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: 10-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18064235

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 22-MAR-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.
THUNDER BAY ON P7B 2R2

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

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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
W871488		0.08	62.5	16.30	6.12	6.19	2.69	3.33	1.50	<0.01	0.50	0.13	0.15	0.06	0.07	0.95
W871489		0.08	42.1	8.93	15.25	15.80	10.65	0.61	0.23	0.11	0.70	0.15	0.12	<0.01	0.03	4.14
W871490		2.31	49.3	14.90	11.10	11.60	4.80	3.41	0.23	0.06	0.88	0.23	0.06	0.01	0.01	1.59
W871491		2.21	51.5	14.85	10.65	11.20	4.80	3.22	0.15	0.05	0.94	0.22	0.07	0.01	0.01	1.36
W871492		2.35	50.8	15.00	11.75	10.95	5.24	3.55	0.19	0.04	0.98	0.23	0.06	0.01	0.01	1.38
W871493		2.33	49.5	12.70	17.35	9.92	5.74	1.83	0.28	0.01	1.48	0.26	0.13	0.01	0.01	0.70
W871494		2.37	49.9	12.95	17.50	9.72	5.92	1.85	0.25	0.01	1.50	0.27	0.13	0.01	0.01	0.97
W871495		2.37	49.1	12.70	17.10	9.67	5.78	1.86	0.26	0.01	1.46	0.27	0.12	0.01	0.01	0.66
W871496		2.45	49.2	12.60	17.85	10.10	5.93	1.93	0.24	0.01	1.47	0.27	0.12	0.01	0.01	1.11
W871497		2.51	48.9	12.35	17.40	9.74	5.55	1.85	0.23	0.01	1.48	0.25	0.13	0.01	0.01	0.74
W871498		2.26	50.0	13.70	15.05	10.35	5.54	2.57	0.26	0.02	1.25	0.25	0.11	0.01	0.01	1.05
W871499		2.42	49.5	15.05	11.70	10.70	5.23	3.56	0.28	0.04	0.91	0.26	0.07	0.01	0.01	1.29
W871500		2.35	50.5	14.90	11.40	10.05	5.40	3.98	0.25	0.04	0.92	0.25	0.07	0.01	0.01	1.25
X101001		2.38	50.1	14.45	11.10	11.10	4.88	3.54	0.16	0.04	0.94	0.24	0.07	0.01	<0.01	2.22
X101002		2.31	48.7	13.75	15.20	9.63	5.58	2.31	0.32	0.02	1.40	0.25	0.17	0.01	0.01	1.41
X101003		2.39	49.9	13.95	14.70	9.70	5.57	2.23	0.30	0.02	1.27	0.23	0.14	0.01	0.01	1.08
X101004		2.47	50.0	13.70	15.10	9.65	5.72	2.33	0.30	0.03	1.29	0.24	0.16	0.01	0.01	1.00
X101005		2.38	50.3	14.05	14.30	9.83	6.07	2.24	0.30	0.03	1.21	0.23	0.13	0.01	0.01	1.00
X101006		2.44	50.6	13.95	14.85	9.71	5.66	2.12	0.28	0.03	1.31	0.23	0.17	0.01	0.01	1.15
X101007		2.39	50.8	13.80	15.75	9.53	5.52	2.28	0.29	0.03	1.44	0.24	0.18	0.01	0.01	0.83
X101008		0.08	47.3	12.65	21.2	6.22	6.59	2.19	0.63	0.03	1.26	0.20	0.15	0.03	0.02	1.11
X101009		2.34	51.4	13.45	15.00	10.50	4.65	2.08	0.24	0.03	1.33	0.23	0.20	0.02	<0.01	0.98
X101010		2.51	51.6	13.35	15.45	9.73	4.44	2.25	0.23	0.02	1.30	0.24	0.24	0.02	0.01	1.01
X101011		2.28	50.6	14.15	14.75	9.74	4.88	2.31	0.27	0.02	1.37	0.23	0.19	0.01	0.01	1.10
X101012		2.52	50.6	13.95	15.15	9.56	5.24	2.32	0.28	0.02	1.44	0.24	0.18	0.01	0.01	1.32
X101013		2.66	50.2	13.80	14.95	9.76	5.28	2.18	0.23	0.02	1.32	0.23	0.17	0.01	0.01	0.88
X101014		2.27	50.1	14.35	14.35	10.35	5.70	2.23	0.33	0.02	1.28	0.25	0.16	0.01	0.01	1.90
X101015		2.64	48.6	13.45	14.35	12.00	5.25	1.10	0.16	0.02	1.26	0.21	0.16	0.01	<0.01	3.86
X101016		2.30	50.9	13.25	15.20	10.25	5.30	2.00	0.21	0.02	1.40	0.25	0.17	0.01	<0.01	1.62
X101017		2.38	50.2	13.55	15.50	9.08	5.17	2.33	0.29	0.02	1.50	0.26	0.18	0.01	0.01	1.32
X101018		2.58	51.4	14.15	15.20	9.55	5.40	2.27	0.32	0.02	1.40	0.24	0.18	0.01	0.01	1.01
X101019		2.20	50.4	13.60	15.05	8.85	5.35	2.39	0.32	0.02	1.26	0.25	0.18	0.01	0.01	1.95
X101020		2.46	48.4	12.80	16.70	9.67	5.39	2.23	0.24	0.02	1.42	0.26	0.15	0.01	<0.01	1.65
X101021		2.31	48.5	12.75	16.30	9.24	5.41	2.48	0.23	0.01	1.40	0.26	0.14	0.01	<0.01	1.28
X101022		2.51	49.3	14.05	14.00	10.85	4.63	3.49	0.23	0.02	1.18	0.24	0.09	0.02	0.01	2.08
X101023		2.45	51.3	14.35	12.20	10.85	4.85	3.19	0.17	0.03	1.05	0.25	0.08	0.01	0.01	1.34
X101024		2.52	49.6	14.15	13.35	11.65	5.78	2.26	0.24	0.03	0.99	0.21	0.09	0.01	0.01	0.99
X101025		2.56	50.1	14.20	12.95	12.20	5.60	2.07	0.17	0.03	1.00	0.22	0.08	0.01	<0.01	2.20
X101026		2.50	49.9	14.25	13.70	11.75	6.02	2.17	0.21	0.03	1.01	0.22	0.09	0.02	0.01	1.19
X101027		2.59	49.2	13.70	11.85	13.25	4.53	2.07	0.16	0.04	1.02	0.21	0.08	0.01	<0.01	3.33

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
W871488		100.49	0.03	0.02	587	31.4	20	0.76	4.01	2.48	0.86	16.9	4.19	<5	3.6	0.86
W871489		98.82	0.23	2.70	280	19.9	770	0.47	2.52	1.70	0.85	10.5	2.65	<5	2.0	0.55
W871490		98.18	0.32	0.19	72.6	8.7	410	0.10	3.19	2.19	0.67	17.2	2.73	<5	1.5	0.71
W871491		99.03	0.25	0.11	49.2	8.5	310	0.12	3.61	2.38	0.83	16.3	3.06	<5	1.6	0.76
W871492		100.19	0.30	0.06	65.8	8.6	280	0.06	3.37	2.43	0.82	16.3	3.16	<5	1.7	0.81
W871493		99.92	0.09	0.12	59.2	15.0	80	0.24	5.21	3.17	1.13	17.3	4.26	<5	2.5	1.06
W871494		100.99	0.11	0.13	51.1	15.7	90	0.20	5.28	3.60	1.05	20.1	4.57	<5	2.6	1.09
W871495		99.01	0.06	0.11	58.3	16.3	90	0.37	5.32	3.54	1.29	18.9	4.67	<5	2.7	1.17
W871496		100.85	0.04	0.31	47.9	16.2	90	0.23	5.36	3.58	1.26	18.9	4.52	<5	2.5	1.18
W871497		98.65	0.10	0.14	47.0	15.8	90	0.28	5.34	3.40	1.24	18.2	4.37	<5	2.5	1.11
W871498		100.17	0.15	0.10	56.6	12.6	170	0.32	4.26	2.86	1.09	17.9	4.14	<5	2.0	0.97
W871499		98.61	0.24	0.13	59.8	8.6	290	0.29	3.48	2.41	0.87	17.5	2.76	<5	1.5	0.83
W871500		99.03	0.21	0.03	56.0	8.6	290	0.20	3.62	2.47	0.90	16.2	3.09	<5	1.6	0.78
X101001		98.85	0.38	0.02	29.7	9.3	270	0.20	3.61	2.47	0.85	16.0	2.99	<5	1.6	0.82
X101002		98.76	0.16	0.11	53.5	17.8	150	0.60	6.41	4.29	1.39	20.6	5.70	<5	3.0	1.41
X101003		99.11	0.12	0.10	58.6	16.2	170	0.50	6.05	3.84	1.31	19.4	4.99	<5	3.0	1.24
X101004		99.54	0.10	0.12	63.5	17.3	190	0.34	6.35	4.08	1.43	18.8	5.50	<5	3.2	1.40
X101005		99.71	0.08	0.10	63.0	15.5	190	0.36	5.95	3.87	1.37	19.2	5.05	<5	2.9	1.29
X101006		100.08	0.13	0.13	60.6	18.9	180	0.35	6.78	4.29	1.50	19.8	5.83	<5	3.3	1.46
X101007		100.71	0.07	0.15	57.9	19.1	180	0.26	6.99	4.70	1.50	20.2	6.27	<5	3.5	1.46
X101008		99.58	0.08	1.76	207	26.4	230	1.09	2.83	1.41	1.18	16.1	3.15	<5	2.3	0.54
X101009		100.11	0.14	0.14	42.5	22.6	190	0.20	8.00	5.33	1.79	22.0	6.80	<5	4.0	1.63
X101010		99.89	0.15	0.11	49.1	28.9	170	0.28	8.90	5.37	1.93	21.5	7.81	<5	4.9	1.92
X101011		99.63	0.10	0.09	52.4	20.8	140	0.30	7.38	4.97	1.68	20.8	6.13	<5	3.6	1.61
X101012		100.32	0.14	0.09	58.7	20.0	160	0.37	7.34	5.23	1.50	20.6	6.10	<5	3.6	1.57
X101013		99.04	0.12	0.09	51.5	18.4	150	0.32	6.50	4.34	1.44	19.5	5.59	<5	3.2	1.44
X101014		101.04	0.31	0.11	66.4	17.2	150	0.52	6.42	4.21	1.49	19.5	5.59	<5	3.1	1.43
X101015		100.43	0.58	0.12	29.7	16.1	160	0.43	5.86	3.84	1.31	22.3	4.58	<5	2.8	1.25
X101016		100.58	0.11	0.07	36.7	18.8	140	0.37	6.65	4.43	1.40	20.6	6.11	<5	3.5	1.47
X101017		99.42	0.12	0.10	65.3	19.4	140	0.52	7.29	4.55	1.50	19.3	6.18	<5	3.7	1.42
X101018		101.16	0.09	0.14	70.4	18.8	150	0.64	6.81	4.61	1.48	21.0	6.13	<5	3.5	1.49
X101019		99.64	0.22	0.08	64.6	23.1	160	0.57	6.95	4.45	1.67	19.5	6.26	<5	3.9	1.48
X101020		98.94	0.24	0.05	45.0	17.1	110	0.26	5.68	3.97	1.32	19.2	4.94	<5	3.0	1.33
X101021		98.01	0.17	0.02	48.4	17.9	100	0.18	6.23	3.99	1.40	19.2	5.08	<5	2.8	1.24
X101022		100.19	0.43	0.09	45.2	12.2	170	0.15	4.31	2.81	1.02	18.1	3.65	<5	2.0	0.95
X101023		99.68	0.32	0.13	48.5	9.9	220	0.16	4.09	2.75	0.82	17.2	3.39	<5	1.8	0.90
X101024		99.36	0.17	0.10	58.2	9.3	220	0.29	3.82	2.45	0.78	17.8	3.42	<5	1.8	0.84
X101025		100.83	0.41	0.15	47.5	9.6	230	0.29	4.02	2.53	0.87	18.3	3.28	<5	1.8	0.86
X101026		100.57	0.18	0.10	53.8	9.8	240	0.28	3.83	2.59	0.84	17.7	3.37	<5	1.7	0.85
X101027		99.45	0.79	0.14	41.4	9.4	280	0.22	3.86	2.55	0.79	17.0	3.21	<5	1.7	0.83

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
W871488		13.8	0.39	3.2	17.3	3.96	27.1	4.11	1	489	0.2	0.59	2.80	0.37	1.20	152
W871489		10.3	0.21	6.5	10.7	2.66	5.3	2.54	2	67.4	0.4	0.41	2.08	0.22	1.14	178
W871490		3.6	0.30	2.3	6.9	1.34	4.1	2.11	1	124.0	0.2	0.50	0.27	0.31	0.07	326
W871491		3.3	0.33	2.3	6.7	1.29	2.6	2.30	<1	129.0	0.2	0.51	0.36	0.33	0.06	330
W871492		3.1	0.34	2.3	6.4	1.37	2.6	2.13	1	107.5	0.2	0.54	0.31	0.36	0.06	314
W871493		5.9	0.51	5.1	10.1	2.25	6.5	3.46	1	81.4	0.3	0.85	0.66	0.48	0.09	351
W871494		6.0	0.57	5.2	11.7	2.28	5.5	3.52	1	82.8	0.3	0.78	0.52	0.51	0.10	384
W871495		6.3	0.51	5.2	12.5	2.54	7.1	3.28	1	95.2	0.3	0.82	0.57	0.54	0.15	388
W871496		6.6	0.48	5.0	11.9	2.54	6.4	3.70	1	94.9	0.3	0.80	0.51	0.51	0.12	368
W871497		6.3	0.47	5.0	11.5	2.38	5.5	3.39	1	101.0	0.3	0.73	0.53	0.49	0.14	378
W871498		5.2	0.41	4.0	9.6	1.97	6.1	2.96	1	110.0	0.2	0.68	0.38	0.40	0.12	359
W871499		3.4	0.32	2.6	7.3	1.44	4.6	2.30	1	129.5	0.1	0.50	0.22	0.32	0.08	336
W871500		3.2	0.35	2.6	7.0	1.42	3.7	2.10	2	126.5	0.2	0.51	0.22	0.36	0.06	339
X101001		3.8	0.33	2.6	7.0	1.51	2.3	2.52	1	122.0	0.1	0.55	0.26	0.35	0.07	315
X101002		7.1	0.65	5.4	14.2	2.72	7.8	4.30	1	99.7	0.3	0.97	0.53	0.61	0.14	293
X101003		6.3	0.60	5.2	13.1	2.60	8.5	4.23	1	102.5	0.3	0.91	0.53	0.60	0.12	261
X101004		6.7	0.58	5.3	14.1	2.81	8.1	3.93	1	109.0	0.3	0.93	0.50	0.61	0.15	268
X101005		5.8	0.55	4.8	11.7	2.53	8.7	3.80	1	107.0	0.3	0.84	0.53	0.54	0.11	271
X101006		7.4	0.65	5.7	14.2	3.03	8.0	4.52	1	106.5	0.3	0.98	0.56	0.62	0.16	260
X101007		7.4	0.64	5.9	15.1	3.06	7.5	4.74	1	107.0	0.4	1.05	0.61	0.67	0.15	262
X101008		12.5	0.19	7.2	14.1	3.53	17.3	3.43	4	255	0.4	0.43	1.57	0.21	0.46	124
X101009		9.2	0.74	6.7	17.6	3.52	5.5	5.35	1	166.0	0.4	1.16	0.72	0.71	0.19	215
X101010		11.1	0.83	10.5	22.1	4.41	5.2	6.38	1	161.5	0.5	1.31	1.01	0.87	0.22	160
X101011		8.2	0.69	6.8	17.3	3.39	7.4	4.89	1	118.5	0.4	1.08	0.74	0.67	0.18	246
X101012		7.7	0.69	6.3	15.6	3.14	9.1	4.94	1	119.0	0.4	1.07	0.66	0.72	0.18	278
X101013		7.1	0.66	5.7	13.9	2.86	5.7	4.15	1	102.0	0.3	1.02	0.61	0.59	0.13	257
X101014		6.8	0.66	5.2	13.7	2.85	9.1	4.59	1	108.5	0.3	0.96	0.57	0.57	0.12	260
X101015		6.4	0.56	5.1	12.7	2.66	4.8	4.15	1	140.0	0.3	0.84	0.51	0.55	0.12	256
X101016		7.5	0.68	5.9	14.6	3.07	6.2	4.69	1	133.0	0.3	1.01	0.63	0.63	0.16	269
X101017		7.2	0.70	6.1	15.5	3.11	8.0	4.77	1	105.5	0.4	1.02	0.62	0.68	0.15	267
X101018		7.2	0.62	6.0	15.0	3.04	9.4	4.75	1	113.0	0.3	0.97	0.65	0.68	0.14	267
X101019		9.1	0.65	8.2	16.8	3.56	9.3	5.34	1	105.0	0.3	1.09	0.81	0.68	0.16	215
X101020		6.5	0.58	5.5	12.9	2.71	4.9	3.88	1	106.0	0.3	0.88	0.57	0.57	0.16	331
X101021		7.0	0.60	5.6	13.0	2.82	5.0	4.15	1	109.0	0.3	0.89	0.61	0.54	0.13	337
X101022		5.0	0.39	3.7	9.1	1.92	3.8	2.92	1	148.0	0.2	0.62	0.45	0.43	0.09	341
X101023		4.0	0.44	2.9	7.7	1.56	2.6	2.60	1	156.5	0.1	0.63	0.39	0.35	0.15	331
X101024		3.7	0.34	2.9	6.9	1.34	5.9	2.27	1	144.0	0.1	0.58	0.37	0.36	0.10	319
X101025		4.0	0.40	2.8	7.6	1.50	3.9	2.53	1	153.5	0.1	0.56	0.33	0.36	0.11	322
X101026		3.8	0.36	2.9	7.3	1.50	4.4	2.61	1	187.0	0.1	0.58	0.33	0.38	0.09	327
X101027		3.7	0.37	2.8	7.1	1.39	3.2	2.27	1	130.0	0.1	0.56	0.32	0.36	0.09	303

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
W871488		5	23.1	2.45	125	0.8	0.04	<0.005	0.009	0.001	0.14	0.2	0.01	0.05	<0.5	<0.5
W871489		2	14.4	1.34	79	40.7	0.30	0.126	0.052	0.016	1.23	12.7	1.24	0.06	2.6	1.0
W871490		2	20.0	2.35	53	0.5	0.05	<0.005	0.010	0.001	<0.05	0.5	0.06	0.06	<0.5	0.5
W871491		6	19.9	2.18	55	0.4	0.01	<0.005	0.008	0.002	<0.05	0.5	0.02	0.05	<0.5	<0.5
W871492		2	20.0	2.23	55	0.3	<0.01	<0.005	0.007	0.001	<0.05	<0.2	0.02	0.03	<0.5	<0.5
W871493		1	27.3	3.39	87	0.1	0.01	<0.005	0.016	0.002	<0.05	0.4	0.01	0.03	<0.5	0.6
W871494		8	29.8	3.39	95	0.1	0.02	<0.005	0.014	0.003	<0.05	0.4	0.02	0.03	<0.5	0.6
W871495		1	30.9	3.35	95	<0.1	0.01	0.009	0.014	0.002	<0.05	0.5	0.01	0.03	<0.5	0.6
W871496		1	30.4	3.19	93	0.1	0.02	0.006	0.015	0.002	<0.05	0.7	0.03	0.02	<0.5	0.6
W871497		1	29.8	3.04	91	0.1	0.01	0.006	0.017	0.002	<0.05	0.6	0.01	0.04	<0.5	0.6
W871498		<1	25.8	2.80	75	0.2	0.01	<0.005	0.014	0.002	<0.05	0.4	0.01	0.03	<0.5	<0.5
W871499		<1	21.0	2.35	55	0.4	0.01	<0.005	0.014	0.001	0.05	0.2	0.02	0.04	<0.5	<0.5
W871500		1	20.9	2.21	56	0.2	<0.01	<0.005	0.010	0.001	<0.05	0.2	0.02	0.02	<0.5	<0.5
X101001		1	20.9	2.33	58	0.4	<0.01	<0.005	0.012	0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
X101002		1	37.2	3.96	113	0.2	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.03	<0.5	<0.5
X101003		<1	35.3	3.53	106	0.3	0.01	<0.005	0.015	0.001	<0.05	0.5	0.01	0.03	<0.5	0.5
X101004		1	37.4	3.77	117	0.1	<0.01	<0.005	0.014	<0.001	<0.05	0.3	0.01	0.04	<0.5	<0.5
X101005		1	33.9	3.66	104	0.2	0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.03	<0.5	0.5
X101006		1	39.0	4.05	124	0.2	<0.01	<0.005	0.014	0.001	<0.05	0.4	0.01	0.03	<0.5	<0.5
X101007		1	40.4	3.97	129	0.3	<0.01	<0.005	0.015	0.001	<0.05	0.4	0.01	0.03	<0.5	<0.5
X101008		4	14.4	1.35	94	4.3	0.82	0.005	0.068	0.005	0.32	5.6	0.56	0.11	2.0	0.8
X101009		1	45.9	4.89	150	0.3	0.01	<0.005	0.018	<0.001	<0.05	0.3	0.01	0.02	<0.5	0.5
X101010		1	51.0	5.28	170	0.2	0.01	<0.005	0.025	0.001	<0.05	<0.2	0.01	0.02	<0.5	1.5
X101011		1	42.9	4.38	137	0.3	0.01	0.005	0.015	0.001	<0.05	0.3	<0.01	0.02	<0.5	0.5
X101012		1	41.9	4.37	131	0.5	0.01	0.007	0.016	0.001	<0.05	0.3	<0.01	0.03	<0.5	0.5
X101013		1	37.7	3.94	115	0.1	<0.01	0.006	0.015	0.001	<0.05	0.3	0.01	0.02	<0.5	0.5
X101014		1	36.5	3.73	113	0.4	0.01	0.007	0.018	0.001	<0.05	0.2	<0.01	0.03	<0.5	<0.5
X101015		1	34.4	3.61	106	0.7	0.01	0.011	0.023	0.001	<0.05	0.4	0.01	0.02	<0.5	0.9
X101016		1	39.5	3.92	124	0.4	0.01	0.008	0.014	0.001	<0.05	0.3	0.02	<0.02	<0.5	0.6
X101017		1	40.6	4.26	127	0.2	0.01	0.011	0.015	0.001	<0.05	0.3	0.01	0.02	<0.5	<0.5
X101018		1	39.8	4.12	129	0.1	0.01	0.012	0.015	0.001	<0.05	0.2	0.01	0.03	<0.5	0.9
X101019		<1	41.9	4.25	131	0.4	0.01	<0.005	0.017	0.001	0.05	0.4	0.01	0.03	<0.5	<0.5
X101020		1	33.9	4.00	106	0.3	<0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	0.02	<0.5	<0.5
X101021		1	34.3	3.61	106	0.4	<0.01	0.007	0.016	0.001	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
X101022		1	25.5	2.63	74	0.2	<0.01	0.006	0.011	0.001	0.05	0.4	<0.01	0.02	<0.5	<0.5
X101023		<1	22.7	2.61	67	0.4	0.01	0.005	0.010	0.001	<0.05	0.5	0.01	0.02	<0.5	0.6
X101024		6	21.1	2.31	63	0.2	0.01	<0.005	0.008	0.001	<0.05	0.2	0.01	0.04	<0.5	0.6
X101025		2	22.0	2.31	63	0.2	0.03	0.007	0.009	0.001	<0.05	0.5	0.03	0.04	<0.5	0.5
X101026		17	22.3	2.55	65	0.1	0.01	0.010	0.007	0.001	<0.05	0.3	0.01	0.03	<0.5	<0.5
X101027		1	21.0	2.47	63	0.1	0.01	<0.005	0.010	0.001	<0.05	0.5	0.02	0.04	<0.5	0.6

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
W871488		14	92	10	2	7	6	17	63	0.001	<0.005	0.001	0.025
W871489		147	5410	40	2	2060	6	24	74	0.137	0.725	0.375	10.00
W871490		55	114	20	<1	150	3	42	113	0.001	<0.005	0.001	0.448
W871491		52	142	10	1	140	<2	42	88	<0.001	<0.005	<0.001	0.420
W871492		54	139	10	<1	131	<2	41	99	<0.001	<0.005	0.001	0.240
W871493		53	139	10	2	55	3	42	131	<0.001	<0.005	<0.001	0.406
W871494		54	153	20	<1	53	<2	43	128	0.003	<0.005	<0.001	0.436
W871495		53	146	20	<1	55	<2	43	139	<0.001	<0.005	<0.001	0.370
W871496		56	85	30	<1	57	2	43	145	0.001	<0.005	<0.001	0.587
W871497		54	160	20	<1	55	<2	43	130	<0.001	<0.005	<0.001	0.434
W871498		53	111	20	<1	84	5	43	110	0.001	<0.005	<0.001	0.316
W871499		51	105	20	<1	127	<2	44	86	<0.001	<0.005	<0.001	0.225
W871500		46	100	10	<1	118	<2	40	92	0.001	<0.005	0.002	0.101
X101001		44	85	20	1	112	<2	39	82	<0.001	<0.005	<0.001	0.059
X101002		43	111	20	<1	60	<2	40	129	0.001	<0.005	<0.001	0.299
X101003		42	102	20	<1	62	4	37	107	0.001	<0.005	<0.001	0.282
X101004		43	106	20	<1	71	<2	39	125	<0.001	<0.005	<0.001	0.317
X101005		44	110	20	<1	75	<2	41	126	<0.001	<0.005	<0.001	0.287
X101006		43	109	20	<1	65	<2	39	122	<0.001	<0.005	<0.001	0.292
X101007		45	106	10	<1	63	<2	40	128	<0.001	<0.005	<0.001	0.290
X101008		110	4500	20	4	4300	25	12	105	0.056	0.292	0.593	3.79
X101009		42	116	10	<1	57	2	37	194	0.001	<0.005	<0.001	0.213
X101010		40	90	10	<1	47	<2	38	311	0.001	<0.005	<0.001	0.164
X101011		41	99	20	<1	54	<2	37	134	0.001	<0.005	<0.001	0.238
X101012		41	97	20	<1	54	<2	38	144	0.001	<0.005	<0.001	0.233
X101013		42	99	10	<1	58	<2	38	119	<0.001	<0.005	<0.001	0.256
X101014		43	124	20	<1	60	2	38	130	0.002	<0.005	0.001	0.263
X101015		38	602	40	<1	61	4	35	293	0.002	<0.005	<0.001	0.210
X101016		39	73	20	<1	56	<2	38	99	0.002	<0.005	<0.001	0.153
X101017		42	90	20	<1	57	<2	39	136	<0.001	<0.005	<0.001	0.253
X101018		44	108	20	1	61	6	39	130	<0.001	<0.005	<0.001	0.312
X101019		41	82	30	<1	56	3	38	119	<0.001	<0.005	<0.001	0.216
X101020		47	111	20	<1	56	3	41	140	0.001	<0.005	<0.001	0.147
X101021		49	85	20	<1	57	6	41	142	<0.001	<0.005	<0.001	0.055
X101022		50	110	10	<1	95	5	42	93	<0.001	<0.005	<0.001	0.281
X101023		51	127	10	<1	113	3	41	112	<0.001	<0.005	0.002	0.325
X101024		51	132	10	<1	110	3	39	104	<0.001	<0.005	0.003	0.303
X101025		48	132	20	1	114	2	39	105	0.001	<0.005	0.002	0.371
X101026		49	117	10	<1	115	3	39	104	0.001	<0.005	0.002	0.292
X101027		51	134	10	<1	134	3	40	93	0.001	<0.005	0.003	0.412

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
X101028		0.04	63.6	16.45	5.97	6.20	2.71	3.36	1.51	<0.01	0.50	0.12	0.15	0.06	0.07	1.01
X101029		2.48	49.7	14.15	13.45	10.80	5.52	2.29	0.14	0.04	1.08	0.25	0.09	0.01	<0.01	1.91
X101030		2.52	49.4	14.10	12.60	11.85	5.16	2.58	0.12	0.04	1.00	0.23	0.09	0.02	0.01	2.13
X101031		2.89	49.2	14.35	11.95	11.95	4.95	2.00	0.30	0.04	1.02	0.24	0.09	0.02	0.01	2.38
X101032		2.77	49.5	14.00	12.75	12.05	5.72	2.05	0.23	0.03	0.99	0.24	0.08	0.01	0.01	1.71
X101033		2.94	48.5	13.95	13.30	11.20	5.71	2.32	0.21	0.03	0.99	0.23	0.09	0.02	0.01	1.63
X101034		2.39	51.1	14.45	11.80	12.20	4.59	2.42	0.17	0.04	1.03	0.23	0.09	0.01	0.01	1.86
X101035		2.35	50.5	14.65	12.05	11.80	5.07	2.21	0.23	0.03	1.02	0.23	0.08	0.01	0.01	1.73
X101036		2.35	48.7	15.00	13.95	9.59	8.19	2.23	0.29	0.01	1.04	0.19	0.11	0.02	0.01	-0.27
X101037		2.51	49.0	15.10	14.10	9.69	7.97	2.29	0.31	0.01	1.13	0.19	0.12	0.02	0.01	-0.23
X101038		2.35	49.9	15.30	14.20	9.90	7.48	2.38	0.32	0.01	1.16	0.20	0.13	0.01	0.01	-0.21
X101039		1.89	50.0	14.75	14.65	9.82	7.52	2.33	0.32	0.01	1.23	0.21	0.13	0.02	0.01	-0.16
X101040		2.31	49.2	14.30	14.40	9.69	6.64	2.35	0.42	0.01	1.28	0.20	0.13	0.02	0.02	0.00
X101041		2.39	48.9	14.05	14.55	9.68	6.56	2.42	0.44	0.01	1.31	0.21	0.15	0.02	0.02	0.29
X101042		2.40	48.9	14.35	14.20	9.87	6.84	2.27	0.43	0.01	1.24	0.21	0.14	0.01	0.01	0.38
X101043		2.38	49.6	13.75	14.90	9.82	6.28	2.41	0.47	0.02	1.41	0.22	0.16	0.01	0.02	0.64
X101044		3.38	49.8	19.30	8.55	10.20	4.73	3.10	1.17	0.01	0.50	0.12	0.08	0.05	0.04	1.68
X101045		2.43	50.1	18.15	9.38	10.15	4.94	2.88	1.49	0.01	0.46	0.13	0.09	0.05	0.04	1.83
X101046		2.18	50.9	20.2	6.66	9.75	4.62	3.33	1.45	0.01	0.24	0.10	0.05	0.05	0.04	2.15
X101047		2.38	50.9	20.1	6.99	9.85	4.71	3.38	1.49	0.02	0.28	0.10	0.08	0.05	0.04	2.39
X101048		0.08	42.4	8.99	14.85	15.55	10.70	0.61	0.22	0.11	0.70	0.15	0.14	0.01	0.03	4.32
X101049		2.28	49.9	20.4	8.02	9.50	5.01	3.52	1.17	0.01	0.28	0.10	0.07	0.06	0.04	2.35
X101050		1.92	49.5	19.45	9.47	8.04	5.64	3.73	1.49	0.03	0.36	0.11	0.09	0.06	0.05	2.50
X101051		2.35	49.4	18.95	9.44	8.53	5.90	3.36	1.60	0.03	0.35	0.11	0.09	0.05	0.04	2.74
X101052		2.41	48.5	16.60	11.50	8.17	7.89	2.32	1.39	0.04	0.38	0.15	0.08	0.04	0.04	2.18
X101053		2.44	49.1	15.00	12.85	7.53	9.04	1.98	1.23	0.05	0.36	0.18	0.10	0.04	0.04	2.12
X101054		2.10	50.4	14.55	12.20	6.86	9.51	2.51	1.45	0.05	0.37	0.16	0.14	0.03	0.05	2.80
X101055		2.07	62.5	12.25	7.80	6.76	5.06	2.20	0.86	0.03	0.31	0.09	0.11	0.03	0.03	2.73
X101056		2.23	46.0	13.50	16.30	8.12	9.34	2.18	0.92	0.05	0.61	0.16	0.11	0.02	0.03	3.08
X101057		2.57	45.3	13.45	18.65	7.59	9.21	2.29	0.87	0.05	0.74	0.18	0.12	0.03	0.03	2.20
X101058		2.46	46.3	12.55	14.80	7.90	12.20	1.53	0.86	0.06	0.39	0.19	0.04	0.02	0.04	3.27
X101059		2.56	44.3	13.65	19.20	7.43	9.82	1.74	1.14	0.07	0.55	0.17	0.06	0.03	0.04	2.52
X101060		2.28	45.5	14.15	18.00	6.98	8.98	1.89	1.03	0.05	0.65	0.19	0.08	0.04	0.03	1.85
X101061		2.46	47.5	15.20	17.15	6.96	9.18	1.95	1.21	0.05	0.60	0.18	0.10	0.04	0.04	1.61
X101062		2.35	40.7	15.35	22.5	8.17	8.04	1.49	1.06	0.05	0.80	0.18	0.11	0.02	0.04	3.08
X101063		2.86	36.8	12.10	31.5	6.44	8.29	1.46	0.56	0.05	0.89	0.18	0.13	0.02	0.02	2.32
X101064		2.39	45.9	14.35	17.50	7.29	9.53	1.72	1.04	0.05	0.70	0.21	0.11	0.03	0.03	2.33
X101065		0.08	47.3	12.80	21.3	6.24	6.68	2.19	0.64	0.03	1.26	0.19	0.16	0.03	0.02	1.11

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
X101028		101.71	0.04	0.01	610	28.9	10	0.73	4.13	2.67	0.90	16.8	4.04	<5	3.5	0.84
X101029		99.43	0.34	0.12	45.9	11.5	310	0.35	4.30	2.93	0.94	17.7	3.63	<5	2.0	0.87
X101030		99.33	0.48	0.12	47.2	9.3	240	0.18	3.89	2.53	0.82	17.9	3.26	<5	1.6	0.81
X101031		98.50	0.48	0.10	66.3	9.2	290	0.66	3.78	2.48	0.76	18.2	3.42	<5	1.7	0.84
X101032		99.37	0.35	0.11	68.8	9.4	210	0.34	4.07	2.48	0.70	17.5	3.36	<5	1.7	0.81
X101033		98.19	0.31	0.10	78.7	9.5	210	0.32	3.93	2.50	0.79	17.5	3.32	<5	1.7	0.81
X101034		100.00	0.36	0.11	89.1	9.7	250	0.24	3.86	2.89	0.78	18.1	3.67	<5	1.9	0.84
X101035		99.62	0.33	0.13	109.5	9.8	230	0.49	3.99	2.62	0.89	17.7	3.59	<5	1.8	0.87
X101036		99.06	0.01	0.01	107.5	15.2	80	0.44	3.59	2.26	0.99	18.7	3.35	<5	2.0	0.79
X101037		99.71	0.01	0.01	107.0	15.4	80	0.47	3.74	2.14	1.02	18.3	3.70	<5	2.3	0.82
X101038		100.79	0.01	0.01	114.5	16.1	80	0.48	4.11	2.45	1.00	19.7	3.70	<5	2.0	0.86
X101039		100.84	0.01	0.01	115.5	16.1	80	0.43	4.33	2.51	1.14	19.1	3.97	<5	2.4	0.85
X101040		98.66	0.01	0.02	138.0	17.9	90	0.62	4.45	2.95	1.16	20.0	4.22	<5	2.5	0.95
X101041		98.61	0.01	0.03	147.5	18.4	90	0.81	4.70	2.84	1.22	19.8	4.15	<5	2.5	0.97
X101042		98.86	0.02	0.01	133.5	16.5	90	1.25	4.15	2.47	1.10	19.4	3.83	<5	2.4	0.89
X101043		99.71	0.01	0.02	147.5	19.1	100	1.27	5.01	2.89	1.21	20.3	4.49	<5	2.5	1.05
X101044		99.33	0.03	0.08	344	14.6	80	2.97	1.67	0.84	0.86	19.0	1.64	<5	0.9	0.32
X101045		99.70	0.04	0.34	380	22.1	90	2.78	1.99	1.17	0.82	17.9	2.25	<5	1.3	0.43
X101046		99.55	0.05	0.03	400	17.3	90	4.13	1.47	0.83	0.81	18.7	1.79	<5	1.1	0.31
X101047		100.38	0.05	0.02	387	17.7	100	4.95	1.46	0.65	0.76	18.5	1.78	<5	1.4	0.29
X101048		98.78	0.24	2.66	298	19.4	750	0.34	2.53	1.49	0.74	10.9	2.73	<5	2.0	0.50
X101049		100.43	0.05	0.01	341	17.4	80	7.86	1.21	0.78	0.75	17.8	1.60	<5	0.9	0.24
X101050		100.52	0.04	0.03	415	19.2	180	6.95	1.48	0.78	0.76	18.2	1.99	<5	1.0	0.26
X101051		100.59	0.07	0.03	393	18.7	170	6.45	1.47	0.71	0.71	17.1	1.59	<5	0.9	0.31
X101052		99.28	0.04	0.01	362	17.2	250	3.78	1.18	0.67	0.59	15.6	1.56	<5	1.3	0.24
X101053		99.62	0.03	0.06	347	14.7	340	1.93	1.36	0.86	0.70	15.3	1.68	<5	0.6	0.31
X101054		101.08	0.03	0.14	430	14.7	360	1.64	1.50	0.89	0.59	14.1	1.61	<5	0.7	0.26
X101055		100.76	0.11	0.04	270	12.9	190	5.07	1.00	0.51	0.48	13.1	1.29	<5	0.7	0.18
X101056		100.42	0.05	0.26	293	11.6	320	4.86	1.29	0.84	0.57	16.8	1.33	<5	1.0	0.24
X101057		100.71	0.03	0.17	271	13.6	330	4.20	1.42	0.74	0.63	16.8	1.61	<5	0.8	0.30
X101058		100.15	0.03	0.21	296	9.6	410	2.61	1.33	0.74	0.53	13.7	1.34	<5	0.6	0.27
X101059		100.72	0.03	0.19	369	12.8	500	2.61	1.22	0.78	0.60	17.5	1.49	<5	0.6	0.28
X101060		99.42	0.02	0.19	296	13.8	350	1.08	1.23	0.72	0.60	17.2	1.49	<5	0.8	0.31
X101061		101.77	0.02	0.21	339	14.8	360	1.74	1.35	0.81	0.63	17.1	1.64	<5	0.7	0.28
X101062		101.59	0.02	0.25	335	22.5	350	3.66	1.64	1.00	0.86	18.8	2.19	<5	0.6	0.38
X101063		100.76	0.03	0.61	159.5	14.8	330	2.09	1.56	0.93	0.63	19.1	1.94	<5	0.9	0.30
X101064		100.79	0.02	0.22	281	15.5	350	1.43	1.25	0.78	0.66	17.3	1.64	<5	0.8	0.28
X101065		99.95	0.07	1.74	215	27.0	240	0.89	2.48	1.46	0.99	16.4	3.13	<5	2.3	0.51

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
X101028		13.4	0.43	3.5	17.5	3.99	26.8	3.86	1	509	0.1	0.60	2.95	0.39	1.24	154
X101029		4.5	0.39	3.0	8.8	1.77	3.2	2.98	1	135.0	0.1	0.70	0.42	0.41	0.10	337
X101030		3.7	0.38	2.7	7.5	1.37	2.4	2.25	1	186.5	0.1	0.56	0.31	0.36	0.06	321
X101031		3.6	0.36	2.8	7.1	1.45	6.5	2.34	1	158.5	0.1	0.52	0.30	0.38	0.10	316
X101032		3.9	0.37	2.6	7.7	1.43	5.0	2.41	1	129.0	0.1	0.56	0.29	0.39	0.10	306
X101033		4.0	0.40	2.8	7.3	1.55	5.0	2.47	1	164.5	0.1	0.58	0.33	0.32	0.09	320
X101034		3.9	0.39	2.8	7.3	1.48	3.2	2.71	<1	148.0	0.1	0.62	0.35	0.41	0.10	327
X101035		3.9	0.43	2.9	7.4	1.47	6.0	2.29	1	132.5	0.1	0.62	0.30	0.39	0.08	325
X101036		6.7	0.29	4.4	9.6	2.15	6.9	2.65	1	156.0	0.1	0.54	0.89	0.33	0.26	278
X101037		6.9	0.33	3.9	9.4	2.15	7.4	2.69	1	157.0	0.1	0.59	1.03	0.35	0.27	287
X101038		7.6	0.37	4.2	10.2	2.29	7.8	3.08	1	166.5	0.1	0.62	0.98	0.35	0.29	297
X101039		7.2	0.35	4.4	10.9	2.18	7.7	3.13	1	154.0	0.1	0.67	1.00	0.37	0.32	313
X101040		7.9	0.36	4.5	11.2	2.49	11.0	3.29	1	156.5	0.2	0.75	1.14	0.43	0.30	328
X101041		8.4	0.39	4.9	11.6	2.45	11.9	3.45	1	154.5	0.2	0.65	1.17	0.41	0.38	343
X101042		7.6	0.32	4.4	10.7	2.27	11.1	3.35	1	147.0	0.1	0.66	1.11	0.38	0.31	315
X101043		8.5	0.41	5.2	12.4	2.69	12.6	3.70	1	150.0	0.2	0.72	1.21	0.43	0.36	356
X101044		6.9	0.11	1.5	8.2	1.97	32.3	1.67	<1	469	<0.1	0.24	0.93	0.12	0.25	196
X101045		9.8	0.14	2.3	13.3	2.81	41.3	3.10	<1	436	<0.1	0.36	1.14	0.15	0.34	248
X101046		8.2	0.11	1.5	9.2	2.15	41.7	1.69	<1	479	<0.1	0.23	1.22	0.13	0.40	133
X101047		8.7	0.10	1.6	8.9	2.22	42.7	1.98	<1	438	<0.1	0.23	2.72	0.11	0.38	150
X101048		9.8	0.25	6.3	10.7	2.57	4.4	2.74	2	67.4	0.3	0.44	1.97	0.23	1.01	178
X101049		8.5	0.10	1.3	8.9	2.20	33.8	1.93	1	475	<0.1	0.23	1.41	0.12	0.28	132
X101050		9.7	0.11	1.6	10.3	2.43	50.4	2.05	<1	497	<0.1	0.26	1.64	0.11	0.32	149
X101051		9.7	0.11	1.2	9.0	2.31	55.7	1.63	<1	438	<0.1	0.23	1.33	0.11	0.28	120
X101052		8.6	0.12	1.3	8.3	2.06	39.6	1.60	<1	369	<0.1	0.22	2.32	0.11	0.32	129
X101053		7.3	0.14	1.1	8.2	1.97	36.1	1.76	<1	354	<0.1	0.24	0.79	0.12	0.23	186
X101054		7.0	0.11	1.1	8.1	1.83	42.0	1.51	<1	287	<0.1	0.22	0.86	0.12	0.31	200
X101055		6.5	0.09	1.7	7.2	1.67	25.7	1.33	<1	231	<0.1	0.14	1.35	0.08	0.46	147
X101056		5.5	0.12	1.0	7.3	1.55	24.1	1.52	<1	210	<0.1	0.21	0.48	0.15	0.26	259
X101057		6.1	0.13	1.2	7.8	1.70	25.5	1.71	1	244	<0.1	0.22	0.71	0.14	0.33	306
X101058		4.5	0.11	0.7	6.5	1.35	24.9	1.26	<1	198.5	<0.1	0.18	0.38	0.10	0.58	159
X101059		5.9	0.10	1.1	7.5	1.61	34.2	1.47	<1	263	<0.1	0.20	0.71	0.11	0.32	215
X101060		6.1	0.13	1.5	7.9	1.78	30.9	1.60	1	323	<0.1	0.19	0.78	0.11	0.21	260
X101061		7.2	0.14	1.1	8.1	1.94	36.2	1.64	<1	344	<0.1	0.21	0.45	0.13	0.16	223
X101062		11.2	0.14	1.5	11.7	2.88	28.7	2.13	1	196.0	<0.1	0.32	0.55	0.13	0.25	268
X101063		6.8	0.14	1.8	8.7	2.03	15.7	2.08	1	169.5	<0.1	0.24	0.37	0.11	0.14	273
X101064		7.0	0.13	1.4	8.1	1.95	30.0	1.78	1	289	<0.1	0.22	0.66	0.12	0.17	234
X101065		12.2	0.18	7.2	14.5	3.31	16.0	2.64	4	253	0.3	0.42	1.60	0.16	0.47	124

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
X101028		63	23.2	2.59	129	0.9	0.04	0.005	0.008	<0.001	0.13	<0.2	<0.01	0.04	<0.5	<0.5
X101029		18	23.5	2.64	69	0.2	0.01	0.005	0.011	0.001	<0.05	0.4	0.01	0.04	<0.5	<0.5
X101030		3	21.0	2.18	62	0.2	0.01	0.005	0.009	0.001	<0.05	0.4	0.01	0.03	<0.5	<0.5
X101031		<1	21.6	2.27	63	0.2	0.01	0.006	0.011	0.001	<0.05	0.5	0.01	0.05	<0.5	<0.5
X101032		2	21.5	2.32	61	0.2	0.01	0.005	0.008	0.001	<0.05	0.3	0.01	0.04	<0.5	0.5
X101033		<1	21.9	2.55	65	0.1	<0.01	0.007	0.008	0.001	<0.05	0.4	<0.01	0.03	<0.5	<0.5
X101034		<1	21.9	2.59	65	0.1	0.01	0.005	0.008	0.001	<0.05	0.4	0.01	0.05	<0.5	<0.5
X101035		<1	22.2	2.36	64	0.1	0.01	0.007	0.009	<0.001	<0.05	0.3	0.01	0.06	<0.5	<0.5
X101036		42	19.4	2.05	73	0.4	0.01	<0.005	0.015	0.001	<0.05	0.2	<0.01	0.06	<0.5	0.6
X101037		4	21.0	2.09	91	0.5	0.02	<0.005	0.014	0.001	<0.05	0.3	<0.01	0.06	<0.5	<0.5
X101038		12	21.9	2.30	82	0.4	0.02	<0.005	0.016	0.001	<0.05	0.3	0.01	0.05	<0.5	<0.5
X101039		3	23.0	2.30	86	0.4	0.02	<0.005	0.014	0.001	<0.05	0.3	<0.01	0.08	<0.5	0.5
X101040		1	24.2	2.51	89	0.5	0.02	<0.005	0.013	0.001	<0.05	0.3	<0.01	0.08	<0.5	0.5
X101041		<1	25.0	2.59	93	0.5	0.03	<0.005	0.013	0.001	<0.05	0.4	<0.01	0.22	<0.5	0.6
X101042		<1	22.4	2.25	87	0.4	0.03	<0.005	0.011	<0.001	<0.05	0.2	<0.01	0.24	<0.5	0.6
X101043		<1	27.0	2.99	97	0.5	0.03	<0.005	0.012	0.001	<0.05	0.3	<0.01	0.07	<0.5	<0.5
X101044		<1	7.5	0.85	35	0.9	0.11	<0.005	0.007	<0.001	<0.05	0.4	0.08	0.03	<0.5	<0.5
X101045		2	10.5	0.93	47	1.4	0.25	<0.005	0.010	0.001	0.07	0.9	0.26	0.05	<0.5	<0.5
X101046		6	7.0	0.65	44	1.0	0.05	<0.005	<0.005	<0.001	0.05	<0.2	0.02	0.02	<0.5	<0.5
X101047		1	7.2	0.71	57	0.7	0.03	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101048		3	14.1	1.43	80	48.0	0.30	0.118	0.049	0.015	1.17	11.9	1.22	0.05	2.4	0.9
X101049		8	6.5	0.59	37	0.2	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
X101050		5	7.3	0.67	35	0.3	0.04	<0.005	0.006	<0.001	<0.05	<0.2	0.04	0.02	<0.5	<0.5
X101051		<1	6.8	0.71	35	0.4	0.06	<0.005	0.010	<0.001	<0.05	0.2	0.15	0.02	<0.5	<0.5
X101052		2	6.8	0.66	50	0.3	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
X101053		10	7.6	0.76	25	0.7	0.15	<0.005	0.006	<0.001	<0.05	0.3	0.06	0.02	<0.5	<0.5
X101054		6	7.4	0.90	24	1.4	0.17	<0.005	0.007	<0.001	0.05	0.4	0.20	0.02	<0.5	<0.5
X101055		3	5.3	0.49	29	0.9	0.05	<0.005	0.007	<0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
X101056		<1	6.9	0.82	41	0.9	0.08	<0.005	0.007	0.001	0.05	0.3	0.05	<0.02	<0.5	<0.5
X101057		3	7.4	0.91	25	0.6	0.06	<0.005	0.008	<0.001	<0.05	0.3	0.02	<0.02	<0.5	0.7
X101058		<1	6.8	0.82	17	0.6	0.07	<0.005	0.007	0.001	0.05	0.3	0.04	<0.02	<0.5	<0.5
X101059		<1	6.6	0.73	19	0.7	0.07	<0.005	0.007	0.001	<0.05	0.3	0.03	0.02	<0.5	<0.5
X101060		33	7.0	0.82	32	0.7	0.05	<0.005	0.007	<0.001	<0.05	0.3	0.02	0.02	<0.5	<0.5
X101061		3	7.2	0.84	24	0.6	0.06	<0.005	0.005	0.001	0.05	0.3	0.03	0.05	<0.5	0.6
X101062		<1	9.2	1.01	21	0.7	0.04	<0.005	0.011	<0.001	0.07	0.3	0.02	0.02	<0.5	0.6
X101063		69	8.2	0.92	27	0.7	0.15	<0.005	0.014	0.002	0.06	0.6	0.06	0.02	<0.5	0.8
X101064		9	7.6	0.84	33	0.9	0.08	<0.005	0.006	0.001	0.09	0.2	0.04	0.03	<0.5	0.6
X101065		8	12.7	1.22	92	4.4	0.97	0.012	0.065	0.005	0.36	5.0	0.58	0.09	2.1	1.0

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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
X101028		13	95	10	2	7	7	16	60	0.010	<0.005	0.002	0.026
X101029		55	151	10	<1	139	<2	43	117	0.001	<0.005	0.002	0.359
X101030		49	135	10	<1	121	<2	39	105	0.002	<0.005	0.002	0.386
X101031		49	125	10	<1	125	<2	41	103	0.003	<0.005	0.003	0.319
X101032		46	108	10	<1	108	<2	38	101	0.004	<0.005	0.003	0.329
X101033		46	107	10	<1	103	<2	38	101	<0.001	<0.005	0.002	0.329
X101034		47	104	10	<1	112	<2	38	98	<0.001	<0.005	0.002	0.330
X101035		47	118	10	<1	112	<2	39	97	0.001	<0.005	0.002	0.382
X101036		56	159	10	<1	196	2	25	98	0.003	0.006	0.016	0.166
X101037		57	168	10	<1	190	<2	26	97	0.003	0.006	0.017	0.163
X101038		55	182	10	<1	168	<2	28	99	0.004	0.005	0.017	0.177
X101039		56	190	10	<1	157	<2	29	103	0.004	0.005	0.018	0.187
X101040		48	186	10	<1	117	2	29	100	0.004	<0.005	0.019	0.157
X101041		54	211	10	<1	121	<2	33	114	0.003	<0.005	0.021	0.230
X101042		55	202	10	<1	147	<2	32	123	0.004	0.005	0.019	0.188
X101043		50	195	10	<1	100	<2	34	109	0.004	<0.005	0.022	0.207
X101044		32	324	30	1	221	<2	19	58	0.023	0.022	0.191	0.300
X101045		41	1040	30	<1	246	6	25	59	0.066	0.057	0.291	0.703
X101046		28	85	30	<1	97	<2	14	36	0.005	0.011	0.036	0.075
X101047		29	24	30	<1	90	<2	16	34	0.001	0.011	0.003	0.035
X101048		145	5520	40	2	2070	8	24	77	0.120	0.705	0.359	10.00
X101049		31	16	40	<1	99	<2	14	39	0.001	0.011	0.021	0.009
X101050		38	53	50	<1	128	3	15	46	0.002	0.010	0.029	0.048
X101051		39	51	50	<1	148	<2	17	42	0.002	0.033	0.083	0.049
X101052		54	54	50	<1	184	<2	16	55	0.001	<0.005	0.007	0.031
X101053		58	304	40	<1	230	<2	18	63	0.014	0.021	0.051	0.193
X101054		56	506	50	<1	324	<2	23	54	0.025	0.083	0.179	0.439
X101055		25	98	30	<1	128	<2	15	30	0.002	0.008	0.012	0.088
X101056		61	248	50	<1	226	<2	16	51	0.004	0.008	0.033	0.291
X101057		60	74	40	<1	221	3	19	55	0.001	<0.005	0.012	0.204
X101058		63	137	70	<1	245	<2	22	64	0.004	0.006	0.010	0.234
X101059		59	208	60	<1	244	3	19	65	0.006	0.008	0.016	0.193
X101060		60	167	40	<1	229	3	16	86	0.004	0.007	0.018	0.197
X101061		59	171	40	<1	223	5	20	142	0.003	0.005	0.025	0.218
X101062		58	211	90	<1	238	5	23	64	0.004	<0.005	0.012	0.196
X101063		81	463	60	1	320	4	21	320	0.010	0.015	0.026	0.447
X101064		58	185	60	<1	224	<2	18	180	0.004	0.005	0.018	0.213
X101065		113	4580	20	4	4310	26	12	109	0.070	0.314	0.621	3.91

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064235

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		