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: 18-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18070718

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 29-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
X101300		0.04	62.3	16.25	5.87	6.22	2.65	3.24	1.46	<0.01	0.48	0.12	0.14	0.05	0.07	1.00
X101301		0.08	42.3	8.97	14.80	16.00	10.60	0.60	0.23	0.11	0.69	0.15	0.12	<0.01	0.03	3.57
X101302		1.79	54.6	22.7	5.13	10.25	1.72	3.61	0.60	0.01	0.31	0.07	0.05	0.05	0.03	1.33
X101303		2.01	53.4	22.2	5.12	10.25	1.72	3.44	0.54	0.01	0.30	0.07	0.06	0.05	0.02	1.64
X101304		2.10	53.7	22.6	5.43	10.55	1.90	3.69	0.40	0.01	0.32	0.08	0.05	0.05	0.02	1.04
X101305		2.27	51.1	21.8	5.48	9.88	1.91	3.33	0.49	0.01	0.29	0.07	0.04	0.05	0.02	1.41
X101306		2.22	53.6	22.9	5.22	11.10	1.76	3.41	0.63	0.01	0.32	0.07	0.05	0.05	0.02	2.08
X101307		2.02	54.2	22.9	5.54	10.60	1.85	3.46	0.54	0.01	0.33	0.08	0.06	0.05	0.02	1.59
X101308		2.08	54.3	23.0	5.48	10.25	1.89	3.51	0.80	0.01	0.33	0.08	0.06	0.05	0.03	1.78
X101309		2.11	53.2	22.6	5.32	10.15	1.81	3.73	0.81	0.01	0.31	0.08	0.05	0.05	0.03	2.14
X101310		2.03	53.2	22.1	5.36	9.39	1.87	3.92	1.09	0.01	0.32	0.07	0.05	0.04	0.03	3.31
X101311		2.08	52.3	22.2	5.43	9.67	1.83	3.51	1.02	0.01	0.32	0.08	0.05	0.05	0.03	2.41
X101312		2.07	51.4	22.7	5.05	11.60	1.62	3.84	0.90	0.01	0.32	0.06	0.04	0.03	0.02	3.36
X101313		2.15	53.2	23.4	5.45	10.35	1.79	3.63	0.83	<0.01	0.30	0.08	0.04	0.05	0.03	2.38
X101314		1.55	50.9	22.3	5.10	10.60	1.63	3.34	0.92	<0.01	0.29	0.07	0.04	0.04	0.02	2.90
X101315		1.50	52.5	23.0	5.63	10.20	1.84	3.55	0.55	0.01	0.33	0.08	0.04	0.05	0.02	1.35
X101316		1.42	54.2	16.80	11.30	8.86	4.37	2.85	0.53	<0.01	0.81	0.18	0.14	0.03	0.02	1.57
X101317		2.24	58.1	16.00	8.02	6.60	3.23	3.64	0.46	<0.01	0.53	0.12	0.11	0.03	0.02	1.48
X101318		2.34	58.0	16.55	8.24	7.37	3.53	3.51	0.44	<0.01	0.55	0.12	0.10	0.03	0.02	1.67
X101319		2.21	57.7	16.25	8.76	6.96	3.55	3.54	0.66	<0.01	0.61	0.12	0.16	0.04	0.03	1.18
X101320		0.08	46.3	12.75	20.9	6.31	6.47	2.15	0.62	0.03	1.23	0.19	0.15	0.03	0.02	1.05
X101321		2.08	61.1	15.90	6.67	6.00	2.41	4.03	0.64	<0.01	0.44	0.09	0.12	0.04	0.03	1.12
X101322		2.11	62.4	15.75	6.18	5.33	2.22	4.24	0.69	<0.01	0.41	0.08	0.09	0.04	0.03	0.90
X101323		2.22	58.9	16.70	7.90	6.86	3.17	3.89	0.81	<0.01	0.53	0.11	0.12	0.04	0.03	0.93
X101324		2.24	58.6	16.90	8.15	6.71	3.44	3.98	0.76	<0.01	0.54	0.11	0.11	0.05	0.04	0.97
X101325		2.51	52.2	16.20	11.10	7.97	4.53	2.93	0.74	<0.01	0.75	0.15	0.15	0.03	0.03	1.35
X101326		1.82	52.0	16.30	12.10	8.21	4.47	3.06	0.86	<0.01	0.84	0.16	0.17	0.04	0.03	1.70
X101327		1.56	55.2	16.40	11.05	7.48	3.49	3.16	1.01	<0.01	0.87	0.15	0.19	0.04	0.04	1.29
X101328		1.84	52.9	23.3	5.33	10.40	1.69	3.74	0.54	0.01	0.32	0.07	0.05	0.05	0.03	1.00
X101329		1.46	53.3	23.7	5.20	10.55	1.73	3.85	0.34	<0.01	0.33	0.07	0.05	0.06	0.02	1.03
X101330		2.19	53.9	23.8	4.60	9.72	1.75	4.62	0.40	<0.01	0.32	0.06	0.05	0.05	0.02	1.19
X101331		2.27	53.2	24.2	4.22	9.92	1.66	4.63	0.41	<0.01	0.31	0.06	0.05	0.06	0.03	1.62
X101332		2.16	52.1	23.2	4.92	9.89	1.72	4.61	0.27	0.01	0.32	0.06	0.05	0.05	0.02	1.16
X101333		2.20	52.7	23.8	4.97	10.20	1.69	4.54	0.38	<0.01	0.33	0.07	0.04	0.06	0.02	1.28
X101334		2.21	53.2	22.9	5.15	10.15	1.66	3.91	0.58	<0.01	0.33	0.07	0.05	0.05	0.02	2.02
X101335		2.16	53.0	22.9	5.50	10.30	1.74	3.62	0.57	0.01	0.34	0.08	0.06	0.05	0.02	0.86
X101336		2.15	54.3	23.4	5.23	10.50	1.76	3.80	0.48	0.01	0.32	0.07	0.05	0.05	0.02	1.09
X101337		2.29	53.2	23.0	5.42	10.30	1.71	3.63	0.67	0.01	0.33	0.07	0.05	0.05	0.03	1.49
X101338		2.11	54.1	23.4	5.31	10.35	1.74	3.65	0.53	0.01	0.34	0.08	0.05	0.05	0.02	1.23
X101339		2.25	53.1	22.8	5.54	10.05	1.75	3.40	0.77	0.01	0.32	0.07	0.05	0.05	0.03	2.14

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THUNDER BAY ON P7B 2R2

Finalized Date: 18-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070718

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
X101300		99.85	0.04	<0.01	561	29.1	10	0.66	4.05	2.49	0.91	14.8	3.50	<5	3.5	0.85
X101301		98.17	0.24	2.50	280	19.5	790	0.39	2.67	1.66	0.75	9.9	2.49	<5	2.1	0.47
X101302		100.46	0.05	<0.01	228	15.1	40	1.01	1.30	0.83	0.70	20.8	1.17	<5	1.1	0.23
X101303		98.82	0.12	0.01	190.5	13.8	40	0.77	1.15	0.66	0.57	19.6	1.16	<5	1.0	0.25
X101304		99.84	0.11	<0.01	182.5	13.4	40	0.49	1.16	0.67	0.63	20.1	1.21	<5	1.1	0.27
X101305		95.88	0.12	0.02	188.5	14.3	40	0.77	1.37	0.76	0.65	21.1	1.12	<5	1.1	0.28
X101306		101.22	0.17	0.01	179.0	13.3	40	0.88	1.10	0.70	0.64	20.1	1.18	<5	1.4	0.25
X101307		101.23	0.12	0.02	209	20.5	50	0.87	1.39	0.87	0.80	21.6	1.82	<5	1.0	0.33
X101308		101.57	0.09	0.02	233	14.6	40	1.34	1.30	0.73	0.68	20.9	1.35	<5	0.9	0.28
X101309		100.29	0.22	<0.01	235	15.8	40	1.19	1.36	0.76	0.61	20.6	1.49	<5	1.1	0.28
X101310		100.76	0.30	0.02	214	13.8	40	1.64	1.22	0.79	0.61	19.9	1.30	<5	1.1	0.29
X101311		98.91	0.14	0.03	231	13.5	40	1.59	1.32	0.73	0.69	20.3	1.24	<5	1.2	0.27
X101312		100.95	0.16	<0.01	142.0	14.2	40	1.38	1.15	0.76	0.64	21.9	1.36	<5	1.2	0.25
X101313		101.53	0.19	0.01	223	13.6	40	1.45	1.23	0.70	0.66	21.8	1.20	<5	1.0	0.24
X101314		98.15	0.12	<0.01	168.5	11.8	30	1.33	0.98	0.68	0.60	19.2	1.24	<5	1.1	0.21
X101315		99.15	0.11	0.02	218	14.9	50	1.05	1.12	0.69	0.63	22.9	1.49	<5	1.0	0.24
X101316		101.66	0.13	0.08	154.0	33.6	30	0.65	2.74	1.71	0.93	17.9	3.08	<5	2.6	0.62
X101317		98.34	0.15	0.07	174.0	28.8	30	0.70	2.17	1.25	0.83	19.5	2.49	<5	2.7	0.46
X101318		100.13	0.19	0.07	188.0	22.8	30	0.46	1.90	1.08	0.80	17.1	2.08	<5	2.3	0.40
X101319		99.56	0.16	0.08	286	32.8	30	0.60	2.25	1.35	0.98	18.9	2.60	<5	2.5	0.51
X101320		98.20	0.08	1.76	209	27.0	270	0.94	2.53	1.35	1.15	16.4	2.92	<5	2.5	0.53
X101321		98.59	0.14	0.08	285	28.1	20	0.65	2.02	1.04	0.84	18.3	2.23	<5	2.5	0.37
X101322		98.36	0.10	0.13	288	34.6	30	0.72	1.77	0.99	0.79	20.6	2.34	<5	2.5	0.39
X101323		99.99	0.11	0.09	296	24.3	30	0.77	2.26	1.33	0.89	20.5	2.42	<5	2.5	0.46
X101324		100.36	0.10	0.10	339	21.8	30	0.54	1.92	1.12	0.69	17.2	2.15	<5	2.1	0.46
X101325		98.13	0.14	0.11	254	31.3	30	0.81	2.73	1.62	0.95	17.5	3.24	<5	2.4	0.56
X101326		99.94	0.23	0.11	254	34.0	30	1.11	2.79	1.72	1.08	18.0	3.28	<5	2.4	0.62
X101327		100.37	0.14	0.09	316	43.6	20	1.10	3.03	1.75	1.18	19.4	3.47	<5	3.1	0.69
X101328		99.43	0.07	0.02	232	15.2	40	0.67	1.21	0.63	0.66	22.4	1.19	<5	1.4	0.24
X101329		100.23	0.11	0.01	182.0	13.9	40	0.39	1.19	0.67	0.60	22.3	1.19	<5	1.4	0.24
X101330		100.48	0.12	<0.01	186.0	15.0	40	0.34	1.33	0.81	0.58	20.7	1.42	<5	1.2	0.29
X101331		100.37	0.20	<0.01	239	18.1	40	0.33	1.45	0.85	0.67	21.6	1.56	<5	1.6	0.27
X101332		98.38	0.15	<0.01	186.5	15.8	40	0.27	1.31	0.68	0.72	22.6	1.49	<5	1.3	0.29
X101333		100.08	0.13	<0.01	192.5	18.6	40	0.36	1.34	0.76	0.73	21.8	1.54	<5	1.1	0.25
X101334		100.09	0.24	<0.01	208	17.0	40	1.11	1.28	0.73	0.64	22.2	1.48	<5	1.3	0.28
X101335		99.05	0.07	<0.01	222	17.1	40	0.62	1.32	0.67	0.63	23.6	1.34	<5	1.8	0.29
X101336		101.08	0.09	0.01	226	19.1	50	0.60	1.58	0.85	0.73	25.3	1.69	<5	1.5	0.28
X101337		99.96	0.14	<0.01	241	17.0	40	0.78	1.28	0.78	0.73	23.2	1.59	<5	1.6	0.25
X101338		100.86	0.11	0.02	191.5	16.0	40	0.88	1.30	0.80	0.63	21.8	1.41	<5	1.5	0.28
X101339		100.08	0.14	0.03	237	16.0	40	1.02	1.31	0.75	0.62	22.3	1.36	<5	1.4	0.26

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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
X101300		13.1	0.40	3.3	17.2	3.90	26.1	3.68	1	488	0.1	0.63	3.15	0.41	1.24	148
X101301		9.7	0.21	6.0	11.3	2.41	4.8	2.47	3	64.9	0.3	0.41	1.89	0.21	0.85	184
X101302		7.3	0.13	1.7	6.9	1.80	13.1	1.54	1	468	0.1	0.21	1.29	0.11	0.48	90
X101303		6.7	0.11	1.4	6.5	1.69	10.7	1.24	<1	438	0.1	0.21	1.29	0.09	0.40	86
X101304		6.4	0.11	1.5	6.3	1.54	7.1	1.12	<1	462	0.1	0.20	1.13	0.12	0.32	94
X101305		7.0	0.10	1.5	7.1	1.77	11.8	1.07	1	486	0.1	0.19	1.21	0.12	0.33	94
X101306		6.5	0.12	1.5	6.2	1.64	14.8	1.37	3	444	0.1	0.23	1.11	0.11	0.32	89
X101307		10.4	0.12	2.2	9.8	2.44	11.8	1.99	1	492	0.1	0.26	2.42	0.13	0.28	93
X101308		7.2	0.11	1.7	7.1	1.79	20.6	1.36	1	496	0.1	0.21	1.37	0.10	0.35	98
X101309		8.2	0.11	1.7	7.6	1.78	20.5	1.37	1	487	0.1	0.24	1.82	0.11	0.51	93
X101310		6.7	0.11	1.7	6.5	1.68	32.3	1.14	1	396	0.1	0.18	1.40	0.13	0.38	92
X101311		6.6	0.09	1.4	6.5	1.69	29.7	1.17	1	428	0.1	0.22	1.09	0.10	0.28	93
X101312		7.1	0.11	1.5	6.6	1.67	27.7	1.37	<1	295	0.1	0.16	1.00	0.11	0.35	96
X101313		6.9	0.12	1.4	6.3	1.56	20.8	1.26	<1	425	0.2	0.15	1.02	0.10	0.31	90
X101314		6.0	0.10	1.3	5.6	1.40	25.4	1.17	2	323	0.1	0.16	0.86	0.08	0.30	81
X101315		7.4	0.11	1.6	6.9	1.76	13.0	1.45	<1	459	0.2	0.19	1.13	0.10	0.33	102
X101316		16.1	0.27	3.5	16.0	4.22	10.4	3.65	1	265	0.3	0.49	2.28	0.26	0.84	180
X101317		14.6	0.18	3.7	12.6	3.32	10.9	2.83	2	315	0.3	0.35	2.11	0.16	0.61	122
X101318		11.2	0.19	2.4	11.0	2.83	8.4	2.21	1	269	0.2	0.29	1.26	0.17	0.40	112
X101319		15.9	0.22	3.3	15.0	4.01	13.4	3.05	1	351	0.2	0.39	1.56	0.20	0.40	128
X101320		12.5	0.21	6.9	13.1	3.35	16.3	2.92	4	257	0.5	0.44	1.46	0.17	0.48	129
X101321		13.7	0.18	2.8	12.6	3.23	13.0	2.63	1	356	0.2	0.33	1.47	0.17	0.39	90
X101322		17.5	0.15	2.8	14.7	3.98	16.6	2.51	1	372	0.2	0.34	2.63	0.14	0.56	92
X101323		11.6	0.18	3.2	11.9	2.96	18.3	2.75	1	369	0.3	0.38	1.46	0.17	0.59	124
X101324		10.4	0.19	2.4	10.5	2.64	14.1	2.42	1	417	0.2	0.32	1.22	0.16	0.33	117
X101325		14.6	0.24	3.5	15.7	3.86	15.4	3.43	1	276	0.2	0.42	1.95	0.26	0.44	168
X101326		16.1	0.26	3.8	17.2	4.20	18.7	3.22	1	266	0.2	0.48	2.11	0.27	0.49	181
X101327		21.5	0.29	4.6	20.5	5.16	22.6	4.47	2	289	0.3	0.50	2.86	0.26	0.66	167
X101328		7.3	0.12	1.6	7.0	1.73	12.8	1.52	1	464	0.1	0.20	1.11	0.10	0.37	99
X101329		7.0	0.10	1.7	7.0	1.71	6.4	1.49	<1	443	0.1	0.20	1.08	0.10	0.34	93
X101330		8.0	0.12	2.0	6.8	1.73	7.0	1.32	<1	425	0.3	0.25	1.58	0.12	0.50	77
X101331		10.2	0.11	2.2	7.4	2.03	8.0	1.62	<1	467	0.3	0.23	2.68	0.12	0.67	70
X101332		8.4	0.12	2.1	7.3	1.88	3.5	1.57	<1	471	0.2	0.22	1.33	0.12	0.74	97
X101333		9.5	0.13	2.2	8.3	2.19	6.4	1.79	1	455	0.2	0.21	1.86	0.10	0.37	85
X101334		8.5	0.13	2.0	7.7	2.06	14.8	1.70	1	438	0.2	0.21	1.85	0.11	0.43	90
X101335		8.6	0.13	2.1	7.9	2.03	12.6	1.48	1	470	0.2	0.21	1.57	0.11	0.51	102
X101336		9.7	0.13	2.0	8.6	2.23	11.0	1.67	1	518	0.2	0.24	1.60	0.10	0.43	103
X101337		8.3	0.11	1.9	7.9	1.97	15.7	1.70	1	467	0.2	0.23	1.40	0.11	0.40	102
X101338		7.7	0.10	1.8	7.4	1.90	12.1	1.64	1	427	0.2	0.21	1.33	0.10	0.47	94
X101339		7.8	0.10	1.8	7.6	1.91	19.4	1.49	<1	425	0.1	0.19	1.32	0.11	0.38	94

***** 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: 18-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070718

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
X101300		4	21.5	2.56	113	0.8	0.05	0.006	0.009	<0.001	0.15	<0.2	<0.01	0.04	<0.5	<0.5
X101301		1	13.8	1.47	75	44.8	0.29	0.120	0.051	0.016	1.50	12.1	1.28	0.06	2.6	1.6
X101302		<1	6.6	0.78	40	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101303		<1	6.3	0.61	34	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101304		<1	6.3	0.77	46	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
X101305		<1	6.5	0.80	43	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101306		1	6.1	0.63	50	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101307		1	7.6	0.73	34	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.02	<0.5	0.5
X101308		1	6.3	0.71	33	0.4	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101309		<1	7.1	0.66	38	0.2	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101310		<1	6.5	0.71	35	0.3	0.01	<0.005	0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X101311		<1	6.3	0.60	41	0.4	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101312		1	6.2	0.72	35	0.2	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101313		1	6.0	0.64	35	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
X101314		1	5.3	0.59	37	0.3	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101315		1	6.2	0.71	38	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101316		<1	15.8	1.73	93	0.1	0.02	<0.005	0.013	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
X101317		1	11.5	1.20	101	0.1	0.02	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.04	<0.5	0.5
X101318		1	10.3	1.08	83	0.3	0.02	<0.005	0.008	<0.001	<0.05	0.2	0.01	0.04	<0.5	0.5
X101319		1	12.8	1.33	98	0.1	0.01	<0.005	0.008	<0.001	<0.05	0.2	0.01	0.06	<0.5	<0.5
X101320		4	12.7	1.32	96	3.8	0.70	0.011	0.068	0.005	0.35	5.0	0.55	0.10	1.9	1.1
X101321		1	10.6	1.23	100	0.4	0.01	<0.005	0.007	<0.001	<0.05	0.2	0.01	0.07	<0.5	<0.5
X101322		1	9.1	1.12	90	0.2	0.01	<0.005	0.007	<0.001	<0.05	0.3	0.02	0.08	<0.5	0.5
X101323		1	11.9	1.26	95	0.1	0.01	<0.005	0.008	<0.001	<0.05	0.2	0.01	0.08	<0.5	<0.5
X101324		1	10.4	1.19	73	0.1	0.01	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
X101325		1	14.5	1.58	86	0.2	0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.07	<0.5	0.9
X101326		1	16.1	1.78	97	<0.1	0.01	<0.005	0.012	0.001	<0.05	0.2	<0.01	0.10	<0.5	<0.5
X101327		1	16.9	1.88	122	0.2	0.01	<0.005	0.012	<0.001	<0.05	0.2	0.01	0.11	<0.5	<0.5
X101328		1	6.5	0.65	54	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101329		1	6.5	0.65	50	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101330		<1	7.9	0.93	41	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101331		1	7.8	0.81	48	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101332		2	7.4	0.84	42	0.2	0.01	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101333		1	7.3	0.88	39	0.3	<0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
X101334		1	6.9	0.76	50	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101335		1	7.1	0.82	60	0.2	<0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101336		1	7.7	0.87	55	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101337		1	7.2	0.86	55	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101338		1	6.6	0.85	55	0.5	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.03	<0.5	<0.5
X101339		8	6.7	0.85	44	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5

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

Finalized Date: 18-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070718

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
X101300		11	92	10	2	7	7	16	61	0.006	<0.005	0.001	0.026
X101301		149	5490	40	2	2130	6	24	78	0.088	0.750	0.375	10.85
X101302		16	17	20	<1	21	3	8	41	0.002	0.010	0.011	0.026
X101303		16	10	10	<1	23	<2	8	41	0.001	<0.005	0.009	0.021
X101304		17	4	10	<1	20	3	9	40	0.001	<0.005	0.006	0.010
X101305		18	19	10	<1	24	<2	9	45	0.001	<0.005	0.006	0.038
X101306		17	23	20	<1	18	<2	9	41	0.003	<0.005	0.005	0.027
X101307		16	14	20	<1	21	<2	9	42	0.002	0.018	0.041	0.037
X101308		15	18	20	<1	18	2	9	44	0.001	<0.005	0.004	0.045
X101309		17	12	20	1	20	<2	8	40	0.001	<0.005	0.008	0.023
X101310		17	23	30	<1	19	2	9	43	0.002	<0.005	0.005	0.034
X101311		17	17	30	<1	18	4	9	42	0.002	<0.005	0.009	0.038
X101312		15	6	30	<1	18	3	9	33	0.001	<0.005	0.005	0.025
X101313		16	22	20	<1	18	2	8	41	0.001	0.041	0.024	0.035
X101314		16	27	30	<1	17	<2	8	38	0.001	<0.005	0.006	0.035
X101315		17	17	10	<1	20	2	8	41	<0.001	<0.005	0.005	0.041
X101316		42	54	30	<1	60	5	22	89	0.001	<0.005	<0.001	0.111
X101317		30	39	20	<1	47	<2	14	69	0.001	<0.005	<0.001	0.087
X101318		29	37	20	<1	48	7	15	72	0.001	<0.005	0.001	0.094
X101319		29	34	20	<1	45	<2	15	74	0.001	<0.005	0.001	0.093
X101320		108	4310	20	4	4200	21	11	100	0.082	0.302	0.614	4.10
X101321		21	46	20	<1	33	<2	12	63	<0.001	<0.005	0.001	0.098
X101322		20	75	20	4	29	3	10	57	0.001	<0.005	0.001	0.111
X101323		27	30	20	<1	43	4	14	71	0.001	<0.005	<0.001	0.084
X101324		29	41	20	1	48	5	15	71	0.001	<0.005	0.001	0.088
X101325		40	49	20	<1	64	3	22	94	0.001	<0.005	0.001	0.121
X101326		42	47	20	1	53	4	23	101	0.001	<0.005	0.001	0.114
X101327		35	42	20	1	32	3	20	97	<0.001	<0.005	<0.001	0.092
X101328		16	11	10	1	13	2	10	39	<0.001	0.007	0.019	0.027
X101329		19	6	10	<1	15	4	10	34	0.001	<0.005	0.006	0.013
X101330		18	2	10	<1	27	3	10	25	<0.001	0.013	0.026	0.003
X101331		17	1	10	<1	21	<2	9	23	<0.001	0.005	0.004	0.003
X101332		19	1	10	<1	29	<2	10	23	0.001	<0.005	0.008	0.004
X101333		19	2	10	<1	24	3	10	26	0.001	<0.005	0.007	0.004
X101334		16	5	20	<1	18	<2	10	33	0.001	<0.005	0.007	0.010
X101335		16	8	10	1	17	<2	10	41	0.001	<0.005	0.007	0.012
X101336		17	15	10	1	16	5	10	42	0.002	<0.005	0.007	0.020
X101337		16	8	10	1	16	3	9	42	0.001	0.009	0.006	0.014
X101338		16	16	10	1	14	3	10	45	0.001	0.007	0.007	0.033
X101339		16	22	20	1	16	2	10	44	0.001	0.010	0.007	0.044

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

Finalized Date: 18-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070718

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
X101340		0.04	63.1	16.95	6.12	6.42	2.68	3.35	1.49	<0.01	0.48	0.12	0.14	0.06	0.07	1.01
X101341		2.09	53.7	22.9	5.24	10.20	1.67	3.56	0.66	0.01	0.32	0.07	0.05	0.05	0.03	1.99
X101342		2.20	51.9	22.5	5.20	10.05	1.61	3.36	0.72	0.01	0.33	0.07	0.05	0.05	0.02	2.15
X101343		2.14	53.2	23.0	5.08	10.20	1.64	3.44	0.66	<0.01	0.33	0.07	0.04	0.05	0.03	1.77
X101344		2.36	54.3	19.65	8.81	9.09	2.76	3.29	0.69	<0.01	0.64	0.11	0.12	0.05	0.03	1.90
X101345		2.13	54.2	23.2	5.52	10.45	1.77	3.64	0.94	0.01	0.34	0.08	0.05	0.05	0.03	1.65
X101346		2.25	53.0	22.9	5.49	10.10	1.77	3.44	0.63	<0.01	0.35	0.08	0.05	0.05	0.03	1.28
X101347		2.23	53.4	22.3	5.24	10.10	1.63	3.46	0.81	0.01	0.34	0.07	0.06	0.05	0.03	2.22
X101348		2.18	54.5	22.5	5.74	9.75	1.81	3.57	0.66	0.01	0.34	0.08	0.07	0.05	0.02	1.87
X101349		1.92	52.5	15.85	11.20	7.84	4.20	3.18	0.51	<0.01	0.74	0.15	0.15	0.03	0.02	1.64
X101350		1.72	57.8	16.65	8.90	7.18	3.41	3.50	0.59	<0.01	0.59	0.12	0.11	0.04	0.03	1.36
X101351		1.52	50.9	22.1	5.35	9.63	1.64	3.36	0.60	<0.01	0.36	0.07	0.04	0.05	0.03	1.56
X101352		1.50	54.8	23.3	5.55	10.15	1.73	3.65	0.66	<0.01	0.34	0.08	0.06	0.06	0.03	1.57
X101353		2.09	52.2	23.1	5.34	10.15	1.69	3.69	0.50	<0.01	0.34	0.07	0.05	0.05	0.02	1.63
X101354		2.09	51.3	23.6	5.75	10.50	1.76	3.86	0.37	<0.01	0.35	0.08	0.05	0.05	0.02	1.45
X101355		2.15	51.0	23.3	5.86	10.60	1.79	3.90	0.45	<0.01	0.35	0.08	0.05	0.05	0.02	1.53
X101356		2.20	52.3	22.7	6.38	10.35	1.89	3.95	0.36	<0.01	0.35	0.08	0.06	0.05	0.02	0.77
X101357		2.26	55.0	23.2	5.94	10.35	1.85	3.64	0.42	0.01	0.35	0.09	0.05	0.05	0.02	0.95
X101358		2.14	52.8	23.5	5.93	10.45	1.80	3.88	0.39	<0.01	0.38	0.08	0.06	0.06	0.02	1.25
X101359		2.15	53.8	23.1	5.74	10.20	1.74	3.83	0.39	<0.01	0.36	0.08	0.06	0.05	0.02	1.21
X101360		0.08	40.4	8.96	14.80	15.40	10.45	0.56	0.21	0.10	0.67	0.14	0.12	0.01	0.03	4.26
X101361		2.26	51.9	22.8	6.51	10.30	1.90	4.08	0.43	<0.01	0.37	0.08	0.06	0.05	0.02	1.36
X101362		2.21	51.9	23.3	6.66	9.62	1.94	4.35	0.68	<0.01	0.35	0.10	0.05	0.06	0.03	2.45
X101363		2.43	51.9	19.30	7.38	10.40	4.04	3.09	0.46	0.02	0.46	0.11	0.08	0.05	0.02	2.14
X101364		2.22	53.0	21.6	7.47	10.20	2.86	3.83	0.42	0.01	0.46	0.11	0.08	0.06	0.02	1.41
X101365		2.18	50.2	21.6	6.40	10.10	2.36	3.77	0.40	0.01	0.39	0.09	0.07	0.05	0.02	1.55
X101366		2.38	49.6	17.05	10.00	9.59	5.52	3.12	0.42	0.03	0.55	0.14	0.11	0.04	0.01	2.17
X101367		2.19	50.2	20.3	6.50	9.49	2.65	3.69	0.63	0.01	0.41	0.08	0.06	0.04	0.01	2.82
X101368		2.23	53.4	22.3	5.61	10.00	1.67	3.54	0.48	<0.01	0.36	0.08	0.05	0.05	0.02	1.38
X101369		2.08	53.1	23.1	5.66	10.15	1.82	3.74	0.44	0.01	0.38	0.08	0.06	0.05	0.02	1.75
X101370		2.27	51.7	22.9	6.33	10.50	1.94	4.09	0.39	<0.01	0.33	0.08	0.06	0.06	0.03	1.08
X101371		2.21	53.1	22.7	5.54	10.40	1.80	3.59	0.46	<0.01	0.33	0.08	0.05	0.05	0.02	1.12
X101372		2.39	53.8	23.2	5.89	10.45	1.72	3.72	0.59	<0.01	0.35	0.08	0.07	0.06	0.02	1.67
X101373		2.15	50.7	23.9	6.21	10.80	1.72	3.92	0.44	<0.01	0.37	0.08	0.06	0.06	0.02	1.44
X101374		2.16	51.5	23.0	6.69	10.30	1.79	4.05	0.51	0.01	0.36	0.09	0.06	0.06	0.03	1.68
X101375		2.20	51.2	23.2	5.85	10.65	1.73	3.71	0.45	<0.01	0.36	0.08	0.03	0.05	0.02	1.95
X101376		2.21	51.1	22.4	6.72	10.50	1.83	3.69	0.39	<0.01	0.40	0.09	0.05	0.05	0.02	1.28
X101377		0.08	47.8	12.70	21.0	6.20	6.60	2.17	0.63	0.03	1.25	0.20	0.15	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: 18-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070718

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
X101340		101.99	0.04	<0.01	639	31.9	20	0.71	3.99	2.64	1.01	18.2	4.30	<5	4.7	0.91
X101341		100.45	0.22	0.03	274	15.8	40	0.80	1.31	0.73	0.70	21.6	1.12	<5	1.3	0.30
X101342		98.02	0.13	0.02	217	16.0	40	0.92	1.28	0.64	0.65	22.9	1.37	<5	1.3	0.28
X101343		99.51	0.13	0.02	234	16.6	40	0.78	1.28	0.63	0.68	23.5	1.37	<5	1.3	0.29
X101344		101.44	0.12	0.04	248	33.8	30	0.82	2.56	1.64	1.10	23.7	2.96	<5	2.9	0.52
X101345		101.93	0.08	0.03	313	18.2	50	0.88	1.58	0.85	0.77	24.7	1.63	<5	1.6	0.30
X101346		99.17	0.06	0.02	220	14.3	30	0.69	1.17	0.64	0.58	21.1	1.39	<5	1.3	0.25
X101347		99.72	0.09	0.03	224	15.5	40	1.15	1.47	0.88	0.55	22.8	1.44	<5	1.3	0.25
X101348		100.97	0.12	0.02	205	15.7	30	0.87	1.31	0.91	0.66	23.3	1.40	<5	1.1	0.27
X101349		98.01	0.12	0.10	211	34.3	30	0.69	3.27	1.85	1.10	20.6	3.39	<5	2.4	0.65
X101350		100.28	0.14	0.07	204	26.1	30	0.61	2.27	1.24	0.75	18.0	2.26	<5	2.2	0.47
X101351		95.69	0.13	0.01	241	15.0	30	0.72	1.33	0.78	0.65	21.7	1.31	<5	1.2	0.23
X101352		101.98	0.08	0.04	225	14.8	30	0.71	1.38	0.67	0.63	23.8	1.38	<5	1.0	0.25
X101353		98.83	0.16	0.02	183.5	14.8	30	0.64	1.22	0.68	0.53	24.0	1.24	<5	1.0	0.22
X101354		99.14	0.13	<0.01	171.5	14.6	30	0.43	1.18	0.75	0.68	25.0	1.49	<5	1.1	0.27
X101355		98.98	0.15	<0.01	175.0	14.6	30	0.41	1.40	0.62	0.62	24.7	1.13	<5	0.9	0.26
X101356		99.26	0.06	<0.01	178.5	15.1	30	0.34	1.23	0.85	0.69	24.8	1.39	<5	1.1	0.32
X101357		101.92	0.06	<0.01	212	21.0	50	0.53	1.55	1.11	0.89	23.8	1.67	<5	1.6	0.32
X101358		100.60	0.11	<0.01	174.0	15.2	30	0.37	1.22	0.76	0.64	25.0	1.27	<5	1.1	0.26
X101359		100.58	0.09	<0.01	179.5	14.9	30	0.59	1.26	0.78	0.75	24.9	1.38	<5	1.1	0.27
X101360		96.11	0.24	2.73	285	19.5	730	0.35	2.59	1.55	0.86	12.6	3.06	<5	1.9	0.54
X101361		99.86	0.10	<0.01	191.5	14.9	30	0.45	1.19	0.65	0.64	23.5	1.50	<5	0.9	0.26
X101362		101.49	0.16	<0.01	227	15.1	30	0.71	1.27	0.82	0.54	24.7	1.36	<5	1.2	0.24
X101363		99.45	0.14	0.03	137.5	27.9	160	0.72	2.25	0.98	0.98	23.2	2.54	<5	1.2	0.39
X101364		101.53	0.09	0.01	177.0	26.4	90	0.54	1.79	0.96	1.08	24.8	2.54	<5	1.7	0.38
X101365		97.01	0.14	0.03	159.0	19.5	60	0.56	1.52	0.83	0.81	24.1	1.78	<5	1.4	0.31
X101366		98.35	0.13	0.04	126.5	38.4	220	0.73	2.42	1.22	1.30	22.5	3.42	<5	1.9	0.42
X101367		96.89	0.14	0.04	128.0	19.0	70	1.32	1.31	0.79	0.79	21.9	1.92	<5	1.2	0.33
X101368		98.94	0.14	0.03	156.0	14.6	30	0.95	1.42	0.67	0.64	24.3	1.36	<5	1.4	0.26
X101369		100.36	0.12	0.02	159.0	14.3	30	1.05	1.32	0.73	0.62	24.6	1.32	<5	1.5	0.28
X101370		99.49	0.09	0.02	261	14.4	30	0.48	1.22	0.72	0.62	24.5	1.43	<5	1.0	0.28
X101371		99.24	0.10	0.02	162.0	13.7	30	0.71	1.30	0.75	0.62	23.5	1.41	<5	1.0	0.23
X101372		101.62	0.10	0.03	183.0	15.5	30	0.94	1.21	0.69	0.67	25.8	1.36	<5	1.5	0.31
X101373		99.72	0.12	0.02	179.0	15.3	30	0.55	1.22	0.82	0.71	25.0	1.46	<5	1.0	0.25
X101374		100.13	0.14	0.01	226	15.9	40	0.63	1.24	0.81	0.64	26.2	1.52	<5	1.3	0.24
X101375		99.28	0.12	0.02	157.0	14.7	30	0.65	1.30	0.66	0.59	24.9	1.50	<5	1.3	0.27
X101376		98.52	0.12	0.03	151.5	15.9	30	0.51	1.32	0.94	0.60	25.1	1.19	<5	1.6	0.29
X101377		99.95	0.08	1.73	209	26.6	230	0.88	2.42	1.42	1.10	17.8	2.81	<5	2.6	0.51

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

Finalized Date: 18-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070718

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
X101340		14.1	0.46	3.5	18.4	4.31	29.9	4.39	1	537	0.3	0.71	3.23	0.43	1.31	172
X101341		8.1	0.12	1.7	7.3	1.92	15.0	1.32	1	460	0.2	0.23	1.43	0.10	0.43	93
X101342		8.0	0.13	1.8	7.1	1.94	17.6	1.53	<1	462	0.2	0.21	1.36	0.12	0.40	95
X101343		8.4	0.12	1.9	7.9	1.98	15.4	1.48	1	490	0.2	0.20	1.43	0.11	0.45	99
X101344		16.3	0.22	3.9	17.0	4.21	17.4	3.21	1	435	0.3	0.43	2.35	0.23	0.59	160
X101345		8.8	0.12	2.1	8.2	2.14	26.0	1.79	1	521	0.2	0.27	1.69	0.12	0.43	114
X101346		7.2	0.12	1.7	7.1	1.73	13.0	1.33	1	422	<0.1	0.18	1.18	0.10	0.45	85
X101347		7.4	0.11	1.8	7.6	1.83	21.0	1.57	<1	407	<0.1	0.19	1.29	0.12	0.37	92
X101348		7.7	0.13	1.7	7.7	1.94	15.7	1.55	<1	430	<0.1	0.24	1.35	0.11	0.40	89
X101349		16.0	0.26	3.8	17.4	4.21	9.1	3.65	1	282	0.1	0.49	2.31	0.26	0.54	164
X101350		12.5	0.19	2.9	13.1	3.17	10.0	2.43	1	275	0.1	0.34	1.84	0.15	0.50	109
X101351		7.6	0.11	1.7	7.1	1.71	12.7	1.44	<1	405	<0.1	0.22	1.26	0.07	0.36	92
X101352		7.5	0.12	1.5	7.5	1.82	14.4	1.53	<1	456	<0.1	0.20	1.09	0.11	0.31	95
X101353		6.8	0.10	1.6	6.6	1.71	10.6	1.19	<1	435	<0.1	0.17	1.11	0.11	0.34	95
X101354		7.3	0.08	1.5	6.9	1.80	6.9	1.34	1	446	<0.1	0.17	1.14	0.10	0.37	101
X101355		7.2	0.12	1.6	7.1	1.88	7.8	1.51	<1	450	<0.1	0.18	1.08	0.07	0.28	101
X101356		7.5	0.12	1.6	7.0	1.81	5.1	1.46	1	439	<0.1	0.20	1.18	0.12	0.32	123
X101357		10.5	0.13	2.1	10.1	2.42	8.2	2.25	<1	463	<0.1	0.25	2.62	0.14	0.37	104
X101358		7.6	0.13	1.7	6.6	1.85	6.9	1.40	<1	470	<0.1	0.20	1.51	0.08	0.31	107
X101359		7.2	0.12	1.6	6.6	1.78	6.9	1.41	1	463	<0.1	0.16	1.20	0.13	0.42	105
X101360		9.4	0.23	6.2	10.9	2.43	4.6	2.38	2	62.3	0.2	0.40	2.04	0.21	0.84	169
X101361		7.4	0.10	1.6	7.3	1.77	7.2	1.58	1	472	<0.1	0.18	1.14	0.09	0.60	124
X101362		7.5	0.13	1.6	7.7	1.84	13.8	1.25	3	492	<0.1	0.19	1.26	0.09	0.33	117
X101363		12.9	0.16	2.5	15.4	3.68	8.9	3.63	1	420	<0.1	0.31	2.02	0.14	0.49	140
X101364		12.0	0.14	2.4	13.8	3.22	6.2	2.77	2	492	<0.1	0.27	1.87	0.13	0.53	145
X101365		9.0	0.12	1.9	10.3	2.32	6.5	2.31	1	444	<0.1	0.29	1.62	0.13	0.42	126
X101366		17.6	0.15	3.0	21.9	5.12	6.3	4.57	1	340	0.1	0.44	2.74	0.16	0.61	186
X101367		8.7	0.13	1.9	9.4	2.39	15.1	1.92	1	343	<0.1	0.23	1.56	0.11	0.48	112
X101368		7.2	0.13	1.7	7.0	1.75	10.4	1.39	1	437	<0.1	0.20	1.26	0.10	0.37	108
X101369		7.0	0.13	1.7	6.7	1.80	9.5	1.50	1	446	<0.1	0.17	1.14	0.11	0.33	115
X101370		6.8	0.11	1.7	7.2	1.88	6.1	1.66	1	441	<0.1	0.17	1.05	0.12	0.35	136
X101371		6.5	0.11	1.7	7.2	1.66	9.3	1.53	1	424	<0.1	0.23	1.18	0.11	0.38	106
X101372		7.7	0.10	1.7	8.1	1.88	13.9	1.34	1	478	<0.1	0.19	1.44	0.11	0.44	108
X101373		7.3	0.11	1.9	6.8	1.83	7.9	1.41	1	467	<0.1	0.18	1.34	0.11	0.31	112
X101374		7.8	0.11	1.8	7.8	2.01	10.3	1.57	1	481	<0.1	0.20	1.54	0.13	0.29	125
X101375		7.3	0.12	1.9	6.9	1.84	9.5	1.64	1	436	<0.1	0.21	1.21	0.09	0.36	115
X101376		7.4	0.14	2.0	8.3	1.94	6.5	1.69	1	466	<0.1	0.22	1.66	0.13	0.41	138
X101377		11.7	0.18	6.9	12.9	3.13	16.5	2.55	4	255	0.3	0.39	1.53	0.16	0.41	118

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

Finalized Date: 18-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070718

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
X101340		6	23.9	2.90	156	0.7	0.05	<0.005	0.007	<0.001	0.12	<0.2	<0.01	0.04	<0.5	<0.5
X101341		1	6.5	0.72	48	0.5	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X101342		1	6.8	0.67	43	0.2	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X101343		1	7.0	0.78	49	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101344		1	14.2	1.45	107	0.2	0.02	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101345		1	7.9	0.91	53	0.4	0.02	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X101346		<1	6.5	0.86	45	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101347		<1	7.0	0.76	48	0.4	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
X101348		<1	7.3	0.83	40	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101349		<1	17.0	1.44	99	0.3	0.01	<0.005	0.009	0.001	<0.05	0.4	<0.01	0.03	<0.5	0.6
X101350		31	11.4	1.09	83	0.3	0.02	<0.005	0.008	<0.001	<0.05	0.2	<0.01	0.05	<0.5	<0.5
X101351		<1	6.4	0.84	44	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101352		<1	6.6	0.78	37	0.5	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101353		<1	6.1	0.72	38	0.4	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
X101354		<1	6.3	0.63	37	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101355		<1	6.4	0.71	38	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101356		<1	6.9	0.84	43	0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101357		<1	7.9	0.92	62	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101358		<1	6.5	0.73	38	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101359		<1	6.6	0.75	40	0.3	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X101360		1	13.8	1.43	71	44.1	0.32	0.149	0.052	0.016	1.47	12.0	1.25	0.06	2.5	1.2
X101361		<1	6.7	0.72	38	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101362		<1	6.5	0.66	43	0.3	0.01	<0.005	0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X101363		<1	9.9	0.95	47	0.3	0.02	<0.005	0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X101364		<1	9.3	0.96	56	0.2	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101365		<1	8.1	0.71	55	0.1	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.6
X101366		<1	12.0	1.10	63	0.2	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.8
X101367		7	7.3	0.76	47	0.3	0.02	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101368		27	6.4	0.69	52	0.5	0.04	<0.005	0.008	<0.001	0.05	<0.2	0.03	0.02	<0.5	<0.5
X101369		<1	6.6	0.75	54	0.3	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101370		<1	6.9	0.72	37	0.2	<0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101371		<1	6.2	0.70	36	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101372		<1	6.9	0.72	56	0.5	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101373		<1	6.7	0.76	39	0.1	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
X101374		1	7.2	0.72	48	0.1	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
X101375		<1	7.1	0.84	49	0.1	0.01	<0.005	0.006	0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101376		<1	7.5	0.85	59	0.3	0.02	<0.005	0.006	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	0.5
X101377		5	12.8	1.32	100	3.9	0.75	0.009	0.066	0.005	0.34	5.2	0.56	0.11	2.0	1.4

***** 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: 18-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070718

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
X101340		14	95	10	2	3	7	18	65	0.003	<0.005	0.001	0.035
X101341		16	17	20	1	14	4	9	45	0.001	<0.005	0.006	0.041
X101342		16	20	20	1	14	5	9	44	0.001	<0.005	0.006	0.035
X101343		16	17	10	2	13	<2	9	41	<0.001	<0.005	0.008	0.034
X101344		27	31	20	1	22	5	14	70	<0.001	<0.005	0.003	0.050
X101345		17	21	10	1	15	5	10	41	<0.001	<0.005	0.007	0.056
X101346		18	15	10	<1	15	<2	10	46	<0.001	<0.005	0.010	0.039
X101347		17	18	20	<1	14	2	10	39	<0.001	<0.005	0.007	0.040
X101348		20	17	20	<1	15	2	10	48	<0.001	<0.005	0.007	0.034
X101349		42	46	20	<1	54	5	22	105	<0.001	<0.005	0.001	0.114
X101350		33	30	20	<1	44	3	17	82	<0.001	<0.005	0.001	0.083
X101351		18	18	10	1	14	6	9	43	<0.001	<0.005	0.007	0.037
X101352		19	20	10	<1	12	3	9	44	<0.001	<0.005	0.006	0.061
X101353		18	19	20	1	13	<2	9	40	0.001	<0.005	0.010	0.036
X101354		17	8	10	<1	14	<2	9	37	<0.001	0.028	0.033	0.016
X101355		18	2	10	<1	14	<2	9	37	<0.001	<0.005	0.008	0.007
X101356		22	4	10	1	16	<2	10	38	<0.001	<0.005	0.007	0.008
X101357		18	14	10	1	15	3	10	46	0.001	0.005	0.008	0.029
X101358		17	7	10	1	15	<2	10	42	<0.001	0.014	0.009	0.017
X101359		16	7	10	<1	15	<2	9	42	<0.001	0.010	0.014	0.022
X101360		160	5760	40	3	2210	2	26	78	0.115	0.717	0.359	10.45
X101361		20	9	10	1	18	<2	9	39	<0.001	<0.005	0.007	0.023
X101362		19	21	20	<1	18	<2	8	45	<0.001	0.006	0.006	0.028
X101363		26	19	20	<1	51	4	16	55	<0.001	<0.005	0.008	0.031
X101364		24	12	10	<1	31	<2	12	47	<0.001	<0.005	0.008	0.018
X101365		21	10	10	<1	25	<2	11	42	<0.001	<0.005	0.007	0.016
X101366		34	11	20	<1	72	2	23	70	<0.001	<0.005	0.006	0.019
X101367		21	12	30	<1	31	2	12	47	<0.001	<0.005	0.007	0.033
X101368		16	18	10	1	13	<2	9	44	<0.001	<0.005	0.006	0.025
X101369		17	15	10	1	15	<2	10	43	<0.001	<0.005	0.007	0.017
X101370		19	3	10	<1	18	3	9	39	<0.001	<0.005	0.006	0.006
X101371		16	12	10	1	12	<2	10	45	0.001	<0.005	0.034	0.010
X101372		16	14	10	<1	12	3	10	43	<0.001	<0.005	0.010	0.024
X101373		15	4	10	<1	12	<2	10	38	<0.001	<0.005	0.012	0.011
X101374		17	2	10	<1	14	<2	10	39	<0.001	<0.005	0.009	0.005
X101375		16	11	10	1	14	3	10	41	<0.001	0.018	0.034	0.019
X101376		18	8	10	<1	17	2	10	43	<0.001	0.009	0.024	0.017
X101377		112	4510	20	5	4470	23	12	105	0.094	0.311	0.600	4.08

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

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THUNDER BAY ON P7B 2R2

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CERTIFICATE OF ANALYSIS TB18070718

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		