67	20	0.5	0.03	<0.005	0.009	<0.001	0.07	<0.2	<0.01	<0.02	<0.5	1.1
W870924		<1	7.9	0.75	22	0.6	0.03	0.007	<0.005	<0.001	0.12	<0.2	0.01	0.02	<0.5	0.6
W870925		1	11.9	1.19	66	0.9	0.02	0.005	0.006	<0.001	0.12	<0.2	0.01	0.03	<0.5	0.5
W870926		<1	12.9	1.33	75	0.4	0.01	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W870927		1	12.3	1.34	67	0.8	0.01	<0.005	0.007	0.001	0.05	<0.2	0.01	0.04	<0.5	<0.5
W870928		<1	13.2	1.24	65	0.8	0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.02	0.06	<0.5	<0.5
W870929		1	12.1	1.29	62	0.4	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
W870930		2	14.9	1.56	218	0.9	0.03	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W870931		<1	12.0	1.14	60	0.4	0.01	<0.005	0.009	<0.001	0.06	<0.2	0.02	0.04	<0.5	<0.5
W870932		<1	12.5	1.27	48	0.5	0.02	<0.005	0.007	<0.001	<0.05	<0.2	0.03	0.02	<0.5	<0.5
W870933		1	14.2	1.36	74	45.7	0.35	0.136	0.052	0.020	1.42	13.2	1.43	0.06	2.8	1.2
W870934		2	6.1	0.47	98	0.7	0.04	0.005	0.007	<0.001	<0.05	<0.2	0.02	0.03	<0.5	<0.5
W870935		<1	11.9	1.26	54	0.5	0.01	<0.005	0.008	0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870936		2	12.1	1.37	57	0.4	0.01	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870937		3	13.6	1.42	59	0.4	0.01	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870938		1	13.9	1.57	60	0.9	0.03	<0.005	0.009	<0.001	<0.05	0.4	0.05	0.03	<0.5	<0.5
W870939		1	14.0	1.58	63	0.5	0.01	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.02	<0.5	0.6
W870940		3	15.4	1.69	69	0.5	0.01	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870941		1	14.8	1.65	71	0.8	0.02	0.006	0.011	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870942		1	14.6	1.58	75	0.8	0.02	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W870943		1	16.6	1.73	78	0.5	0.02	<0.005	0.012	<0.001	<0.05	<0.2	0.01	0.04	<0.5	0.5
W870944		1	17.5	1.82	91	1.0	0.02	<0.005	0.012	0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W870945		1	16.8	1.69	79	1.0	0.02	<0.005	0.010	0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W870946		1	16.3	1.71	99	0.8	0.02	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W870947		1	17.1	1.99	86	1.3	0.03	<0.005	0.010	0.001	<0.05	<0.2	0.01	0.09	<0.5	0.6
W870948		1	11.6	1.24	61	0.9	0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
W870949		1	11.9	1.19	40	0.8	0.01	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W870950		4	14.1	1.30	105	4.0	0.82	0.012	0.061	0.005	0.32	5.7	0.61	0.10	2.1	1.0

***** 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: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042511

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
W870913		14	88	10	2	7	7	16	60	<0.001	<0.005	0.001	0.024
W870914		42	761	10	1	164	6	16	71	0.041	0.039	0.051	1.560
W870915		42	1655	20	<1	226	9	16	90	0.079	0.034	0.071	2.14
W870916		38	1885	20	1	191	10	17	85	0.106	0.035	0.051	1.910
W870917		38	1060	10	1	148	7	15	81	0.079	0.054	0.035	1.240
W870918		24	71	10	1	23	6	15	61	<0.001	<0.005	0.004	0.116
W870919		26	39	10	1	24	<2	18	74	<0.001	<0.005	0.004	0.068
W870920		27	33	20	1	22	<2	17	69	<0.001	<0.005	0.006	0.060
W870921		29	86	20	1	25	<2	18	66	0.001	<0.005	0.003	0.130
W870922		26	40	10	1	23	<2	17	69	<0.001	<0.005	0.005	0.078
W870923		30	16	10	1	122	8	16	73	<0.001	<0.005	0.001	0.015
W870924		42	9	30	1	216	<2	15	86	<0.001	0.005	0.006	0.011
W870925		24	50	10	1	23	4	15	58	<0.001	<0.005	0.006	0.094
W870926		24	33	10	1	24	4	14	67	<0.001	<0.005	0.005	0.040
W870927		23	34	20	1	26	3	15	63	<0.001	<0.005	0.003	0.047
W870928		26	36	20	<1	35	3	15	64	<0.001	<0.005	0.003	0.053
W870929		38	13	40	<1	187	4	23	90	<0.001	<0.005	<0.001	0.026
W870930		33	26	30	1	158	3	20	67	<0.001	<0.005	<0.001	0.041
W870931		24	32	10	1	24	<2	17	58	<0.001	<0.005	0.003	0.054
W870932		31	132	20	1	24	<2	18	57	<0.001	<0.005	0.003	0.199
W870933		146	5310	40	3	2030	3	24	75	0.096	0.689	0.364	10.75
W870934		13	24	20	<1	19	<2	5	30	<0.001	<0.005	<0.001	0.055
W870935		25	29	10	<1	23	3	18	60	<0.001	<0.005	0.003	0.041
W870936		28	29	10	1	21	3	19	72	<0.001	<0.005	0.001	0.018
W870937		29	29	10	<1	24	3	20	88	<0.001	<0.005	0.002	0.051
W870938		37	116	10	1	29	3	25	83	<0.001	<0.005	0.001	0.257
W870939		34	31	10	1	30	<2	25	82	<0.001	<0.005	0.003	0.045
W870940		36	31	20	<1	33	7	26	94	<0.001	<0.005	0.002	0.051
W870941		36	37	20	<1	30	3	24	89	<0.001	<0.005	0.001	0.074
W870942		36	44	20	1	32	<2	27	90	<0.001	<0.005	0.002	0.093
W870943		39	27	20	1	35	<2	28	91	<0.001	<0.005	0.002	0.044
W870944		40	25	20	1	35	3	30	95	<0.001	<0.005	0.001	0.037
W870945		41	32	20	1	37	3	30	101	<0.001	<0.005	0.002	0.061
W870946		39	35	20	1	37	2	30	92	<0.001	<0.005	0.002	0.070
W870947		42	32	20	2	38	7	31	97	<0.001	<0.005	0.001	0.058
W870948		40	26	10	2	22	4	26	94	<0.001	<0.005	<0.001	0.032
W870949		41	24	10	1	24	<2	28	97	<0.001	<0.005	<0.001	0.040
W870950		113	4560	20	5	4360	24	12	106	0.064	0.298	0.623	4.56

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CERTIFICATE OF ANALYSIS TB18042511

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		