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: 5-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18064236

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

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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
W871410		0.08	62.3	16.55	6.09	6.02	2.72	3.30	1.47	<0.01	0.49	0.12	0.14	0.06	0.06	0.96
W871411		0.07	42.3	9.19	15.40	15.60	10.90	0.62	0.22	0.11	0.70	0.14	0.12	0.01	0.03	4.34
W871412		2.23	53.9	16.05	9.72	7.98	6.76	4.29	0.30	0.05	0.87	0.23	0.07	0.02	0.01	0.85
W871413		2.26	48.9	16.00	13.60	7.86	5.59	4.57	0.26	0.05	0.90	0.23	0.06	0.01	0.01	1.81
W871414		2.35	52.0	16.15	10.70	7.95	6.18	4.73	0.26	0.05	0.88	0.21	0.06	0.01	0.01	1.09
W871415		2.15	49.3	15.30	11.10	9.05	6.28	4.02	0.34	0.05	0.86	0.22	0.07	0.01	0.01	1.44
W871416		2.37	52.1	16.35	10.30	8.15	6.10	4.71	0.37	0.05	0.89	0.21	0.06	0.01	0.01	1.25
W871417		2.16	52.5	15.95	10.50	8.04	5.54	4.76	0.36	0.05	0.87	0.23	0.07	0.01	0.01	1.14
W871418		2.23	37.6	12.55	11.35	17.60	6.01	2.65	0.69	0.04	0.67	0.22	0.05	0.01	0.01	8.76
W871419		2.28	48.4	15.35	9.58	9.05	4.64	4.69	0.27	0.04	0.81	0.19	0.06	0.01	0.01	1.72
W871420		2.21	51.0	15.35	10.55	9.03	5.13	4.61	0.35	0.04	0.89	0.22	0.07	0.02	0.01	1.04
W871421		2.50	49.2	13.85	16.45	9.24	6.49	2.53	0.43	0.02	1.40	0.27	0.13	0.01	0.01	0.87
W871422		2.47	50.6	13.00	16.50	8.90	6.70	1.91	0.51	0.02	1.44	0.26	0.11	0.01	0.01	1.16
W871423		2.35	50.5	13.25	16.45	9.26	6.38	2.15	0.52	0.02	1.41	0.25	0.11	0.01	0.01	0.91
W871424		2.47	49.7	13.25	16.80	8.77	6.55	2.30	0.53	0.02	1.43	0.27	0.12	0.01	0.01	0.95
W871425		2.37	50.6	14.85	13.05	10.00	5.56	2.39	0.64	0.03	1.12	0.24	0.09	0.01	0.02	1.79
W871426		2.24	53.2	16.05	11.00	9.57	5.02	3.00	0.59	0.04	0.94	0.22	0.07	0.01	0.02	1.22
W871427		2.30	50.9	15.85	11.75	10.75	5.52	2.75	0.72	0.04	0.92	0.23	0.07	0.01	0.02	1.70
W871428		2.32	51.1	15.65	12.60	9.79	6.10	2.77	0.58	0.04	0.91	0.26	0.07	0.02	0.02	1.11
W871429		2.44	50.7	15.55	11.90	9.42	6.32	2.90	0.78	0.04	0.92	0.26	0.08	0.01	0.02	1.29
W871430		0.07	47.0	12.95	21.1	6.17	6.55	2.16	0.63	0.03	1.24	0.19	0.16	0.03	0.02	1.15
W871431		2.33	50.5	15.55	11.45	11.35	5.31	2.78	0.52	0.04	0.90	0.23	0.07	0.01	0.01	2.28
W871432		2.31	51.2	16.05	11.45	10.30	5.07	2.73	0.38	0.04	0.94	0.22	0.07	0.01	0.01	1.82
W871433		2.39	49.9	16.25	11.55	9.91	5.33	3.18	0.75	0.04	0.97	0.22	0.07	0.01	0.02	2.19
W871434		2.31	52.3	16.00	11.10	8.79	5.07	3.62	0.72	0.04	0.94	0.22	0.08	0.01	0.02	1.18
W871435		2.48	52.3	15.95	11.45	10.75	4.78	2.26	0.56	0.04	0.93	0.22	0.06	0.01	0.01	1.32
W871436		2.46	49.7	15.30	11.95	10.75	5.39	2.02	0.51	0.04	0.90	0.23	0.07	0.01	0.01	1.17
W871437		2.53	47.8	14.95	14.10	12.25	5.23	1.70	0.33	0.04	0.87	0.31	0.07	0.01	0.01	1.99
W871438		2.47	52.6	15.80	11.50	11.35	4.65	2.18	0.35	0.04	0.92	0.24	0.07	<0.01	0.01	1.27
W871439		2.40	50.1	15.50	11.20	11.25	4.12	2.17	0.48	0.04	0.90	0.21	0.06	0.01	0.01	2.20
W871440		2.24	51.9	16.50	11.45	10.25	4.69	2.51	0.48	0.04	0.96	0.22	0.06	0.01	0.01	1.77
W871441		2.24	53.1	16.10	10.40	10.70	4.63	2.34	0.27	0.04	0.94	0.20	0.07	0.01	0.01	1.20
W871442		2.38	50.5	15.75	11.20	11.30	5.26	2.28	0.36	0.04	0.92	0.23	0.06	0.01	0.01	1.91
W871443		2.35	50.8	16.20	11.30	10.85	5.23	2.04	0.59	0.04	0.96	0.22	0.07	0.01	0.01	1.35
W871444		2.31	51.9	16.00	12.35	11.15	4.73	2.03	0.48	0.04	0.94	0.24	0.07	0.01	0.01	0.94
W871445		2.35	50.0	15.50	11.95	11.00	4.83	3.04	0.35	0.04	0.89	0.24	0.07	0.01	0.01	1.06
W871446		2.33	51.4	15.90	11.85	8.60	4.89	4.19	0.26	0.04	0.93	0.24	0.06	0.01	0.01	0.82
W871447		2.40	51.7	16.25	12.40	8.21	5.47	4.37	0.22	0.04	0.95	0.26	0.07	0.01	0.01	0.70
W871448		2.37	49.9	15.75	13.00	9.28	6.96	3.23	0.43	0.04	0.91	0.24	0.08	0.01	0.01	1.24
W871449		2.36	48.3	15.35	13.40	9.79	7.32	2.62	0.42	0.04	0.90	0.22	0.08	0.01	0.01	1.08

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THUNDER BAY ON P7B 2R2

Finalized Date: 5-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064236

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
W871410		100.28	0.03	0.01	581	27.2	10	0.63	3.51	2.47	0.80	17.5	3.55	<5	3.2	0.83
W871411		99.68	0.23	2.56	296	20.2	750	0.43	2.29	1.61	0.67	11.4	2.60	<5	2.1	0.42
W871412		101.10	0.01	0.08	106.0	6.9	310	0.19	2.83	2.29	0.64	17.3	2.67	<5	1.3	0.64
W871413		99.85	0.16	0.91	80.3	7.5	360	0.40	3.10	2.35	0.68	19.3	2.70	<5	1.6	0.71
W871414		100.28	0.05	0.24	69.8	6.5	330	0.25	3.06	1.73	0.70	16.8	2.41	<5	1.3	0.65
W871415		98.05	0.16	0.20	83.8	6.7	330	0.69	3.21	2.18	0.69	18.3	2.67	<5	1.2	0.76
W871416		100.56	0.10	0.12	75.6	6.7	330	0.41	3.07	1.83	0.71	17.4	2.60	<5	1.2	0.59
W871417		100.03	0.11	0.02	83.7	6.7	340	0.21	3.14	1.88	0.72	17.7	2.47	<5	1.4	0.68
W871418		98.21	2.41	0.51	104.5	6.4	260	1.52	3.09	1.86	0.66	15.6	2.25	<5	1.2	0.63
W871419		94.82	0.34	0.09	73.3	6.8	330	0.29	2.70	1.92	0.73	16.8	2.60	<5	1.3	0.68
W871420		98.31	0.16	0.08	102.0	7.3	320	0.13	3.38	2.05	0.83	18.1	2.59	<5	1.2	0.73
W871421		100.90	0.05	0.09	84.4	10.5	140	0.27	4.34	2.55	0.99	17.6	3.96	<5	2.0	0.89
W871422		101.13	0.06	0.15	112.0	12.4	120	0.55	4.59	3.16	1.03	19.5	3.82	<5	2.2	1.00
W871423		101.23	0.05	0.15	124.0	12.7	140	0.42	4.72	3.41	1.05	19.9	4.05	<5	2.5	1.08
W871424		100.71	0.05	0.24	129.5	13.2	130	0.30	5.00	3.17	1.08	19.2	4.37	<5	2.4	0.99
W871425		100.39	0.13	0.15	119.5	8.6	190	0.44	3.62	2.07	0.72	16.1	3.35	<5	1.7	0.75
W871426		100.95	0.07	0.08	144.5	7.9	280	0.67	3.52	2.24	0.86	18.3	3.16	<5	1.4	0.78
W871427		101.23	0.09	0.08	152.5	7.4	250	0.70	3.01	2.10	0.77	17.3	2.65	<5	1.4	0.64
W871428		101.02	0.04	0.06	147.5	8.2	270	0.56	3.40	2.23	0.64	16.6	2.97	<5	1.6	0.75
W871429		100.19	0.05	0.07	207	8.1	280	0.68	3.34	2.80	0.86	17.4	2.88	<5	1.5	0.76
W871430		99.38	0.08	1.77	221	25.6	250	0.95	2.54	1.36	1.08	16.5	2.43	<5	2.4	0.49
W871431		101.00	0.36	0.08	117.5	7.9	270	0.38	3.39	2.31	0.77	17.1	2.91	<5	1.4	0.79
W871432		100.29	0.22	0.17	96.5	7.4	280	0.45	3.66	2.16	0.80	18.3	3.12	<5	1.5	0.77
W871433		100.39	0.19	0.12	197.0	7.7	280	3.15	3.37	2.35	0.77	18.0	2.76	<5	1.5	0.69
W871434		100.09	0.04	0.09	155.0	7.3	280	0.45	3.23	2.12	0.79	16.7	2.76	<5	1.5	0.79
W871435		100.64	0.19	0.11	127.0	7.4	290	0.60	3.50	2.09	0.83	18.4	2.93	<5	1.6	0.70
W871436		98.05	0.10	0.09	102.0	7.9	270	0.50	3.53	2.40	0.70	17.7	3.04	<5	1.6	0.68
W871437		99.66	0.39	0.18	69.7	7.7	260	0.37	3.53	2.25	0.68	17.8	2.86	<5	1.5	0.79
W871438		100.98	0.19	0.25	80.8	7.3	260	0.17	3.41	2.12	0.79	16.4	3.08	<5	1.5	0.76
W871439		98.25	0.43	0.23	126.5	8.3	290	0.46	3.83	2.46	0.78	19.4	3.06	<5	1.6	0.73
W871440		100.85	0.24	0.23	104.5	6.5	260	0.61	2.96	2.29	0.71	17.9	2.51	<5	1.4	0.68
W871441		100.01	0.15	0.13	69.4	6.4	240	0.25	2.79	1.94	0.61	15.8	2.13	<5	1.4	0.70
W871442		99.83	0.34	0.17	91.4	7.7	270	0.41	3.47	2.29	0.77	17.8	2.98	<5	1.4	0.75
W871443		99.67	0.14	0.16	134.0	8.0	280	0.46	3.54	2.28	1.15	18.8	3.15	<5	1.5	0.75
W871444		100.89	0.12	0.26	106.5	8.5	280	0.31	3.13	2.27	0.74	18.3	3.01	<5	1.5	0.72
W871445		98.99	0.22	0.26	93.2	7.2	280	0.15	3.09	2.49	0.75	17.3	2.93	<5	1.5	0.72
W871446		99.20	0.08	0.43	85.0	7.4	270	0.16	3.17	2.15	0.69	17.2	2.51	<5	1.5	0.68
W871447		100.66	0.03	0.23	72.4	7.9	280	0.14	3.51	2.47	0.77	19.1	2.95	<5	1.6	0.81
W871448		101.08	0.07	0.29	99.3	7.5	290	0.26	3.41	1.94	0.58	18.0	2.90	<5	1.7	0.78
W871449		99.54	0.03	0.25	85.5	7.9	270	0.32	3.28	2.00	0.71	17.3	3.26	<5	1.5	0.73

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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
W871410		12.3	0.38	2.9	15.9	3.86	25.4	3.99	1	455	0.2	0.64	2.72	0.36	1.07	146
W871411		9.8	0.23	5.9	10.3	2.59	4.5	2.96	2	65.1	0.4	0.44	1.85	0.23	0.92	177
W871412		2.9	0.29	2.0	5.5	1.10	7.3	1.87	1	155.5	0.2	0.43	0.19	0.29	<0.05	288
W871413		3.0	0.34	2.1	5.6	1.19	5.4	1.86	1	117.5	0.2	0.49	0.23	0.37	0.07	326
W871414		2.4	0.31	2.1	5.1	1.10	5.6	1.91	2	102.0	0.1	0.43	0.21	0.30	0.06	312
W871415		3.0	0.28	2.2	5.4	1.09	8.0	2.06	1	92.0	0.1	0.45	0.18	0.26	<0.05	304
W871416		2.5	0.25	2.0	5.4	1.02	7.8	1.89	1	102.5	0.1	0.48	0.20	0.29	<0.05	302
W871417		2.8	0.27	2.2	6.0	1.20	7.9	2.21	1	87.4	0.2	0.41	0.17	0.33	0.05	305
W871418		2.8	0.28	1.6	5.4	0.96	14.0	1.74	1	93.1	0.1	0.51	0.13	0.27	0.12	253
W871419		2.7	0.32	1.9	5.4	1.01	5.1	1.88	2	127.5	0.2	0.54	0.20	0.34	0.05	305
W871420		2.8	0.30	2.1	5.9	1.20	5.4	1.97	1	136.5	0.1	0.50	0.20	0.29	0.07	305
W871421		4.2	0.47	3.6	9.2	1.76	9.0	2.58	1	93.5	0.2	0.66	0.33	0.36	0.08	338
W871422		4.7	0.49	3.8	9.8	1.86	14.5	3.29	<1	105.0	0.3	0.68	0.39	0.43	0.09	376
W871423		5.0	0.43	3.9	10.3	2.12	14.4	3.19	1	109.0	0.3	0.77	0.43	0.47	0.12	379
W871424		5.6	0.50	4.7	10.6	2.04	12.7	3.04	1	105.5	0.3	0.72	0.44	0.51	0.10	378
W871425		3.2	0.35	2.7	6.9	1.27	14.2	1.88	1	92.8	0.1	0.50	0.21	0.39	0.05	294
W871426		3.0	0.39	2.4	5.8	1.28	17.7	2.16	1	148.0	0.2	0.53	0.29	0.34	<0.05	329
W871427		2.8	0.34	2.1	5.9	1.17	19.2	2.13	1	132.5	0.1	0.47	0.15	0.34	0.05	291
W871428		3.0	0.32	2.5	6.2	1.19	16.3	2.16	1	149.5	0.1	0.50	0.22	0.34	<0.05	318
W871429		3.2	0.36	2.3	6.9	1.30	23.1	2.02	1	150.0	0.2	0.56	0.26	0.32	0.06	331
W871430		11.8	0.17	7.3	13.2	3.05	16.2	3.14	4	253	0.4	0.47	1.66	0.21	0.51	126
W871431		3.0	0.38	2.3	6.3	1.32	14.1	1.91	1	136.0	0.2	0.51	0.20	0.34	0.05	323
W871432		2.8	0.35	2.2	6.1	1.24	8.5	2.40	1	131.5	0.2	0.56	0.19	0.37	0.07	325
W871433		2.9	0.38	2.8	6.8	1.29	22.1	2.04	1	129.5	0.2	0.51	0.21	0.38	0.05	332
W871434		2.8	0.34	2.4	6.2	1.16	19.7	2.05	1	139.0	0.1	0.50	0.24	0.30	0.06	317
W871435		2.7	0.32	2.3	6.1	1.09	14.4	1.93	1	124.5	0.2	0.46	0.26	0.33	0.08	320
W871436		2.8	0.34	2.3	6.2	1.24	15.3	2.16	1	129.0	0.1	0.53	0.21	0.31	0.07	319
W871437		2.8	0.39	2.4	6.4	1.20	8.3	2.01	<1	94.8	0.1	0.53	0.20	0.33	0.09	308
W871438		2.8	0.33	2.3	6.1	1.13	8.4	2.29	1	101.5	0.1	0.49	0.19	0.32	0.05	307
W871439		3.2	0.36	2.5	6.6	1.28	10.7	2.23	1	117.5	0.1	0.56	0.22	0.32	0.09	340
W871440		2.4	0.33	2.2	6.1	1.10	10.1	1.91	<1	96.7	0.1	0.44	0.22	0.29	<0.05	304
W871441		2.4	0.26	2.2	5.2	1.09	5.2	1.85	1	110.5	0.1	0.46	0.20	0.27	<0.05	282
W871442		2.9	0.33	2.3	6.3	1.15	8.9	2.00	1	125.0	0.1	0.49	0.21	0.34	0.05	309
W871443		2.9	0.36	2.6	7.2	1.28	14.9	2.06	1	141.5	0.2	0.49	0.23	0.30	0.06	334
W871444		3.1	0.38	2.6	6.4	1.19	11.6	2.29	<1	113.0	0.1	0.53	0.21	0.33	0.05	322
W871445		2.6	0.36	2.4	6.9	1.14	7.0	2.20	1	126.5	0.1	0.52	0.21	0.36	0.06	311
W871446		2.8	0.31	2.3	6.2	1.19	4.0	2.24	1	131.5	0.1	0.48	0.24	0.30	0.06	310
W871447		2.8	0.35	2.7	6.4	1.29	3.1	2.13	1	127.5	0.2	0.55	0.23	0.38	0.09	333
W871448		2.8	0.32	2.4	6.2	1.21	9.1	2.12	1	111.5	0.1	0.45	0.26	0.29	0.07	295
W871449		2.8	0.31	2.2	6.4	1.33	9.0	2.30	1	116.0	0.1	0.47	0.25	0.36	0.08	282

***** 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: 5-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064236

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
W871410		4	21.8	2.44	123	0.8	0.05	0.005	0.009	<0.001	0.13	<0.2	<0.01	0.04	<0.5	<0.5
W871411		4	13.8	1.37	81	47.1	0.30	0.130	0.050	0.017	1.21	12.2	1.27	0.06	2.7	0.5
W871412		5	16.5	2.04	46	1.0	0.02	<0.005	0.009	<0.001	<0.05	0.2	0.02	0.06	<0.5	<0.5
W871413		<1	18.3	2.05	54	0.4	0.13	<0.005	0.020	0.001	<0.05	1.3	0.07	0.08	<0.5	<0.5
W871414		10	16.9	2.10	49	0.6	0.02	<0.005	0.012	0.001	0.05	0.4	0.03	0.05	<0.5	<0.5
W871415		5	16.9	1.73	48	0.5	0.03	<0.005	0.016	0.001	0.06	0.2	0.03	0.07	<0.5	0.6
W871416		1	16.2	2.04	48	0.3	0.03	<0.005	0.014	0.001	<0.05	<0.2	0.02	0.06	<0.5	<0.5
W871417		19	17.0	1.96	51	0.2	0.02	<0.005	0.013	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W871418		<1	17.6	1.80	39	0.5	0.12	0.007	0.030	0.001	<0.05	0.8	0.06	0.14	<0.5	0.7
W871419		2	17.1	1.97	49	0.2	0.01	<0.005	0.017	0.001	<0.05	0.2	0.02	0.05	<0.5	<0.5
W871420		<1	17.9	1.94	51	0.1	0.03	<0.005	0.018	0.001	<0.05	<0.2	0.03	0.05	<0.5	0.5
W871421		9	22.7	2.81	74	0.3	0.02	<0.005	0.017	0.001	<0.05	0.3	0.01	0.03	<0.5	0.7
W871422		11	26.5	2.84	82	0.3	0.01	<0.005	0.014	0.002	<0.05	0.4	0.02	0.04	<0.5	0.6
W871423		<1	27.1	3.13	88	0.3	0.02	<0.005	0.016	0.001	<0.05	0.4	0.01	0.02	<0.5	<0.5
W871424		3	27.3	3.25	86	0.2	0.05	<0.005	0.017	0.002	<0.05	0.4	0.02	0.03	<0.5	<0.5
W871425		6	19.7	2.71	59	0.4	0.04	<0.005	0.016	0.001	<0.05	0.2	0.01	0.06	<0.5	0.6
W871426		15	20.6	2.12	55	0.4	0.03	<0.005	0.009	0.001	<0.05	0.2	0.01	0.05	<0.5	0.5
W871427		3	17.8	2.08	49	0.3	0.03	<0.005	0.011	0.001	<0.05	0.3	0.02	0.09	<0.5	<0.5
W871428		1	19.4	2.64	53	0.4	0.03	<0.005	0.009	0.001	<0.05	0.2	0.02	0.04	<0.5	0.5
W871429		17	20.5	2.21	55	0.7	0.04	<0.005	0.009	0.001	<0.05	0.3	0.02	0.05	<0.5	1.1
W871430		9	12.8	1.43	99	3.5	0.84	0.009	0.064	0.005	0.27	5.1	0.63	0.09	2.0	1.1
W871431		8	20.4	2.54	54	0.2	0.02	<0.005	0.009	0.001	0.06	0.4	<0.01	0.08	<0.5	<0.5
W871432		2	18.9	2.58	53	0.3	0.02	<0.005	0.011	0.001	0.07	0.7	0.01	0.08	<0.5	<0.5
W871433		16	19.5	2.19	56	0.3	0.04	<0.005	0.013	0.001	0.08	0.5	0.01	0.09	<0.5	<0.5
W871434		3	18.7	2.13	54	0.4	0.04	<0.005	0.011	0.001	<0.05	0.5	0.01	0.08	<0.5	<0.5
W871435		2	18.8	2.31	56	0.4	0.02	<0.005	0.010	0.001	<0.05	0.5	0.02	0.09	<0.5	0.5
W871436		6	19.0	2.44	54	0.4	0.01	<0.005	0.007	<0.001	<0.05	0.3	0.01	0.07	<0.5	<0.5
W871437		3	20.0	2.38	51	0.2	0.01	<0.005	0.009	<0.001	<0.05	0.7	0.03	0.05	<0.5	<0.5
W871438		6	18.4	2.01	53	0.1	0.03	<0.005	0.008	0.001	<0.05	0.6	0.03	0.07	<0.5	0.5
W871439		12	20.7	2.00	58	0.2	0.03	<0.005	0.012	0.001	<0.05	0.8	0.02	0.10	<0.5	0.5
W871440		1	17.3	2.02	52	0.2	0.03	<0.005	0.012	0.001	<0.05	0.5	0.02	0.12	<0.5	0.6
W871441		1	16.2	2.21	48	0.2	0.01	<0.005	0.008	0.001	<0.05	0.4	0.01	0.09	<0.5	0.5
W871442		2	18.2	2.31	53	0.2	0.02	<0.005	0.009	<0.001	<0.05	0.3	0.02	0.09	<0.5	<0.5
W871443		2	20.7	2.13	57	0.2	0.03	<0.005	0.010	<0.001	<0.05	0.3	0.01	0.11	<0.5	0.5
W871444		11	20.3	2.47	55	0.2	0.03	<0.005	0.010	0.001	<0.05	0.4	0.03	0.07	<0.5	0.5
W871445		10	19.1	2.28	53	0.4	0.02	<0.005	0.012	<0.001	<0.05	0.5	0.03	0.05	<0.5	0.5
W871446		1	18.5	2.13	54	0.4	0.03	<0.005	0.016	0.001	<0.05	0.5	0.04	0.06	<0.5	<0.5
W871447		3	20.2	2.42	57	0.1	0.02	<0.005	0.015	<0.001	<0.05	0.4	0.02	0.03	<0.5	<0.5
W871448		7	17.0	2.16	53	0.1	0.02	<0.005	0.017	<0.001	<0.05	0.3	0.01	0.04	<0.5	0.6
W871449		1	18.6	2.07	57	0.2	0.02	<0.005	0.014	0.001	<0.05	0.4	0.02	0.05	<0.5	0.5

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

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

Finalized Date: 5-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064236

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
W871410		13	90	10	1	8	3	18	56	0.002	<0.005	0.001	0.024
W871411		149	5380	40	2	2080	2	24	74	0.146	0.698	0.360	9.86
W871412		48	149	20	<1	145	<2	43	90	0.001	<0.005	0.003	0.172
W871413		61	239	30	<1	157	<2	46	84	0.001	<0.005	0.004	1.145
W871414		51	141	20	<1	141	2	41	72	<0.001	<0.005	0.003	0.413
W871415		46	76	20	<1	147	<2	42	62	<0.001	<0.005	0.003	0.303
W871416		51	106	20	<1	136	2	40	82	<0.001	<0.005	0.003	0.194
W871417		47	93	20	<1	141	<2	39	74	<0.001	<0.005	0.003	0.058
W871418		54	226	30	<1	116	9	32	264	0.001	<0.005	0.002	0.697
W871419		47	110	10	<1	140	<2	40	54	<0.001	<0.005	0.003	0.193
W871420		53	146	10	<1	143	<2	42	70	<0.001	<0.005	0.004	0.129
W871421		49	117	20	<1	66	2	42	105	<0.001	<0.005	<0.001	0.296
W871422		49	126	20	<1	55	5	40	131	<0.001	<0.005	<0.001	0.419
W871423		50	154	20	<1	57	3	41	106	<0.001	<0.005	<0.001	0.393
W871424		50	102	20	<1	53	<2	40	115	<0.001	<0.005	<0.001	0.431
W871425		48	62	30	<1	96	4	41	142	<0.001	<0.005	0.001	0.250
W871426		51	134	20	<1	120	<2	43	80	<0.001	<0.005	0.001	0.247
W871427		51	114	30	<1	119	2	40	89	0.001	<0.005	<0.001	0.278
W871428		47	117	20	<1	116	4	38	116	<0.001	<0.005	0.001	0.199
W871429		50	128	30	<1	117	<2	41	193	<0.001	<0.005	<0.001	0.286
W871430		115	4470	20	5	4370	26	12	109	0.092	0.291	0.607	3.89
W871431		51	123	20	<1	126	<2	41	101	<0.001	<0.005	0.002	0.238
W871432		49	135	20	<1	123	<2	40	84	<0.001	<0.005	0.001	0.377
W871433		48	118	40	<1	121	2	40	132	<0.001	<0.005	<0.001	0.300
W871434		50	161	20	<1	121	3	41	157	<0.001	<0.005	0.001	0.294
W871435		49	147	20	<1	121	<2	42	132	<0.001	<0.005	<0.001	0.339
W871436		48	131	20	<1	118	4	41	105	<0.001	<0.005	<0.001	0.269
W871437		49	135	10	<1	120	<2	40	102	<0.001	<0.005	0.001	0.416
W871438		55	172	10	<1	123	<2	41	96	<0.001	<0.005	0.001	0.447
W871439		49	158	20	<1	118	2	41	93	<0.001	<0.005	<0.001	0.479
W871440		57	158	20	<1	122	3	41	110	<0.001	<0.005	<0.001	0.381
W871441		50	129	10	<1	121	<2	41	99	<0.001	<0.005	<0.001	0.310
W871442		48	120	20	<1	114	2	38	92	<0.001	<0.005	0.001	0.355
W871443		50	140	20	<1	119	<2	40	101	<0.001	<0.005	0.001	0.345
W871444		52	191	10	<1	121	2	41	120	<0.001	<0.005	0.001	0.422
W871445		47	149	10	<1	115	<2	40	107	<0.001	<0.005	<0.001	0.316
W871446		49	157	10	<1	119	2	42	87	<0.001	<0.005	0.001	0.417
W871447		50	108	10	<1	127	<2	43	96	<0.001	<0.005	0.001	0.314
W871448		51	143	30	<1	130	3	40	152	<0.001	<0.005	<0.001	0.203
W871449		50	130	20	<1	130	<2	37	123	<0.001	<0.005	0.001	0.221

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

Finalized Date: 5-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064236

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
W871450		0.09	61.0	16.35	5.95	5.98	2.62	3.22	1.45	<0.01	0.48	0.12	0.15	0.05	0.07	1.04
W871451		2.50	48.1	14.80	13.90	9.87	6.82	2.33	0.50	0.03	1.09	0.24	0.09	0.01	0.01	0.91
W871452		2.43	48.1	14.95	12.95	10.65	7.11	2.21	0.66	0.03	0.96	0.22	0.07	0.01	0.01	1.37
W871453		2.38	47.3	15.15	13.75	9.56	6.43	2.51	0.57	0.03	1.09	0.22	0.08	0.01	0.01	1.39
W871454		2.30	49.2	15.40	14.30	10.00	6.46	2.52	0.56	0.03	1.11	0.24	0.09	0.01	0.01	1.09
W871455		2.34	48.7	15.40	13.65	9.56	6.42	2.70	0.57	0.03	1.08	0.24	0.08	0.01	0.01	1.22
W871456		2.31	48.7	14.35	11.90	9.56	7.37	2.94	0.62	0.05	0.99	0.20	0.36	0.05	0.02	1.52
W871457		2.27	47.9	12.10	11.75	11.05	9.44	1.82	0.65	0.10	0.88	0.20	0.36	0.04	0.03	2.56
W871458		2.29	45.4	13.50	10.25	16.25	6.21	1.53	0.48	0.06	0.79	0.17	0.26	0.02	0.02	5.02
W871459		2.41	49.4	14.00	12.85	9.56	7.59	2.81	0.57	0.05	1.08	0.23	0.22	0.03	0.02	1.55
W871460		2.42	48.4	14.20	13.55	9.61	6.80	2.63	0.30	0.03	1.03	0.24	0.07	0.01	0.01	1.49
W871461		2.46	47.6	14.85	12.95	10.30	7.32	2.15	0.61	0.04	0.84	0.21	0.06	0.01	0.02	1.65
W871462		2.48	49.0	14.50	12.45	10.80	7.03	2.28	0.57	0.04	0.84	0.23	0.07	0.01	0.01	1.36
W871463		2.42	50.0	14.65	12.65	9.43	6.66	3.27	0.32	0.04	0.88	0.26	0.05	0.01	0.01	0.90
W871464		2.30	49.8	15.10	11.90	10.05	5.11	3.57	0.29	0.04	0.90	0.26	0.06	0.01	0.01	0.97
W871465		2.29	49.0	14.65	13.55	9.56	6.78	3.11	0.33	0.04	0.86	0.26	0.07	0.02	0.01	0.83
W871466		2.34	49.4	14.35	13.05	10.25	7.55	2.51	0.34	0.04	0.87	0.24	0.06	0.01	0.01	0.98
W871467		2.35	49.7	14.80	12.40	10.55	7.80	2.27	0.39	0.04	0.76	0.21	0.06	0.01	0.01	0.97
W871468		2.21	48.9	14.55	11.85	10.70	8.14	1.97	0.43	0.05	0.67	0.20	0.04	<0.01	0.01	0.89
W871469		2.44	49.8	14.70	11.65	10.20	8.61	2.29	0.60	0.05	0.65	0.20	0.04	0.01	0.01	1.36
W871470		0.08	42.3	8.89	14.70	15.55	10.60	0.61	0.23	0.11	0.69	0.14	0.12	<0.01	0.03	4.03
W871471		2.43	48.4	15.30	12.05	10.00	8.46	1.93	1.02	0.05	0.66	0.21	0.05	0.01	0.02	1.62
W871472		2.30	49.3	14.95	11.90	9.52	8.71	1.87	1.16	0.05	0.69	0.23	0.04	0.01	0.02	1.83
W871473		2.49	48.7	14.25	12.85	9.86	8.05	1.89	0.48	0.04	0.77	0.20	0.05	0.01	0.01	2.02
W871474		2.44	49.7	13.35	15.10	9.70	6.95	1.95	0.40	0.01	1.03	0.27	0.07	0.01	0.01	1.66
W871475		2.33	51.5	15.20	12.00	8.70	6.56	3.46	0.30	0.03	0.98	0.24	0.08	0.01	0.01	1.60
W871476		1.57	62.8	15.35	6.18	5.80	3.66	4.34	1.35	0.02	0.58	0.11	0.22	0.07	0.07	1.38
W871477		1.81	61.8	15.15	6.14	5.88	3.62	4.20	1.43	0.02	0.58	0.11	0.22	0.07	0.08	1.26
W871478		3.45	52.1	14.55	12.10	9.86	6.66	2.57	0.33	0.03	0.96	0.20	0.08	0.02	0.01	1.22
W871479		2.47	49.5	14.15	13.40	10.55	6.85	2.02	0.40	0.03	1.08	0.22	0.08	0.01	0.01	1.32
W871480		2.40	50.6	14.75	12.00	10.50	6.11	3.12	0.28	0.04	0.99	0.20	0.07	0.01	0.01	1.24
W871481		2.39	50.2	14.90	11.40	10.90	5.72	3.33	0.38	0.05	0.89	0.22	0.07	0.01	0.01	1.49
W871482		2.44	51.7	15.05	11.00	12.35	5.06	2.08	0.32	0.06	0.89	0.20	0.06	0.01	0.01	1.28
W871483		2.50	50.9	14.40	12.60	10.85	5.42	2.61	0.28	0.03	1.06	0.24	0.09	0.01	0.01	1.30
W871484		2.66	50.0	14.15	12.50	11.60	5.42	2.86	0.31	0.03	1.02	0.25	0.09	0.01	0.01	1.42
W871485		2.51	49.9	14.75	11.65	12.45	5.50	2.38	0.37	0.04	0.89	0.22	0.07	0.01	0.01	1.66
W871486		2.32	53.4	15.65	10.45	11.35	4.54	3.77	0.34	0.04	0.94	0.23	0.06	0.01	0.01	1.17
W871487		0.07	48.6	12.75	20.8	6.31	6.68	2.21	0.63	0.03	1.27	0.20	0.16	0.02	0.02	1.10

***** 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: 5-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064236

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
W871450		98.48	0.05	0.01	572	26.8	10	0.70	3.70	2.43	0.74	16.6	3.68	<5	3.6	0.72
W871451		98.70	0.05	0.18	92.1	9.3	210	0.24	3.90	2.35	0.89	17.1	3.70	<5	1.7	0.75
W871452		99.30	0.10	0.12	115.5	8.2	200	0.46	3.24	2.29	0.70	18.0	2.94	<5	1.6	0.76
W871453		98.10	0.08	0.19	97.0	8.6	190	0.30	3.97	2.68	0.84	16.8	3.23	<5	1.8	0.80
W871454		101.02	0.07	0.21	107.5	8.9	190	0.27	4.41	2.50	0.86	18.7	3.06	<5	1.8	0.87
W871455		99.67	0.06	0.16	124.5	9.3	220	0.29	4.25	2.65	0.75	18.9	3.59	<5	1.9	0.86
W871456		98.63	0.06	0.20	222	77.0	390	0.41	4.91	2.35	2.07	18.9	6.70	<5	3.7	0.81
W871457		98.88	0.24	0.12	241	78.3	680	0.53	4.09	1.83	2.01	16.5	6.18	<5	3.0	0.69
W871458		99.96	0.87	0.17	159.0	54.6	380	0.32	3.70	1.81	1.88	18.8	5.66	<5	2.6	0.63
W871459		99.96	0.04	0.14	210	42.6	320	0.54	4.26	2.55	1.42	17.0	5.09	<5	2.5	0.84
W871460		98.37	0.09	0.18	79.1	9.4	200	0.41	3.62	2.39	0.82	17.0	3.10	<5	1.8	0.75
W871461		98.61	0.09	0.08	154.5	8.2	270	0.60	3.14	2.02	0.66	16.2	2.46	<5	1.6	0.69
W871462		99.19	0.12	0.06	120.5	8.0	270	0.40	3.00	1.96	0.74	15.8	2.50	<5	1.4	0.66
W871463		99.13	0.06	0.26	79.1	8.1	260	0.18	3.17	2.21	0.76	16.0	2.67	<5	1.5	0.74
W871464		98.07	0.14	0.13	72.2	7.6	250	0.12	3.32	2.13	0.74	15.9	2.90	<5	1.4	0.77
W871465		99.07	0.05	0.18	82.2	7.1	260	0.15	3.25	2.07	0.70	15.2	2.68	<5	1.4	0.70
W871466		99.66	0.08	0.16	85.6	8.0	250	0.21	3.43	2.13	0.77	15.9	2.61	<5	1.4	0.71
W871467		99.97	0.04	0.20	69.9	6.7	300	0.21	3.04	1.87	0.66	15.1	2.18	<5	1.2	0.63
W871468		98.40	0.03	0.07	68.9	5.3	330	0.25	2.69	1.66	0.58	14.1	2.17	<5	0.9	0.53
W871469		100.17	0.05	0.05	108.0	4.9	340	0.40	2.43	1.60	0.53	13.9	1.90	<5	0.9	0.50
W871470		98.00	0.23	2.43	279	18.0	700	0.40	2.64	1.36	0.74	10.1	2.71	<5	2.0	0.54
W871471		99.78	0.07	0.09	187.0	4.8	340	0.81	2.37	1.56	0.58	13.6	1.86	<5	0.8	0.58
W871472		100.28	0.06	0.09	203	4.9	340	0.85	2.52	1.60	0.56	14.5	2.17	<5	1.0	0.59
W871473		99.18	0.14	0.03	90.2	6.4	260	0.62	2.91	2.11	0.59	15.3	2.30	<5	1.3	0.61
W871474		100.21	0.21	0.11	86.8	9.7	60	0.45	3.79	2.56	0.83	16.8	3.00	<5	1.6	0.79
W871475		100.67	0.15	0.11	82.5	11.5	210	0.55	3.56	2.23	0.89	15.9	3.34	<5	1.8	0.75
W871476		101.93	0.09	0.09	622	69.0	120	1.59	2.66	1.26	1.45	20.1	4.22	<5	3.6	0.46
W871477		100.56	0.08	0.09	672	67.3	110	1.63	2.66	1.29	1.47	20.0	4.42	<5	3.8	0.46
W871478		100.69	0.09	0.06	70.8	13.6	200	0.30	3.56	2.07	0.84	16.6	2.86	<5	2.1	0.68
W871479		99.62	0.16	0.09	74.5	9.6	200	0.27	3.95	2.35	0.91	17.0	3.09	<5	1.8	0.86
W871480		99.92	0.23	0.14	67.7	8.7	290	0.20	3.83	2.52	0.77	15.8	3.10	<5	1.7	0.82
W871481		99.57	0.26	0.11	96.7	8.2	330	0.19	3.39	2.22	0.75	15.5	3.00	<5	1.3	0.75
W871482		100.07	0.21	0.15	82.4	7.5	390	0.29	3.33	2.20	0.73	15.9	2.97	<5	1.5	0.71
W871483		99.80	0.18	0.14	69.1	8.5	190	0.18	3.59	2.23	0.95	16.8	3.04	<5	1.6	0.80
W871484		99.67	0.30	0.09	76.3	8.5	230	0.15	3.70	2.27	0.88	16.4	3.09	<5	1.6	0.72
W871485		99.90	0.31	0.15	83.9	7.1	280	0.21	3.05	2.34	0.73	15.4	2.78	<5	1.4	0.68
W871486		101.96	0.26	0.14	100.5	8.2	260	0.08	3.50	2.11	0.70	15.6	2.91	<5	1.4	0.73
W871487		100.78	0.08	1.73	206	25.0	220	0.86	2.55	1.47	1.14	15.0	2.76	<5	2.1	0.50

***** 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: 5-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064236

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
W871450		11.9	0.36	3.1	16.1	3.63	25.7	4.12	1	448	0.2	0.65	3.28	0.37	1.32	145
W871451		3.4	0.38	2.6	7.3	1.50	12.9	2.30	1	107.5	0.2	0.52	0.24	0.38	0.07	310
W871452		3.1	0.31	2.3	7.1	1.23	18.5	2.45	<1	125.5	0.1	0.52	0.23	0.31	<0.05	282
W871453		2.9	0.38	2.6	6.4	1.34	15.2	2.27	1	125.5	0.2	0.54	0.26	0.33	0.05	294
W871454		3.1	0.37	2.7	7.2	1.47	15.1	2.11	1	129.0	0.1	0.58	0.30	0.37	0.08	322
W871455		3.4	0.39	2.9	7.2	1.53	15.6	2.97	1	145.0	0.1	0.61	0.27	0.34	0.07	319
W871456		32.8	0.31	7.3	44.5	10.25	13.3	9.12	1	453	0.4	0.93	3.59	0.35	0.76	252
W871457		33.1	0.21	6.7	46.6	10.50	13.3	9.38	1	365	0.3	0.80	3.37	0.22	0.71	195
W871458		22.5	0.25	5.1	31.7	7.37	11.7	6.05	1	202	0.2	0.75	2.40	0.26	0.62	213
W871459		19.2	0.34	4.8	26.0	6.07	13.0	5.92	2	274	0.1	0.78	1.77	0.32	0.46	278
W871460		3.9	0.33	2.4	7.6	1.53	5.4	2.35	2	121.5	<0.1	0.59	0.26	0.31	0.07	289
W871461		3.4	0.28	2.0	6.1	1.26	15.2	2.08	2	129.5	<0.1	0.47	0.26	0.28	0.07	258
W871462		3.1	0.30	2.1	6.0	1.31	14.4	1.99	2	128.0	<0.1	0.50	0.27	0.31	0.07	251
W871463		3.2	0.30	2.4	6.4	1.29	5.4	2.26	2	145.5	<0.1	0.50	0.27	0.32	0.05	280
W871464		3.1	0.36	2.2	6.7	1.30	5.3	2.13	3	127.5	<0.1	0.57	0.19	0.32	<0.05	299
W871465		2.9	0.35	2.2	5.5	1.17	5.7	1.86	4	136.5	<0.1	0.52	0.19	0.32	0.05	283
W871466		3.4	0.33	2.2	6.6	1.30	7.4	2.22	2	126.0	<0.1	0.51	0.22	0.31	0.05	289
W871467		3.0	0.28	1.7	5.4	1.06	8.7	1.91	3	118.5	<0.1	0.43	0.19	0.29	<0.05	263
W871468		2.3	0.28	1.3	4.5	0.97	9.9	1.65	1	95.0	<0.1	0.38	0.11	0.22	<0.05	248
W871469		2.0	0.24	1.1	4.3	0.80	15.7	1.38	1	116.0	<0.1	0.37	0.11	0.24	<0.05	239
W871470		9.0	0.20	5.7	10.1	2.42	4.5	2.42	3	62.8	0.2	0.41	1.93	0.22	0.96	157
W871471		2.0	0.22	1.1	4.3	0.80	28.5	1.45	1	116.0	<0.1	0.38	0.11	0.26	<0.05	239
W871472		1.8	0.23	1.4	4.0	0.85	34.2	1.30	1	110.5	<0.1	0.37	0.12	0.24	<0.05	252
W871473		2.8	0.27	1.9	5.3	1.12	13.7	1.61	1	134.0	<0.1	0.42	0.19	0.28	0.05	266
W871474		4.2	0.36	2.8	7.4	1.62	10.0	2.28	2	87.6	<0.1	0.60	0.30	0.35	0.07	313
W871475		5.1	0.40	2.9	8.0	1.74	7.4	2.56	2	133.0	0.1	0.58	0.58	0.30	0.14	296
W871476		34.4	0.18	5.5	34.3	8.67	28.0	6.22	2	626	0.3	0.54	5.67	0.18	1.59	101
W871477		34.0	0.16	5.4	33.9	8.87	31.6	6.56	2	653	0.2	0.58	5.82	0.19	1.51	100
W871478		6.2	0.31	3.1	8.7	2.03	7.1	2.49	2	188.0	0.1	0.53	0.64	0.33	0.20	270
W871479		3.8	0.42	2.7	7.6	1.58	8.7	2.73	2	125.5	<0.1	0.57	0.31	0.36	0.09	300
W871480		3.5	0.39	2.5	7.5	1.48	4.9	2.55	2	118.5	<0.1	0.53	0.24	0.34	0.06	297
W871481		3.4	0.32	2.5	6.5	1.41	6.7	2.26	2	129.0	<0.1	0.51	0.25	0.33	0.06	293
W871482		3.0	0.31	2.2	6.4	1.27	7.2	2.30	2	157.5	<0.1	0.55	0.21	0.30	0.07	295
W871483		3.5	0.36	2.4	6.7	1.44	5.5	2.49	2	109.0	<0.1	0.54	0.24	0.33	0.06	313
W871484		3.5	0.33	2.3	6.6	1.41	6.3	2.40	2	118.0	<0.1	0.58	0.24	0.36	0.06	307
W871485		2.8	0.34	2.1	6.1	1.26	8.9	1.99	2	146.5	<0.1	0.50	0.19	0.32	0.06	292
W871486		3.4	0.33	2.3	6.9	1.35	4.9	2.23	2	129.5	<0.1	0.50	0.25	0.35	0.06	300
W871487		12.1	0.17	6.4	13.0	3.33	15.0	3.05	4	249	0.3	0.43	1.52	0.19	0.48	113

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

Finalized Date: 5-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064236

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
W871450		7	21.0	2.39	133	0.8	0.06	<0.005	0.010	<0.001	<0.05	0.2	<0.01	0.05	<0.5	<0.5
W871451		1	21.0	2.30	64	0.2	0.01	<0.005	0.010	0.001	<0.05	0.6	0.01	0.07	<0.5	0.6
W871452		1	18.8	2.12	58	0.1	0.01	<0.005	0.007	0.001	<0.05	0.4	<0.01	0.08	<0.5	<0.5
W871453		3	20.3	2.35	62	0.2	0.01	<0.005	0.014	0.001	<0.05	0.6	0.01	0.07	<0.5	<0.5
W871454		2	20.8	2.55	65	0.3	0.01	<0.005	0.014	0.001	<0.05	0.5	0.01	0.07	<0.5	0.7
W871455		2	22.4	2.52	66	0.2	0.01	<0.005	0.015	0.001	<0.05	0.6	0.01	0.07	<0.5	0.7
W871456		5	23.0	2.17	143	0.5	0.04	<0.005	0.012	<0.001	<0.05	0.4	0.01	0.08	<0.5	<0.5
W871457		20	18.9	1.70	132	0.3	0.04	<0.005	0.010	<0.001	<0.05	0.4	0.01	0.10	<0.5	<0.5
W871458		47	18.0	1.61	103	0.6	0.04	<0.005	0.015	<0.001	<0.05	0.3	0.04	0.08	<0.5	<0.5
W871459		6	22.8	2.31	98	0.3	0.03	<0.005	0.011	<0.001	<0.05	0.4	0.01	0.08	<0.5	<0.5
W871460		20	21.3	2.45	57	0.4	0.02	<0.005	0.012	0.001	<0.05	0.5	0.02	0.07	<0.5	<0.5
W871461		1	17.5	1.85	49	0.3	0.02	<0.005	0.012	<0.001	<0.05	0.3	0.01	0.05	<0.5	<0.5
W871462		1	17.8	1.92	48	0.5	0.01	<0.005	0.010	<0.001	<0.05	0.3	0.01	0.07	<0.5	<0.5
W871463		2	19.1	2.11	50	0.2	0.02	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.05	<0.5	<0.5
W871464		1	20.0	2.18	48	0.4	0.02	<0.005	0.026	<0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W871465		<1	18.7	1.88	47	0.5	0.03	<0.005	0.013	0.001	<0.05	0.3	0.02	0.03	<0.5	0.5
W871466		5	19.1	2.16	47	0.5	0.01	<0.005	0.009	0.001	<0.05	0.3	0.01	0.05	<0.5	0.6
W871467		6	16.3	1.81	41	0.3	0.01	<0.005	0.008	0.001	<0.05	0.5	0.03	0.07	<0.5	0.5
W871468		4	14.2	1.59	34	0.2	<0.01	0.005	0.006	0.001	<0.05	0.4	0.03	0.09	<0.5	<0.5
W871469		<1	13.4	1.57	31	0.3	<0.01	<0.005	0.007	0.001	<0.05	0.3	0.03	0.06	<0.5	0.5
W871470		31	13.9	1.52	73	41.2	0.29	0.112	0.052	0.016	1.31	12.9	1.29	0.07	3.6	0.8
W871471		8	13.7	1.52	33	0.3	0.01	<0.005	0.006	0.002	<0.05	0.5	0.02	0.08	<0.5	<0.5
W871472		2	15.0	1.74	36	0.2	<0.01	<0.005	0.007	0.002	<0.05	0.4	0.03	0.06	<0.5	<0.5
W871473		2	16.4	1.87	42	0.4	0.01	<0.005	0.008	0.001	<0.05	0.3	0.02	0.04	<0.5	0.5
W871474		1	21.3	2.28	56	0.3	0.01	<0.005	0.011	<0.001	<0.05	0.6	0.02	0.05	<0.5	0.7
W871475		1	20.2	2.16	62	0.2	0.01	<0.005	0.013	0.002	0.05	0.4	0.03	0.03	<0.5	0.5
W871476		1	13.4	1.15	136	0.4	0.02	0.005	0.007	<0.001	0.05	<0.2	<0.01	0.12	<0.5	<0.5
W871477		3	13.4	1.18	141	0.4	0.02	0.005	0.012	<0.001	0.05	<0.2	<0.01	0.15	<0.5	<0.5
W871478		5	19.7	2.18	69	0.1	<0.01	0.006	0.009	0.001	<0.05	0.3	0.01	0.03	<0.5	0.5
W871479		3	22.6	2.57	62	0.2	<0.01	<0.005	0.011	0.001	<0.05	0.5	0.01	0.05	<0.5	0.5
W871480		10	20.7	2.34	56	0.2	0.01	0.005	0.011	0.001	<0.05	0.4	0.01	0.04	<0.5	<0.5
W871481		1	19.0	2.24	48	0.2	0.01	<0.005	0.011	0.003	<0.05	0.4	0.02	0.06	<0.5	<0.5
W871482		15	19.6	2.26	48	0.2	0.01	0.007	0.007	0.002	<0.05	0.5	0.02	0.10	<0.5	<0.5
W871483		8	21.3	2.50	60	0.1	0.02	<0.005	0.010	0.001	<0.05	0.5	0.01	0.04	<0.5	0.5
W871484		17	20.7	2.20	56	0.1	0.01	0.005	0.009	0.001	<0.05	0.4	0.01	0.05	<0.5	0.6
W871485		4	19.5	2.04	49	0.2	0.01	<0.005	0.007	0.002	<0.05	0.5	0.02	0.09	<0.5	0.6
W871486		13	19.9	2.12	50	0.2	0.01	<0.005	0.008	0.001	<0.05	0.6	0.02	0.08	<0.5	0.5
W871487		3	12.8	1.20	84	3.7	0.72	0.011	0.069	0.006	0.33	5.9	0.54	0.10	1.9	1.1

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

ALS Canada Ltd.

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www.alsglobal.com/geochemistry

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

Finalized Date: 5-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18064236

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
W871450		14	87	10	2	9	9	16	60	0.004	<0.005	0.001	0.026
W871451		47	118	20	<1	106	4	36	112	<0.001	<0.005	0.001	0.328
W871452		46	92	20	<1	133	<2	32	93	<0.001	<0.005	<0.001	0.267
W871453		46	154	20	<1	91	3	39	134	<0.001	<0.005	<0.001	0.363
W871454		48	137	20	<1	82	2	37	123	<0.001	<0.005	<0.001	0.352
W871455		44	115	20	<1	85	<2	36	122	<0.001	<0.005	0.001	0.296
W871456		44	100	30	<1	126	10	30	147	<0.001	<0.005	0.002	0.211
W871457		48	56	30	<1	202	6	31	121	<0.001	<0.005	0.003	0.085
W871458		41	98	30	<1	129	4	26	75	<0.001	<0.005	0.001	0.155
W871459		46	119	30	<1	121	3	35	142	<0.001	<0.005	0.001	0.191
W871460		48	126	20	<1	98	<2	36	108	<0.001	<0.005	<0.001	0.298
W871461		51	140	30	<1	131	<2	34	152	<0.001	<0.005	0.001	0.106
W871462		49	121	20	<1	134	<2	36	136	<0.001	<0.005	<0.001	0.076
W871463		50	102	10	<1	118	4	38	124	<0.001	<0.005	0.001	0.161
W871464		49	46	10	<1	123	<2	41	90	<0.001	<0.005	0.001	0.082
W871465		53	140	20	<1	120	3	39	125	<0.001	<0.005	0.001	0.223
W871466		47	137	20	<1	114	<2	37	177	<0.001	<0.005	0.001	0.296
W871467		49	140	20	<1	145	<2	40	94	0.001	0.009	0.011	0.346
W871468		51	148	20	<1	168	<2	37	91	0.001	0.016	0.019	0.304
W871469		49	133	20	<1	165	<2	36	83	0.001	0.015	0.020	0.227
W871470		146	5270	40	3	2020	7	23	77	0.105	0.682	0.367	11.25
W871471		49	131	30	1	176	2	36	82	0.002	0.016	0.019	0.315
W871472		50	138	30	<1	166	<2	35	79	0.002	0.016	0.019	0.322
W871473		53	139	30	<1	137	<2	37	94	0.001	0.011	0.014	0.164
W871474		54	175	30	<1	59	4	41	121	0.001	<0.005	0.001	0.409
W871475		50	96	20	<1	115	4	41	85	<0.001	<0.005	0.002	0.302
W871476		21	28	30	<1	60	11	11	103	<0.001	0.009	0.002	0.051
W871477		23	31	30	<1	67	11	12	85	0.001	<0.005	0.001	0.047
W871478		42	106	20	<1	90	<2	32	99	<0.001	<0.005	0.002	0.239
W871479		47	129	20	<1	115	<2	36	110	<0.001	<0.005	<0.001	0.269
W871480		49	114	10	<1	129	2	38	81	<0.001	<0.005	0.001	0.217
W871481		48	118	10	<1	136	<2	40	92	<0.001	<0.005	0.001	0.230
W871482		54	140	10	<1	155	2	40	161	<0.001	<0.005	0.002	0.410
W871483		52	130	20	<1	103	<2	41	97	<0.001	<0.005	<0.001	0.416
W871484		50	113	10	<1	113	<2	40	154	<0.001	<0.005	<0.001	0.318
W871485		51	135	20	<1	125	<2	40	107	<0.001	<0.005	0.001	0.388
W871486		49	123	10	<1	128	5	40	94	<0.001	<0.005	<0.001	0.380
W871487		106	4260	20	4	4130	21	11	103	0.057	0.309	0.622	4.01

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

Finalized Date: 5-APR-2018
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Project: Gfields

CERTIFICATE OF ANALYSIS TB18064236

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		